

Notice is hereby given that a meeting of the Services and Assets Committee will be held on:

Date: Time: Meeting room: Tuesday, 12 April 2022 9am Virtual meeting via Zoom

Services and Assets Committee Agenda OPEN

MEMBERSHIP

Chairperson

Councillors

Ebel Kremer Mayor Gary Tong Don Byars John Douglas Paul Duffy Bruce Ford Darren Frazer George Harpur Julie Keast Christine Menzies Karyn Owen Margie Ruddenklau Rob Scott

IN ATTENDANCE

Group manager programme delivery Committee advisor

Nick Hamlin Fiona Dunlop

Contact telephone: 0800 732 732 Postal address: PO Box 903, Invercargill 9840 Email:<u>emailsdc@southlanddc.govt.nz</u> Website: <u>www.southlanddc.govt.nz</u> Online: <u>Southland District Council YouTube</u>

Full agendas are available on Council's website

www.southlanddc.govt.nz

Note: The reports contained within this agenda are for consideration and should not be construed as Council policy unless and until adopted. Should Members require further information relating to any reports, please contact the relevant manager, Chairperson or Deputy Chairperson.

Health and safety – emergency procedures

Toilets – The toilets are located outside of the chamber, directly down the hall on the right.

Evacuation – Should there be an evacuation for any reason please exit down the stairwell to the assembly point, which is the entrance to the carpark on Spey Street. Please do not use the lift.

Earthquake – Drop, cover and hold applies in this situation and, if necessary, once the shaking has stopped we will evacuate down the stairwell without using the lift, meeting again in the carpark on Spey Street.

Phones – Please turn your mobile devices to silent mode.

Recording - These proceedings are being recorded for the purpose of live video, both live streaming and downloading. By remaining in this meeting, you are consenting to being filmed for viewing by the public.

Covid QR code - Please remember to scan the Covid Tracer QR code.

Terms of Reference – Services and Assets Committee

TYPE OF COMMITTEE	Council standing committee
RESPONSIBLE TO	Council
SUBCOMMITTEES	None
LEGISLATIVE BASIS	Committee constituted by Council as per schedule 7, clause 30 (1)(a), LGA 2002.
	Committee delegated powers by Council as per schedule 7, clause 32, LGA 2002.
MEMBERSHIP	The Services and Assets Committee is a committee of the whole Council. The mayor and all the councillors will be members of the Services and Assets Committee.
FREQUENCY OF MEETINGS	Six weekly or as required
QUORUM	Not less than seven members.
SCOPE OF ACTIVITIES	The Services and Assets Committee is responsible for ensuring that Council delivers its infrastructural asset based services in an effective and efficient manner that meets the needs of its communities and protects the investment that Council has in these assets.
	The committee is responsible for overseeing the following Council activities:
	• transport
	• property management including community facilities, acquisitions and disposals (including land dealings)
	• forestry
	• water supply, wastewater and stormwater
	solid waste management
	flood protection
	waste management
	Te Anau airport
	Stewart Island Electrical Supply Authority
	Stewart Island Jetties and Riverton Harbour
	• water supply schemes.
DELEGATIONS	The Services and Assets Committee shall have the following delegated powers and be accountable to Council for the exercising of these powers:
	Power to Act
	The committee has the delegated authority to:
	a) assess and provide advice to Council on the strategic issues relating to the delivery of infrastructural asset services
	b) reviewing and recommending to Council strategies on how it should go about managing the delivery of the infrastructural asset services that it provides

	c) monitor the condition and performance capability of the infrastructural assets owned by Council so as to ensure that it protects its investment in these assets in accordance with accepted professional standards
	d) monitor the delivery of capital works projects and the implementation of the capital works programmee) monitor the delivery of operations and maintenance contracts
	 f) approve and/or assign all contracts for work, services or supplies where those contracts relate to work within approved estimates. Where the value of the work, services, supplies or business case or the value over the term of the contract is estimated to exceed \$2 million a prior review and recommendation of the business case by the Finance and Assurance Committee is required. The business case shall include as a minimum; risk assessment, a procurement plan and financial costings. If there is a different recommendation from the Finance and Assurance Committee the matter will be referred to Council for a decision
	g) monitor the return on all Council's investments including forestry
	 monitor and track Council contracts and compliance with contractual specifications. Power to Recommend
	The Services and Assets Committee is responsible for considering and making recommendations to Council regarding:
	a) policies relating to the scope of activities of the Services and Assets Committee
	b) changes to Council's adopted levels of service
	c) the dividend from the forestry business unit
FINANCIAL DELEGATIONS	Council authorises the following delegated authority of financial powers to Council committees in regard to matters within each committee's jurisdiction.
	Contract Acceptance:
	• accept or decline any contract for the purchase of goods, services, capital works or other assets where the total value of the lump sum contract does not exceed the sum allocated in the Long Term Plan/Annual Plan and the contract relates to an activity that is within the scope of activities relating to the work of the Services and Assets committee
	• accept or decline any contract for the disposal of goods, plant or other assets other than property or land.
	Budget Reallocation.
	Committee is authorised to reallocate funds from one existing budget item to another. Reallocation of this kind must not impact on current or future levels of service and must be:
	• funded by way of savings on existing budget items
	• within the jurisdiction of the committee
	• consistent with the Revenue and Financing Policy.

LIMITS TO DELEGATIONS	 Matters that must be processed by way of recommendation to Council include: amendment to fees and charges relating to all activities powers that cannot be delegated to committees as per the Local Government Act 2002 and sections 2.4 and 2.5 of this manual. Delegated authority is within the financial limits in section 9 of this manual.
STAKEHOLDER RELATIONSHIPS	 This committee shall maintain relationships including, but not limited to the following organisations: Community Boards Regional Land Transport Committee WasteNet FENZ (Fire and Emergency New Zealand) The committee will also hear and receive updates to Council from these organisations, as required.
CONTACT WITH MEDIA	The committee chairperson is the authorised spokesperson for the committee in all matters where the committee has authority or a particular interest. Committee members do not have delegated authority to speak to the media and/or outside agencies on behalf of Council on matters outside of the board's delegations. The group manager services and assets will manage the formal communications between the committee and the people of the Southland District and for the committee in the exercise of its business. Correspondence with central government, other local government agencies or official agencies will only take place through Council staff and will be undertaken under the name of Southland District Council.



TABLE OF CONTENTS

ITEM		PAGE
PRO	CEDURAL	
1	Apologies	9
2	Leave of absence	9
3	Conflict of interest	9
4	Public forum	9
5	Extraordinary/urgent items	9
6	Confirmation of minutes	9

REPORTS

7.1	Downer Water and Wastewater Maintenance Contract 10/01 - monthly report for February 2022	15
7.2	Road operations - February 2022	21
7.3	Services and Assets Programme Report	33
7.4	Three waters reform update	45



1 Apologies

At the close of the agenda no apologies had been received.

2 Leave of absence

At the close of the agenda no requests for leave of absence had been received.

3 Conflict of interest

Committee members are reminded of the need to be vigilant to stand aside from decisionmaking when a conflict arises between their role as a member and any private or other external interest they might have.

4 Public forum

Notification to speak is required by 12noon at least one clear day before the meeting. Further information is available at <u>www.southlanddc.govt.nz</u> or by phoning 0800 732 732.

5 Extraordinary/urgent items

To consider, and if thought fit, to pass a resolution to permit the committee to consider any further items which do not appear on the agenda of this meeting and/or the meeting to be held with the public excluded.

Such resolution is required to be made pursuant to Section 46A(7) of the Local Government Official Information and Meetings Act 1987, and the chairperson must advise:

- (i) the reason why the item was not on the agenda, and
- (ii) the reason why the discussion of this item cannot be delayed until a subsequent meeting.

Section 46A(7A) of the Local Government Official Information and Meetings Act 1987 (as amended) states:

"Where an item is not on the agenda for a meeting,-

- (a) that item may be discussed at that meeting if-
 - (i) that item is a minor matter relating to the general business of the local authority; and
 - (ii) the presiding member explains at the beginning of the meeting, at a time when it is open to the public, that the item will be discussed at the meeting; but
- (b) no resolution, decision or recommendation may be made in respect of that item except to refer that item to a subsequent meeting of the local authority for further **discussion.**"
- 6 Confirmation of minutes
 - 6.1 Meeting minutes of Services and Assets Committee, 08 March 2022



Services and Assets Committee

OPEN MINUTES

Minutes of a meeting of Services and Assets Committee held as a Virtual meeting via Zoom on Tuesday, 8 March 2022 at 9am. (9am – 10.24am)

PRESENT Chairperson

,

Councillors

Ebel Kremer Mayor Gary Tong Don Byars John Douglas Paul Duffy Bruce Ford Darren Frazer George Harpur Julie Keast Christine Menzies Karyn Owen Margie Ruddenklau Rob Scott

IN ATTENDANCE

Group manager programme delivery – Nick Hamlin Group manager infrastructure and environmental services – Matt Russell Committee advisor – Fiona Dunlop



1 Apologies

There were no apologies.

2 Leave of absence

There were no requests for leave of absence.

3 Conflict of interest

There were no conflicts of interest declared.

4 Public forum

There was no public forum.

5 Extraordinary/urgent items

There were no extraordinary/urgent items.

6 Confirmation of minutes

Resolution

Moved Chairperson Kremer, seconded Cr Ruddenklau and resolved:

That the Services and Assets Committee confirms the minutes of the meeting held on 1 February 2022 as a true and correct record of that meeting.

Reports

7.2 Road operations - January 2022

Record No: R/22/1/702

Roading engineer – Rob Hayes and Strategic manager transport – Hartley Hare were in attendance for this item.

Mr Hayes and Mr Hare advised that the purpose of the report was to update the Committee on the progress of major roading contracts and provide the necessary context to the 2021/2022 budgets.

Resolution

Moved Chairperson Kremer, seconded Cr Harpur and resolved:

That the Services and Assets Committee:



a) receives the report titled "Road operations - January 2022" dated 1 March 2022.

7.1 Health and Safety Update

Record No: R/22/2/4936

Health, safety and wellbeing advisor - Teri Black was in attendance for this item.

Mrs Black advised that the purpose of the report was to update the Committee on health and safety related events and activity over the last quarter.

Resolution

Moved Chairperson Kremer, seconded Cr Scott and resolved:

That the Services and Assets Committee:

a) **Receives the report titled "Health and Safety Update" dated** 1 March 2022.

- b) Determines that this matter or decision be recognised as not significant in terms of section 76 of the Local Government Act 2002.
- c) Determines that it has complied with the decision-making provisions of the Local Government Act 2002 to the extent necessary in relation to this decision; and in accordance with section 79 of the act determines that it does not require further information, further assessment of options or further analysis of costs and benefits or advantages and disadvantages prior to making a decision on this matter.

7.3 Services and Assets Programme Report

Record No: R/22/1/1925

Project delivery manager – Brendan Gray was in attendance for this item.

The Committee noted that the report highlighted the completed projects as being Taramea Bay phase 1 works, majority of the toilet refurbishment projects, Lakefront Drive water main renewal project, Otautau Nightcaps rehabilitation, Tokanui Gorge Road rehabilitation and several playground refurbishment projects.

Also highlighted were projects due to commence in the next two months which were the Tourism Infrastructure Fund toilet replacement/renewal project, Two Chain Road intersection minor safety improvement project, Mataura Island Road rehabilitation, Tokanui hall repainting, Wyndham hall kitchen upgrade and Tuatapere hall flooring.

Resolution

Moved Chairperson Kremer, seconded Cr Ruddenklau and resolved:

That the Services and Assets Committee:

a) **Receives the report titled "Services and Assets Programme Report" dated** 1 March 2022.



7.4 Health (Fluoridation of Drinking Water) Amendment Act 2021 - implementation planning

Record No: R/22/2/6626

Asset manager water - Bill Witham was in attendance for this item.

Mr Witham advised that the purpose of the report was to update the Committee on the **Ministry of Health's implementation planning for the Health** (Fluoridation of Drinking Water) Amendment Act 2021 that drinking water supplies to more than 500 people will eventually be required to include fluoridation.

The Committee noted that Health (Fluoridation of Drinking Water) Amendment Act 2021 was passed into law last year that the amendment has moved the decision to fluoridate drinking water supplies from local government to the Director-General of Health.

It was noted that the cost of upgrading the water treatment plants in the District to include fluoridation is unknown and has not been allowed for in the current Long-Term Plan.

Resolution

Moved Chairperson Kremer, seconded Mayor Tong and resolved:

That the Services and Assets Committee:

a) **receives the report titled "Health (Fluoridation of Drinking** Water) Amendment Act 2021 - **implementation planning" dated** 1 March 2022.

The meeting concluded at 10.24am.

CONFIRMED AS A TRUE AND CORRECT RECORD AT A MEETING OF THE SERVICES AND ASSETS COMMITTEE HELD ON TUESDAY 8 MARCH 2022.

DATE

CHAIRPERSON:



Downer Water and Wastewater Maintenance Contract 10/01 - monthly report for February 2022

Record No:	R/22/3/6876
Author:	Tim Deuchrass, Contract Manager Water and Waste Services
Approved by:	Matt Russell, Group manager infrastructure and environmental services

$\hfill\square$ Decision

□ Recommendation

⊠ Information

Background

1 Downer was awarded Contract 10/01 for delivery of water and wastewater services to Council for the Southland District. The contract was awarded in 2010 for a maximum period of 12 years. However, in mid-2021 given the lack of clarity associated with the three-waters reform and associated timing, a decision was made to extend the contract by an additional 12-months. The current contract expires in mid-2023.

Purpose

2 The purpose of this report is to update the committee on the progress of this contract for the month of February 2022

Summary

3 KPI scoring was 95% for February 2022

Compliance (Drinking-water)

4 All drinking water compliance testing required was carried out and completed for the month of February 2022 (196 tests)

All drinking water compliance tested undertaken returned compliant results with all samples being absent of Escherichia Coli, thus meeting the required biological standards. Protozoa compliance was high for the individual determinants including filtration and UV disinfection performance.

Compliance (Environmental)

5 In February 2022 there were 227 tests undertaken with one non-compliant result.

The one non-compliant result was an E. coli exceedance at Nightcaps wastewater treatment pond. For reference the last E. coli non-compliance event in Nightcaps occurred in 2019. As a one-off, this is not considered an issue and can likely be attributed to the long dry summer.

Operations and Maintenance

6 In February 2022 there were 73 service requests received by Downer. All of which were responded to (100%) within required timeframes.

Minor Capital Projects

7 The 21/22 programme is tracking well. 7 projects are currently underway with the most significant of these being the district-wide SCADA upgrades. These upgrades will improve real-time operational visibility for Downer and SDC staff.

Financial

8 There were no outstanding variations to the contract over December and January.

Customer Service

9 As above, there were in total 73 service requests received and none recorded as resolution time exceeded.

Health and Safety

There were no safety incidents in February 2022

Quality Assurance

10 There were no non-conformance/opportunity for improvement reports issued and no instances of rework or product failure during February.

Recommendation

That the Services and Assets Committee:

a) receives the report titled "Downer Water and Wastewater Maintenance Contract 10/01 - monthly report for February 2022" dated 5 April 2022.

Attachments

7.1

A SDC Monthly Report February 2022 🕹



SOUTHLAND DISTRICT COUNCIL—WATER AND WASTEWATER MAINTENANCE CONTRACT 120/15/10/01

MONTHLY SUMMARY REPORT - FEBRUARY 2022

KPI LEVELS OF SERVICE

CATEGORY	NO.	KEY PERFORMANCE INDICATOR								TARGET		FEB 2022		MPLIANT N or N/A
	1^	LTI - The number of Lost Time Injuries (LTI's) over 12 month period									ost time of worked to e	0		Y
HEALTH &	2^	MTI - Th	e number of Med	lical Time Injuri	es (MTI's) over	= 2 per year</td <td>0</td> <td></td> <td>Y</td>		0		Y				
SAFETY	3^		number of Safety ons learnt	Incidents (SI) (i	e Near Miss, Ha	= 5 per month</td <td>0</td> <td></td> <td>Y</td>		0		Y				
	4^	TRIFR - 1	Fotal Recordable I	njury Frequenc	y rate (includes	= 3</td <td>0</td> <td></td> <td>Y</td>		0		Y				
	5^		number of Enviro and lessons learnt		nts (El) (ie Near	Miss, pollu	ition eve	nts, infringerr	ents) investigation	= 5 pe</td <td>er year</td> <td>0</td> <td></td> <td>Y</td>	er year	0		Y
	6#	Water C requirer		e - The percenta	age of sampled	water non-	complia	nce compared	I to the regulatory	100	1%	100%		Y
	7#	Drinking	g Water Quality - 1	The number of (drinking water o	complaints.	To be m	neasured mon	thly.	= 5 pe</td <td>er year</td> <td>0</td> <td></td> <td>Y</td>	er year	0		Y
TREATMENT	8#	Boil Wa	ter Alerts to Publi	c - Excludes Eas	tern Bush					0 per	year	0		Y
OPERATIONS	9#	Plant Di guidelin	scharge Complian es.	ce - The numbe	er of wastewate	er discharge	tests no	t complying v	vithin regulatory	100	1%	99.5%		Ν
	10#		age samples taker I if required).	n in accordance	with the Resou	ensation to be re-	100	100%			Y			
	11^ #	Percent	age of Requests fo	or Service respo	onded to within	required tir	meframe	25.		Not less t	han 90%	100%		Υ
VASTEWATER	12^ #	Overflov	w Containment/Re	esponse						95% containe	d within SLA	100%		Y
	13 #	Overflov	Overflows Incidence - The number of repeat overflows on a customer service/property. = 5 per year 0</td <td></td> <td>Y</td>									Y		
WATER	14 #		e Complaints (urb eported monthly	an supplies) - Tl	he number of p	ressure con	nplaints	below minima	al supply require-	= 2 per</td <td>month</td> <td>2</td> <td></td> <td>Y</td>	month	2		Y
NETWORK	15^ #	Number of non-notified shutdowns across all urban water systems.								= 20 p</td <td>er year</td> <td>0</td> <td></td> <td>Y</td>	er year	0		Y
	16^ #	Shutdov	vn Notifications (r	o longer than s	six hours)					95% contained within SLA		0		Y
	17*	Staff Tu	Staff Turnover - Rate of staff turnover specifically relating to Treatment Plant Operators.							= 80%</td <td>4%</td> <td></td> <td>У</td>		4%		У
PEOPLE / HR	18	Contrac	tor Overtime - Mo	onthly measure	of the contract	contractor overtime levels.			Average hours worked less than 55 hours per week		50.03		У	
	19	Absente	eism - Absenteeis	sm rate.						Operationa greater th		80		у
Performance	e Evalua	tion	A Total num	ber of Y's										17
B Total number of N's												1		
A + B											18			
OPR = 100 X (A/(A+B) %												95%		
JUL 21	AU	G 21	SEP 21	OCT 21	NOV 21	DEC 2	21	JAN 22	FEB 22	MAR 22	APR 22		(22	JUN 22
100%	10	0%	95%	100%	90%	100%	%	100%	95%					

Description	Employees		Sub- Contractor	
	Current Month	Year to Date	Current Month	Year to Date
Number of Lost Time Injuries	0	0	0	0
Number of Days lost due to LTI's	0	0	о	0
Number of Medical Treatment Injuries	0	0	0	0
Number of Safety Incidents	0	0	0	0
Number of Near misses	0	0	0	0
Total Recordable Injury Frequency Rate				
Number of Property/Plant Damages	0	0	0	0
Number of hours Worked	3,365.73	27,316.68	287.75	1,931.75
LTI Incidence Rate (1 million Hrs.)	0.0	0.0	0.0	0.0

MONTHLY SUMMARY

to reduce consumption.

٠

environment is difficult.



HEALTH & SAFETY INDICATORS

The dry conditions continue to put all water treatment plants and rural schemes under pressure. The priority is to carry out any leakage repairs in a timely manner so water is not wasted and is used as economically as possible. This is apparent in Otautau where we have identified excess water use from the water treatment plant, so a third party contractor has been employed to assist with leak detection

Increased water usage in and around Sandy Brown Road at Te Anau has been an issue and the consequence has been a variable loss of pressure to the residents' supply. This has now been fixed with the installation of a new pump to assist with the extra water usage in this area. It must be noted that once the issue was identified, urgency was put on this installation, but delivery of equipment in our present

SOUTHLAND DISTRICT COUNCIL—WATER AND WASTEWATER MAINTENANCE CONTRACT

120/15/10/01

SOUTHLAND

MONTHLY SUMMARY REPORT - FEBRUARY 2022

REQUESTS FOR SERVICE

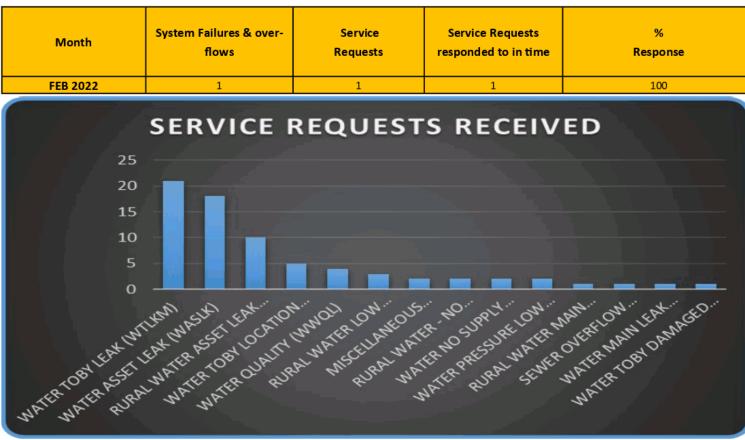
Month	Number of Service Requests Received	Number of Service Requests responded to within time			
FEBRUARY 2022	73	73			

TREATED WATER

Month	Complaints regarding water quality	Cumulative Total : Quality	Complaints water quantity, pressure	Cumulative Total: Quantity, pressure	Non-Notified Shut Downs	Service Requests Responded to in time	% Response
FEB 2022	4	18	2	51	0	54	100
RURAL WATER							

Cumulative Cumulative Service Requests **RWS Low Water** No Water % Month Total: responded to in Total: Pressure Supply Response Pressure Supply time FEB 2022 13 16 100 3 2 40

WASTEWATER



MINOR CAPEX WORK

Minor Capital Work Project Work TOTAL

CLAIM SUMMARY YEAR TO DATE

SDC O&M Lump Sum YTD

SDC O&M Capital & Project Works YTD TOTAL

STAFFING / TRAINING

Contract staff levels are currently seventeen permanent employees. This is made up of five management, administration and QA staff and twelve field staff. Donna Devon started as replacement for Libby on February 14, 2022. Rod Morgan left on Friday February 18, with his replacement starting on March 7, 2022.

There is no training scheduled for the busy summer months.

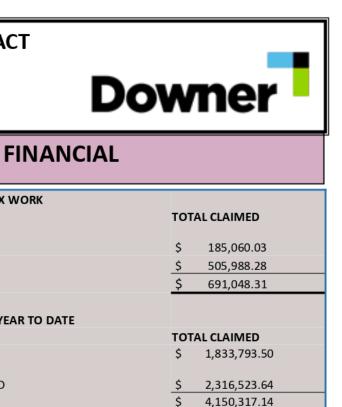
UPCOMING WORK / RISKS

UPCOMING WORK

- ٠ tion
- at Stewart Island, which is happening this month.

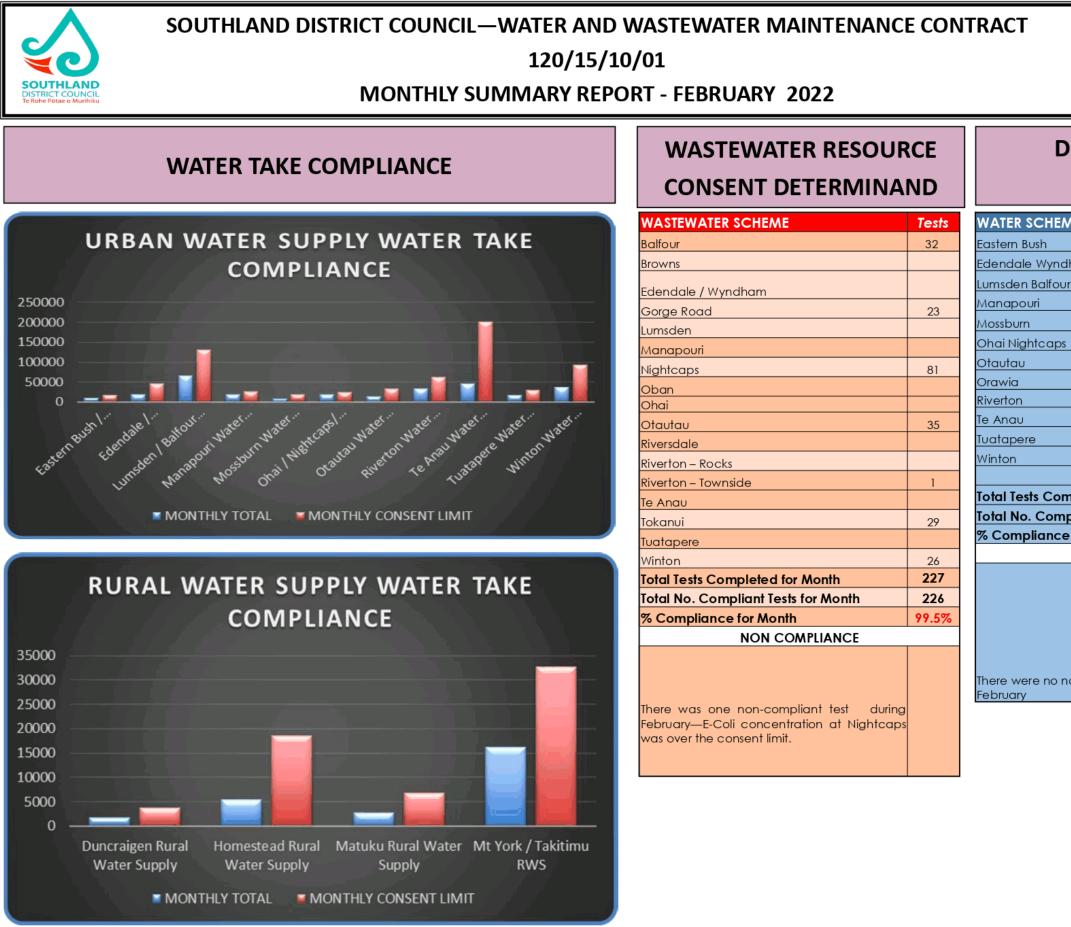
RISKS

- Omicron is starting to show its' effect across New Zealand, albeit Southland still has some way to go ٠ before it reaches its' peak. To date it has had minimal effect on our team but we continue to use best practice working in smaller teams and using RAT tests as required to identify any infection.
- We need to be constantly aware of the supply chain issues associated with the spread of Omicron ٠ which is affecting material and chemical supplies required to run our water and waste network. We are presently carrying extra supplies in anticipation of shortages.
- Maintaining our work force is critical when there are labour shortages in the work place, especially ٠ for skilled workers. Southland has a very small pool of these skilled people in relation to water and waste networks and they need to be paid appropriately.



Upgrading of pumps continues across the network in water and waste. We have installed new pumps on the Kakapo/Duncraigen rural schemes this month and the Wyndham waste pumping sta-

Electrical inspections across all treatment plants and pumping stations have been completed except





DRINKING WATER COMPLIANCE

ME	Tests
	8
ndham	25
our	19
	10
	10
os	14
	22
	6
	16
	22
	22
	22
ompleted for Month	196
npliant Tests for Month	196
ce for Month	100%
NON COMPLIANCE	
non-compliant tests during	



Road operations - February 2022

Record No:	R/22/3/10842
Author:	Rob Hayes, Roading engineer
Approved by:	Matt Russell, Group manager infrastructure and environmental services

□ Decision □ Recommendation ⊠ Information	□ Decision	Recommendation	☑ Information
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Purpose

1 The purpose of this report is to update the committee on the progress of major roading contracts and provide the necessary context to the 2021/2022 budgets.

Executive summary

- 2 The Around the Mountain Cycle Trail and Te Anau Airport, Manapouri have been transferred to the transport team to manage. These previously sat with commercial infrastructure.
- 3 The extended dry weather continues to cause dust nuisance and some maintenance issues such as corrugations. Deep grading is often unsuccessful when there is no moisture present to rebind the gravel.
- 4 Foveaux completed their noxious spraying cycle during February.
- 5 Maintenance spend across the three contracts totalled \$8.6 million to the end of February.
- 6 Customer satisfaction: 92 requests for service (RFS) were received across the three Alliance contracts in November, compared with 109 in 2021, a decrease of 16%.
- 7 In relation to health and safety for the Alliance contracts, 15 contractor safety audits were completed during January with nine near misses reported.
- 8 Activity performance:
 - metalling: 44,100m³ (80%) had been placed by the end of February of a total 2021/2022 budget of 55,100m³
 - grading: 9,300km (70%) has been graded by the end of February of a total 2021/2022 budget of 13,200km for the year.

Pavement rehabilitations

- 9 All five 2021/2022 pavement rehabilitation packages have been awarded and are under construction. All are on track to meet completion dates.
- 10 The safety improvement of Two Chain and Riversdale Waikaia Roads intersection is under construction.

Resurfacing

11 The resurfacing programme, which consists of 870,000m² commenced during October 2021. 79% had been sealed at the end of February.

Pavement marking

12 Downer has programmed a full network re-mark. The programme was 80% completed at the end of February.

Bridges

- 13 The transport team has awarded the six-bridge design and build package, shared between two contactors. Concrete Structures Ltd has been awarded four bridges: Dipton Mossburn Road No 4, Dipton Flat Road, Caird and McBride Roads (Otapiri Gorge). Fulton Hogan has been awarded two: McDonald Road 4 (Dipton) and Grey Road (Titiroa).
- 14 As at the end of February Dipton Flat Road bridge is complete and open, Dipton Mossburn Road No 4, Caird and McBride Road bridges are both under construction.

Recommendation

That the Services and Assets Committee:

a) receives the report titled "Road operations - February 2022" dated 5 April 2022.

Attachments

- A Waimea 🖞
- B Central 👢
- C Foveaux 🖞
- D Fulton Hogan H&S Report 🕹
- E SouthRoads H&S report J

		vvan
CUSTOMER AND COMMU	NITY GOVERI	NANCE
Requests for Services	Feb-22	YTD
General Requests for Road Service (RFS's)	15	133
Road Service Requests completed on time	15	119
Road Service Requests completed on time %	100%	89%
HEALTH AND	SAFETY	
	Feb-22	YTD
Lost Time Incident (pass/fail >1)		-
Medical Treatment Intervention (pass/fail >1)	-	-
Near Hits Reported (pass/fail <5)	-	37
Site Safety & Traffic Management Audits		
completed (pass/fail <5)	-	44
Site Safety & Traffic Management non-		_
compliances (pass/fail >1)		
PERFORMANCE S	CORECARD	
KEY RESULT AREA	WEIGHTING	SCORE
Financial - YTD	10%	7.5%
Customer and Community Governance	10%	109
Health & Safety	20%	10%
Alliance Effectiveness & Efficiency	40%	40%
Pre-Reseal Repairs (75% 1st Oct, 90% 15th Nov, 100% 1st Dec).	10%	10%
Metalling Achievement	10%	10%
Grading Achievement	10%	10%
Rework (pass/fail 1)	10%	10%
Network Condition ** To be confirmed	20%	20%
Overall Score	100%	88%
IDENTIFIED RISK & STR	ATEGY UPDA	ATE
Risk 1 - <i>Slips</i>		
Currently we have three slips sites all in the	e Tuatapere Ward.	WSP are
undertaking assessments to determine pos		
Risk 2 - <i>Culverts 600mm></i>		
Culvert Inspections on 600mm and above i	is hiahliahtina issue	es in the
network. More money for drainage has be		
Risk 3 - Suction Sweeper Waste (Contamir		
Looking at alternative solutions to the current	setup at the Winton	Wastewater
Treatment plant post advice we cannot utilise t	this facility.	

Waimea Alliance - Summary Report February 2022

The southern coastal strip of Southland is quite parched after the third consecutive month with below average rainfall. Of the monthly total of 59mm for Invercargill, 49mm fell on the 2nd, 15th and 18th, but rainfall totals varied widely over the region and the headwaters of Southland's major rivers were drenched between the 3rd and 4th of February and a flood came down the region's major rivers. This event was part of widespread rain further north which brought severe flooding to the upper West Coast of the South Island. Temperatures were the usual wide mixture, and overall the month was very slightly cooler than normal. Afternoon highs between 20-28°C were recorded on 11 days, but there

were also a number of rather cool days and nights with more frosts than usual. Work completed for the month consisted a mixture of work.

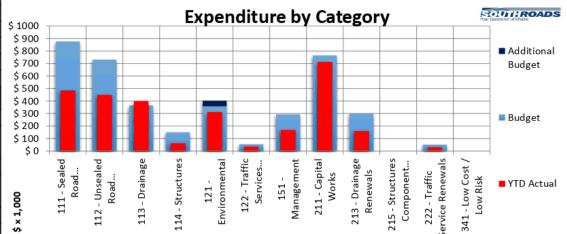
The stabilising crew from the highways has completed all 1,324m² of pre reseal repairs.

Maintenance Metalling continued with another 1,308m³ applied to the network. The second round of shoulder mowing has been completed also this month.

The drainage crew continued with water channel cleaning along Lillburn Valley Road. This seems to have taken some time but the unsealed section of this road is 20,428m long.

All but three of the service cover have been completed by Allan Contracting. They completed 53 to help our guys concentrate on other work.

Again this month there has been significant signs damage caused by



ebruar	y 2022			Your Contractor of Choir	ROADS
	ALLIANCE	EFFECTIVE	NESS & EFF	ICIENCY	
Sealed Network	Achievement of I	Programme - 20	022/23 Pre-Rese	al Repairs	
Activity	22/23 Repairs	Feb-22	YTD	Remaining	% Completed
Depressions (m2)	58	-	58	-	100%
Edge Breaks (m)	1,593	-	1,593	-	100%
WWC (m)	8,306	-	-	8,306	0%
Stabilising (m2)	1,324	548	1,324	-	100%
Sites	134	105	202	- 68	151%
Kilometres	40	2	31	10	76%
Unsealed Netwo	rk Achievement o	of Programme			
Activity	Budget	Feb-22	ΥTD	Remaining	% Completed
Metalling (m3)	21,875	1,308	21,622	253	99%
Grading (KM)	4,620	496	3,046	1,574	66%
Structures - Main	ntenance - (Total	Programme)			
Activity	Quantity	Feb-22	LTD	Remaining	% Completed
Painting	295	-	2	293	1%
600mm > Culvert Inspections	661	5	270	391	41%
			FINANCI	AL COMM	ENTARY
				289K ahead of N	0

								FIN	ANCIAL SUMMARY - Roading												
	An	nual Amoun		Jul-21		Aug-21		Sep-21		Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22	Apr-2
Original Total Cost Estimate	\$	3,943,107	\$	301,171	\$	332,155	\$	378,694	\$	235,554	\$	534,962	\$	223,277	\$	223,592	\$	381,933	\$	425,321	\$ 37:
Actual Claim			\$	345,893	\$	369,710	\$	461,711	\$	368,450	\$	442,543	\$	306,170	\$	372,078	\$	319,264	\$	-	\$
Year to Date Budget	\$	2,611,338	\$	301,171	\$	633,326	\$	1,012,020	\$	1,247,574	\$	1,782,536	\$	2,005,813	\$	2,229,405	\$	2,611,338	\$	3,036,659	\$ 3,40
Actual Claim YTD	\$	2,985,819	\$	345,893	\$	715,603	\$	1,177,314	\$	1,545,764	\$	1,988,307	\$	2,294,477	\$	2,666,555	\$	2,985,819	\$	2,985,819	\$ 2,98
Variance YTD	-\$	374,481	Ada	litional Funds Provided \$		44,722															

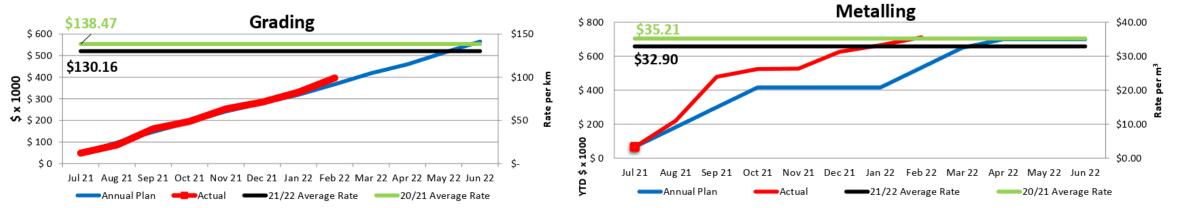
JULIDOADC	
SUJI:ROADS	
Your Contractor of Choice	

this is predominantly related to Metalling where we are ahead of budget by \$276K.



r-22 May-22 Jun-22 371,435 \$ 305,757 \$ 229,256 08,094 \$ 3,713,851 \$ 3,943,107 985,819 \$ 2,985,819 \$ 2,985,819





CUSTOMER AND COMMU	NITY GOVER	NANCE
Requests for Services	Feb-22	YTD
General Requests for Road Service (RFS's)	46	472
Road Service Requests completed on time	43	433
Road Service Requests completed on time %	93%	929
HEALTH AND	SAFETY	
	Feb-22	YTD
Lost Time Incident (pass/fail >1)	-	1
Medical Treatment Intervention (pass/fail >1)	-	1
Near Hits Reported (pass/fail <5)	5	73
Site Safety & Traffic Management Audits	6	64
completed (pass/fail <5) Site Safety & Traffic Management non-	+	
compliances (pass/fail >1)	-	-
PERFORMANCE S	CORECARD	
KEY RESULT AREA	WEIGHTING	SCORE
Financial - YTD	10%	7.5%
Customer and Community Governance	10%	9%
Health & Safety	20%	209
Alliance Effectiveness & Efficency	40%	40%
Pre-Reseal Repairs (75% 1st Oct, 90% 15th Nov, 100% 1st Dec).	10%	109
Metalling Acheivement	10%	109
Grading Acheivement	10%	109
Rework (pass/fail 1)	10%	109
Network Condition ** To be confirmed	20%	209
Overall Score	100%	97%
IDENTIFIED RISK & STR	ATEGY UPD	A <i>TE</i>
Suction Sweeper Waste (Contaminated)		
Looking at alternative solutions to the current s Treatment plant post advice we cannot utilise t		
Culverts, large number of failures		
2021/2022 has seen a number of culvert failures, while cur	rently we can absorb thes	se costs if addition

Central Alliance - Summary Report I

The southern coastal strip of Southland is quite parched after the third consecutive month with below average rainfall. Of the monthly total of 59mm for Invercargill, 49mm fell on the 2nd, 15th and 18th, but rainfall totals varied widely over the region and the headwaters of Southland's major rivers were drenched between the 3rd and 4th of February and a flood came down the region's major rivers. This event was part of widespread rain further north which brought severe flooding to the upper West Coast of the South Island. Temperatures were the usual wide mixture, and overall the month was very slightly cooler than normal. Afternoon highs between 20-28°C were recorded on 11 days, but there were also a number of rather cool days and nights with more frosts than usual.

The OGEM crew are now back on our network and working through the prereseal repairs they have made good progress being approx 60% through the pre reseal repairs.

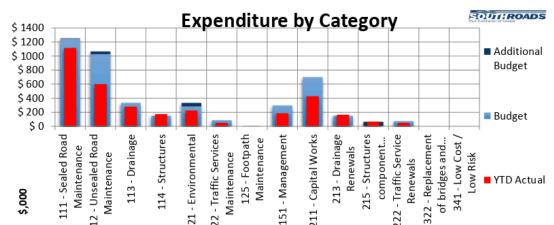
The Stabilisation Crew are also on the Central network and are making good progress on the pre-reseal repairs with are expected to be completed midmonth with some other repairs to be completed.

The Bridging crews completed the re-decking of Collie Road bridge and continued painting on other structures.

We are currently trailing a digger operator who is working out well, the crew have completed some high lip removal, installed a culvert and completed a digout.

For the remainder of the crews it has been business as usual.

The spray truck has headed back to Waimea where it will begin the second round of sealed road spraying in March.

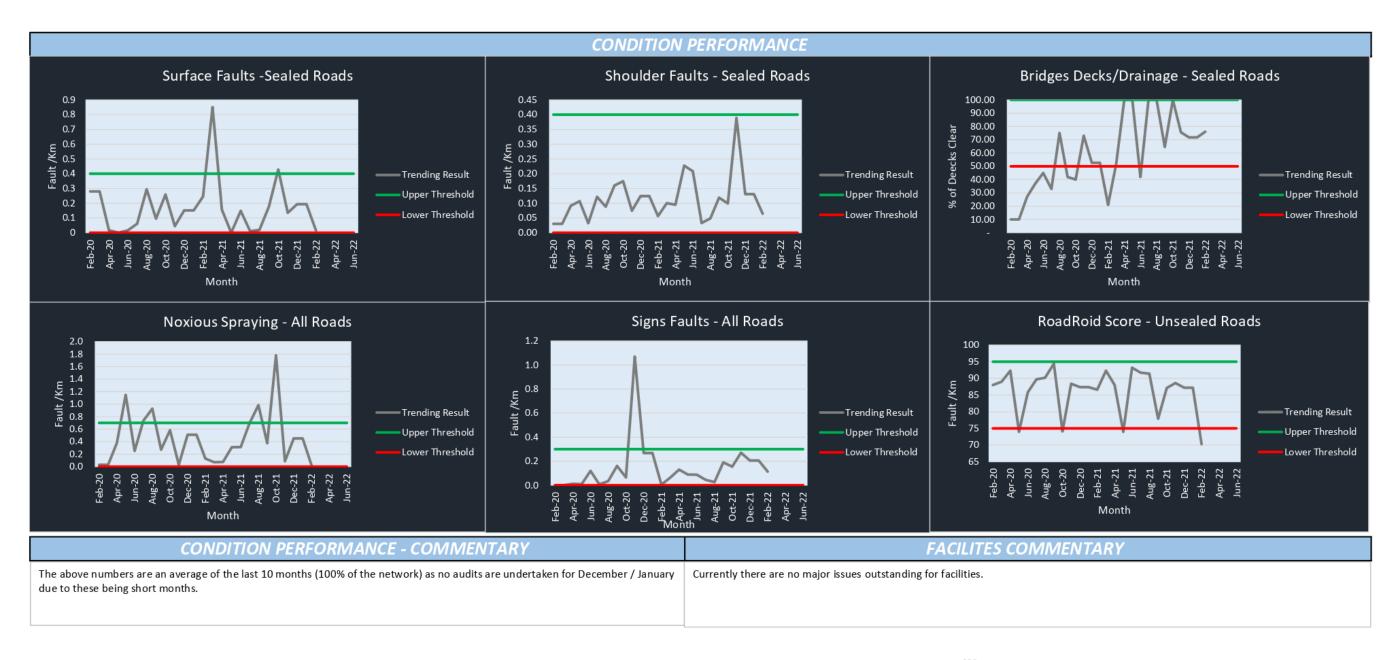


ebruary	/ 2022			Your Contractor of Choic	ROADS		
	ALLIANCE	EFFECTIVE	NESS & EFF	ICIENCY			
Sealed Network	Acheivement of	Programme - 20	022/23 Pre-Rese	al Repairs			
Activity	22/23 Repairs	Feb-22	YTD	Remaining	% Completed		
Depressions (m2)	2,640	1,231	1,559	1,081	59%		
Edge Breaks (m)	3,703	1,622	2,136	1,567	58%		
WCC (m)	4,098	1,248	1,248	2,850	30%		
Stabilising (m2)	5,688	3,358	4,605	1,083	81%		
Sites	112	-	40	72	36%		
Kilometres	54	-	10	44	18%		
Unsealed Netwo	rk Acheivement	of Programme					
Activity	Budget	Feb-22	YTD	Remaining	% Completed		
Metalling (m3)	18,100	-	11,049	7,051	61%		
Grading (KM)	4,620	475	3,448	1,172	75%		
Structures - Maii	ntenance - <i>(Tota</i>	l Programme)					
Activity	Quantity	Feb-22	LTD	Remaining	% Completed		
Painting	314	2	68	246	22%		
600mm > Culvert Inspections	525	130	369	156	70%		
Service Allowed Service Allowe	Additional Budget		To date we have Drainage Renew predominantly o	AL COMM e spent \$141K or 9 val budget (\$150K due to culvert failu ott's Gap Feldwic	14% of the total .). This is ures on Wairio		
component 222 - Traffic Service Renewals 322 - Replacement of bridges and 341 - Low Cost /	م ¶ YTD Actual			CCC Southland Da	entral ance		

ebrud	iry	<i>י 2022</i>			Your Contractor of Choic	ROADS				
		ALLIANCE	EFFECTIVE	NESS & EFF	ICIENCY					
Sealed Netw	ork A	Acheivement of	Programme - 20	022/23 Pre-Rese	al Repairs					
Activity		22/23 Repairs	Feb-22	YTD	Remaining	% Completed				
Depressions (I	n2)	2,640	1,231	1,559	1,081	59%				
Edge Breaks (m)	3,703	1,622	2,136	1,567	58%				
WCC (m)		4,098	1,248	1,248	2,850	30%				
Stabilising (m.	2)	5,688	3,358	4,605	1,083	81%				
Sites		112	-	40	72	36%				
Kilometres		54	-	10	44	18%				
Unsealed Ne	etwo	rk Acheivement	of Programme							
Activity		Budget	Feb-22	YTD	Remaining	% Completed				
Metalling (m3)	18,100	-	11,049	7,051	61%				
Grading (KM)		4,620	475	3,448	1,172	75%				
Structures -	Main	tenance - <i>(Tota</i>	l Programme)							
Activity		Quantity	Feb-22	LTD	Remaining	% Completed				
Painting		314	2	68	246	22%				
600mm > Culv Inspections	vert	525	130	369	156	70%				
gory	600mm > Culvert Inspections 525 130 369 156 70 FINANCIAL COMMENTARY To date we have spent \$141K or 94% of the total Drainage Beneral hudget (\$150K)									
215 - Structures component 222 - Traffic Service Renewals 322 - Replacement	or bridges and 341 - Low Cost /	■ Budget			Southland Die	entral ance				

					Ś	2				' 2 r		-	2 2 0		
2021/2022 has seen a number of culvert failures, while curr culverts fail significant pressure would be put on our progra			ese c	osts if additional		1 112		121	177			21.	32		
						FIN	AI	NCIAL SU	Μ	IMARY - I	Ro	ading			
		Annual \$		Jul-21	Aug-21	Sep-21		Oct-21		Nov-21		Dec-21	Jan-22	Feb-22	Mar-22
Original Total Cost Estimate	\$	4,345,937	\$	503,310	\$ 356,072	\$ 401,154	\$	256,094	\$	506,333	\$	291,538	\$ 288,204	\$ 360,711	\$ 400,555
Actual Claim			\$	503,310	\$ 259,729	\$ 506,794	\$	409,195	\$	670,785	\$	265,646	\$ 290,500	\$ 463,446	\$ -
Year to Date Budget - Incl Additional Funds	\$	3,281,533	\$	504,841	\$ 861,273	\$ 1,266,636	\$	1,547,097	\$	5 2,057,749	\$	2,395,448	\$ 2,710,155	\$ 3,122,474	\$ 3,523,029
Actual Claim YTD	\$	3,369,405	\$	503,310	\$ 763,040	\$ 1,269,834	\$	1,679,029	\$	5 2,349,814	\$	2,615,460	\$ 2,905,959	\$ 3,369,405	\$ 3,369,405
Variance YTD	-\$	87,873													

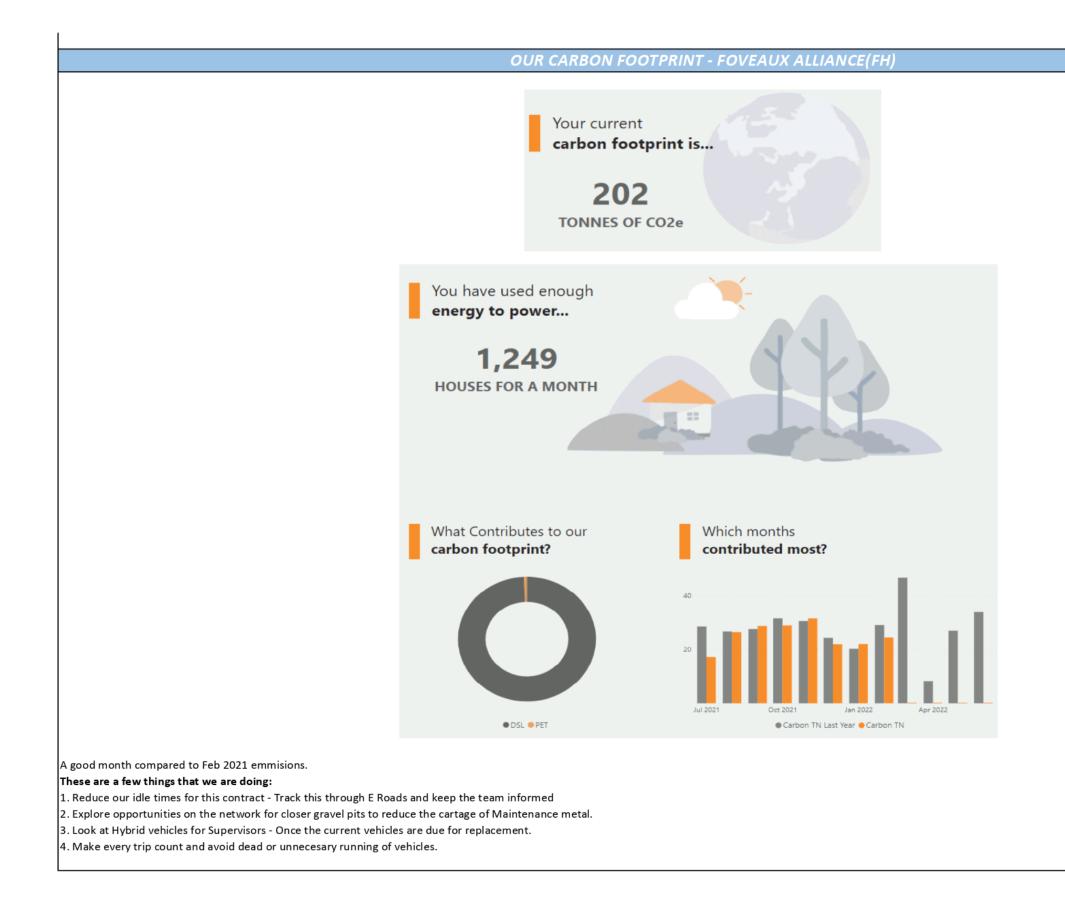
	Apr-22	May-22	Jun-22					
5	\$ 397,511	\$ 325,882	\$	258,573				
	\$ -	\$ -	\$	-				
9	\$ 3,920,540	\$ 4,246,422	\$	4,504,995				
)5	\$ 3,369,405	\$ 3,369,405	\$	3,369,405				

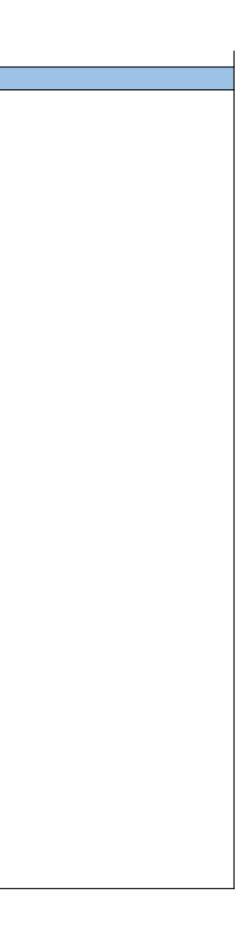




DISTRICT COUNCIL		Fovea	ux Allie	ance -	Summ	ary l	Rep	port F	ebi	ruary	/ 2022		C		
CUSTOMER AND COMMU	INITY GOVERN	IANCE	Not a complete f	ull month, but gett	ing better.						ALLIANCE	EFFECTIVE	ENESS & EFI	FICIENCY	
Requests for Services	Feb	YTD							Seale	d Network	Acheivement of	Programme - 2	021/22 Pre-Rese	al Repairs	
General Requests for Road Service (RFS's)	31	306	RFS's for the mo	nth at 31. Count is (up to normal again.				Activ	ity	21/22 Repairs	Feb-22	YTD	Remaining	% Completed
Road Service Requests completed on time	30	288	We have graded overall.	365Kms for the mo	onth. We are slightly	under last ye	ear's ave	rage \$/Km	Depre	essions (m2)	456		456	-	100%
Road Service Requests completed on time %	97%	94%	1						Edge	Breaks (m)	-	-	-	-	0%
HEALTH AND	SAFETY				Metal for the mont	h. We are slig	ightly abo	ove last	Dig O	uts (m2)	-	-	-	-	0%
	Feb	YTD	, year's average \$/	ms overall.					Stabil	ising (m2)	556	-	556	-	100%
Lost Time Incident (pass/fail >1)	-	-			w back at the start o		_		Sites	51	34	-	34	-	100%
Medical Treatment Intervention (pass/fail >1)	-	-	of months worth the coming year.	• •	r works ahead of th	em, including	g the Pre	seals for	Kilom	etres	24	-	24	-	100%
Near Hits Reported (pass/fail <5)	3	33	Near misses - 4	for the month We	managed 4 TTM Au	lits for the m	nonth - N	lo failed	Unse	aled Netwo	ork Acheivement	of Programme			
Site Safety & Traffic Management Audits			audits and 3 Safe		manageu 4 i nvi Aut	and for the m	nonui - N								
completed (pass/fail <5)	6	44		dente de la companya					Activ	ity	Budget	Feb-22	YTD	Remaining	% Completed
Site Safety & Traffic Management non-	-	-	Carbon Footprint report.	t for the month bel	ow same month 202	1 - Detail fur	rther dov	wh this	Meta	lling (m3)	17,500	1,971	11,403	6,097	65%
compliances (pass/fail >1) PERFORMANCE S	CORECARD									ing (KM)	4,000	366	,	1,232	69%
KEY RESULT AREA	WEIGHTING	SCORE								<u> </u>	tenance - Joint A		2,708	1,232	0978
Financial - YTD	10%	10%								Activity	Quantity	Feb-22	YTD	Remaining	% Completed
	10/0	10/0									Quantity	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		nemanig	,,, completed
Customer and Community Governance	10%	10%							and a	rt 600mm bove - rr over 3 yrs	222	10	76	146	34%
Health and safety	20%	20%													2
Alliance Effectiveness & Efficiency	40%	40%			Expenditu	ire by Ca	atego	ry					FINANC	IAL COMM	ENTARY
Pre-Reseal Repairs (75% 1st Oct, 90% 15th	10%	10%	\$ 1200							■ Addit			A fairly normal m	onth for us overall	We are
Nov, 100% 1st Dec). Metalling Achievement	10%	10%	\$ 1000 -							Budg	et			here are some big r	
Grading Achievement	10%	10%	\$ 800			_							ahead of us with back in March.	Pavement repairs st	arting
Rework (pass/fail 1)	10%	10%	\$ 600 -		_		-			🔲 🔳 Budg	et		buck in March.		
Network Condition ** To be confirmed	20%	18%	\$ 400 —												
Overall Score	100%	97%	\$ 200 -			_				_					
IDENTIFIED RISK & STI			\$ o 📕							TD /	Actual				
		12	ad	age ad	Intal	ent orks	vals	vice	Risk	tine					
Risk 1 - Waikawa Curio Bay Otta Seal Failure		ad back to		enance enance enance - Draina			Renew	Serv		Rout					
Seawall rock protection work complete, still	continues to be turn	ей раск то	ale	ena ena - Dr	Stru iron fic S enar	Managen Capital W	e Re	ffic : ewa		ip F					
gravel as failures increase. Risk 2 - Mataura Island/Fortrose Intersectio	n Elushing site		S.	Maintenanc Unsealed R Maintenance 113 - Drain	114 - Struct L - Environme Traffic Serv Maintenance	Cap	nage	Traffic	Cost /	wnship					
This is on the Rehab programme for 21/22.	in Flushing site		1,000 111	12	- · · ►	151 - 211 -		22 -	Low C	Том					
			\$ × 1	112	121 122	2 7	213 - D	8	341 - Lo						
					FINANCIAL	. SU <u>MN</u>		/							
	Annual Amount	Jul-21	Aug-21	Sep-21	Oct-21	Nov-2	21	Dec-21		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Original Total Cost Estimate	\$ 4,293,322	\$ -	\$-	\$-	\$-	\$	-	\$-	\$	-	\$ -	\$-	\$ -	\$-	\$-
Actual Claim	\$ 330,101	\$ 306,819	\$ 314,276	\$ 387,307	\$ 409,145	\$ 398	8,664	\$ 329,834	1\$	171,071	\$ 330,101	\$-	\$ -	\$ -	\$ -
Year to Date Budget	\$ 2,663,322	\$ 320,000	\$ 340,000	\$ 360,000	\$ 360,000	\$ 360	0,000	\$ 250,000) \$	250,000	\$ 423,322	\$ 430,000	\$ 400,000	\$ 400,000	\$ 400,000
Actual Claim YTD	\$ 2,647,217	\$ 306,819	\$ 314,276	\$ 387,307	\$ 409,145	\$ 398	8,664	\$ 329,834	1\$	171,071	\$ 330,101	\$-	\$-	\$-	\$-
Variance YTD	-\$ 16,105														







SOUTHLAND DISTRICT COUNCIL

Foveaux Safety and Training Report 21/22

Safety Statistics

	YTD	July 2021	Aug 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	March 2022	April 2022	May 2122	June 2022
Hours Worked - FH Southland	81,912.90	10,177.75	9,151.25	9,691.25	12,275	13,281.25	12,035.25	5,974.00	9,327.50				
Hours Worked - Foveaux	14,057.41	2,140.20	1,887.95	2,012	2,257.75	2,370.25	1,251.25	436.76	1701.25				
TRIFR – Regional (Total Recordable Injury Frequency Rate)	0	0	0	0	0	0	0	0	0				
LTI (Lost time Injury) Regional	0	0	0	0	0	0	0	0	0				
MTC(Medical Treatment Case) Regional	1	0	0	0	0	1	0	0	0				
MTC(Medical Treatment Case) Foveaux	0	0	0	0	0	0	0	0	0				4
FAC First Aid Case) Regional	2	0	0	0	0	0	0	1	1				
FAC (First Aid Case) Foveaux	1	0	0	0	0	0	0	0	1				4
NEAR MISS – Foveaux	27	6	1	6	6	4	5	3	4				
SITE AUDIT VISITS (Pass/Fail)	1	0	0	0	0	1	0	0	0				
Worksafe Site Visits - Regional	0	0	0	0	0	0	0	0	0				
Leadership Safety Actions Completed	37	7	4	4	5	4	5	4	4				4

		Of the function of the foregation
Safety	28/02/2022	Operator was Woking (Spraying) and got close to the railway exclusion zones in Edendale.
Safety	28/02/2022	Travelling on Woodlands South Road, open road speed on tar seal, a dog runs out from Hedge onto road 20 to 30m in front of Ute, lucky no other cars were on the road at the same time. Hit the brakes turned went around the dog, stopped tried to call farm dog back to me, it had no ears or it was deaf. Ran up the road went to the first house and ask if they owned it. They said it was their boss's dog and he always runs up the road.
Safety	28/02/2022	6.30am travelling to work via O'Hara street, a car was parked to the side of the road, on crest of a hill with lights on full beam I flashed my lights to them to dip beam, no response. I had to stop and wait for about 30 seconds as I could not see past the vehicle and there were other cars parked on the side of road way. This is my first time on this street to have meet cars on this hill.
Safety	22/02/2022	While out on site with Supervisor getting out of the Ute I misplaced my foot on a kerb and slightly twisted my ankle. High safety shoes helped. Nothing major and all good again



A good month in regards to Health & Safety for the Foveaux Team. A near miss which could have resulted in a more serious incident, was in this case avoided due to wearing good ankle support boots. Fulton Hogan in having a no slip-on boots policy does help in avoiding ankle injuries.

Staff have been vigilant in keeping to their work bubbles with Management also keeping a watchful eye to ensure that this is managed well as we strive to have business continuity while dealing with the Omicron Virus. The virus is now well and truly here in Southland with confirmed cases basically doubling daily.

Any close contact staff that live with an infected person/persons, can continue to work under the "Red" Covid management controls. Staff have been registered in advance with MBIE as Critical Workers. To maintain this, there are 7 nonnegotiable actions/requirements that must be completed and adhered to daily. At present Fulton Hogan has adequate RAT kits available to help meet requirements with more on order.

Hopefully this gives SDC some assurance that Fulton Hogan are taking all possible steps to ensure that we maintain and continue with the services we are responsible for.

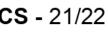
Training Statistics													
	YTD	July-21	Aug-21	Sept-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	June-22
Hours in Training - FH Southland	420	376	44	0	160	20	0	0	0				
Hours in Training - Foveaux	28	24	4	0	32	0	0	0	0				
Training Courses Completed in Dec/Jan	Training Courses Completed in Dec/Jan				Training Completed 2021/2022								_
			First Aid New & Refresher Courses Locating and Protecting Underground Services Forklift OSH Refresher Asbestos Awareness				Living Safely Stay Safe Rural Fire Training First Aid Training Fire Warden Training		Envirowise Growsafe & STMS Concrete Saw Efficient Compaction		Fulton Hegan	Li ∻ing Saf	ely
		Aspesio	s Awareness				ng	Enicient Compac	uon		People at	the heart of ever	ything

FOVEAUX ALLIANCE

Safety and Quality Team Commentary



							Lag In	dicators							Lead Indica	itors	
	Hours Worked	d	TRIFR	Discomfort Pain Injury	Medical Treatment	Lost Time Injuries	MTI Frequency	LTI Frequency Rate	Plant/Property	3rd Party	Total		Near Hit	Safety Audits	TM Audit	Toolbox	Total
2020-21	71,623		56	18	Injuries 4	0	Rate 55.8	0.00	53	2	77		179	137	23	Weekly	339
2021-22	40,451		49.4	15	1	1	24.7	24.7	32	4	53	YTD	107	100	19	Weekly	226
	5,706	July	0.0	4	0	0	0.0	0.0	2	2	8	July	18	13	1	Weekly	32
	2,693	August	0.0	2	0	0	0.0	0.0	5	0	7	August	9	12	0	Weekly	21
	6,078	September	0.0	1	0	0	0.0	0.0	7	0	8	September	22	15	2	Weekly	39
	6,008	October	0.0	2	0	0	0.0	0.0	4	1	7	October	18	14	6	Weekly	38
	5,735	November	0.0	1	0	0	0.0	0.0	8	1	10	November	18	14	7	Weekly	39
	5,185	December	192.9	1	1	0	31.8	0.0	1	0	3	December	11	7	3	Weekly	21
	4.320	January	231.5			4	28.0	28.0			4	January	6	13	0	Weekly	19
		February	0.0	2	•						4	February	5				
	4,727	rebruary	0.0	2	U	0	24.7	24.7	4	U		rebruary	5	12	0	Weekly	17
				CON	<i>MENTAR</i>	Ŷ				15		Lea	d Indic	ators			
uthroads ha	ave moved to "	'Safety Portal" f	rom our previe	ous incident r	eporting modu	ile "Risk Manager	". Safety Porta	l has gone live on t	the 1st of March,	11						12	
ow that wh	ien in a group e	environment sta	ff think more a	about what h	as occurred in 1	the previous wee	k and are napp	y to contribute to t	the discussion.	5		3			0		
how that wh	nen in a group e	environment sta	ff think more a				k and are napp	y to contribute to	the discussion.		December	3 ■ Near Hi	t =	January Safety Audits	o TM Audi	February	O
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Services and Assets Programme Report

Record No:	R/22/3/8587	
Author:	Brendan Gray, Project delivery manager	
Approved by:	Nick Hamlin, Group manager programme	edelivery
		-
□ Decision	□ Recommendation	🛛 Information

Summary

- 1 The CAMMS project system tracks all Services and Assets projects. This report seeks to update the status of these projects to the committee.
- 2 Please see the attached report for your information.

Recommendation

That the Services and Assets Committee:

a) Receives the report titled "Services and Assets Programme Report" dated 5 April 2022.

Attachments

A Services and Assets Programme Report 😃



Services and Assets programme report

Reporting period from end of January to February 2022

Prepared by Brendan Gray

Southland District Council Te Rohe Põtae o Murihiku PO Box 903

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Executive summary

Figures to the end of February indicate we are approximately 41% spent of our original Long Term Plan budget of \$52 million or 46% spent of our February re-forecasted value of \$45 million.

This estimated final forecast of \$45 million is yet to be approved by Council and the figures are likely to change as these are finalised.

It is important to remember that some reforecast values recognise where project savings have been realised (projects have been completed under budget).

The project delivery team, commercial infrastructure team and the asset owners have started forward planning for the 2022/2023 projects in a similar way the 2021/2022 programme of works was evaluated. This will entail projects to be collated into programmes of work where appropriate and it is anticipated that some of these packages of work can be put out to tender this financial year in readiness for an early start next financial year.

As communicated previously, with the aim of mitigating price increase risk to Council and contractors we are looking at different ways we can procure services (in line with our procurement policy). Volatile material prices and in some cases previously unrecognised material supply shortages are having a large impact on how projects are being priced and delivered and, in some cases, projects will need to span over multiple financial delivery years. Labour shortages due to Covid-19 infections increasing are starting to have a major impact on delivery as well.

Monthly turnover continues to progress well with a \$3.5 million project spend between January 2022 and February 2022 figures. March, April and May are usually our largest spend months.

At the time of writing this report we still have a vacancy for a project manager within the project delivery team. This vacancy is due to the internal promotion of Stuart O'Neil.

Tourism infrastructure fund (TIF) partial funding agreements are likely to be lodged with MBIE in the next two weeks. MBIE has agreed to allow a partial funding application to fast-track those projects where building or resource consents are not required.

Activity overview

Completed projects in the last reporting period include:

- Lumsden office lighting
- replacement of boat ramp shelter- Colac Bay
- Wallacetown ashes beams completed
- Isla Bank new cemetery beam completed
- Riverton dump station
- Edendale Seaward Road toilet refurbishment
- Dipton Flat Road bridge replacement
- Several 3 waters stimulus projects (Rocks Highway, Havelock Street, Towack Street).

Services and Assets Programme Report

Projects due to start construction within the next two months:

- TIF boat ramp replacement projects
- Cemetery memorials walls (7)
- TIF View Street carpark and walkway improvements
- TIF new toilet installations
- John Street kerbing, footpath, parking
- Monkey Island shelter area development
- New reception area at Forth Street.

Actions from last report

Key questions/ actions raised at last month's Services and Assets Committee

An email with an update in regards to the Winton library project and the estimated completion date and proposed dates for soft and hard opening were sent to all councillors after the meeting.

Councillor Douglas was interested to understand if we were measuring the increase in project costs between 2020/2021 to 2021/2022. This piece of work is continuing as we aim to understand the impact of material prices increase, fuel prices increase and the major impact of labour shortages, and how these have affected overall project delivery costs. This is an ever changing and evolving beast that we need to have a good handle on.

Resealing is one area we have seen an increase in costs around 15% greater than previous years. Other contracts were all procured relatively early on in the season and don't have any cost fluctuation attached to them. As a result, we are somewhat unaffected by the current market trend. Taking a look at the Waka Kotahi cost index for construction, this is sitting between 8-10% increase as at the end of the December period. These figures are published quarterly with the next quarter being the end of March.

Current works programme spend and estimated forecast final

The following table captures Council's capital expenditure programme plus operational projects, providing an overview of the works programme versus actual spent to date and estimates of the year end forecast with major changes during the programme year. As we move through the financial year and Council approves changes to the original Long Term Plan budgets, through carry forwards, unbudgeted expenditure and forecasting, the below table will be updated to reflect these adjustments.

2020/2021 financial information

Activity	Community resources	Transport - roading	Transport - other	Three waters	Totals
2021/2022 Annual Plan budget	7,050,429	17,254,595	3,523,110	17,475,335	45,303,469
2020/2021 Carry forward movement	824,164	99,815	63,769	2,330,185	3,317,933
2021/2022 Approved unbudgeted expenditure	1,541,577	0	884,465	0	2,426,042
2021/2022 Total Annual Plan budget including carry forwards and unbudgeted expenditure approved to date	9,416,170	17,354,410	4,471,344	19,805,520	51,047,444

Page | 2

Total forecast movements to date	0	0	0	0	0
Current approved budget to date	9,416,170	17,354,410	4,471,344	19,805,520	51,047,444
Actual costs to 28 February 2022	1,183,321	10,874,356	375,742	8,700,662	21,134,080
Actual costs to 31 January 2022	969,512	8,212,864	332,359	8,058,042	17,572,777
Estimated year end forecast	8,348,979	17,242,022	2,777,917	17,327,568	45,696,486
Estimated cost to complete	7,165,658	6,367,666	2,402,175	8,626,906	24,562,405
Three waters stimulus funding	Budget	Committed to date	Balance to be committed	Costs to date	
2020/2021 - Three waters stimulus funding	4,443,625	4,443,625		4,443,625	
2020/2021 Contribution to Te Anau wastewater project	2,000,000	2,000,000		2,000,000	
2020/2021 Contribution to ES flood protection	80,000	80,000		80,000	
2020/2021 Contribution to three regional collaboration	169,247	169,247		169,247	
2021/2022 - Three waters stimulus funding	6,837,128	6,044,344	792,784	4,030,520	
Total stimulus funding	13,530,000	12,737,216	792,784	10,723,392	13,530,000
Other capital activities	Corporate services - IT	Other			Totals
2021/2022 Approved budget	1,171,541	1,409,845			2,581,386
Totals budget across all Activities	Totals budget across all Activities \$53,628,830				

Clarifications

- 1. Council approved, on 15 September 2021, carry forward budgets of \$4.2 million for projects and capital expenditure.
- 2. Transport other includes airport, cycle trail and water facilities (Council harbours and jetties).
- 3. Other includes all other capital expenditure such as library book, vehicles, computer hardware, furniture and fittings and wheelies bins.
- 4. Three waters stimulus funding budgets are included in the three waters activity budget above.
- 5. Totals across all activities is Council's total capital budget plus maintenance projects.
- 6. The estimated year end forecast figures are based on recent forecast changes provided by project and activity managers, these are still in the review process so there is potential for change. Forecast changes are yet to be approved by Council.

Code	Project name	Activity name	Budget value
P-10155	Te Anau wastewater treatment plant (SF)	Wastewater	\$1,445,000
P-10517	Multi scheme water- early replacement of asbestos cement mains – multi-year project (SF)	Water supply	\$1,965,000
P-10743	Lakefront Drive watermain upgrade - Te Anau	Water supply	\$1,600,000
Various	Three waters stimulus project		\$13,530,000

Major projects across 2021/2022 financial year

Code	Project name	Activity name	Budget value
Various	Toilet package works	Community resources	\$1,600,000
P-10745	Winton library upgrade	Community resources	\$1,300,000
P-10468	Riversdale wastewater treatment plant	Sewage	\$1,300,000

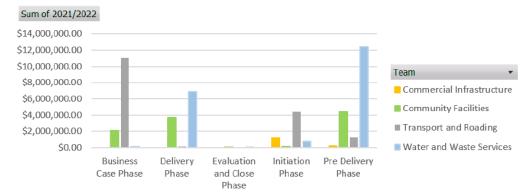
Capital works programme critical risk graph

					Г					Consequence	te	
	SDC Works programme Key Risks							Negligible 1	Minor Z	Moderate 3	Major 4	Catastrophic 5
	Likelihood / Impact (Likelihood x Impact = Risk Score)						5 Almost certain	Moderate 5	High 10	Extreme 15	Extreme 20	Extreme 25
	Red	(15	-25)	Extreme			4 Likely	Moderate 4	High 8	High 12		Extreme 20
	Orange (8-12)		High		Likelihood	3 Possible	Low 3	Moderate 6	High 9	High 12	Extreme 15	
	Yelow	(4	-6)	Moderate		_	2 Unlikely	Low 2	Moderate 4	Moderate 6	High 8	High 10
	Green	(1	-3)	Low		1 Low Low Low Reve 1 2 3			Moderate 4	Moderate 5		
		RISK	FACTORS Post r	nitigation	F							
Ref No.	Works Programme Risks	Likelihood	Impact 👻	Risk Score				м	litigation	n Actions	5	
1	Covid 19 Supply issues	5	4	20	Contracts have been updated to cover Pandemic clauses. SDC working with suppliers to look at alternative supply options on a case by case basis to prevent programme delays							
2	Works Programme for 21-22 not meeting targets	4	3	12	21-22 Works programme is well developed and procurement plan approved in June and is now operational. Effects of Covid with regards to labour supply shortages are now becoming more evident.			ow Iabour				
3	Health and Safety	2	3	6	All projects have updated Health and safety plans - a contractors and suppliers have been compliant with 1 regulations and checks are being undertaken and nev Risk management framework is being developed		ant with th and new					
4	Budgets and cost control	2	3	6	Currently all projects within the works programme are tracking within the approved budgets, projects are reviewed monthly against budgets and PDT is actively engaged with the Activity Managers on assisting with scoping and budget preparations with up coming works							
5	Resources	3	3	9	Trade resources are starting to reach capacity acros the entire district especially with the introduction of 3 waters Stimulus funding reaching market but SDC are monitoring the key suppliers and using as many local trades and companies as possible along with early engagement with contractors			uction of the out SDC sta				

	Commercial infrastructure	Community facilities	Transport and roading	Water and waste services	Grand total
Business case phase		\$2,115,111	\$11,004,268	\$157,601	\$13,276,980
Delivery phase		\$3,685,264	\$1,66,686	\$6,902,229	\$10,754,179
Evaluation phase		\$96,916		\$79,651	\$176,567
Initiation phase	\$1,194,000	\$140,389	\$4,383,275	\$763,469	\$6,481,133
Pre-delivery phase	\$227,920	\$4,413,689	\$1,250,000	\$12,438,211	\$18,329,820
Grand total	\$1,421,920	\$10,451,369	\$16,804,229	\$20,341,161	\$49,018,679

Budgets for 2021/2022 by activity and phase

Please note that CAMMS budgets are live and subject to change vs the annual plan budget figures and include carry forwards, unbudgeted and forecast changes.



Activity overview – 2021/2022

Community facilities

Staff are starting to see some progress in the delivery of projects. A number of the toilet projects have been completed, and consultants are starting the investigation projects. We will be working with the communications team to share some of these stories with the community. The work scheme team are providing assistance with some of the smaller projects where there has been no interest from the contracting community.

This comment is even more relevant now as we start to see community transmission of Covid-19. The team are finding that it is difficult to attract contractors to carry out the smaller value projects and although there was interest from contractors at the drop-in sessions the one-off projects do not appear to be of interest to them. Either we aren't getting any responses from the market or the prices submitted exceed the budget. With 81 projects to deliver this is something that needs to be highlighted as a risk to our ability to deliver all of these projects this financial year. Staff are working with the project delivery team to see if there are alternative ways to market these projects so that they are more palatable to potential contractors.

Staff have completed a number of projects and an update on progress of all of the projects will be delivered to services and assets committee at the next available time. Staff are also looking at providing the services and assets committee an update on the following pieces of work at the May services and assets workshop: open spaces, hall online booking system and the tree plan.

Staff presented a report to Council with the proposed concept for delivering the open spaces project over the next seven years. This was received favourably by councillors and paves the way for some exciting opportunities. Staff have carried out interviews for the open spaces position and the position was offered to and accepted by an internal applicant.

Mowing has slowed down with the lack of rain and the towns are looking neat and tidy. There are some issues with the spraying that were identified prior to the end of the year that have now been resolved with the contractors.

Project scoping documents for the 2022/2023 financial year have been sent out to all of the community boards for comment prior to being submitted for approval at the next available round of community board meetings. Communication has gone out to the communities so that they are also aware of what projects will be completed in their local areas and can raise any issues with the community boards. Our intention is to front foot next year's projects so that staff are in a position to have the work out to the market as soon as possible to avoid delays in delivery.

Water and waste

Operations and maintenance contract 10/01

The contract is continuing to operate well with no reported non-conformances for KPI's across February.

There is an on-going issue that has been brought to the attention of water and waste regarding the taste of potable water in Riverton. This is due to the extended dry summer resulting in the source water producing a dissolved gas which passes through the treatment process. Please note that other than the taste the water does still meet the current NZDWS.

Leak detection work has recently been completed in Otautau. Results show an estimated combined township leakage rate of 171 l/min. Downer has been made aware of locations inside Council land to repair leaks and letters to fix have been delivered to residential properties where leaks where detected.

Given that Omicron is now rampant in the community and cases have been reported in Southland, the limiting of non-essential staff to wastewater and in particular water treatment plants remains in place. Both Downer and wastewater have Covid-19 protocols in place regarding this. This will likely remain in place for future months with the aim of protecting Downer operators who are vitally important critical workers.

It should also be noted that delivery of equipment and materials are beginning to experience growing delays and is an extra consideration that Downer and Council need to be aware of going forward.

Water

Final design underway on the Manapouri water treatment plant upgrade project.

Pre-design investigation work continues on the Eastern Bush Otahu Flat water treatment plant upgrade.

The Sandy Brown Road booster station upgrade will start construction phase in April.

Riverton water treatment plant UV treatment awaiting final electrical commissioning.

Winton water treatment plant pH correction project is still progressing through design.

Wastewater

Riversdale wastewater treatment upgrade has all the necessary consents required to proceed, and the land acquisition has been completed. The final design of this project is being completed, with the procurement planned to commence in June 2022 and construction to begin late 2022 and be completed within the summer months of 2023.

The Manapouri wastewater project has four options to enable the Manapouri township wastewater to be disposed of within the newly constructed Kepler subsoil drip irrigation. With the calculated costs of pipeline construction, it is more than likely the two options of pumping to Te Anau will be excluded due to cost. The remaining options of having treatment at Manapouri or Kepler seem the most attractive at this current stage.

Winton wastewater planning has progressed and has shortlisted possible options down to two remaining disposal solutions. The alternative short term solution has proven to be successful with full compliance over the summer period and subsequent testing on the current dry Southland summer.

The Winton solutions still remain at two, being pumping to Invercargill and an irrigation to and within the Winton area. Both options are still viable and have not been discounted.

The work with design options and consultation with the local working group are continuing.

Te Anau wastewater treatment plant upgrade

The newly constructed and completed Te Anau wastewater membrane plant and Kepler disposal fields are operating well, with Downers operating the plant 100%.

The dry Southland summer has prevented a second baleagecut from occurring on the non-disposed area, but a second cut was required for the 30-hectare disposed area, with an additional cut planned prior to winter.

Stimulus programme

All of the AC watermain renewals projects have been completed which is a great achievement for our Council team and the Panel Contractors and designers

The condition assessment panel is tracking well. Works packages have been completed in Te Anau, Winton and Riverton. January to March will see the commencement of works in Lumsden, Balfour and Otautau.

The Caswell Road sewer main (and water main) upgrade is well underway and progressing ahead of programme. Similarly, the Wyndham stormwater upgrade has now been completed ahead of programme. Enabling works for the Woodlands stormwater upgrade has been completed and the contractor is due to establish onsite in mid–April in line with the school holidays.

Both the Stewart Island disposal field work for the wastewater treatment and the Main Street stormwater improvement work are behind schedule through design but are both due to start construction in March and April respectively.

Orepuki stormwater has gone through a change in design alignment to better suit the needs of the township, and we are expecting the full design to be completed by the end of March, for construction to begin April, May.

We are confident that we will deliver the stimulus programme in full by the end of June deadline.

Roading

Projects in progress

The resurfacing programme is 90% completed. Bitumen prices continue to put pressure on this budget and works programmes. The asphalt component of the programme is currently being held back to help manage budgets as this work can be carried out later in the season compared to chip sealing. Some sites that are programmed for asphalt are also being reviewed to ensure the best whole of life treatment is being carried out versus risk as a result of the increasing costs for this activity.

Pavement rehabilitation works are tracking well with four sites already sealed. The remaining construction works are well advanced and on track to be completed as required.

The 2021/2022 bridge programme is now well underway with four out of the six structures physically in place. The programme is on track to be completed by June.

Design phase

Offer of service has been requested from our structures professional service provider for the design phase of the rail over bridge at Waianiwa. This is in order to continue with the next phase of the planned bridge replacement project.

Geotech work is currently being programmed for the 2022/2023 bridge replacement sites for which we don't have sufficient detailed engineering information. The geotechnical information is required to help inform the detailed design and build requirements.

The footpath programme is in the process to commence procurement for the physical works. Procurement options are currently being worked through to facilitate this.

Commercial infrastructure

Around the Mountains Cycle Trail

The cycle trail was busy in March with three large events utilising the Around the Mountains Cycle Trail, god zone, sound 2 sounds and tour Aotearoa.

Pre-development project work to address the Centre Hill erosion is continuing and Council is liaising with Landcorp to identify suitable solutions including, appropriate survey instruments for the site.

An independent audit of the cycle trail was conducted in December by Southern Land, and they have provided a report with recommendations.

New Zealand Cycle Trails has a signage project for all 22 great rides around New Zealand, we are liaising with land owners about signage installation.

Around the Mountains Cycle Trail Trust – The trust is holding monthly meetings, and see a key aspect and priority for the trust is developing a strategic vision for the trail.



Three waters reform update

Record no:	R/22/3/7333
Author: Approved by:	Matt Russell, Group manager infrastructure and environmental services Cameron McIntosh, Chief executive
Approved by.	cameron montosh, chier executive

□ Decision

□ Recommendation

⊠ Information

Purpose

1 The purpose of this report is to provide to the committee an update on the three waters reform. Further, this report seeks to identify intended next steps for the organisation and staff in relation to reform engagement and timeframes.

Executive summary

2 It is timely to provide Council with an update on the progression of the three waters reforms. There have been a number of outputs produced for the sector in recent times. This report seeks to cover both this material and to refresh key outputs and information from 2021.

Morrison Low report

- 3 September 2021 was Council's last formal update on the three waters reforms. At that time Council was provided the final Morrison Low report (utilising the recommended Taituara reporting template). This report is attached appendix a to this report and covered the following:
 - the government's 30 June 2021 and 15 July 2021 Three waters reform announcements, that changed the reform process previously outlined in 2020
 - the specific data and modelling Council has received to date
 - the implications of the revised Three Waters Reform proposal for Council and alternative service delivery options
 - anticipated next steps (including uncertainties).

Central government feedback

- 4 Further, the discussion and workshop that accompanied the reporting exercise in September sought to generate and outline specific feedback Council wished to convey to and, request from, central government in relation to the reform proposal with a view to inform next steps with the programme of reforms.
- 5 There was significant feedback for local government minister Nanaia Mahuta generated in discussion and workshop with Council. This feedback was consolidated into a letter provided to the minister. This letter is attached as appendix b to this report.

Central government response

6 On 7 March 2022 Council received a letter in response to SDC's feedback on the three waters reform proposals. This letter is attached as appendix c to this report. In addition to addressing specific elements of Council's feedback, the letter seeks to provide further detail on the reform process and timelines.

National Three Waters Group report

7 In December 2021 the National Three Waters Group was established. This group was comprised of senior local government representatives. The purpose of this group was to assess central government's proposal, consider local government feedback and report back with recommendations for next steps. This report was finalised in March 2022 and is attached as appendix d to this report. The report contains a significant number of recommendations and items for clarification.

National Transition Unit programme

8 The National Transition Unit (NTU) is an entity that was established by central government in November 2021. The purpose of the NTU is to execute the decisions of government in relation to the three waters reform through a consistent and co-ordinated nationwide approach to the transition of three waters services from 67 councils to the four new entities. The NTU has released its first tranche of information, including an intended programme snapshot. This is attached as appendix e to this report.

Resourcing

- 9 It is evident that the resourcing needs required to respond to the transition, whilst maintaining service levels and compliance with regulatory requirements will not be insignificant. Whilst some funding support is anticipated to be made available from central government, staff consider that the availability of resources to assist in this space is likely to be limited.
- 10 Staff will continue to keep a watching brief on both the demands of the transition process and the capacity and capability limitations that may result. Staff will endeavour to keep governance up to date at regular intervals.

Recommendation

That the Services and Assets Committee:

- a) receives the report titled "Three waters reform update" dated 5 April 2022.
- b) determines that this matter or decision be recognised as not significant in terms of Section 76 of the Local Government Act 2002.
- c) determines that it has complied with the decision-making provisions of the Local Government Act 2002 to the extent necessary in relation to this decision; and in accordance with Section 79 of the act determines that it does not require further information, further assessment of options or further analysis of costs and benefits or advantages and disadvantages prior to making a decision on this matter.

Background

Timeline

11 Over the past few years SDC have been paying close attention to central government's programme of three waters reforms. The timeline of actions in the table below identifies some of the key milestones associated with council's journey to date.

2018-2020	Intermittent workshops and discussions between staff and
_010 _0_0	governance regarding the anticipated reforms and the likely/potential
	implications for both local government and Southland District
	Council communities in particular.

Late 2019 – Mid 2020	Southland and Otago three waters officers connect via a number of workshops to identify three waters areas for improvement and consider opportunities to collaborate across the spectrum of three waters services delivery.
Mid 2020	Central government reform announcement – SDC agrees to sign up and take part in phase one of the reform discussion and receives tranche one stimulus funding.
Mid 2020	Southland and Otago Local Government Authorities commit to establish a three waters collaboration led by SDC GM Services and Assets with a view to better understand, interpret and respond to central governments proposed programme of three waters reforms.
Late 2020	Morrison Low and WSP engaged to work alongside the Southland and Otago collaboration and provide technical advice and resources.
October – December 2020	SDC staff respond to central government three waters RFI
January 2021	Southland and Otago TA's produce and submit a combined submission on the proposed Water Services Bill establishing Taumata Arowai
January 2021 – June 2021	Morrison Low produce a number of outputs to better inform the reform conversation with central government:
	 Situation Analysis (Southland / Otago combined 3-waters assessment and analysis);
	- Regional Current State (high level individual TA assessment)
	- Takiwa-wide assessment (Ngai Tahu takiwa assessment)
	- Options and Impacts Assessment (detailed assessment for each of the 8 Territorial Authority across Southland and Otago)
September 2021	Council formally receive the Options and Impacts Assessment and generate feedback to central government on the proposed reforms.
October 2021	Central government mandate the reforms
November 2021	The National Transition Unit (NTU) is established
Early 2022	SDC stimulus funding work on track for completion by mid 2022

Early 2022	NTU requests for information commence
February 2022	SDC officers host NTU staff to discuss NTU work programme and timeline
March 2022	Three waters workshop held with Council, including; LGNZ, Ngai Tahu, Communities for Local Democracy and Local Government Zone Chair.
March 2022	Central government response to September 2021 feedback received
2020 – Present	Ongoing intermittent discussions, workshops and connection with local and takiwa-wide iwi representatives.

Morrison Low report and central government feedback

- 12 Morrison Low was engaged to support the Otago and Southland territorial authorities and provide reporting and insights in relation to the existing three waters service delivery regimes across the two regions, the proposed reforms in addition to an alternative Otago and Southland model. The summary output was presented to Council in September 2021 and is attached to this report as appendix a.
- 13 In summary, for SDC, the reporting indicated that whilst there were inaccuracies identified, the sensitivity modelling undertaken showed that the trajectory of the DIA forecast figures were not incorrect. Further, Morrison Low surmised that neither the existing service delivery approach in Southland, nor the alternative Otago and Southland model were assessed as having the financial capacity to continue to meet existing service levels let alone achieve increased compliance performance and expanded service provision.
- 14 A number of concerns were identified with the proposed four entity model as part of the Otago and Southland Three Waters collaboration work. Some of these included;
 - The risk of urban prioritisation at the expense of provincial or rural customers;
 - The ability for the entities to meet the growth and demand needs for regional New Zealand;
 - The potential to lose rural representation around the governance table; and
 - The risk of future privatisation.
- 15 The above concerns alongside a significant swathe of additional feedback elements were workshopped with Council and compiled into a letter for the minister for local government (attachment b). A response was received from DIA in March 2022 (attachment c).
- 16 The response incorporates both some updates and limited specific responses to queries raised in SDC's feedback to the minister. Primarily the letter advises:
 - That further refinement to the representation, governance and accountability design is anticipated;
 - Working groups will be established with subsequent feedback and recommendations considered;
 - That the timing anticipated with the legislation phases is on track with the first bill expected to be introduced by mid-2022. This bill will contain the ownership, representation,

governance and accountability arrangements for the entities. The second bill (expected late 2022) will contain the detailed operational duties, functions and powers of the entities and separate legislation will be required to provide for the economic and consumer protection regulations;

- DIA updates are anticipated to continue; and
- That more than 400 questions were received from councils. DIA will continue to refresh their FAQs on their website in relation to the reforms.
- 17 The letter also contained a table of specific responses to SDC questions as follows:

Question	DIA response
Further clarity is sought regarding how those who are not currently connected to community services would have his/her voice heard around future service provision?	Policy decisions on what service provider obligations will apply to the new water services entities are being made in the coming months, for inclusion in the second water services entities bill later this year. Subject to cabinet decisions, current provisions in the Local Government Act relating to territorial authorities' role as a water service provider will transfer to the new entities as will obligations in the Water Services Act. This includes a duty to undertake assessments of water services in their district, and a duty to step in a provide water if an existing supplier is failing. These provisions ensure the Water Services Entities will have an obligation to their communities as a whole, including those currently not connected to council services.
How are farmers, community halls and sports clubs considered within the framework of service delivery now and into the future, both from a regulatory perspective and from a service delivery perspective What are the avenues to service those parts of our community into the future?	Water Services Entities will be accountable to their communities through Regional Representatives for water services. Entities will be required to continue to provide services currently provided by councils. In communities not served by councils, entities will pick up council obligations to work with communities to ensure access to safe drinking water. This could include technical or other support for community owned and private suppliers and is a matter being considered by the Rural Technical Advisory Group.

Although not related specifically to the proposed service delivery reforms, clarity around the funding mechanisms for Taumata Arowai and its associated regulatory services is requested. For example, are there likely to be any levies on the public-owned and privately-owned systems?	The Water Services Act is now in force. This Provides clarity on the requirements for private supplies and timing for them to register with Taumata Arowai and comply with the Act. This timing was extended from the original proposal as a result of feedback through the Select Committee. You can find the Act here: <u>Water Services Act 2021 No 36</u> (as at 01 March 2022), Public Act Contents – New Zealand Legislation you can find out more about how Taumata Arowai are working with private suppliers on their website: <u>Home Taumata Arowai</u> . The water services Act provides for levies to fund the operations of Taumata Arowai. Proposals for these levies are yet to be developed. Any process to develop levies will include public consultation.
Further clarity is required in relation to the alignment (or otherwise) of entity and local government development contribution policies?	No decisions have yet been made on growth charging, but proposals will include alignment with existing development contributions. Legislation to be introduced later in the year will provide for this.

National Three Waters Group on representation, governance and accountability

- 18 As a means of ensuring local government representatives have an opportunity to have meaningful input into the design and establishment of the proposed new entities and surrounding legislative and regulatory environment, central government are establishing working groups made up of senior local government representatives in relation to particular subject matter.
- 19 The first of the working groups to be established was the representation, governance and accountability working group. The working group released its first report and series of recommendations in late February.
- 20 The released report contains a list of recommendations and opportunities for improvement.
- 21 The executive summary of the report summarises these as follows:
 - Strengthening community ownership through public shareholding;
 - Protection against privatisation through ongoing full public ownership;
 - Mechanisms to strengthen the local voice and the role of the Regional Representative Group;
 - Strengthening Te Mana o te Wai;
 - Co-governance embracing Te Ao Maori to improve three waters service delivery and environmental protection; and
 - The need to deepen public understanding of the reform drivers and opportunities.

The National Transition Unit (NTU)

- 22 The National Transition Unit was established in November 2021 with the express purpose of executing the government's decisions on Three Waters reform through a consistent and co-ordinated nationwide approach to transition.
- 23 The NTU will work alongside councils, iwi/Maori, industry and wider water sector to make the transition successful. There are a number of workstreams the NTU will be driving in order to connect the national and local drivers including:

Community & Mana Whenua	Commercial & Legal
People & Workforce	AMOS – Asset Mgt, Operations & Stormwater
€ Finance & Corporate	Data & Digital

- 24 Each of the workstreams above will have Transition Reference Groups established to advise and provide feedback to the NTU.
- 25 Some of the many functions the NTU will be leading and looking for assistance and co-ordination with each local government authority includes:
 - Staff transition plans (including staff engagement);
 - Digital platform transition including metadata standard assessment and gap analysis;
 - Planning for organisation designs;
 - Planning for collective and individual employment agreements;
 - Operational management and maintenance handover co-ordination; and
- 26 In addition to the above, it will be necessary for SDC to work through the residual organisation implications for a post 1 July 2024 environment.
- 27 Following is the full list of recommendations included in the report:
 - 1. The Crown acknowledges the contribution of councils and begins a communications campaign to explain the 'need for change' the nation.
 - 2. The Resource Management Act reforms are kept consistent with the three waters reforms.
 - 3. That councils be given shares one per 50,000 people represented, rounded up in each of the four water entities. Councils will be needed to vote on any proposal for sale, privatisation, merger or other proposal to change ownership. This vote must be unanimous. (The body of the report notes that these shares would be non-voting except in the case of the proposals listed earlier in this paragraph).
 - 4. Alongside other privatisation protections, a majority of 75% of MPs in Parliament would be required to repeal or amend provisions of the Bill concerning privatisation of water entities (ie public ownership would be 'entrenched' in the legislation).
 - 5. Councils are prohibited from providing financial support to, or for the benefit of, water entities including by way of guarantee, indemnity or security, or the lending of money or provision of credit or capital.
 - 6. The Crown should further clarify what constitutes a "major transaction" to be raised to the RRG for consideration.
 - 7. Instead of one chair of the RRG, there are co-chairs, with one from councils and one from mana whenua.

- 8. RRG decisions are to be made by consensus. When time runs short, a 75% majority vote can be taken as agreed by co-chairs.
- 9. Water entities should fund the RRG's administrative costs.
- 10 & 11 The RRG puts together a Statement of Strategic and Performance Expectations (SSPE), which includes alignment with the Government Policy Statement (GPS), direction from regulators, local community priorities within the region from council strategies, Te Mana o te Wai statements, and alignment with RMA. It should receive all the information it needs to do this, and be able to seek further information as needed. The SSPE, issued annually, covers a period of three years.
- 12 RRGs be given the power to approve water entities' Statement of Intent (SOI).
- 13 RRGs be given powers to comment on water entities' operational direction in the Asset Management Plan and other key documents.
- 14 The SSPE scope be clarified in legislation. It would not extend to directing entity projects, investment or management.
- 15 Water entities should provide minimum six-monthly reports to their RRG on performance against the SSPE and SOI, with individual entity constitutions able to specify more requirements.
- 16 RRGs can provide additional requirements for water entity board appointees.
- 17 Conflict of interest requirements for RRG and WSE board appointments should to be stated in the bill.
- 18 The Bill should include twice-yearly entity board performance reviews, with an option for additional reviews in individual WSE constitutions.
- 19 RRG size should be between 12 and 14 members. (Not between six and double the number of councils, as the exposure draft bill suggests) with composition and appointment left to individual water entities and outlined in their constitution. Government should further consult with the working group on this.
- 20 RRGs should be required to include a mix of urban, provincial, and rural council representatives.
- 21 Iwi representatives should be appointed on a tikanga basis, reflecting whakapapa affiliations through waka groupings. Entity D (Ngāi Tahu) reflects hapū groupings.
- 22 Entity A's RRG has a bespoke arrangement: 14 members with 50:50 Council and iwi/ hapū composition. There should be four Auckland Council representatives, four Tāmaki Makaurau iwi/ hapū representatives, one representative from each Northland Council and three iwi/ hapū representatives from Te Tai Tokerau. However, a minority of members of the working group expressed concerns that keeping majority voting of 75% would mean Auckland Council could not be outvoted, leading to an imbalance of power.
- 23 The Crown provides financial support to councils to allow them to fulfil their RRG roles.
- A competency requirement for RRG members, with details left to individual WSE constitutions.
- 25 Regional sub-RRGs are provided for in legislation. Other than 50/50 co-governance between council and iwi/ hapū, composition and number of advisory groups (sub-RRGs) will be left to individual WSE constitutions.
- 26 Each WSE and its RRG is governed by a single constitution, with modifications requiring co-governance RRG consensus agreement.
- 27 The Crown consults the Working Group as they draft the default constitutions.

20	
28	RRGs given authority to comment on investment prioritisation through consultation with the WSE.
29	WSEs can engage with councils on the development of the WSE Asset
	Management Plan, and respond to council comments.
30	A national Water Services Ombudsman is established, with a tikanga-based dispute
0.4	resolution process.
31	The Crown and Minister are required to give effect to Te Tiriti and its principles when exercising powers and functions under the legislation (including in issuing the government policy statement and in monitoring, review and intervention powers.
32	The Crown, in developing its policy statement, should engage with its Te Tiriti partner, separate from any public consultation.
33	A guarantee in legislation that nothing creates or transfers proprietary interests in
	water, or limits, extinguishes, or otherwise adversely affects or constrains iwi or hapū authority over, or rights and interests in, water.
34	Treaty settlement mechanisms related to current legal provisions such as in the
	Resource Management Act and Local Government Act are carried across in the reform legislation.
35	The Crown provides equitable resourcing to enable the full and effective participation
	of iwi and hapū in the three waters.
36, 37 & 3	8 Te Mana o te Wai is an overarching objective guiding decision making, planning,
	governance, accountability, and service delivery. This should be defined in the Bill
	to ensure that Te Mana o te Wai encompasses the interconnection with, and the
	health and well- being of, all water bodies affected by three waters. It should be
	given effect to at all levels of the framework, including by the Minister in
	developing the GPS; by the RRG in the development of the SSPE and SOI; in
20	asset management plans and infrastructure strategies.
39	The Crown furthers work to design inclusive communications and processes to
40	support the embedding of Te Mana o te Wai in the community. Because strategic direction for entities comes from so many places, legislation should
40	include "strengthened provisions around the content of the government policy statement, and consultation requirements", to mitigate the risk of disconnected
	priorities.
41	The Crown should consult with the RRGs in developing the GPS, and follow the standard consultation process including with communities.
42	The Bill includes provision for a non-voting Crown liaison to the RRG.
43	The Crown will provide sufficient financial support to the entities to ensure 'balance sheet separation' from councils.
44	The Crown confirms to iwi and councils the size of investment required to address
	historic degradation of waterways and inequalities in water service provision, along with a plan on how fixing this will be funded.
45	The Crown should have an ongoing role to support and invest in water services.
46	A review of the three waters structure is undertaken five years after water service
47	entities begin operating. The Crown should formally test the recommendations outlined in this report with
- Τ /	S&P to ensure balance sheet separation
Issues	

28 In relation to the context above, whilst there are a number of issues for SDC to consider, resourcing and timing implications for the work and interaction with the NTU is front of mind.

- 29 Staff consider that any opportunity to engage with the NTU and either influence or improve our collective understanding of the reform programme progress should be encouraged. However, this needs to be balanced with resource capacity and other competing priorities.
- 30 Further, the extent to which our public are kept informed of progress in relation to the reform programme is also an important issue to consider.
- 31 As the transition accelerates and both the RMA and Future for Local Government reforms progress, it will provide an opportunity to consider the potential shape of our organisation over the short, medium and long term. It will be necessary to strike the right balance between proactive engawgement versus keen observer through the evolution of these reforms.

Factors to consider

Legal and statutory requirements

32 None identified at this stage.

Community views

33 No community views have been formally canvassed in association with this report.

Costs and funding

34 The costs and funding implications of the work required to work alongside and respond to the NTU requests for information is not yet well understood. Although, some limited central government funding is anticipated to support these efforts it is possible that additional funding allocation may be required at some point in the coming months.

Policy implications

35 None identified.

Assessment of significance

36 Not considered significant.

Next steps

37 Continue to engage productively with the NTU, local iwi and Ngai Tahu. Further, staff will continue to provide regular intermittent updates to Council on progress.

Attachments

- A Morrison Low (Taituara template) report 🕹
- B Letter to DIA Minister Mahuta 🖞
- C Feedback from DIA in response to Southland District Council letter J
- D NTU programme of delivery 🖞
- E Working group on representation, governance and accountability of new water services entities report 1

Proposed Three Waters Reform

Contents

Executive Summary	1
Summary Recommendations	1
Summary and Background	3
Summary	3
Option A - Government proposal:	4
Option B - Delivery of three water services by Council:	4
Option C - Combined Service Delivery as Otago Southland:	5
Option D - Do Nothing:	5
Background and context	6
Government's June and July 2021 announcements and information releases	8
Southland District Council specific information and analysis	12
Dashboard	12
DIA Dashboard	13
Debt	14
Capital Expenditure Forecast	15
Options available to Council for three waters service delivery	17
Option A - Government Proposal	17
Option B - Council as a standalone deliverer of three waters [enhanced Status quo]	17
Option C - Otago Southland Region	18
Option D - Do-nothing	19
Options analysis	20
Transition	26
Council decision making and consultation	28
Information that the Council requires or potential solutions to outstanding issues that it would like	
convey to Government and LGNZ	29
Conclusion	29
Decision making compliance statements	30
Significance	30
Risks / Legal and Financial implications	30 30
Te Tiriti/Treaty of Waitangi and involvement of Māori in decision making considerations Engagement and Consultation	30
	50
Attachment 1 - 2020 Background (including Taumata Arowai information and Indicative Reform Programme)	31
Water Services Bill obligations of local authorities	33
	i

Attachment 2 - the Government's conclusion that the case for change has been made		
Attachment 3 - DIA two-page summary	36	
Attachment 4 - LGNZ two-page summary	37	
Attachment 5 - funding to invest in the future of local government and community wellbeing	38	
Attachment 6 - Transition	40	
Appendix A - Regional situation analysis	41	
Appendix B - Cross regional current state	42	
Appendix C - SDC Impacts Assessment	43	
Appendix D - Situation analysis Ngāi Tahu Takiwā	44	
Appendix E - Review of WICS data	45	

Figures

Figure 1	Case for change timeline	7
Figure 2	Roles potentially affected in Council	26

ii

Executive Summary

This report updates Council on:

- the Government's 30 June 2021 and 15 July 2021 Three Waters Reform announcements, which change the reform process previously outlined in 2020
- the specific data and modelling Council has received to date
- the implications of the revised Three Waters Reform proposal for Council and alternative service delivery options
- next steps (including uncertainties).

Further, this report seeks to generate and outline specific feedback Council would like to either convey to or, request from, central government in relation to the reform proposal with a view to inform next steps with the programme of reforms.

Summary Recommendations

That Council:

- 1. notes the Government's 30 June and 15 July 2021 Three Waters Reform announcements
- 2. **notes** officer's advice on the accuracy of the information provided to Council in June and July 2021 as a result of the RFI and WICS modelling processes
- 3. notes officer's analysis of the impacts of the Government's proposed three water service delivery model on the Southland District community and its wellbeing, including the impacts on the delivery of water services and water related outcomes, capability and capacity, on Southland District Council's sustainability (including rating impact, debt impact, and efficiency) and
- 4. **notes** the analysis of three waters service delivery options available to Council at this time provided in a series of independent analyses by consultants Morrison Low to ensure risks, opportunities and issues generated by the potential reform are evident to the extent possible with information available. These are:
 - Regional situation analysis (February 2021)
 - Cross regional current state (March 2021)
 - SDC Impacts Assessment (June 2021)
 - Situation analysis Ngāi Tahu Takiwā (May 2021), and
 - Review of WICS data (August 2021).
- 5. notes that a decision to support the Government's preferred three waters service delivery option is not lawful (would be ultra vires) at present due to section 130 of the Local Government Act 2002 (LGA), which prohibits Council from divesting its ownership or interest in a water service except to another local government organisation, and what we currently know (and don't know) about the Government's preferred option
- notes that Council cannot make a formal decision on a regional option for three waters service delivery without doing a Long Term Plan (LTP) amendment and ensuring it meets section 130 of the LGA
- 7. **notes** that the Government intends to make further decisions about the three waters service delivery model after 30 September 2021
- 8. **notes** that it would be desirable to gain an understanding of the community's views once Council has further information from the Government on the next steps in the reform process

9. requests the CEO to seek guidance on and/or give feedback to the Government on - the following areas of the Government's proposal that Council needs more information on [INSERT AREAS]

the following changes to the Government's proposal/process [Insert areas]

- 10. notes that Council has an estimated stranded cost of \$3million which is significantly more than the no worse off funding currently allocated at \$2million over two years
- 11. **notes** that the CEO will report back further once they have received further information and guidance from Government [LGNZ and Taituarā] on what the next steps look like and how these should be managed
- 12. **in noting the above**, agrees it has given consideration sections 76, 77, 78, and 79 of the Local Government Act 2002 and in its judgment considers it has complied with the decision-making process that those sections require (including, but not limited to, having sufficient information and analysis that is proportionate to the decisions being made).

Summary and Background

Summary

- 13. Over the past four years central and local government have been considering the issues and opportunities facing the system for regulating and managing the three waters (drinking water, wastewater, and stormwater) Three Water Reform. The background is provided in Attachment 1 including information on Taumata Arowai (which became a new Crown entity in March 2021 and will become the dedicated water services regulator later this year).
- 14. The Government has concluded that the case for change¹ to the three waters service delivery system has been made [please see Attachment 2 for further information] and during June and July 2021 it released information and made announcements on:
 - the direction and form of Three Waters Reform, including <u>proposed new WaterService</u> <u>Entities (four and their indicative boundaries)</u>, their governance arrangements and public ownership
 - individual (WICS) Council data based on the information supplied under the RFI process
 - a package of investment (\$2.5b) for councils to invest in the future for local government, urban development, and the wellbeing of communities, ensuring no council is worse off as a result of the reforms, and funding support for transition
 - an eight-week process for councils to understand the implications of the reform announcements, ask questions and propose solutions and for Government to work with councils and mana whenua on key aspects of the reform (including governance, integrated planning and community voice).
- 15. Council has been placed in Entity D (Ngāi Tahu Takiwā)
 - Our 'better off' funding allocation is \$19,212,526.
 - Our worse off allocation is estimated to be approximately \$2,000,000.
- 16. While the Government and LGNZ consider that national case for change has been made, each council will ultimately need to make a decision based on its local context if the process to join one of the proposed entities remains voluntary.
- 17. This report provides Council with the staff analysis of the information provided and assesses the Government's proposal and currently available service delivery options. In preparing this report officers have used the Local Government New Zealand, Taituarā, and Te Tari Taiwhenua Internal Affairs <u>guidance²</u> to assist Council to understand the information that has been provided to date and enable Council to prepare for future decisions and consultation and engagement with communities. Key risks considered are documented in the report.

In summary, whilst there are some inaccuracies associated with the WICS generated figures for SDC, our Council specific information looks broadly correct. Given that Council has not been asked to make a decision, other than peer reviews of the modelling and underlying assumptions (which always carry a degree of uncertainty) no further analysis of this work has been done or is proposed. As such, and in conjunction with the Otago and Southland three waters collaboration (supported by Morrison Low), staff have focussed on the options and their implications for Council and the community. This context is covered below.

¹ <u>Transforming the system for delivering three waters services (dia.govt.nz);</u> https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/transforming-the- system-fordelivering-three-waters-services-the-case-for-change-and-summary-of-proposals-30-june- 2021.pdf

² https://www.lgnz.co.nz/assets/Three-Waters-Guidance-for-councils-over-the-next-eight-weeks-FINAL.pdf

Option A - Government proposal:

- 1. The greater financial capability, efficiency, affordability and community/water benefits (as published by Government) of delivering three waters to the community by the proposed new Water Services Entities are likely to be of significant value if they can be realised.
- 2. Our analysis suggests there should be reduced risk to Council (non-compliance with standards and processes, lower costs for delivery, procurement). Council also would not be responsible if a non-council supplier couldn't meet standards.
- 3. There are risks that need to be mitigated including integration with spatial, growth and local planning and transparent prioritisation, households' ability to pay, and Council's financial sustainability. There are several risks associated with transition to this model, many of which are outside of Council's control and are noted in the transition section of the report.
- 4. The average three waters household costs for Southland District Council residents is estimated by DIA under the government proposal to be \$1,640 in 2051 (real, uninflated).

Option B - Delivery of three water services by Council:

- 5. The potential benefits of this option include greater Council control and more certainty over local infrastructure integration (planning and delivery) with land use plans and council objectives. Council however faces significant risks over the longer term, including a potentially significant uplift in costs, in meeting the new water standards, environmental requirements and achieving compliance. The ability of non-Council water supplies to meet standards and requirements also poses a high risk to Council and the community. This is particularly relevant to Southland District Council, given that only 33% of the district is connected to a Council water supply.
- 6. The causes of most of these risks are not within Council's control. This makes mitigation difficult, and many potential mitigation options (such as greater investment, larger costs than currently planned, lower levels of service, compliance risk) may not be palatable to Council or the community.
- 7. There is nothing to prevent Council from incorporating formal processes for co governance consultation or engagement with local Iwi or Rūnanga in decision making for three waters matters like some other councils have.
- 8. The average three waters household costs for Southland District Council if Council continued to be a service provider is estimated by DIA to be \$8,690 in 2051 (real, uninflated).
- SDC has a number of tools at its disposal to address affordability issues within the district (such as the use of rating differentials, UAGCs, rates postponement policies, and rates remissions) which may not be available to a water services entity.

Sensitivity testing of options A and B

Sensitivity testing undertaken by Morrison Low on the DIA data showed that:

- 10. When the underlying assumptions regarding percentage of revenue from households and number of connected properties are adjusted, the forecast charges for Southland are likely to be approximately 1/3 lower than included in the DIA / WICS reports for Council.
- 11. It is considered that the scale of the difference between the entity and Council scenarios is likely somewhat less than WICS analysis indicates.
- **12.** It is however very unlikely that household charges for ratepayers in SDC could be lower from continued Council service delivery than under Entity D.

The review found that, while the projected household charges from the WICS analysis may be the subject of some contention, they were found to be directionally accurate. That is, household charges will increase in the new regulatory environment, and Council ratepayers are likely to have lower household charges under the proposed entity delivery model than through continued Council service delivery. This is consistent with Morrison Low's earlier analysis of a Ngãi Tahu Takiwā entity undertaken for the Otago and Southland councils (refer to Section 1.2 and Appendix D).

Option C - Combined Service Delivery as Otago Southland:

- 13. This option was examined by Council as part of the Otago Southland Collaboration during early 2021 and is included in the SDC Impact Report presented in Appendix C.
- 14. The average three waters household costs for Southland District Council residents was estimated by Morrison Low under an Otago and Southland model to be \$2,001 in 2031 (real, uninflated).
- 15. Otago Southland would include the territorial authorities with Otago and Southland, and most likely would need to be the result of a voluntary process that would take place outside of the current government driven reform.
- 16. The issues, risks and opportunities with an Otago Southland model are generally similar to those for a council only model when compared to the Entity approach, albeit with some scale differences. These differences do not materially affect the Council vs Entity discussion and so are not addressed in detail in this report.
- 17. The challenges for an Otago Southland regional water entity to be able to borrow sufficient funds to meet the required investment programme is considered a major impediment to the viability of an Otago Southland three waters entity.

Option D - Do Nothing:

- 18. Doing nothing is not an option, as Council must continue to deliver services
- 19. Under Option A, Council alone bears the risk of meeting the new water standards, environmental requirements and achieving compliance. There are also implications and challenges for non-Council supplies to meet water quality requirements, with the risk that these supplies might default to Council in the future.

Further to the above, it is important to note that other Government reforms (Resource Management Act, Future of Local Government) have implications on, and pose opportunities and challenges for each option.

Managing transition risks are likely to pose a greater challenge for Council (and others in its grouping) than the risks associated with the Government proposal.

Were Government's proposal to proceed, effective management of the transition by Council, Government and partners will be critical.

The law currently prohibits Council's deciding to opt-in to the current proposal (given section 130 of the Local Government Act 2002 and what we know about this option at present). Current decision-making requirements, including the need to take account of community views and strategic nature of the assets involved, would also preclude Council deciding to opt-in at this time without consultation.

Similar requirements apply if the council wishes to consider alternative arrangements that involve asset transfers, divestment, change in ownership and or the setting up of a Council Controlled Organisation (CCO) to deliver water services in the future.

There are a number of issues, concerns and uncertainties for the Government and councils to work through before a robust Council decision (and decision-making process) can be undertaken.,

There is no expectation that councils will make a decision to opt-in (or out) or commence community engagement or consultation until there is greater clarity around reform timeframes, detail and working within the existing legislative and decision-making framework. This clarity is not expected until the last quarter of 2021.

By the end of September, Councils have been specifically asked to provide feedback on three outstanding issues during the next eight weeks:

- ensuring all communities have both a voice in the system and influence over local decisions
- effective representation on the new water service entities' oversight boards, including preventing future privatisation
- ensuring integration between growth planning and water services planning.

Staff therefore request Elected Members consider the issues that arise from the Government's proposal and any potential solutions so these can be raised with Government and LGNZ before the end of September 2021.

Government decisions on entity boundaries, governance, transition and implementation arrangements will occur after the eight week-process ends (30 September 2021).

On the assumption that the reform goes ahead, it is anticipated that councils will continue to deliver water services until at least early 2024 and council involvement in transition will be required throughout.

Background and context

- 20. Following the serious campylobacter outbreak in 2016 and the Government's Inquiry into Havelock North Drinking Water, central and local government have been considering the issues and opportunities facing the system for regulating and managing the three waters (drinking water, wastewater, and stormwater).
- 21. The focus has been on how to ensure safe drinking water, improve the environmental performance and transparency of wastewater and stormwater network and deal with funding and affordability challenges, particularly for communities with small rating bases or high-growth areas that have reached their prudential borrowing limits.
- 22. The Government's stated direction of travel has been for publicly-owned multi-regional models for (with a preference for local authority ownership). The Department of Internal Affairs (DIA), in partnership with the Three Waters Steering Committee (which includes elected members and staff from local government commissioned specialist economic, financial, regulatory and technical expertise to support the Three Waters Reform Programme and inform policy advice to ministers.
- 23. The initial stage (Tranche 1 MOU, Funding Agreement, Delivery Plan and RFI process) was an opt in, non-binding approach. It did not require councils to commit to future phases of the reform programme, to transfer their assets and/or liabilities, or establish new water entities. The 2020 indicative reform programme and next steps (anticipated at that stage) can be found in Attachment 1.
- 24. Council completed the RFI process over Christmas and New Year 2020/21 and the Government has used this information, evidence, and modelling to make preliminary decisions on the next stages of reform and has concluded that the case for change hasbeen made [Attachment 2].

A summary of the timeline is provided in Figure 1 below:

2016 2017 2018 2019 2020 Havelock North Havelock North Cabinet paper Regulatory Regulator established released reform proposed Arowal – the Water Services or Bill was possed in July 2020 valting Royal Assent. water outbreak inquiry targe scale outbreak nent releases Government releases a A suite of regulate Gover Government releases a cabinet paper signaling major regulatory changes and structural reform of service delivery models. Desired outcomes include: • Ongoing public awnershin stage two finding The bill establishes a water services eritis is reforms regarding the delivery of drinking water and wastewater services are approved by cabinet, including the adoption of the Health (Drinking Water) Amendment Act ributed to from the Hovelock attributed to contamination of the drinking water supply and results in a North inquiry. The findings note Cabinet paper released A cabinet paper considering differ vays to improve three waters ser lelivery and funding arrangemen vas released. The paper confirm widespread systemic failure. government inquiry elivery vas released. The pape-upport to encourage in reform but pre into the events and Recommendations ances that include the ownership gave rise to the incident. hment of a ectabli Sustainability Provision of financial dedicated regulator and the aggregation Improved regulation Environmental support assist with investigation of voluntary reform is considered on a case by case basis Water services bill A separate Water Services Bill has bee introduced to the House. The bill is of water suppliers performance Safe and healthy ended to improve environmental perform supplies

Figure 1 Case for change timeline

Council, as part of the Otago Southland three waters collaboration, commissioned a series of independent reports by Morrison Low to ensure they were informed of risks, opportunities and issues generated by the potential reform. These are attached in Appendices A to E. The reports are listed below along with a key takeout from each.

Regional situation analysis (February 2021)

There is a risk around deliverability of the increased infrastructure programmes. The Otago and Southland Councils, like most New Zealand councils, have generally struggled to deliver their capital programmes each year. Yet, the forecast investment required in three waters for the eight councils will more than double from \$101M in 2020 to an average of \$230M per annum each year over the next ten years. There is a real risk that this is not able to be achieved.

Cross regional current state (March 2021)

There is a risk that even with funding available, the capacity to deliver programmes with such large scope of work does not exist [in the two regions]. While correctly identifying the need to increase capital investment, up to more than double the 2019 programme levels, there is legitimate concern about the capacity of the councils to deliver increased capital investment programmes, with four of the eight councils delivering only half or less of their 2020 capital works programmes. Moreover, those that were able to deliver the full value of their capital works programmes will still be required to uplift their total amount of delivery further still to meet planned investment requirements.

SDC Options and Impacts Assessment (May 2021)

Significant changes will flow from the three waters reform that has already taken place and will take place regardless of whether Councils opt in or opt out of the proposed water entities. Legislative, regulatory and community expectations of standards are changing. There is therefore no status quo option. Three waters service delivery will change and every council in New Zealand must change in some way. The only means by which the future standards can be complied with is investment.

The removal of three waters from Council itself would clearly create some disruption to Council's current operating structure, which in some cases may be significant.

 SDC will need to review its structure and service delivery model to most effectively be a local government organisation providing a wide range of services and activities to its communities. The full extent of the impact on council will be more easily identified once the outcomes of the Resource Management Act and Future of Local Government reviews are complete.

- 2. SDC's three waters debt would disappear leaving the Council better able to borrow for investment into other activities or services.
- 3. Total revenue in 2024 (without three waters revenue) would reduce from \$96.3 million to \$78.5 million but due to the greater reduction in revenue than operating costs, there is likely to be approximately \$3 million of unfunded expenditure which may be stranded in Council. This figure is currently estimated at \$2 million by DIA for compensation (as part of the 'no worse off' package) each year for 2-years post reform if SDC was to opt-in.

Situation analysis Ngāi Tahu Takiwā (May 2021); and

The combined three waters capital investment across the Takiwā has grown by 70% since the 2018 LTPs – from \$3 to \$5.1 billion. This signifies the step change being driven by three waters reform.

The Morrison Low estimate indicates the scale of the investment may be greater than that and could be as high as \$8.5 billion.

Review of WICS data (August 2021).

The level of investment that WICS has assumed is required over the next 30 years. WICS has assumed a ten-year investment requirement of \$350m, which is three times higher than SDC's own estimates.

In summary, the sensitivity testing showed that:

- 1. When the underlying assumptions regarding percentage of revenue from households and number of connected properties are adjusted, the forecast charges for Southland are likely to be approximately 1/3 lower than included in the WICS reports for Council.
- 2. The scale of the difference between the entity and council scenarios is likely somewhat less than WICS analysis indicates.
- 3. It is unlikely that household charges for ratepayers in SDC could be lower from continued council service delivery than under Entity D.

Overall, we note that while the projected household charges from the WICS analysis may be the subject of some contention, in our view they are directionally accurate. That is, household charges will increase in the new regulatory environment, and SDC ratepayers are likely to have lower household charges under the proposed entity delivery model than through continued council service delivery. The cost gap between council service delivery and entity delivery is likely to widen over time also, particularly as the age of the infrastructure increases impacting on investments needs.

Government's June and July 2021 announcements and information releases

- In June 2021 a suite of information was released by Government that covered estimated potential investment requirements for New Zealand, scope for efficiency gains from transformation of the three waters service and the potential economic (efficiency) impacts of various aggregation scenarios.³
- 2. In summary the modelling indicated a likely range for future investment requirements at a national level in the order of \$120 billion to \$185 billion, an average household cost for most councils on a standalone basis to be between \$1910 and \$8690 by 2051. It also estimated these average household costs could be reduced to between \$800 and \$1640 per household and efficiencies in the range of 45% over 15-30 years if the reform process went ahead. An additional 5,800 to 9,300 jobs and an increase in GDP of between \$14b to \$23b in (Nett Present Value, NPV terms over 30 years were also forecast.

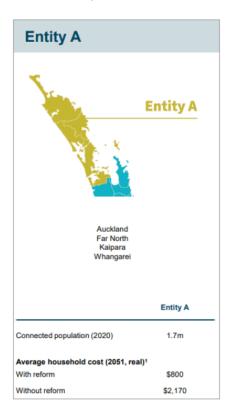
³ This information, including peer reviews and the Minister's briefing can be accessed at: <u>https://www.dia.govt.nz/Three-Waters-Reform-Programme</u> and <u>release-of-second-stage-evidence-base-released-june-</u> 2021

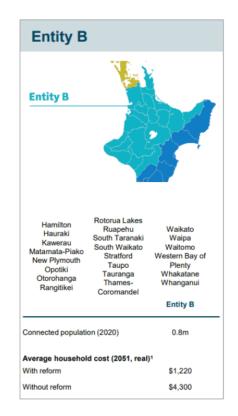
As a result of this modelling, the Government has decided to:

- 3. establish four statutory, publicly-owned water services entities that own and operate three waters infrastructure on behalf of local authorities
- 4. establish independent, competency-based boards to govern
- 5. set a clear national policy direction for the three waters sector, including integration with any new spatial / resource management planning processes
- 6. establish an economic regulation regime
- 7. develop an industry transformation strategy.

The proposed safeguards against privatisation can be found on page 26 of the DIA's <u>summary of the case for change</u>.

- Both DIA and LGNZ have produced two page national overviews, available on the DIA <u>website</u>⁴ and <u>LGNZ websites</u>⁵ respectively. Attachment 2 contains more detail on the national context and Attachments 3 and 4 provide the DIA/LGNZ overviews.
- We have been placed in Water Services Entity D. Although the precise boundaries are still up for discussion, the approximate boundaries and the districts included within are shown below. For information, the other Entities are also shown below.





⁴ 2872-DIA-A3-A New Water with-without reform Map 20210526 v2.7

⁵ <u>Three-Waters-101-Infographic.pdf (lgnz.co.nz)</u>

Entity C	Entity D
Entity C	Entity D
Carterton Central Hawke's Bay Chatham Islands Gisborne Hastings Nelson Kapiti Coast Lower Hutt Manawatu Mariborough Nasterton Napier Nelson North Marison North North Marisonugh Mariborough Napier Nelson North Marisonugh Marisonugh Tararua Tasman Upper Hutt Wairoa Marisonugh Upper Hutt Wairoa Marisonugh Mari	Ashburton Grey Buller Hurunui Southland Invercargill Timaru Central Otago Kaikoura Waimakarini Christchurch Mackenzie Waimate Clutha Queenstown Waitaki Dunedin Lakes Westland Gore Selwyn
Connected population (2020) 1.0m	Connected population (2020) 0.9m
Average household cost (2051, real) ¹ With reform \$1,260 Without reform \$3,730	Average household cost (2051, real) ¹ With reform \$1,640 Without reform \$4,970

On 15 July, in partnership with LGNZ under a Heads of Agreement, ⁶ the Government announced a package of \$2.5 billion to support councils to transition to the new water entities and to invest in community wellbeing. This funding is made up of a 'better off' element (\$500 million will be available from 1 July 2022 with the investment funded \$1 billion from the Crown and \$1 billion from the new Water Services Entities) and 'no council worse off' element (available from July 2024 and funded by the Water Services Entities). The "better off" funding can be used to support the delivery of local wellbeing outcomes associated with climate change and resilience, housing and local place-making, and there is an expectation that councils will engage with iwi/Māori in determining how to use their funding allocation.

- 10. SDC's better off funding allocation is \$19,212,526.
- 11. SDC's no worse off funding allocation approximately \$2,000,000 (each year for two years following the transition).
- 12. It is important to note that Morrison Low's estimate of our no worse off funding allocation is closer to \$3,000,000, and as such may be considered an important topic to engage with DIA on.
- 13. The detail of the funding (including expectations around the use of reserves) and the full list of allocations can be found in Attachment 5. Conditions associated with the package of funding have yet to be worked through.
- 14. In addition to the funding announcements, the Government has committed to further discussions with local government and iwi/Māori over the next eight weeks on:
 - the boundaries of the Water Service Entities

⁶ <u>https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/heads-of-agreement-partnering-commitment-to-support-three-waters-service-delivery-reform.pdf</u>

- how local authorities can continue to have influence on service outcomes and other issues of importance to their communities (e.g. chlorine-free water)
- ensuring there is appropriate integration between the needs, planning and priorities of local authorities and those of the Water Service Entities
- how to strengthen the accountability of the Water Service Entities to the communities that they serve, for example through a water ombudsman.
- 15. The Government has indicated that this period until 30 September provides an opportunity for local government to provide and/or, seek feedback on any element of the reform proposal to this point.
- 16. Some stakeholders from around the country have taken the opportunity to provide feedback already. Some of the 'non-negotiables' communicated to the Minister by local government Zone 5 and 6 representatives are as follows:
 - Councils and local communities are to retain local input into three waters service delivery
 - All communities to receive the same standard and level of service
 - Ensure there is no privatisation of three waters
 - Local contractors have the opportunity to continue to provide their services locally; and
 - Councils have an opportunity to be involved in developing the criteria for board positions.
- 17. Further, Ngāi Tahu have also identified a number of 'shared priorities' for communication to the Minister:
 - Assets cannot be sold to the private sector and must remain in the hands of the communities for our generation and future generations.
 - Must give effect to Treaty principles and legislation and enable Ngāi Tahu to meaningfully participate in decision making.
 - All communities need to be able to be looked after within Entity D, including those whose councils may be aligned with Entity C and Chathams.
 - Our communities have differing needs. Where a district seeks to maintain a higher level of service, they can require it of Entity D, and fund it locally where required.
 - Communities across Entity D must have access to the infrastructure they need for sustainable growth, regardless of whether they are small or large.
 - The base of community knowledge and skills is retained and gown through social and local procurement.
 - Mechanisms must allow for representation across the region and accountability to communities. At least two jointly appointed direct to the Entity Board by Ngāi Tahu and Councils.
 - Direct representation comprising the capability and understanding of local needs at design, establishment and transition stages. We will continue to codesign together with DIA funding.
 - Consumer ombudsman (or other similar mechanism) at a takiwā level.
- 18. Given the above, in presenting this report, it is intended to generate context to provide and / or seek from the Government on the reform proposal as it stands in order to inform next steps.
- 19. As a result, the original timetable for implementing the reform and for councils to consult on a decision to opt-in (or not), no longer applies. Further advice on the difficulties and risks of making a decision to opt-in or not is included at 'Options analysis' section of this report.

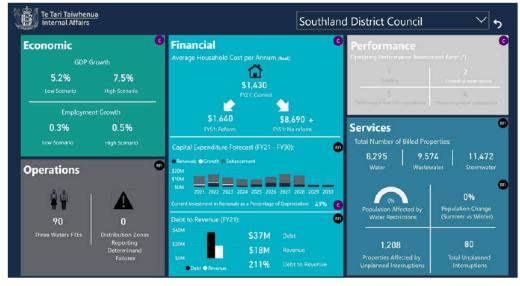
- 20. Next steps are expected to be announced after 31 September 2021, which would include the timeframes and responsibilities for any community or public consultation.
- 21. It is also important to note that the Government has not ruled out legislating for an "all-in" approach to reform to realise the national interest benefits of the reform.
- 22. In the interim the DIA continues to engage with council staff on transition matters on a no regrets basis should the reform proceed. These discussions do not pre-empt any decisions about whether to progress the reforms or whether any individual council will transition.
- 23. On the assumption that the reform goes ahead, it is anticipated that councils will continue to deliver water services until at least early 2024 and council involvement in transition will be required throughout.

Southland District Council specific information and analysis

Dashboard

- 1. While the Government and LGNZ consider that national case for change has been made, each council will ultimately need to make a decision based on its local context.
- 2. Councils do not have a national interest test for their decision making. Councils are required to act in the interests of their communities and the community's wellbeing (now and into the future), provide opportunities for Māori to contribute to their decision-making processes, ensure prudent stewardship and the efficient and effective use of its resources in the interests of the district or region (including planning effectively for the future management of its assets) and take a sustainable development approach⁷.
- We currently deliver three waters through our Services and Assets group that includes a Strategic Water and Waste team. Within this team are Asset Management, Engineering Services and Capital Delivery resources.

Our dashboard looks like this:



⁷ See for example sections 5 and 14 of the LGA.

- 4. This dashboard, and the dashboards of other councils, can be accessed on this site (in the footer below). $^{\rm 8}$
- 5. The key aspects Council should note are detailed below.
- 6. Average cost of three waters per household:
 - the DIA (based on several assumptions) states it is currently \$1,430; our actual average based on the 2021/22 Plan is \$929.
 - projected out to 2031 (again based on assumptions) is \$8,032 (DIA inflation stripped out) and our council (based on year 10 of the LTP 2021-31 and on projections by Morrison Low) is \$1,953 (inflation stripped out).
 - DIA's reform-based average household cost (Entity D) projects \$1,640 by 2051.

DIA Dashboard

Against the above information, in general the Dashboard and underlying information for the next 10 [30] years appears directionally accurate when compared with Council's own information and LTP 2021-31. Further detail is provided below. Council engaged Morrison Low via LGNZ to review the modelling completed by WICS for DIA, which informs Council's ("SDC") dashboard, and identified a number of key assumptions that have been applied by WICS as having a significant impact on the projected household charges under each scenario, specifically these are:

- 7. The assumptions used by WICS regarding the proportion of three waters revenue that is received from households, which has been assumed by WICS to be 70%, but which is 68% for Council.
- The approach WICS has taken to determine the number of household connections, which has been to divide the connected population by 2.7. WICS assumes that there are only 4,278 household connections in SDC, compared to the 5,900 water connections disclosed in its completed RFI.
- 9. The level of investment that WICS has assumed is required over the next 30 years. WICS has assumed a ten-year investment requirement of \$350M, which is three times higher than Council's own estimates.
- 10. The approach used by WICS to estimate future revenue requirements. WICS determined future revenue requirements by reference to the amount of debt that SDC would need to borrow to fund its full investment programme. Revenue is determined based on the amount needed to maintain a three waters debt to revenue ratio of 250%. Council's debt capacity is not measured at an activity level, given the lower borrowing requirements of other activities, a ratio of at least 500% is likely more appropriate. This has had a significant impact on revenue required to access debt-levels needed to fund estimated investment values.
- 11. WICS have assumed that Entity D will be able to achieve operating and capital efficiencies totalling 53.3% and 50%, respectively, over a 20-year period (from today).
 - While prepared at the national level, it has been peer reviewed by Farrierswier and Beca to ensure that both the modelling and underlying assumptions are reasonable in the New Zealand context. It therefore provides a reasonable indication of the "order of magnitude"⁹ of the gains that can be delivered though the new system and the level of future investment Council is likely to need to make over the next 30 years.

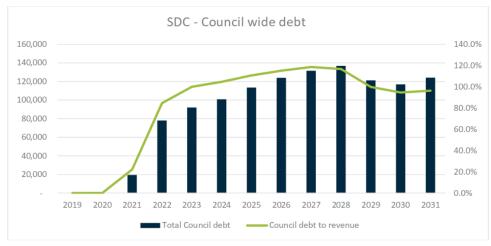
⁸ https://app.powerbi.com/view?r=eyJrljoiOGE10TJIYWUtZDZkNy00YWZJLTgzN2Et0TY1MzQxNGM5NzJmliwid CI6ImY2NTIjYTVjLWZjNDctNGU5Ni1iMjRkLTE0Yzk1ZGYxM2FjYiJ9

⁹ Page iv, 2021, Farrierswier, Three Waters Reform, Review of methodology and assumptions underpinning economic analysis of aggregation available at https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reformprogramme/\$file/farrierswier-three-waters-reform-programme-review-of-wics-methodology-and- assumptions-underpinningeconomic-analysis-of-aggregation-released-june-2021.pdf

- 12. At this stage it is not possible to fully test the projections as the standards for Aotearoa/New Zealand out to 2051 are not known, although it is reasonable to assume that there will be greater community and mana whenua expectations around environmental performance and quality, tougher standards to meet for water quality (drinking and receiving environment) and that monitoring, compliance and enforcement will be greater than it is now. This affects both operational and capital expenditure (costs will go up), including the number of staff (or contractors) that council will need to ensure Council outcomes for water and community and legal requirements are met.
- 13. There is always a level of uncertainty and therefore risk around assumptions and forecasts, whether prepared by us for our LTPs or by others (i.e. Government) to facilitate policy decisions, such as the current Three Waters Reform process. However, it should be noted that an assessment of the modelling has been undertaken by Morrison Low and is included in Appendix E in addition to informing the above context.
- 14. To assess whether the proposed better off and no worse funding to Council [\$19,212,526] is sufficient, Council needs further information on the conditions that will be associated with that funding. For the purposes of the following analysis, it is assumed that this funding would provide Council with an opportunity to address a range of issues and opportunities to improve community wellbeing in partnership with mana whenua and the communities Council serves.

Debt

The three waters debt in the dashboard for 2021 is \$37M. This is taken from the RFI information submitted by staff in early 2021. The Impact Analysis by Morrison Low forecast three waters debt at 2031 to be over \$78M and as the following debt profile shows, for Council debt to remain within the LGFA limits throughout the current LTP period.



If three waters debt in 2024 (the presumed year of transition) transferred to Entity D, Council's total borrowing would reduce from \$99 million to \$49 million, and its additional borrowing capacity would increase to \$170.6 million.

Capital Expenditure Forecast

- 1. The DIA are forecasting \$350,073,873 to 2031 and \$1,244,286,818 to 2051.
 - Of the 2051 figure, \$806,605,000 is forecast necessary for Level of Service enhancement and growth and \$435,681,818 for renewals. This is significantly higher than Council's own RFI forecasts.
- Our own information demonstrates that there is moderate investment required over the next 10 years of our Long Term Plan and out across 30 years in our infrastructure strategy, underpinned by assumptions that regulatory standards will tighten and that there will be more monitoring and enforcement in the future.
 - Work undertaken by Morrison Low indicates that the total investment required to 2031 is \$105,769,000, of which \$72,993,000 is for LoS and growth and \$32,776,000 for Renewals. We note that Council's renewals investment is low in comparison with others as our infrastructure is relatively young.

Investment in level of service enhancement is the largest driver of infrastructure spend in SDC, and a significant component of this spend is to increase compliance with new regulatory standards.

Council's drinking water levels of compliance and levels of service are good for the Otago-Southland region, with over 56% of its total drinking water supplied receiving chemical treatment, and only 4% (or one treatment plant) receiving simple disinfection only. SDC's infrastructure also had the lowest rate of mains bursts per 10km, and the second lowest rate of unplanned water service interruptions per 1000 properties in the Otago-Southland region in 2020.

The only Water Treatment Plant in SDC that is likely to be non-compliant with the protozoal standards in the Drinking Water Standards treats smaller volumes of water and relates to one of the district's rural water schemes.

However, Council has the second lowest number of wastewater treatment plants providing tertiary treatment, with only 12% of the wastewater treated in Southland being subject to tertiary level treatment. In addition, 73% of the district's treated wastewater is currently discharged into a freshwater receiving environment.

The largest level of service investment planned currently is the potential upgrade of the Winton wastewater treatment plant. However, there are a number of planned consent renewals during this period, and in most cases discharging to land is unlikely to be a viable option, as the soil is typically unsuitable for this type of discharge. Because of this, the potential future investment requirements could be significant for the district.

If three waters service delivery remains with Council, then SDC will need to continue to fund the required level of service investment directly (as it is forecast to within its Long-Term Plan). This will require a sustained period of investment that will require water charges to double over 10 years. Cost increases like this will come with community pressure and if Council deviates from that path we will need to accept the additional risk associated with continued non-compliance.

Private suppliers

Under the draft Water Services Bill councils are considered to be the supplier of last resort for drinking water services provided within their territorial boundaries. This means that in the event that a private drinking water scheme fails or ceases to provide drinking water, Council may be responsible for ensuring continuity of supply to households serviced by that scheme.

The risk of this occurring is a significant concern, particularly given the increased enforcement of drinking water standards that has been proposed and the increased levels of personal liability associated with non-compliance.

In the event that three waters reform proceeds, it is understood that the Government would transfer the obligation to act as the supplier of last resort to the new water entities. It is not yet clear whether this would extend to giving the new entities the powers to forcibly takeover the management of schemes, or to act as the supplier of last resort in districts where councils have not opted into the reform process.

While the number of private schemes in SDC is unknown the proportion of population that is connected to a water supply scheme provides a proxy for the scale of the risk. SDC has the lowest percentage of connected population in Otago and Southland, at only 33%, and as a rural council can be expected to proportionally have a higher number of private suppliers.

Options available to Council for three waters service delivery

1. This Section provides an overview of the options available to Council and is followed by an analysis of the options (excluding the Do Nothing option, which is essentially discounted).

Option A - Government Proposal

- 2. Under this option, we are in Entity D, a publicly owned water services entity that owns and operates three waters infrastructure on behalf of councils, mana whenua and communities.
- 3. The ownership and governance model is a bespoke model, with councils listed in legislation as owners, without shareholdings or financial interests, but an advocacy role on behalf of their communities. Iwi/Māori rights and interests are also recognised and representatives of local government and mana whenua will sit on the Regional Representative Group, issue a Statement of Strategic and Performance Expectations and receive a Statement of Intent from the Water Services Entity. Entities must also consult on their strategic direction, investment plans and prices /charges.
- 4. The law currently prohibits Council deciding to opt-in to the current proposal (given section 130 of the LGA, which prevents councils from divesting their ownership or interest in a water service except to another local government organisation such as aCouncil Controlled Organisation) and what we know about this option at present.
- 5. A summary of benefits, risks and issues with the Entity approach was set out in the Morrison Low impacts report is listed below (and presented in detail in the section '*Council specific information and analysis*'):
 - Alignment of the entity with the Ngāi Tahu Takiwā provides a greater ability to embed Te Ao Māori within the governance of three waters services.
 - A larger entity covering all, or most, of the South Island will allow for a greater degree of consistency of levels of service between districts.
 - However, with a larger service area comes a greater need to prioritise where investment occurs first.
 - Would have an enhanced ability to send strong market signals and long term, significant capital works programs that would provide contractors with sufficient certainty of work that they are able to scale up appropriately.
 - This option addresses the very real risk that the scale of investment required to meet new standards and community expectations is greater than council's have forecast (evidenced from WICS estimate forecasting also).

Option B - Council as a standalone deliverer of three waters [enhanced Status quo]

- 6. This option represents a modified version of Council continuing to deliver services to reflect the anticipated regulatory environment for three waters delivery.
- 7. This option requires making assumptions about:
 - the future regulatory requirement (potentially using the assumptions underpinning the WICS modelling and the Government's proposal and draft/emerging standards and compliance regimes e.g. those coming from Taumata Arowai)
 - the ability of non-Council water supplies to meet standards and requirements and the subsequent risks to Council

This option would ideally include the production of business cases for investment and enhanced activity and asset management planning (above and beyond what is currently produced) to be robust.

- 8. Council staff have assessed our ability to do this work in the current operating environment (delivering business as usual, stimulus projects, other Government reform workloads, consultant availability etc) and concluded that only a very high level of analysis of this option could be done in the available timeframe. As such, as to whether Council and the local three waters sector has the capacity to deliver an enhanced status quo option is not yet well understood.
- 9. Whilst the Morrison Low forecasting suggests that SDC has the capacity to borrow sufficient funds to meet the required investment programme over the next 10-years, it is as yet unclear whether this remains the case beyond this point. Particularly considering the young age of our infrastructure, relative to other neighbouring territorial authorities. The WICS modelling assumes this to be an impediment for SDC.
- 10. A summary of benefits, risks and issues with the Council service delivery approach was set out in the Morrison Low impacts report attached at Appendix C.
- 11. Please note that any changes to levels of service or material changes to the cost of service would require consultation and an LTP amendment (or consultation on those changes as part of the next LTP 2024-34 and potentially later ones).

Option C - Otago Southland Region

A review has been undertaken by Morrison Low of an Otago Southland combined option. This is included in the "SDC Post Impacts Report", attached at Appendix C.

Otago Southland would include the territorial authorities with Otago and Southland, and most likely would need to be the result of a voluntary process that would take place outside of the current government driven reform.

Previous work indicates that that a regional three waters entity covering the Otago and Southland region will breach both the LGFA lending covenant, and the debt to revenue covenants that would likely be imposed by the credit agency Moody's if the agency was to seek a Baa/Ba credit rating. This means that a regional water entity would have to rely on Government subsidies or higher user charges to be able to afford the current investment programme.

The challenges for an Otago Southland regional water entity to be able to borrow sufficient funds to meet the required investment programme is considered a major impediment to the viability of an Otago Southland three waters entity.

A summary of benefits, risks and issues with the Otago Southland approach was set out in the Morrison Low impacts report and is listed below (and presented in detail in the section '*Council specific information and analysis*'):

- 12. The development of a co-governance model will require Councils and Māori to participate in what may be a resource intensive process and this needs to be supported by external funding.
- The relationship between water 'customers' and the service provider as an Otago Southland water entity would essentially become similar to an electricity company.
- 14. A regional water entity is able to provide improved asset management, improved management of risk and will be better placed to meet any increased compliance requirements or increased environmental standards than the Councils can individually.
- 15. Delivery of capital works will still be challenging with the regions needing to increase capital delivery by over 130% compared to the amount delivered in 2020.

16. Ability to form an Otago Southland entity is a significant risk (unless it emerges as the governments option) as Councils must opt out of reform, and then subsequently engage, commit, and fund a voluntary reform process without a suitable structure to do that.

By 2031 an Otago Southland three waters entity is forecast to have debt totalling \$1.9 billion, or 465% of its annual revenue.

Option D - Do-nothing

17. Doing nothing is not an option and is not considered further. In essence, "Do Nothing' is Option B as this is the status quo along with the issues presented in this the Morrison Low reporting.

Options analysis

For simplicity, the table below presents the analysis of the Options undertaken by Morrison Low in the SDC Impacts report (full report included in Appendix C). Note this also includes an Otago Southland options that was considered previously and is retained for completeness.

	Council delivery model	Otago Southland (included for comparison only)	Entity D
Governance	Governance of three waters generally	Governance of three waters generally	Governance of three waters generally
	Governance of three waters in Southland is provided by elected members through the Services and Assets committee and in the case of three rural schemes, through water supply committees.	by a skills and merit-based board of directors by who have a sole focus on the delivery of three waters services and subject to different liabilities waters	Governance of three waters would be provided by a skills and merit based board of directors who have a sole focus on the delivery of three waters services.
	Embedding of Te Tiriti o Waitangi and Te Ao Māori	Embedding of Te Tiriti o Waitangi and Te Ao	Embedding of Te Tiriti o Waitangi and Te Ao Māori
	Governance of three waters service delivery at Southland District Council currently does not involve any formal participation from Iwi or local Runanga.	The model provides the opportunity to deliver on treaty principles and co-governance with Māori from the outset within a new purposely built framework reflecting Te Mana o te Wai.Ti TiThe development of a co-governance model will require Councils and Māori to participate in what may be a resource intensive process and this needs to be supported by external funding.Local separacentation	Alignment of the entity with the Ngāi Tahu Takiwā provides a greater ability to embed Te Ao Māori within the governance of three waters services. The costs to develop a fit for purpose co-
	There is no legislative restriction to enabling this at a later date.		governance model are unlikely to be significantly higher with a larger entity.
	Local representation Water services are currently provided through a model with elected council representative and elected community boards. Residents of		Local representation This issue will likely be magnified if the entity was responsible for the entire Ngāi Tahu Takiwā, as SDC would be a smaller part of a much larger
	Southland can approach Council about any issues regarding the levels of service that they receive.	A potential loss of community influence over priorities and service levels by removing governance from the democratically elected Council into a board of professional directors.	Again, if the entity was responsible for the entire Ngāi Tahu Takiwā this perception of a lost connection and of lost community assets would
		The relationship between water 'customers' and the service provider as an Otago Southland water entity would essentially become similar to an electricity company.	likely be greater.

	Council delivery model	Otago Southland (included for comparison only)	Entity D
ompliance and	Regulatory compliance	Regulatory compliance	Regulatory compliance
Levels of service	Southland DC's current levels of service are typically good; however, it may differ between townships and schemes.	A regional water entity is able to provide improved asset management, improved management of risk and will be better placed to	A larger entity covering all, or most, of the Sout Island will allow for a greater degree of consistency of levels of service between district
	While SDC is currently generally compliant with wastewater consents, only 12% of its wastewater is subject to tertiary level treatment, and 73% is	meet any increased compliance requirements or increased environmental standards than the Councils can individually.	However, with a larger service area comes a greater need to prioritise where investment occurs first.
	discharged to freshwater. Regulatory standards will increase in the near	It will allow for consistency between the levels of service provided to residents of neighbouring	Private schemes
	future, and in order to meet these standards in	districts.	The transfer of responsibility for three waters services entity from Council reduces its future
	the future SDC will need to make significant investments in its three waters assets.	An entity's financial, human, and contracting resources will still be limited and investment will	liability for and costs of addressing the private supplier risk. These risks transfer to the entire
	Private schemes	need to be prioritised across its service area.	region rather than being concentrated on just
	SDC is a predominantly rural council, and in our experience, these areas are likely to have a large	Private schemes The transfer of responsibility for three waters	SDC. Rural water schemes
	number of private supplies.	services entity from Council reduces its future	There would be no substantial difference in the
	Council is currently the supplier of last resort under the Water Services Bill. This means that	liability for and costs of addressing the private supplier risk. These risks remain but transfer to the entire region rather than being concentrated on just	treatment of rural water schemes between a Ngāi Tahu Takiwā sized entity, a South Island
	Council may be obligated to ensure continued water supply if schemes fail.		entity, or indeed an Otago-Southland entity.
	Rural water schemes	SDC.	The incidence of rural water schemes in the res of the South Island is high enough that the
	SDC has a number of rural water schemes that	Rural water schemes	schemes will require a similar level of attent in any entity model.
	provide reticulated water (with varying levels of treatment) to rural properties with the additional purposes of irrigation and stock water.	There is limited guidance about whether the government is proposing to transfer ownership of rural schemes to new entities or not, however	
	The incidence of private household connections to these schemes may or may not be known or	from a risk perspective we would suggest that councils seek to also transfer such schemes.	
	approved by council and may currently present potential health and compliance risks.	A new water entity will need to understand the nuances of providing water to such schemes	
		however, including differences in charging regimes and potential price differentiation.	

	Council delivery model	Otago Southland (included for comparison only)	Entity D
Infrastructure	Scale	Scale	Scale
investment	We have projected that SDC will need to invest approximately \$151 million on three waters infrastructure over the next 10 years.	Between \$2.3 – 4.7 billion needs to be invested in three waters infrastructure in Otago and Southland over the next 10 years.	Between \$8 – 9 billion needs to be invested in three waters infrastructure in the Ngāi Tahu Takiwā.
	Delivery of capital works	Delivery of capital works	Delivery of capital works
	Southland DC delivered 81% of its capital works program in 2020. ¹⁰ The forecast capital	Will still be challenging with the regions needing to increase capital delivery by over 130%	Delivery is still likely to be challenging until such time as the labour market is able to respond.
	expenditure over the next 10 years for Southland would require annual capital works delivery of a similar scale.	compared to the amount delivered in 2020. However, an entity may have an improved ability to coordinate a long-term sustainable program of	Would have an enhanced ability to send strong market signals and long term, significant capital works programs that would provide contractors
	Capital works delivery may be harder if SDC is competing with a large water entity for contractors.	works which may enable the contractor market to confidently scale up its resources and may reduce inter-district competition for contracting resource	with sufficient certainty of work that they are able to scale up appropriately.
	Renewals		Any improvement in capital works delivery under an entity model will take some time to transpire
	SDC plans to invest the lowest amount in the renewal of its network (when compared to annual depreciation) of all councils in the two regions. However, SDC's network is relatively young with many assets not yet at the end of their useful lives.	Any improvement in capital works delivery under an entity model will take some time to transpire.	Renewals
		Planned renewals investment across Otago and Southland is substantially lower than our estimates indicate it should be based on age alone. However, differing age profiles across the two regions mean that there may be opportunities to smooth the renewals programme better at a regional level. Growth	Planned renewals investment across the Ngāi Tahu Takiwā is about equal to our estimates
			based on age, however there are shortfalls and surpluses at district level.
	Growth		A Ngãi Tahu Takiwā sized entity would have a large enough renewals budget to address the
	While SDC is not traditionally considered to be a growth council, some of its townships (e.g. Te Anau and Riverton) have, and are likely to continue to, experience significant growth.		needs of each district.
			Growth
	Council has control over the timing and location of its investment in growth infrastructure to attempt to facilitate or respond to growth when it occurs.		The challenges of coordinating and managing competing growth and investment priorities across a larger number of councils may be increased.

¹⁰ Note that delivery of the capital works programme in the 2020 financial year was impacted by Covid-19 restrictions

	Council delivery model	Otago Southland (included for comparison only)	Entity D
	District planning activities currently consider a range of factors to determine new areas for development, with infrastructure being only part of this equation.	SDC no longer has control over timing and location of investment in growth infrastructure. There will be a need to ensure that the foundation documents and governance structures retain an appropriate balance between the individual priorities of each council with regional priorities including planning and supporting growth. An entity may have different priorities or timeframes over growth investment in SDC. District planning will require interface with a three waters entity which may have different motivations when identifying new development areas.	However, the entity will also have increased capacity to be able to address these issues and challenges. An entity may have different priorities or timeframes over growth investment in SDC. District planning will require interface with a three waters entity which may have different motivations when identifying new development areas.
Financial assessment	Debt and borrowing capacity SDC is forecast to have three waters debt exceeding \$78 million and total council debt exceeding \$138 million by 2031. SDC's additional borrowing capacity in 2024 (the estimated year of transition) would be \$168.9 million. Estimated household three waters charge SDC has an estimated household three waters charge in 2031 of \$1,953 (or a 209% increase). Water and wastewater charges would equate to approximately 2.4% of median household income in 2031. Financial resilience	Debt and borrowing capacity Without three waters debt in 2024 (the presumed year of transition) Council's total borrowing would reduce from \$99 million to \$49 million and its additional borrowing capacity would increase to \$170.6 million. A three waters entity for Otago and Southland would have over \$1.9 billion of total debt and a debt to revenue ratio of 465% (which exceeds the limits for a Baa/Ba credit rating). This would result in a credit downgrade leading to increased costs of borrowing and possibly the need to prioritise investment between districts. A voluntary Otago-Southland entity would still have a balance sheet that is consolidated with its constituent councils without legislative change. Estimated household three waters charge	Debt and borrowing capacity Initial high-level estimates indicate a three waters entity covering the Ngāi Tahu Takiwā would have debt between \$6 – 6.5 billion and would exceed the debt to revenue lending covenants that are required for a Baa/Ba credit rating. This would result in a credit downgrade leading to increased costs of borrowing. It will also likely require further prioritization of investment between districts. Estimated household three waters charge A three waters entity covering the Ngāi Tahu Takiwā would likely have an average three waters household charge between \$1,700 and \$1,900. Financial resilience

	Council delivery model	Otago Southland (included for comparison only)	Entity D
	The forecast investment required in three waters across in all Councils in Otago and Southland has grown significantly since the 2018 LTPs and with the increasing focus brought by three waters reform there is considerable risk that these costs will continue to change and increase further.	A three waters entity would have an estimated three waters charge of \$2,001 in 2031. Water and wastewater charges would equate to approximately 2.4% of median household income in 2031. Financial resilience This option addresses the very real risk that the scale of investment required to meet new standards and community expectations is greater than forecast. A larger entity is better able to address the risk of future investment requirements being underestimated as it distributes costs over a larger customer base.	This option addresses the very real risk that the scale of investment required to meet new standards and community expectations is greater than forecast. A larger entity is better able to address the risk of future investment requirements being underestimated as it distributes costs over a larger customer base.
Capability and capacity	Southland District Council currently has 4 vacancies in its three waters group (30% of three waters roles). There is a shortage of specialist resources for three waters across New Zealand and internationally. As water reforms occur across New Zealand there is likely to be increased competition to attract and retain the specialist skills in water that are necessary to enhance delivery	 13% of all three waters roles are currently vacant in the Otago and Southland regions. A three waters entity would have sufficient scale to create strategic capacity and capability across the region and support the areas where that is currently lacking. Scale, strategic capacity and capability gives a level of expertise and resilience in three waters that can be applied regionally, benefitting all ratepayers of the region rather than only some. Greater depth in planning and programming is also expected to help deliver the increased capital programme required to implement change in three waters. 	Increasing size and scale creates greater opportunities for staff and improves its capacity to train and develop expertise. Larger entities are also further insulated from ebbs and flows in the size of the workforce.
Risk	A number of the challenges highlighted with the current and emerging service delivery will be exacerbated.	There are a significant number of unknowns with the government proposal including:	There are a significant number of unknowns with the government proposal including:

	Council delivery model	Otago Southland (included for comparison only)	Entity D
	If SDC "opts out", while other councils "opt in" to reform, SDC is likely to be competing with a large water entity for contractors and internal	Entity design.	Entity design.
		Council's roles as owner and governor.	Council's roles as owner and governor.
	resources and capability.	Mechanisms to prioritise local investment.	Mechanisms to prioritise local investment.
		Coordination of planning and investment.	Coordination of planning and investment.
		Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred.	Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred.
		Community input and role.	Community input and role.
		Allocation of liabilities, land ownership.	Allocation of liabilities, land ownership.
		Without the critical mass of all councils there is a danger that the benefits of change will be substantially reduced or lost. That is particularly the case if the population centres of Dunedin, Invercargill and Queenstown were not involved.	A larger entity would be more resilient to some councils opting out of the process. However, the absence of the population centres of Christchurch and Dunedin would still create some challenges.
		Ability to form an Otago Southland entity is a significant risk (unless it emerges as the governments option) as Councils must opt out of reform, and then subsequently engage, commit and fund a voluntary reform process without a suitable structure to do that.	In order to make an informed decision about the benefits or otherwise of opting into reform, it would be helpful to understand the likely position of each council, which will be more challenging with a larger proposed entity.
Impact of transition	There would be no transition, however Council may lose resources to new water entities or transitional bodies in areas where councils have opted into the reform process.	Uncertainty created by the potential change can and will affect existing staff. Attraction, recruitment and retention of key staff is a particular concern for the councils. As this option entails opting out of reform, it is likely that any transition costs (which are likely to be significant) will need to be met by councils.	The issues regarding transition do not differ for a larger water entity. Enforcement of standards during the transition period will need to be carefully managed by Taumata Arowai if council's have a reduced workforce due to staff accepting roles with transition entities.
			It is anticipated that any costs of transition will be funded by the Government.

Transition

- 18. There will be a transition process which may be challenging but is not considered to be a key driver for a decision.
- 19. That said, transition away from the status quo to any other option, carries inherent risks, with potential mitigations to reduce both impact and likelihood and therefore residual risk and sticking with the status quo may not be sustainable in the short, medium or long term.
- 20. A high-level overview of what we know of the transition process and risks is contained in Attachment 6.
- 21. With regard to transition, the chart below indicates potentially affected roles in the Council. Further detail on this is provided in the Impacts Assessment in Appendix C.

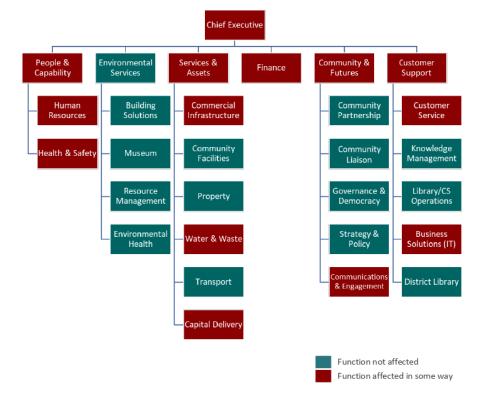


Figure 2 Roles potentially affected in Council

The following table covers a number of risks already identified and discussed in this report and its attachments. However, it seeks to consolidate these for the sake of ease.

NOTE: Risks to consider could include			
Staff/Contractor Retention	Current System Unable to Cope		
Transfer of Contracted Services	Scope of Agency Service - continuing / picking up for e.g. stormwater [and / or wastewater]		
Maintaining Good Quality Assets	Different Local Approaches - to regional neighbours may reduce the economies of scale making regional water solutions more expensive.		
Stranded Overheads	Unreasonable Economic Influence - from existing industry players		
Loss of Customer Experience	Asset Valuation - returning a much different value than expected affecting Council's financial position		
Resistance to Change	Deferred Decision Making - development projects to stall.		
Speed of change – an increase in mistakes	Community Uncertainty - owners continue to call Council delays in resolving faults.		
Lack of Business Confidence	Existing Contract Liabilities - Council may be liable for compensation if contractors take legal action.		
Transition Team – would help but will require resourcing. Staff workloads	Liability for Environmental Damage - Lack of clarity for monitoring environmental impacts may expose Council to liabilities		
Limited Transfer of Water Debt – reserve funds collected for water related services affecting Council's financial position.	Loss of Asset Management Systems & Data - unclear responsibilities - loss of data or failure of systems affecting continuity of service delivery.		
Development / Financial Contribution Refunds - may affect Council's charges linked to debt (including the possibility of refunds).	Impact on Bylaws		
Poor Transition Management - cause delays and confusion over responsibility exposing Council to liabilities and affecting continuity of service delivery			

1.1.1

Council decision making and consultation

- 1. Part 6 of the LGA, sections 76 to 90, provide the requirements for decision making and consultation, including the principles of consultation and information that needs to be provided including the reasons for the proposal and the reasonably practicable options.
- 2. In particular, section 76 requires that in making a significant decision, which a decision on the future management and or ownership of three waters assets will be, councils must comply with the decision-making provisions. This is a 'higher bar' than the "promote compliance with" that applies for ordinary decisions.
- 3. Section 77 states that councils must seek to identify all reasonably practicable options and then assess the advantages and disadvantages of each option.
- 4. Section 78 requires that in the course of making a decision a Council must consider community views, but section 78(3) explicitly says that consideration of community views does not require consultation, which is reinforced by case law.
- 5. Section 79 gives Council discretion to decide how the above Part 6 requirements are met including the extent of analysis done etc. Therefore, while a decision could be challenged, a judicial review is unlikely to be successful unless the decision made by council was manifestly unreasonable, the process was flawed or the decision was beyond its powers (as given in law, i.e. the council did not act within the law).
- However, despite section 79 of the LGA, a decision to transfer the ownership or control of a strategic asset from the council (or to it) must explicitly be provided for in the council's Long Term Plan (and have been consulted on specifically in its consultation document).
- 7. Council's existing LTP and the consultation information and process used to develop it will not suffice to meet this test, as Council did not itself have adequate information on the options and the implications earlier this year when it consulted on the LTP. An LTP amendment and commensurate consultation process on the ownership and governance arrangements and asset transfers proposed would be necessary.
- 8. There are also provisions in the LGA that relate to unlawful decisions to sell or dispose of assets, which can be investigated by the Auditor-General.¹¹
- A decision to opt-out would also be affected by the consultation and decision-making requirements set out in this report, including the need to follow a robust process that could survive a judicial review, as well as make a final decision that was not manifestly unreasonable in the circumstances.
- 10. Given the Government's
 - 8 week period of engagement with mana whenua and councils
 - commitment to explore issues such as council and community influence of service outcomes, integration with other reform proposals, spatial and local planning
 - request for councils to give feedback on the proposal, identify issues and solutions
 - and uncertainty around next steps, including whether the reform may become mandatory or legislative change will remove legal barriers to opting in

it would be premature to make a decision to opt out of the reform process and may expose the Council to litigation risk.

11. A Government Bill to progress the reforms could address the issues raised above, for example removing the section 130 requirements has explicitly been raised.

¹¹ See sections 43 to 47 of the LGA.

- 12. At this stage no decision is required on future delivery arrangements. Based on the analysis in this report, Council should wait until it has further information before consulting on and/or making a decision on the Government's proposal.
- 13. It is recommended that the Council therefore notes the options canvassed in this report, the high-level analysis of them and the information and decisions that are yet to be made.
- 14. If reform is not made mandatory, to ensure sufficient information is available to meet the moral and legal requirements of Council decision-making staff will further develop the analysis of options (based on further information from the Government, advice on next steps, and regional discussions) prior to Council decision making and consultation on future water services delivery. Whether this is ultimately required will be dependent on where the Government gets to with the reform process and the decisions it makes after 30 September 2021.

Information that the Council requires or potential solutions to outstanding issues that it would like to convey to Government and LGNZ

- 1. There are still several issues that need to be resolved, including:
 - the final boundaries
 - protections from privatisation
 - consultation with mana whenua and communities
 - how will community voice be heard and what influence will local authorities have (and what can the community realistically expect the council to influence particularly if it is not on the regional Representation Group)
 - representation from and on behalf of mana whenua
 - integration with other local government reform processes
 - integration with spatial and local planning processes and growth
 - prioritisation of investment
 - workforce and capability we don't have enough of the right people now to deliver three waters and we need to retain our people through the transition
 - what will a Government Bill cover and whether the reform will be mandatory?
 - conditions associated with the Government's package of funding for local government
 - transition arrangements, including our own workforce challenges (without transition challenges on top) and due diligence for asset transfers etc.
- 2. Council is invited to discuss whether there are specific information needs, issues or solutions that the Council would like staff to convey to the DIA or LGNZ.

Conclusion

 While there is uncertainty about the future steps in the Government's reform proposal, and current legislative impediments to it, the eight-week period that is currently underway gives Council the opportunity to understand the information it has received (and will continue to receive) from the RFI and modelling processes.

- 2. It also provides an opportunity for Council to understand its potential options, including the financial, workforce and sustainability impacts for Council and the wider economic, social and cultural implications of each option, using the guidance that has been issued. It also provides an opportunity to engage in discussions with other councils in its entity grouping, share information and ask questions and propose solutions to issues it sees to Government and LGNZ.
- 3. All of this information will be useful to inform future decision making by both council and Government and consultation and engagement with mana whenua and communities.

Decision making compliance statements

Significance

The future of water services delivery is a significant issue. This report however does not commit Council to a decision relating to that reform. Instead it provides initial analysis of the reform proposals for Council's information and highlights the uncertainties around information and next steps. As such it is considered that this report does not meet the threshold for significance under Council's significance and engagement policy.

Risks / Legal and Financial implications

Significant risks, legal responsibility and financial implications have been identified in analysing the reform proposals and completing an analysis of options over recent months. However, there is no decision required, other than to note those issues and to request further information from Government if Council wishes to, to reduce the risks and implications to Council and its communities

Te Tiriti/Treaty of Waitangi and involvement of Māori in decision making considerations

The issues covered in this paper are important for Māori. The Crown is currently leading the engagement with iwi/Māori, mana whenua. Council has also been engaging with local and regional mana whenua through the Otago and Southland collaboration since the proposed reforms were announced.

Engagement and Consultation

Council is not required to consult at this time as provided for in '*Council decision making and consultation*' section of this report. Further advice regarding any future consultation requirements will be provided after September 2021. In the interim Council has undertaken a programme of information-sharing with its community based on what it knows at various milestones throughout the discussion with central government.

Attachment 1 - 2020 Background (including Taumata Arowai information and Indicative Reform Programme)

In July 2020, the Government launched the Three Waters Reform Programme to reform local government three waters service delivery arrangements, with the following objectives:

- improve the safety, quality, and environmental performance of water services
- ensure all New Zealanders have access to affordable three waters services
- move the supply of three waters services to a more financially sustainable footing, and address
 the affordability and capability challenges that currentlyexist in the sector
- improve transparency about, and accountability for, the delivery and costs of three waters services
- improve the coordination of resources and unlock opportunities to consider NewZealand's water infrastructure needs at a larger scale and alongside wider infrastructure and development needs
- increase the resilience of three waters service provision to both short and long-term risks and events, particularly climate change and natural hazards
- provide mechanisms for enabling iwi/Māori rights and interests.

The 2020 indicative timetable for the full reform programme is provided below. It was always subject to change as the reforms progressed, future Government budget decisions and Councils were advised that any further tranches of funding would be at the discretion of the Government and may depend on progress against reform objectives.



Also in July 2020 the Government announced an initial funding package of \$761 million to provide a post COVID-19 stimulus to maintain and improve water three waters infrastructure, support a three-year programme of reform of local government water service delivery arrangements (reform programme), and support the establishment of Taumata Arowai, the new Waters Services Regulator.

Following initial reports (that used publicly available council information) from the Water Industry Commission for Scotland (WICS), between October 2020 and February 2021, (all) 67 councils participated in the Government's Request for Information (RFI) on council's three waters assets, including future investment requirements. In return they received what was known as Tranche 1 stimulus funding (under a MoU and funding agreements with Government) for operating or capital expenditure that supported the reform objectives, economic recovery through job creation and maintaining, increasing and/or accelerating investment in core water infrastructure delivery, renewals and maintenance.

In line with Government policy, Taumata Arowai became a new Crown entity in March 2021 and will become the dedicated water services regulator when the Water Services Bill passes, expected to be in the second half of 2021 (the Select Committee is dure to report back on 11 August 2021). They will oversee and administer, and enforce a new, expanded and strengthened drinking-water regulatory system, to ensure all New Zealand communities have access to safe drinking water. They will also provide oversight of the regulation, management, and environmental performance of wastewater and storm-water networks, including promoting public understanding of that performance.

An overview of local authority obligations under the Bill is provided below. The Bill provides for a range of compliance and enforcement tools including compliance orders, enforceable undertakings, infringement offences, and criminal proceedings, which can be taken against council officers (but not elected officials).

Taumata Arowai will have the authority to prepare standards and rules that water suppliers (such as councils) must comply with. Their initial working drafts are available online¹² and are currently being updated. Consultation will occur later this year. Guidance to support the operational compliance rules is also being developed and will be available when the rules are consulted on.

It is anticipated that monitoring, compliance and enforcement of standards will increase substantially on the status quo with the passing of the Water Services Bill and as Taumata Arowai begins to operate. It is also likely that the drinking water standards and their coverage (including non-Council water suppliers) and environmental standards will become more rigorous over time. This creates risks for council in meeting future standards and mana whenua and community aspirations (such as greater investment required than currently planned, risk of enforcement action).

¹² www.taumataarowai.govt.nz/for-water-suppliers/

Water Services Bill obligations of local authorities

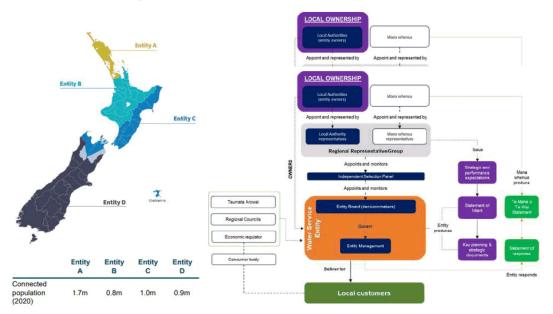
Table 2 from https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/transforming-the-system-for-delivering-three-waters-services-the-case- for-change-and-summary-of-proposals-30-june-2021.pdf

Local authorities as suppliers of water services	General obligations of local authorities
 Duty to provide safe drinking water and meet drinking water standards, and clear obligations to act when water is not safe or fails to meet standards Key provisions include: Suppliers need to register with Taumata Arowai Local authority suppliers will need a drinking water safety plan and a source water risk management plan Water suppliers must give effect to Te Mana o te Wai Taumata Arowai will have significant compliance and enforcement powers, including powers to direct suppliers and enter into enforceable undertakings with suppliers Officers, employees and agents of suppliers will have a duty to exercise professional due diligence Complying with these new requirements is expected to require significant capital and operating expenditure by local authorities (including paying levies to Taumata Arowai for operation of the regulatory system) 	 Local authorities will have a duty to ensure communities have access to drinking water if existing suppliers face significant problems in complying with drinking water standards including: Requirements to work with suppliers and consumers to identify solutions Intervention responsibilities if a supplier is unable to meet standards, including potentially taking over management and operations of private or community supplies In rural communities, this could represent a significant risk (contingent liability) for local authorities Local authorities will be required to make assessments of drinking water, wastewater and sanitary services to ensure communities have access to safe drinking water Local authorities will need to assess drinking water services available to communities at least once every three years, including private and community supplies)

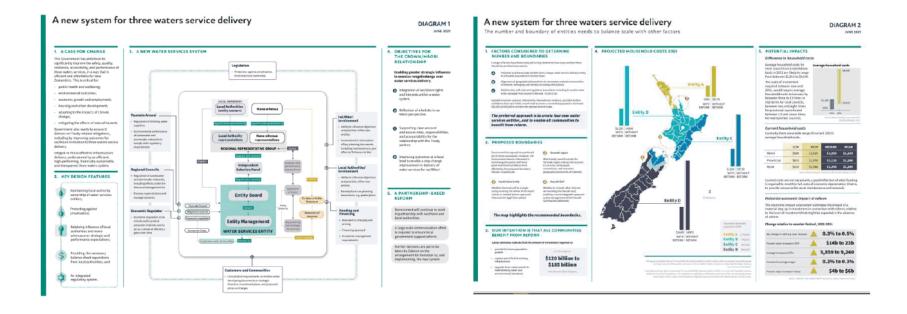
Attachment 2 - the Government's conclusion that the case for change has been made

- The modelling has indicated a likely range for future investment requirements at a national level in the order of \$120 billion to \$185 billion, an average household cost for most councils on a standalone basis to be between \$1910 and \$8690 by 2051.
- 2. It also estimated these average household costs could be reduced to between \$800 and \$1640 per household and efficiencies in the range of 45% over 15-30 years if the reform process went ahead.
- 3. The efficiencies noted are underpinned by evidence across a range of countries based on joined up networks (the conclusion is that 600,000 to 800,000 connections achieve scale and efficiency), greater borrowing capability and improved access to markets, procurement efficiencies, smarter asst management and strategic planning for investment, a more predictable pipeline and strengthened benchmarked performance, governance and workforce capabilities.
- 4. The briefing to the Minister notes that this "investment is what WICS has estimated is necessary for New Zealand to meet current United Kingdom levels of compliance with EU standards over the next 30 years, which in its assessment (and confirmed by Beca) are broadly comparable with equivalent New Zealand standards.".
- 5. However, this is caveated as a conservative estimate that does not take into account iwi goals and aspirations, higher environmental standards or performance standards that are anticipated in future legislation, uncertainties in asset lives, seismic and resilience risk, supply chain issues, and the current workload to manage and deliver improvements as well as address renewal backlogs.
- 6. For councils with non-council drinking water suppliers in their areas there is additional risk if they are unable to consistently provide safe drinking water to their consumers, including the potential for council to have to take on the water supply. Council operating on expired consents or with consent renewals in the next 15 years also face uncertainty over the standards they will need to meet in the future and therefore the level of investment that needs to occur.
- 7. Councils could also add to the above list of uncertainties and challenges their business as usual workload, the workload associated with delivering on stimulus packages and associated with responding to other government reform initiatives such as reform of the Resource Management Act, and general workforce retention and attraction issues, which are exacerbated by public sector competition for talent and skills.
- 8. The modelling indicated that between one and four water services entities would provide the most efficiencies and reduce costs to individual households.
- 9. When this is added to:
 - known variations across the nation in water suppliers' compliance with drinking standards, including permanent and temporary boil water notices
 - evidence of poor health and environmental outcomes, including expired resource consents for wastewater treatment plants (and the need for 110 of these plants to go through the resource consenting process in the next 10 years)
 - stormwater overflows and other challenges
 - climate change
 - Te Tiriti obligations and the need to uphold Te Mana o te Wai
 - the size and scale of current service delivery units and workforce issues

- the obligations and responsibilities that councils (and other water suppliers) will face when the Water Services Bill and associated regulations are enacted the Government has concluded that the status quo is not sustainable and that the <u>case for change</u> has been made.
- 10. The four entities and their proposed boundaries (which may yet change) and the proposed structure for the system are as follows:



Attachment 3 - DIA two-page summary



Attachment 4 - LGNZ two-page summary



Attachment 5 - funding to invest in the future of local government and community wellbeing

- 1. On 15 July, in partnership with LGNZ under a Heads of Agreement¹³, the Government announced a package of \$2.5 billion to support councils to transition to the new water entities and to invest in community wellbeing.
- The 'better off' element: an investment of \$2 billion into the future for local government and community wellbeing.
 - The investment is funded \$1 billion from the Crown and \$1 billion from the new Water Services Entities. \$500 million will be available from 1 July 2022. The funding has been allocated to territorial authorities (which includes unitary authorities)¹⁴ on the basis of a national formula that takes into account population, relative deprivation and land area.
 - The funding can be used to support the delivery of local wellbeing outcomes associated with climate change and resilience, housing and local placemaking, and there is an expectation that councils will engage with iwi/Māori in determining how to use their funding allocation.
- 3. The 'no council worse off' element: an allocation of up to around \$500 million to ensure that no local authority is in a materially worse position financially to continue to provide services to its community as a direct result of the reform.
 - This element is intended to ensure the financial sustainability of councils and address reasonable costs and financial impacts associated with the transfer of assets, liabilities and revenues to new water services entities.
 - Up to \$250 million is available to meet the unavoidable costs of stranded overheads and the remainder for other adverse impacts on financial sustainability of territorial authorities (including future borrowing capacity).
 - Of this \$250 up to \$50 million is allocated to Auckland, Christchurch and Wellington Water councils, the remainder is available to other councils.¹⁵ This funding is not available until July 2024 and is funded by the Water Services Entities.
- 4. Council's funding allocation is \$19,212,526.
- 5. The package is in addition to the \$296 million announced in Budget 2021 to assist with the costs of transitioning to the new three waters arrangements. The Government will "meet the reasonable costs associated with the transfer of assets, liabilities and revenue to new water services entities, including staff involvement in working with the establishment entities and transition unit, and provision for reasonable legal, accounting and audit costs."¹⁶
- 6. The Government is also encouraging councils to use accumulated cash reserves associated with water infrastructure for this purpose. There are likely to be practical limitations on a council's ability to do this set by councils' own financial strategy and policies (including conditions on the use of the reserves i.e. targeted reserve funds must be used for the purpose they were collected for in the first instance e.g. if collected forcapital works).

¹⁶ 15 July 2021 FAQ https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform- programme/\$file/three-watersreform-programme-support-package-information-and-frequently-asked- questions.pdf



¹³ <u>https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/heads-of-agreement-partnering-commitment-to-support-three-waters-service-delivery-reform.pdf</u>

¹⁴ Please note that any allocation to Greater Wellington Regional Council (the only regional council affected bythe proposed changes) is not clear at this stage.

¹⁵ Due to their size and in the case of Wellington Water and Auckland's WaterCare having already transferred water service responsibilities (to varying degrees).

8. The proposed national allocations are as follows:

Council	Allocation
Auckland	\$ 508,567,550
Ashburton	\$ 16,759,091
Buller	\$ 14,009,497
Carterton	\$ 6,797,415
Central Hawke's Bay	\$ 11,339,488
Central Otago	\$ 12,835,059
Chatham Islands	\$ 8,821,612
Christchurch	\$ 122,422,394
Clutha	\$ 13,091,148
Dunedin	\$ 46,171,585
Far North	\$ 35,175,304
Gisborne	\$ 28,829,538
Gore	\$ 9,153,141
Grey	\$ 11,939,228
Hamilton	\$ 58,605,366
Hastings	\$ 34,885,508
Hauraki	\$ 15,124,992
Horowhenua	\$ 19,945,132
Hurunui	\$ 10,682,254
Invercargill	\$ 23,112,322
Kaikoura	\$ 6,210,668
Kaipara	\$ 16,141,395
Kapiti Coast	\$ 21,051,824
Kawerau	\$ 17,270,505
Lower Hutt	\$ 38,718,543
Mackenzie	\$ 6,195,404
Manawatu	\$ 15,054,610
Marlborough	\$ 23,038,482
Masterton	\$ 15,528,465
Matamata-Piako	\$ 17,271,819
Napier	\$ 25,823,785
Nelson	\$ 20,715,034
New Plymouth	\$ 31,586,541
Opotiki	\$ 18,715,493
Otorohanga	\$ 10,647,671
Palmerston North	\$ 32,630,589
Porirua	\$ 25,048,405
Queenstown Lakes	\$ 16,125,708
Rangitikei	\$ 13,317,834
Rotorua Lakes	\$ 32,193,519
	The second se

Selwyn	\$	22,353,728
South Taranaki	\$	18,196,605
South Waikato	\$	18,564,602
South Wairarapa	\$	7,501,228
Southland	\$	19,212,526
Stratford	\$	10,269,524
Tararua	\$	15,185,454
Tasman	\$	22,542,967
Taupo	s	19,736,070
Tauranga	S	48,405,014
Thames-Coromandel	s	16,196,086
Timaru	\$	19,899,379
Upper Hutt	\$	18,054,621
Waikato	\$	31,531,126
Waimakariri	\$	22,178,799
Waimate	\$	9,680,575
Waipa	\$	20,975,278
Wairoa	s	18,624,910
Waitaki	S	14,837,062
Waitomo	\$	14,181,798
Wellington	S	66,820,722
Western Bay of Plenty	S	21,377,135
Westland	S	11,150,183
Whakatane	S	22,657,555
Whanganui	S	23,921,616
Whangarei	s	37.928.327
	-	

Attachment 6 - Transition

- 1. Consideration is being given to establishing a national transition unit and local establishment entities mirroring the boundaries of the (proposed) Water Services Entities and supporting, through a reprioritisation of stimulus funding if required, council staff costs related to reform and transition, enabling staff to participate in transition priority working groups, gathering and sharing data.
- 2. Current considerations, in addition to funding for backfilling and / preparing for change, are:
 - support for three waters workers including:
 - if a staff members role is primarily three waters related, an automatic transfer to the new Water Services Entity in a similar role on the same salary at the same location with the same conditions
 - advice, including Employee Assistance Programmes, legal and union representation
 - the need to increase staffing levels to implement the transition, continue business as usual and deliver current and increased infrastructure investment
 - staff and contractor retention in a time of uncertainty (and competition for resources)
 - the speed of change and the risk of mistakes and service interruptions
 - stranded overheads and the no worse off element of the funding package
 - asset transfers and valuations
 - existing contracts and contractors and any residual liabilities
 - development and financial contributions
- 3. What isn't clear (but will be worked through) is:
 - where the bulk of managerial and support staff (e.g. communications, financial, asset management) will be located, although the presumption is that they will be (at least notionally in post COVID flexible working world) located in the regional headquarters of the Water Services Entities
 - what the principles and any threshold would be for a staff member that does some three waters related work (say 50% of their time) and whether it would be their choice to move to the Water Services Entity and the implications for their employment situation
 - if all three water services are included and will transfer at the same time

Appendix A - Regional situation analysis



Regional situation analysis

Otago-Southland three waters office

February 2021

















Document status

Job #	Version	Approving Director	Date
2578	1	D. Bonifant	22/2/2021

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Contents

Executive summary	1
Introduction	3
Findings	4
Size and scale	4
Relative size of the combined regions	4
Connection density	5
Connected population	7
Investment needs	8
Renewals vs depreciation	8
Future renewals investment	10
Ten year investment need	10
Financial position	11
Cost coverage	11
Impact on operating costs	12
Revenue per connection	12
Debt	14
Capital works delivery	15
Levels of service measures	16
Water Supply	16
Wastewater	18
Wastewater consents	19
Current state of assets	20

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Executive summary

This regional situation analysis was carried out based on analysis of the eight territorial authorities' responses to a recent Request for Information (RFIs) by the Department of Internal Affairs, asset registers and infrastructure strategies.

The report provides commentary of the aggregated situation across the combined Otago and Southland regions. It is the first report prepared by Morrison Low as part of the Otago Southland Three Waters Review. Even in this initial high level review there are some consistent themes emerging around:

- Scale of the three waters challenge
 - The future investment required to meet the changing regulatory requirement means the ten year Capital Investment Programme for three waters has more than doubled from that within the 2018 LTP.
 - The combined 2018 LTP programmes were \$1.2 billion
 - The combined 2021 LTP programmes are now \$2.3 billion
 - Morrison Low's estimate of the required investment programme over the same timeframe is \$2.7 billion
 - We note that the 'unconstrained' ten year programme from the RFI was \$4.6 billion
 - The RFIs identify a combined ten year renewal programme of \$1.1 billion. However, our estimate of the renewal requirement over that period is \$1.5 billion meaning that the existing forecasts are, in our view, understated
 - Funding this level of investment would push the collective three waters debt from its current position of 215% to over 400% of three waters' revenue by 2031. That far exceeds the Local Government Funding Agency limits of 280%.
 - The future renewal requirement is not a 'bow wave' as has previously been described. It is sustained over at least the next 20 years. We estimate the projected renewal requirements for years 10 20 at \$950 million.
 - The combined population of Otago and Southland is less than that of Christchurch and it is spread over a vast area. Previous work by Morrison Low as well as analysis by the Water Industry Commission for Scotland has demonstrated the correlation between impact of future investment requirements and population density. Put simply, rural areas can be expected to cost more, on a per ratepayer basis, than denser more urban areas.
 - Our initial analysis of the potential future costs of three waters services ('average charge') across the region is that it is estimated to more than double over the next ten years from \$1,300 to an estimate of almost \$3,000 (uninflated). However, this figure is likely to change and increase, as further analysis is undertaken including changes in operating costs which have a direct impact on the cost of services. Also, under the current approach this impact will not fall equally across the region as each council will be different and some will be significantly higher than that.
- Risks associated with three waters services, assets and the current approach
 - The data available around three waters is starting to show that New Zealand, including Otago Southland, has historically under invested in three waters. While forecasts for future investment are projected to change that, the speed with which new investment requirements are changing is itself a risk.

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- While it is unlikely that the unconstrained view presents a realistic picture of the required investment, the fact that it exists and is double the LTP forecasts indicates the risk that the investment required is greater than currently projected by the Councils.
- Increasing service levels and compliance requirements are driving investment into systems, processes, resources and infrastructure. Our initial view is that it is unlikely that all councils in the regions have sufficiently allowed for the increased operating costs that these will create. The risk is that the cost increases currently projected by the Councils will be greater than forecast.
- There are compliance risks in the current system. Thirty five percent (35%) of the regions drinking water (by volume) does not meet protozoa requirements of the Drinking Water Standards. These need to be addressed.
- 17% of the resource consents for wastewater treatment in the region have already expired, and a further 12% are due to expire within the next 5 years, this creates a legal, regulatory and financial risk for the region.
- Eighty two percent (82%) of the three waters pipe network across Otago and Southland is in an unknown condition. This is a significant portion of the network and as a result there must therefore be uncertainty about the future investment requirements and risks that these could be greater than estimated.
- There is a risk that under a status quo approach the future cost of three waters services that comply with the increased standards could be unaffordable in some communities.
- There is a risk around deliverability of the increased infrastructure programmes. The Otago and Southland Councils, like most New Zealand councils, have generally struggled to deliver their capital programmes each year. Yet, the forecast investment required in three waters for the eight councils will more than double from \$101M in 2020 to an average of \$230M per annum each year over the next ten years. There is a real risk that this is not able to be achieved.

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Introduction

This report forms part of a suite of reports commissioned by the Otago Southland Three Waters Office to explore the impacts of the Government's proposed reform of three waters service delivery.

This report provides a high-level summary of the current three waters service delivery arrangements for councils in the combined. Otago and Southland regions (the region). It highlights the size and scale, cost, balance sheet and investment, and service delivery challenges facing the region but does not seek to highlight the performance of any individual councils within the region.

It is intended that this report will provide local government decision makers with some of the core information that will be needed to understand what a three waters service delivery looks like at the Otago and Southland level. This report is predominantly a simple aggregate of the region's information and does not consider whether there are opportunities for efficiencies or the impact of any such efficiencies on regional investment requirements. Further reports providing that analysis will follow

In addition, we note that:

- This report presents high level analysis based on data included in RFIs submitted to the Department of Internal Affairs (DIA). Due to time constraints this means that while some clarification has been sought where information appears to be obviously wrong, the reliability of this data may differ between councils. For instance, we have not made any adjustment to information that was assigned a low confidence grade in the RFI.
- All analysis and discussion is at the Otago and Southland combined region level. Future reports will consider the information and issues at the individual council level.
- This analysis is subject to detailed modelling (including consideration of potential operational and investment related efficiencies).

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Findings

This report has been structured to follow a logical progression that highlights the key challenges and opportunities facing the region. Analysis has been specifically focussed on matters which are able to clearly demonstrate the risks, issues and challenges for the region and can be easily understood without the need for comparison to individual council performance.

In particular the report addresses the following:

- The size and scale of the region, which is relevant when considering the potential for efficiencies from scale and scope.
- The future investment needs, which is relevant as a significant driver of future cost within the region.
- The financial position of the region, which provides additional information about potential future affordability issues facing the region.
- The ability of the region to deliver its capital works programme.
- The current levels of service provided across the region, which is relevant as a driver of future cost and exposure to operational risk.
- The current state of assets in the region which highlights some of the potential risks with the information set that has been used, and the age and condition of the regions' assets.

Size and scale

One of the main arguments for reform of three waters service delivery in New Zealand is that councils do not individually have sufficient scale and capacity to be able to sustainably address the challenges that are facing the sector. Through various studies into international best practice, DIA has indicated that, in its view, aggregation of water services delivery is needed to address these issues.

Understanding the size and scale of the region is critical in understanding whether the region would achieve the objectives of service delivery reform on its own.

Relative size of the combined regions

The region accounts for almost a quarter of New Zealand's total land mass yet accounts for only 7% of its population. While a significant portion of this land mass is in National Parks and is therefore not likely to ever be supplied with drinking water or wastewater, the low relative population density creates significant challenges for water service delivery in the regions.

The region has 70 water treatment plants and 68 wastewater treatment plants. There is 8,719 km of water pipe network, and 2,886 km of wastewater pipe network. The size of the network and number of plants in and of itself creates challenges.

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				Wornsonedw
	Otago-Southland	Christchurch	New Zealand	Otago-Southland % of NZ
Population ¹	324,405	369,006	4,699,755	7%
Geographic size (Km²)	66,601	1,415	268,021	25%
Population per square kilometre	4.8	260.8	17.5	

In their report² commissioned by DIA the Water Industry Commission for Scotland (WICS), noted that in Great Britain, there is a strong correlation between future investment requirements and urbanisation/population density. The same trend has been observed by Morrison Low in prior three waters studies in New Zealand. More rural areas are typically expected to cost more, on a per head basis, than denser, more urban areas.

Population is less than Christchurch

The region would have a customer/ratepayer bases that is

approximately 10% smaller than Christchurch City yet would service a

geographic area that is over 45 times larger. Of that population, 39% is in Dunedin and 51% in Dunedin and Queenstown.

This difference in size and scale is likely to be reflected, over time, through increasing costs on water customers within the Otago-Southland region.

Connection density

Connection density can be an important driver of cost on a per head basis.

Councils with a lower number of connections per kilometre of pipe are likely to face increased costs per connection, particularly when it comes to the renewal and depreciation of those assets. Low connection density

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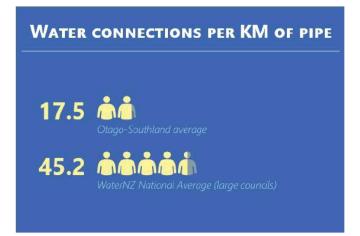
7.4 Attachment A

^{1 2018} Census

² Water industry Commission for Scotland, Economic Analysis of water services aggregation (https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/Economic-analysis-of-water-servicesaggregation-Stage-One-Report.pdf)

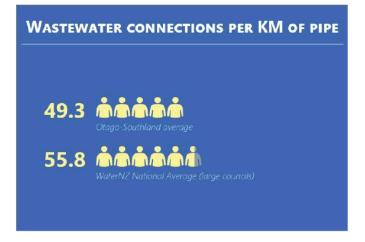


The region would have substantially less connections per kilometre of pipe than the average large council in the Water New Zealand National Performance review. In fact connection density would also be lower than the average of small councils within that study who have an average connection density of 22.69 connections per kilometre. There is also significant variation in connection density, with two councils having less than ten water connections per kilometre of pipe.



Wastewater similarly has less connections per kilometre of pipe than the average for large councils in the Water NZ National Performance Review, however connection density is much higher than it is for drinking water, and there is significantly less variation in connection density across the region.

While there are a similar number of total connections to water and wastewater in the regions (141,000 vs 134,000) reticulated wastewater services are typically less likely to be provided to rural communities, and this is represented in the increased connection density. Based on comparing this data it appears that the region has approximately 6,000 kilometres of water pipes servicing around 7,000 people at a connection density approaching 1 connection per kilometre.



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Connected population

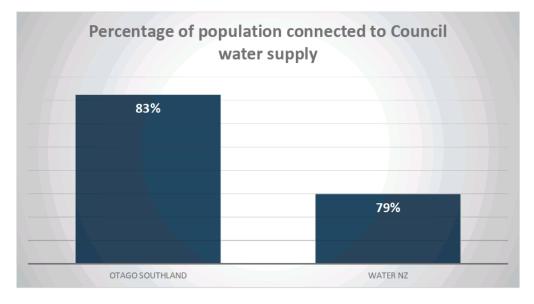
The WICS report on three water reform in New Zealand highlights that New Zealand does not have a particularly high proportion of its population connected to water services, with some councils having as low as 35% of their population connected, and 13 councils having less than two thirds of their population connected to water services.

While the WICS report does not go so far as to suggest that higher connection rates may create operating efficiencies, it does state that, from a regulatory perspective at least, it is desirable to have a high rate of connection to ensure consistent levels of service. We



note that the Water Services Bill treats all water suppliers equally and requires all suppliers to meet drinking water standards.

Low connection rates may also be indicative of a larger number of private water schemes (i.e. privately owned or operated schemes that service multiple properties), or simply a large number of rural properties connected to private supplies (i.e. tanks or bores which service a single property). With increasing regulatory requirements and the enforcement of drinking water standards, private water schemes may pose a significant financial risk for councils who under legislation can, in certain circumstances, be required to provide the service. The 2019 Register of Drinking Water Suppliers of New Zealand lists 44 non-council drinking water supplier in the region, with the majority of these servicing between 25 – 100 properties.



Connection rates in the combined regions (83% connected) are typically on par with New Zealand in general (79% connected), with only one council having indicated that less than 66% of their population is connected to drinking water services. Connection rates for wastewater services are broadly similar, though slightly lower than drinking water, a trend which is consistent with Water NZ's national performance review data.

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It is possible that the percentage of connected population in some of the regions in Otago-Southland is understated due to the classification of farm properties, and the presence of multiple dwellings on some farm sites.

Investment needs

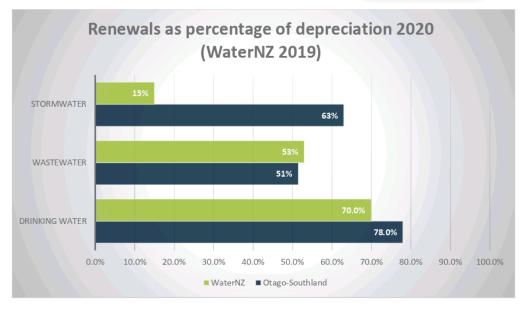
Investment in infrastructure is the most dominant driver of costs for the delivery of three water services in the region, and nationally. There is growing evidence, cited by DIA, WICS, the Office of the Auditor General and in work undertaken by Morrison Low, that the local government sector, and three waters services particularly, requires significant investment in infrastructure over the next 30 years.

This section of the report outlines the future investment requirements for the region, and the impact that those requirements may have on future water charges.

Renewals vs depreciation

Comparison of the 2020 expenditure across the region shows an average renewal ratio across the three waters of 77%. While a single year view is not appropriate for long run assets, this figure is consistent with what we would expect to find. It also outperforms the New Zealand average taken from the WaterNZ performance review. It is however, below the level that is typically referenced as being required to maintain service levels.

Regional and national under investment in renewals

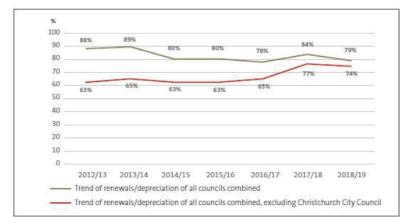


There is growing evidence of under investment in three waters infrastructure across New Zealand. In 2018 we undertook a desktop analysis of council LTPs across New Zealand for the Department of Internal Affairs. In that project we identified that, on average, councils in New Zealand were only spending around 78% of their depreciation funding on renewals. Similar concerns have been expressed by the Office of the Auditor

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General for a number of years, most recently in their report, *Insights into local government: 2019* which presented historical data showing underinvestment in renewals since 2012/13.



Source: Office of the Auditor General, Insights into Local Government: 2019 (retrieved from https://oag.parliament.nz/2020/local-govt/part1.htm on <a href="https://oag.parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/pa

We note that, in their report for DIA, WICS refers to a capital maintenance ratio which we understand includes maintenance of assets and renewals, with the same 100% benchmark. Water and wastewater exceeded this metric in 2020 in the region, but some individual councils fell substantially below. Stormwater was still seeing underinvestment using this metric.

Despite an almost doubling in residential construction GDP in the last ten years, horizontal infrastructure investment has barely increased at all – this is indicative of under-investment in horizontal infrastructure across the country (particularly in growth assets). It may also be inferred that as new residential subdivision is almost certainly receiving council services, investment in servicing growth may have impacted the ability to invest in renewals and level of service improvements.

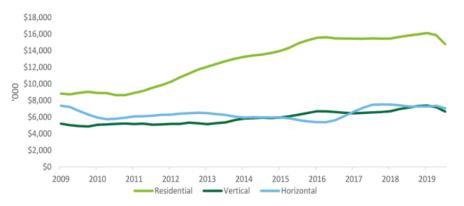


Chart 1 Construction sector GDP (E) (real terms), \$'000

Source: Deloitte: "A better way forward. Building the road to recovery together: Construction sector COVID-19 recovery study" January 2021.

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Future renewals investment

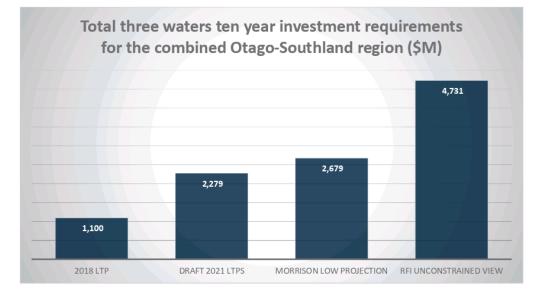
\$1.5Bn of three waters renewals required within ten years

A review of asset registers indicates that, based on the remaining useful life of assets and known asset condition, the combined regions require approximately \$1.5 billion of renewals work during the next ten years. The combined RFIs outlined plans to invest in \$1.1 billion during the same time period. This figure is in our view understated.

Ten year investment need

The combined three waters investment programme is set out below. We have presented the 2018 LTP projections, the draft 2021 LTP projections, our estimate of the 2021 LTP estimates and, for comparative purposes, the unconstrained view from the RFIs.

We acknowledged that in most cases the timing of investment under the unconstrained view is unknown and at least some of this could fall outside of the ten year period but it provides an illustration of the potential costs, and the scale of the difference highlights a risk. The scale of the difference between the 2018 and 2021 projections also highlights the scale and speed of the impact of water reform. Planned capital expenditure doubles from 2018, and doubles again in unconstrained view



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In its report *Matters arising from our audits of the 2018-28 long term plans*³ the Office of the Auditor General indicated an increase in planned capital expenditure between the 2015-25 and 2018-28 Long Term Plans of 31%. In that report it noted that achieving that level of increase would be challenging, the levels of increase suggest in the 2021 long term plans/RFIs are of an even greater scale still.

Financial position

One of the biggest challenges cited by the government, and the WICS report prepared for DIA, is the issue of long-term affordability of three water services. All councils in New Zealand are facing significant future investment requirements and increases in operating costs to be able to meet increasing regulatory standards and enforcement activities. The situation analysis demonstrates that Otago and Southland regions are facing those same challenges.

This section looks at the various financial challenges facing the combined regions.

Cost coverage

Cost coverage is the proportion of revenue that has been collected by the councils compared to the total operating costs (including depreciation) for each of the three waters activities.

Councils are required, under the Local Government Act, to maintain a balanced budget, which means that they should collect enough revenue to cover their total operating costs (including depreciation), unless it is financially prudent not to do so. While this requirement exists at a whole of council level, it does not exist for individual activities. Generally speaking, a cost coverage of less than 100% would indicate that councils are not collecting enough revenue to meet their operating costs or to fund the maintenance and replacement of existing assets⁴.



The combined Otago-Southland region collected 99% of its costs for the water activity, and 96% of its total costs for the wastewater activity in the 2020 financial year, however there was a fair degree of variation between the councils, with the lowest cost coverage for water and wastewater being 66% and 76% respectively.

That indicates that, if combined, there may need to be significant changes in the cost of services for individual councils.

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³ Retrieved from <u>https://oag.parliament.nz/2019/ltps/part3.htm</u> on 22 February 2021

⁴ In the subsequent section regarding water revenue we have projected the impact of recovering 100% of the costs for each of the water activities to align with best practice.



Impact on operating costs

\$1,300 Extra operating costs per connection under unconstrained view WICS states in their report that the addition of a new asset will add approximately \$8 of additional operating costs (relating to the financing, depreciation, and operation) for every \$100 of new capital invested. Using this measure, if the unconstrained investment were required, this would add approximately \$186 million of additional operating costs, or \$1,300 per connection uninflated, to the combined regions. This does not include any additional operating costs associated with meeting increased compliance and monitoring obligations.

Our review of RFI information has indicated that councils' revenue forecasts in the RFIs:

- Typically do not appear to include an allowance to recover the financing costs for new investment in assets
- Typically do not appear to include an allowance for the additional depreciation or operating and maintenance costs associated with planned investment
- have yet to budget for increases in operating costs in order to meet the increasing standards and regulatory framework being placed on the sector.

The first two points have been addressed in our 'Morrison Low' projection of revenue per connection. The quantum of the third point is unknown and has not been included at this stage, however our discussions with councils in the Otago Southland region to date have indicated that a significant uplift will be required in this space. We are also aware of the significant uplift in costs of water service delivery experienced by Hastings District Council following the Havelock North water incident, which we have not seen reflected in the operating budgets of councils in the Otago and Southland regions, but which may be indicative of the scale of costs that may be required to meet the new standards.

Revenue per connection

Revenue per connection has been used in this report as a proxy for the average price of water in the combined region. The analysis at individual council level has not yet been able to be completed so this measure demonstrates the potential impact on affordability.

While this is useful for demonstrating the direction of travel, or potential rates increases that the sector may face, this is not representative of the average household charge. Additionally, we note that the potential projections of revenue per connection are based solely off RFI data and therefore:



- vary in the degree to which they incorporate additional potential operating costs for the delivery of three waters services (which are not disclosed in the RFI)
- have not been adjusted to include potential increases that Morrison Low anticipates may face the sector based on its experience in water reform and engagement with the sector
- do not include the recovery of increased depreciation or financing costs for investment that has been
 outlined as being required under the individual councils "unconstrained" investment plans
- do not include any potential operating efficiencies (or increased costs) that may arise through

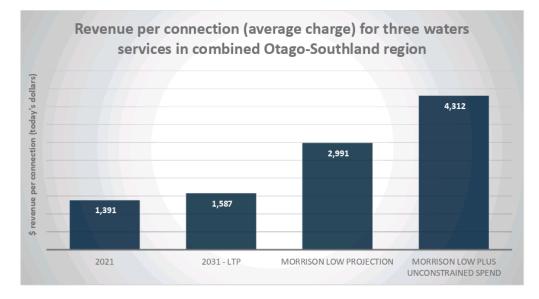
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structural reform of the delivery of three waters services in the combined regions.

Even without the above adjustments and considerations, there is a clear trajectory for water charges to increase in the combined regions to levels that are likely to create affordability challenges for some members of the community.

Councils predicted in their RFIs that per connection charges will increase by 14% (in real terms) by 2031. When this forecast has been adjusted to ensure that all operating costs (including depreciation) are fully funded, reflect the impact of a potential under-valuation of infrastructure, and include the financing and depreciation costs associated with planned infrastructure investment, the increase in real terms is projected to be closer to 115%.

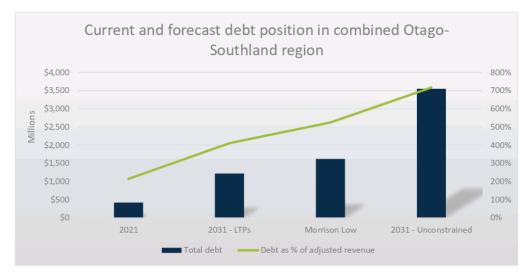


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Debt

The scale of the investment required will need to be funded by debt. That is an entirely appropriate funding mechanism for three waters infrastructure. However, the chart below shows that under each scenario the combined regions would breach the LGFA debt covenants.



Debt is forecast by councils to reach 411% of three waters revenue by 2031, with our projections showing a further increase to 525% of three waters revenue (assuming capital works are able to be delivered). Indicatively this would breach the LGFA limits (280%) as well as the Moody's limit for a Baa/Ba rating (430%).

2021 debt includes some internal borrowings which relate specifically to water (i.e. not all councils have had to borrow money externally to fund three waters to date). It would be anticipated that the majority of debt in both of the 2031 projections is, however, external.

Projected unconstrained debt assumes all potential growth and level of service related investment requirements (over and above those identified in the 2021 LTPs) would be funded by debt.

It is likely that under the unconstrained view, revenue (and therefore household bills) would be higher than under the constrained view due to increased operating costs and depreciation on new assets. This is reflected in our projections which assume that the unconstrained investment requirement will add an additional \$8 of operating costs for every \$100 of capital investment. Debt levels breach LGFA debt covenants in all scenarios

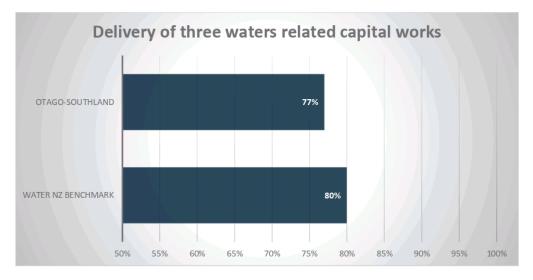
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Capital works delivery

The ability to deliver on a capital works programme may have a significant impact on debt projections, rates and operational risk. As a sector, local government in New Zealand has historically been unable to deliver its full capital works budget. As most of the debt in local government relates to investment in capital assets, failure to deliver will likely result in lower than forecast debt levels and may have significant impacts on the levels of service received by ratepayers.

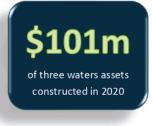
In our view there is a challenge to deliver the required infrastructure. The chart below shows that in 2020 the region delivered less than 80% of their expected programme. That is not unusual. The chart also shows that the Water NZ benchmarking study the average was only 80%.



While councils across the region have typically been unable to deliver the full extent of their budgeted capital works programmes, most councils were able to deliver over 100% of their renewals' budgets in the 2020 year. Delivery of level of service/upgrades was lower than budget across all three waters. Some of this is a classification issue, with classification of investment between renewals, levels of service and growth being particularly difficult as often investment is driven by more than one factor.

While Covid-19 and the associated lockdowns may have had an impact on capital works delivery in 2020, we note that sustained under delivery is common across local government in New Zealand.

The region collectively delivered a total of \$101M of three water infrastructure in 2020. To deliver the amount of capital works outlined in RFI forecasts would require an average of \$230M per annum for ten years. We estimate that the requirement is even greater than that. It is a significant increase and there is a risk that this cannot be delivered.



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A survey of construction companies in New Zealand showed that 70% of current suppliers are only able to increase their capacity to deliver by less than 20% - this points to a significant constraint in the market's ability to deliver which will require dedicated and careful pipeline management to enable the sector to sustainably grow and scale operations to ensure delivery.

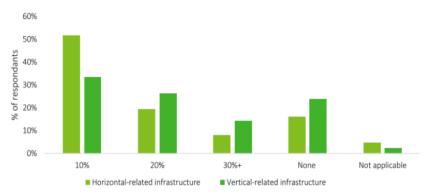


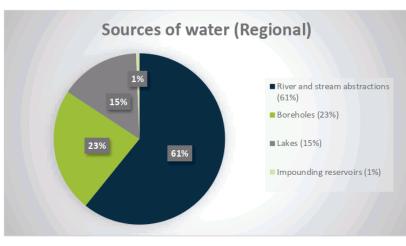
Chart 28 What is your ability to increase capacity to meet the volume of work signalled in the market for infrastructure-related construction in New Zealand?

Source: Deloitte: "A better way forward. Building the road to recovery together: Construction sector COVID-19 recovery study" January 2021.

Levels of service measures

This section explores information regarding the source, treatment type and consent status of water and wastewater treatment plants in the Otago and Southland regions.

The analysis in this section highlights that the systems already have risk and levels of service that will drive investment. That investment will be required through legislation, increased regulation, and increased enforcement.

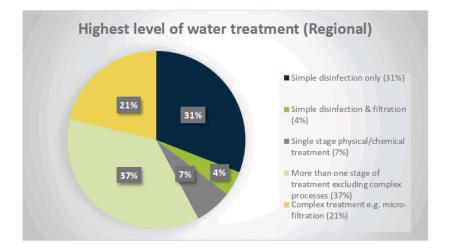


Water Supply

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The breakdown of water sources across the region shows a heavy dependence on rivers, streams and boreholes, comprising 84% of the regions water supply (based on 2019/20 data). The ability to continue to access these water supplies beyond their current consents is a key consideration in resilience planning. Many WTPs in the region are already able to draw from more than one water source, with 106 sources reported, feeding into 70 water treatment plants.



From the councils' annual reports, almost all the WTPs treating 35% of the regions' water to "Simple disinfection only" and "Simple disinfection and filtration" do not meet the protozoa requirements of the Drinking Water Standards.

Currently only two councils are fully compliant with the protozoa requirements, with the other six councils having plans to upgrade most WTPs in these two categories within the current ten year LTP period. There are approximately 35 WTPs supplying water to customers at these two levels. Overall, they are smaller plants supplying smaller communities, while the larger WTPs feeding into larger towns and cities are already compliant.

Regional risk will be from potential delays in these planned upgrades, escalation of upgrade costs, WTPs in these two categories without plans to be upgraded, and the higher operating costs of the upgraded plants. As most of the non-compliant plants are servicing smaller communities, these communities may face particularly large increases in water charges as the increased operating and capital costs are spread over a smaller base of ratepayers. Most councils in the Otago and Southland regions now charge for water using a common tariff across the district to minimise the impact on these smaller communities.

Nearly all WTPs are meeting the bacterial requirements of the Drinking Water Standards with only a few exceptions.

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Wastewater

In total, 70% of the regions' total treated effluent is discharged to the ocean, 16% to rivers and 14% to land disposal systems. Over 96% of wastewater receives secondary treatment or better before being discharged to the environment.



Compliance here relates to discharge compliance only for most councils, and not necessarily all aspects of the resource consents. Nearly all secondary and tertiary WWTPs across the region regularly produce discharges compliant with the consents they are operating under, though 27 out of 61 WWTPs reported at least one non-compliance incident in the 2019/2020 year. Issues with ongoing non-compliant discharges are limited to one or two council areas only.

While future discharge standards are not fully known at this stage, there is recognition within the sector that increasing standards are inevitable. In addition, an increasing focus in recent years on the cultural significance of water, including the embedding of *Te Mana o te Wai* within the establishment of Taumata Arowai, means that discharges to freshwater particularly are becoming less acceptable (even with tertiary treatment). While the scale of investment required to meet these changing standards is difficult to estimate, in a report commissioned by DIA in December 2019, GHD and Boffa Miskell⁵ estimated a combined investment for the regions of \$510 – 770 million would be required, with an annual operating cost impact of approximately \$23.4 – 35 million. These estimates relate to a total of 38 wastewater treatment plants in the combined regions.

GHD and Boffa Miskell – Addendum Cost estimates for upgrading wastewater treatment plants December 2019

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The average compliance of the WWTPs with primary treatment only seems very low. There are 13 schemes receiving primary treatment only across the region, though the total volume through these schemes is only 3% of the total wastewater volume.

Note there is also a very small percentage of septic tanks in use throughout the region, with three schemes accounting for approximately 0.03% of the treated loads.

Wastewater consents

Consents are required for the discharge of treated wastewater effluent into waterways and onto land, as well as odour arising from the operation of treatment plants. For the wastewater activity particularly, the resource consent application process can be both lengthy and costly. In addition, as often a significant amount of time may have passed between consents, new resource consents for wastewater treatment re often coupled with stricter regulations which reflect changing expectations.

Consents that are expiring soon, or have already expired, are therefore indicative of potential investment needs and the timing of those costs. In the Otago Southland regions 17% of the total number of wastewater consents have already expired (although some of these may not need to be replaced), with a further 28% to be replaced within ten years.

Total number of consents	116
Number expired	20 (17%)
Number with five years or less remaining	14 (12%)
Number with ten years or less remaining	19 (16%)

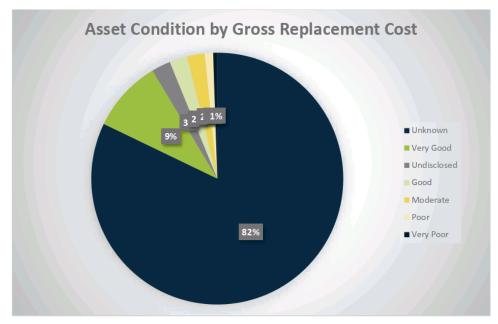
It is unclear how any new regulations or standards will be imposed on plants that already have a discharge consent however we consider that it is likely that any such standards will be applied at a specified date for all plants regardless of whether they have a current consent with less stringent criteria.

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Current state of assets

As part of this report we have reviewed the condition data aggregated at the combined region level. There are significant gaps in the data. These gaps are so significant that it is itself a finding of the report. Over 80% of the value of the three water pipe network (by value) is in an unknown condition.



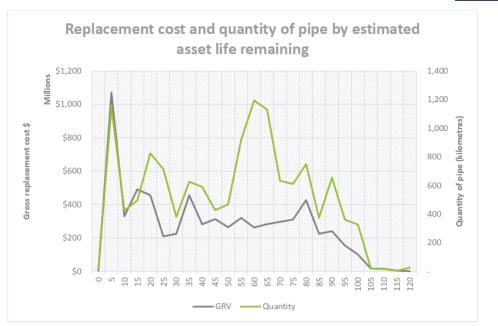
The risk arising from that is the uncertainty over the accuracy of the current forecast investment needs that creates. Condition is one of the key factors that should be considered when planning for the renewal of assets within a network, and an absence of condition data means that renewal of assets may be based on age and expected life alone.

In absence of useful condition data, we have examined the remaining useful life of pipe assets with the gross replacement cost of those same assets to estimate future renewals and investment needs. The chart below shows quantity and length of pipe based on the number of years of useful life remaining.

This indicates that approximately \$1bn of assets (1,147km) have between only one to five years life remaining with that figure increasing to \$1.4bn within next ten years. A further \$950 million of assets will need to be replaced within 20 years.

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In addition, where condition is known, there are \$68 million of assets in a poor or very poor condition that have more than 20 years of useful life remaining, but which in all likelihood will need replacing sooner. This represents 6.6% of known condition assets, which if representative of the entire network could add an additional \$444 million to assets that could be due for renewal sooner than their remaining lives would otherwise suggest.

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Appendix B - Cross regional current state



Draft pending client review

Cross-regional current state assessment

Otago-Southland three waters office

March 2021





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Contents

Executive summary						
Introduction	4					
Size and scale	6					
Relative size of the councils	6					
Connection density	8					
Connected population	9					
Investment needs	12					
Renewals vs depreciation	13					
Future renewals investment	16					
Ten year investment need	17					
Capital works delivery	20					
Financial position	23					
Average household charge	23					
Cost of treatment and distribution	24					
Cost coverage	26					
Impact on operating costs 27						
Revenue per connection 28						
Debt 30						
Levels of service measures	35					
Water supply	35					
Wastewater	42					
Stormwater	47					
People and capability	49					
Differences in valuation and depreciation	56					
Unit rates	56					
Base lives	61					
Appendix One Asset information	65					
Appendix Two Projected cost methodology	83					

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Executive summary

This current state assessment was carried out based on analysis of the eight territorial authorities' responses to a recent Request for Information (RFIs) by the Department of Internal Affairs, asset registers and infrastructure strategies.

This is the second report regarding our analysis of information provided by the councils in the Government's RFIs. The first such report focussed on the challenges and opportunities at a regional scale and remains relevant. This report follows the same structure as the regional analysis and reports findings at the territorial authority level.

This review includes councils that are located in the two neighbouring regions of Otago and Southland, and therefore covers approximately 44% of the total geographic area of the South Island, and approximately 29% of the total population of the South Island (or 7% of the national population). While both regions are unique, they also have many similarities, including being predominantly rural regions, with few large population centres.

The report highlights the many issues and opportunities facing the region for the delivery of three waters services including issues relating to potential future affordability, borrowing capacity, large capital works programmes, the need to invest to meet increasing regulatory standards and monitoring, and resource constraints.

The level of future investment across the two regions is substantial, and this is particularly well highlighted by Dunedin, whose planned infrastructure investment of \$547 million over the next ten years will see debt increase by over 150%. However, we estimate¹ that this planned investment is insufficient to meet even just their renewals need, which could be as large as \$1.2 billion for Dunedin alone.

While the absolute dollar figures for planned investment in infrastructure for the remaining councils are not typically of the same scale (as Dunedin is so large in comparison) when normalised by the number of connections in each district, Dunedin has the second lowest level of planned investment per capita. This demonstrates the challenge for smaller councils and also highlights the benefits that come with size and scale, which varies significantly within the two regions. Queenstown has forecast capital investment of more than \$30,000 per connection over the next ten years², and Central Otago, Clutha and Gore have forecast investment per connection exceeding \$15,000.

The combined population of Otago and Southland is less than that of Christchurch and it is spread over a vast area. Previous work by Morrison Low as well as analysis by the Water Industry Commission for Scotland has demonstrated the correlation between impact of future investment requirements and population density. Put simply, rural areas can be expected to cost more, on a per ratepayer basis, than denser more urban areas.

Rural councils across the region have made different decisions in the past about the level of connectivity to pursue in rural areas. This leads to councils either having larger percentages of their population not serviced by water or wastewater (or both), or councils with low connections per kilometre and consequently higher costs per capita.

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¹ Morrison Low projections are based on the constrained investment plan in RFIs with adjustments based on assessment of asset registers and estimated costs for upgrading wastewater treatment facilities

² This includes a high level of investment in growth



This leads to two issues facing the combined regions:

- Potential exposure to risk from non-council water supplies and untreated wastewater under new regulations.
- Unsustainable costs increases required to maintain and renew large asset bases to service rural communities.

Planned renewals costs across the region have increased significantly between the 2018 and 2021 LTP budgets. Future planned renewal costs are likely to accelerate upwards as renewal requirements continue to increase, and councils without significant depreciation reserves will need to fund these renewals as they arise. The future investment required to meet the changing regulatory requirement means the ten year Capital Investment Programme for three waters has more than doubled from that within the 2018 LTP.

- The combined 2018 LTP programmes were \$1.2 billion
- The combined 2021 LTP programmes are now \$2.3 billion
- Morrison Low's estimate of the required investment programme over the same timeframe is \$3.3 billion³
- We note that the 'unconstrained' ten year programme⁴ from the RFI was \$4.6 billion

The future renewal requirement is not a 'bow wave' as has previously been described. It is sustained over at least the next 20 years. We estimate the projected renewal requirements for years 10 - 20 at \$950 million.

Cost recovery in most councils appear to be focussed on 'cash' expenses only and depreciation has not been fully funded. This leads to increased forecast debt levels across the region, with five out of the eight councils breaching the 280% debt to revenue ratio (on three waters activities in isolation) by 2031. Queenstown's three waters debt is forecast to be over 700% of its three waters revenue in 2031, and Gore's will exceed 600% of three waters revenue.

Across all councils, three waters accounts for a higher proportion of total council borrowing than it does for total revenue generated. This puts heavy constraints on each council's capacity to borrow for other council activities (e.g. community facilities), as the servicing of debt is effectively cross-subsidised from other council revenue. In the event that three waters assets, debt and revenue is transferred to a new entity, this is likely to result in increased borrowing capacity for all councils in the two regions.

Councils have shown an awareness of the need to increase planned renewals in the coming 2021 LTP period, as well as plan to improve levels of service to meet Drinking Water Standards and other anticipated regulatory requirements. However, most councils have not increased operating cost budgets in proportion with a larger, more complex asset base or for the increased operating costs associated with higher levels of regulation and monitoring that will arise from the activities of Taumata Arowai, the Water Services Bill, and the potential establishment of an economic regulator for water.

Our estimates indicate be the average amount of revenue that needs to be collected per water connection will have to increase by 123%, before the application of inflation, to be able to meet some of these increased operating costs. This estimate also excludes any allowance for operating costs associated with increased regulation and monitoring. The effects are particularly notable in Waitaki, where the average revenue per connection is forecast to more than triple from \$697 per connection to \$2,342 per connection, and Queenstown, which is forecast to require the highest average revenue per connection of \$2,994.

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³ Morrison Low projections are based on the constrained investment plan in RFIs with adjustments based on assessment of asset registers and estimated costs for upgrading wastewater treatment facilities. This differs from the figure stated in the regional situation analysis as individual council needs have been assessed and additional investment for wastewater compliance included.

⁴ The unconstrained programme is based on council estimates of required investment in the absence of financial or capacity constraints. In some cases this is little more than a guess.



There is a risk that even with funding available, the capacity to deliver programmes with such large scope of work does not exist in the two regions. While correctly identifying the need to increase capital investment, up to more than double the 2019 programme levels, there is legitimate concern about the capacity of the councils to deliver increased capital investment programmes, with four of the eight councils delivering only half or less of their 2020 capital works programmes. Moreover, those that were able to deliver the full value of their capital works programmes will still be required to uplift their total amount of delivery further still to meet planned investment requirements. Of particular concern, we note:

- Despite current delivery at twice their three waters capital works budget in 2020, Dunedin would need to increase delivery by a further 85% to deliver their forecast average annual budget
- Clutha would need to deliver four times that amount of capital works that they delivered in 2020, when they only managed to deliver 32% of their budgeted programme.
- Invercargill would have to deliver three times the level of capital works that it did

The possibility of increased regulation as an outcome from the Three Waters Reform will compound this issue, with the potential for simple wastewater treatment plants to require upgrades in order to keep discharging to their local environments, the potential for councils to become responsible for private water supply schemes, and other as yet unknown requirements.

This is reflected in some councils plans to increase the level of human resources that are employed in three waters teams. Filling these roles is likely to be challenging however, as there are currently 32 existing vacancies in the three waters area across the two regions. This equates to 12.8% of the water related roles in the two regions. Competition between councils for these roles, which are generally accepted to be in an industry that is facing a skills shortage, will pose big challenges for retention and recruitment in the two regions, and may impact on the councils' ability to deliver planned works.

Eighty two percent (82%) of the three waters pipe network (by value) across Otago and Southland is in an unknown condition. This is a significant portion of the network and as a result there must therefore be uncertainty about the future investment requirements and risks that these could be greater than estimated.

As expected, there is a variety of pipe materials and ages across the regions, with estimated base lives and unit rates relatively consistent and in line with industry norms. However there are a few outliers such as Asbestos Cement pipes having a base life of 120 years in Waitaki wastewater when all other councils assume 60 years, and Dunedin's much higher unit rates across the three waters network assets (for example Dunedin's unit rate for 100mm water pipe is three time higher than the next highest cost council), most likely due to the urban environment and complexity of replacement. If these were to be revised or normalised, there would be significant impacts to operating costs (depreciation and maintenance), as well as the timing and value of planned renewals.

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7.4 Attachment A



Introduction

This report forms part of a suite of reports commissioned by the Otago Southland Three Waters Office to explore the impacts of the Government's proposed reform of three waters service delivery. This is the second report regarding our analysis of information provided by the councils in the Government's request for information (RFI). The first such report focussed on the challenges and opportunities at a regional scale and remains relevant. This report follows the same structure as the regional analysis and reports findings at the territorial authority level.

This review includes councils that are located in the two neighbouring regions of Otago and Southland, and therefore covers approximately 44% of the total geographic area of the South Island, and approximately 29% of the total population of the South Island (or 7% of the national population). While both regions are unique, they also have many similarities, including being predominantly rural regions, with few large population centres.

It is intended that this report will help to identify and highlight the various issues and opportunities that exist for the delivery of three waters services for each of the territorial authorities within the Otago and Southland regions. This report presents key information from RFIs and asset registers, as well as additional analysis and projections completed by Morrison Low to compare the scale of challenges between councils. The intention is not to benchmark councils' performance (although it is acknowledged that this process does enable that) but rather to highlight where differences and similarities exist.

In addition, we note that:

- This report presents high level analysis based on data included in RFIs submitted to the Department
 of Internal Affairs (DIA). Due to time constraints this means that while some clarification has been
 sought where information appears to be obviously wrong, the reliability of this data may differ
 between councils. For instance, we have not made any adjustment to information that was assigned
 a low confidence grade in the RFI.
- All analysis contained within the report is sourced from council RFIs or asset registers unless otherwise stated.
- Analysis is focussed on information at the end of the 2019/20 financial year unless otherwise stated.
- This analysis is subject to detailed modelling (including consideration of potential operational and investment related efficiencies) which may have a significant impact on projected levels of debt and water charges in particular. This modelling may result in projected debt and charges being higher or lower than stated within this report.

This report, and the wider review considers both of these regions together, however for presentation purposes it has been necessary to sometimes present information for each region separately.

This report has been structured to follow a logical progression that highlights the key challenges and opportunities facing the region. Analysis has been specifically focussed on matters which are able to clearly demonstrate the risks, issues and challenges for the region and can be easily understood without the need for comparison to individual council performance.

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In particular the report addresses the following:

- The size and scale of the councils, which is relevant when considering the potential for efficiencies from scale and scope.
- The future investment needs and the ability to deliver capital works, which is relevant as a significant driver of future cost within each council.
- The financial position of the region, which provides additional information about potential future affordability issues facing councils.
- The current levels of service provided by the councils, which is relevant as a driver of future cost and exposure to operational risk.
- The current workforce and human resources utilised by each council which highlights some of the capability challenges facing the councils.
- The differences in asset valuation and base lives which impact renewals planning, forecast investment and operating costs of the councils.
- The current state of assets of each council which highlights some of the potential risks with the information set that has been used and the age and condition of each council's assets.

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Size and scale

One of the main arguments for reform of three waters service delivery in New Zealand is that councils do not individually have sufficient scale and capacity to be able to sustainably address the challenges that are facing the sector. Through various studies into international best practice, DIA has indicated that, in its view, aggregation of water services delivery is needed to address these issues.

Understanding the size and scale of the regions is critical in understanding whether any of the territorial authorities would have the requisite scale to address the challenges on its own.

This section highlights vast differences in the size and scale of the councils in the two regions. Dunedin, the largest council in the group collects almost twice the amount of rates revenue of Queenstown (which has the second highest amount of rates revenue) and has a population larger than the entire Southland region.

The region also has the fourth least dense district in New Zealand, being Southland District (behind only Mackenzie, Westland and Chatham Islands) while also having the 11th most dense city. These differences in size and scale could create unique challenges for any combined service delivery model and have a significant impact on the way in which three waters services are delivered.

Relative size of the councils

The five councils in the Otago region show a wide range of size and scale, with Dunedin City Council (Dunedin), the largest of the Otago and Southland groups, generating almost seven times the annual operating revenue of Clutha District Council (Clutha), the smallest of the Otago region.

Dunedin's land area is less than a third of the size of Central Otago District Council (Central Otago), the largest Council in the Otago region, as shown in the following table. These differences in size, population and operating revenue are likely to have a significant bearing on the costs of producing and treating water and wastewater in each of the councils. They also influence the number of schemes and plants required. Dunedin generates 11 times more revenue that the smallest council (Gore)

Table 1 Territorial Authority key statistics for the Otago region

	Central Otago	Clutha	Dunedin	Queenstown Lakes	Waitaki
Land area (km²)	9,956	6,335	3,287	8,719	7,109
Population ⁵	23,900	18,300	134,100	47,400	23,500
Population density	2.4/km ²	2.9/km ²	40.8/km ²	5.4/km ²	3.3/km ²
Council operating ⁶ revenue (\$000)	45,123	40,614	274,050	170,407	50,659
Council operating expenditure ⁷ (\$000)	40,818	44,557	278,350	167,057	53,540

⁵ Statistics New Zealand subnational population estimates at 30 June 2020

6 2019/20 Annual reports – excludes vested assets and gains/losses on sale

⁷ 2019/20 Annual reports – excludes losses on sale

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	Central Otago	Clutha	Dunedin	Queenstown Lakes	Waitaki
Council capital expenditure (\$000)	29,092	14,137	90,602	66,245	19,230
Council rates revenue (\$000)	31,140	26,696	156,949	83,563	32,833
Median personal income ⁸	33,300	30,900	25,500	40,600	27,700
Council employees	202	130	998	497	228

The Southland region consists of only three territorial authorities, which again show broad diversity in size and scale.

The Southland District Council (Southland) encompasses the largest area of all councils in New Zealand, with more than double the land area of the second largest council by area. The land area includes the Fiordland National Park, and the Rakiura National Park (which combine to cover almost half of the total land area in Southland). By way of contrast, Invercargill City Council (Invercargill) and Gore District Council (Gore) cover the two smallest areas of land mass in the Otago and Southland regions. Entire Southland region has lower population than Dunedin alone

While Invercargill has the highest operating revenue in the Southland region, this is still more than 25% lower than the total operating income in Queenstown Lakes District Council (Queenstown), despite a larger resident population.

The differences in the size, scale and geography of these councils contributes to the different ways in which three waters services are provided. This is highlighted with differences in population density throughout the region, varying from only 1.1 person per km² in Southland through to 146.8 people per km² in Invercargill.

Table 2 Territorial Authority key statistics for Southland region

	Gore	Invercargill	Southland
Land area (km²)	1,254	389	29,552
Population ¹	12,900	57,100	32,500
Population density	10.3/km²	146.8/km²	1.1/km ²
Council operating ² revenue (\$000)	27,489	98,279	77,634
Council operating expenditure (\$000)	26,919	98,833	78,510
Council capital expenditure (\$000)	11,144	18,671	26,134
Council rates revenue (\$000)	17,310	55,550	46,578
Median personal income	30,900	29,900	36,300
Council employees	117	410	187

8 StatsNZ 2018 Census

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Connection density

Connection density can be an important driver of cost on a per head basis.

Councils with a lower number of connections per kilometre of pipe are likely to face increased costs per connection, particularly when it comes to investing in upgrades to meet new environmental and regulatory standards or the renewal and depreciation of those assets.

Combined, the region would have less connections per kilometre of pipe than the average small council in the 2018/19 Water New Zealand National Performance review (22.7 connections per kilometre). When examined Large variation in connection density

individually, there is significant variation in connection density between the councils, with Clutha District Council having as few as 3.1 connections per kilometre of water pipe, while Invercargill City Council has as many as 52.3 connections per kilometre.

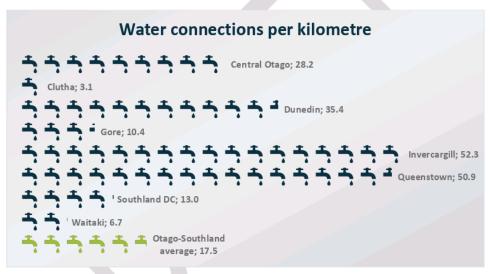


Figure 1 Water connections per kilometre of pipe

The differences in connection density between council areas demonstrates a rural/urban divide, with the largest, more urban council typically having a higher connection density. However, even outside the urban centres there is a large difference in connection density which highlights the challenges for the provision of affordable and sustainable drinking water services to small communities.

© Morrison Low



77%

Population connected to

a council water supply

				M	las	tew	/ate	er c	onr	nectio	ns	per ki	lometre
										Clutha; S		Central	Otago; 43.1
		₩ ₩										Gore;	Dunedin; 49.4 44.5
			₩ ₩					₩ ₩	ų V				I I I I I I Invercargill; 62.7
												Southland aitaki; 40.	4 DC; 42.1
		Ŷ	Ŷ	Y	Ŷ	Ŷ	Y	¥	Ÿ	¥ ¥		.	Otago-Southland average; 49.3
Combined, the region also has less wastewater connections per kilometry of pipe than the average for large councils in the 2018/19 Water NZ National Performance Review as shown above. There is also significantly less variation in density across the individual councils.													
	Water connections per This suggests that there are a number of small communities that are												

Figure 2 Wastewater connections per kilometre of pipe

serviced with water, but which are not connected to a public wastewater network. The largest of these differences relate to Clutha and Waitaki District Council (Waitaki), where the difference in densities infers that there is a combined 3,800 kilometres of water pipe servicing only 5,600 connections (or just under 1.5 connections per kilometre of pipe).

Connected population

kilometre in least dense areas

In their report commissioned by DIA⁹ (the WICS report), the Water Industry Commission for Scotland (WICS) report on three water reform in New Zealand highlights that New Zealand does not have a particularly high proportion of its population connected to water services, with some councils having as low as 35% of their population connected, and thirteen councils having less than two thirds of their population connected to water services.

While the WICS report does not go so far as to suggest that higher

connection rates may create operating efficiencies, it does state that, from a regulatory perspective at least, it is desirable to have a high rate of connection to ensure consistent levels of service. We note that the Water Services Bill treats all water suppliers equally and requires all suppliers to meet the Drinking Water Standards.

9 Water Industry Commission for Scotland, Economic analysis for water services aggregation (retrieved from https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/Economic-analysis-of-water-servicesaggregation-Stage-One-Report.pdf on 2 March 2021)

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Low connection rates may also be indicative of a larger number of private water schemes (i.e. privately owned or operated schemes that service multiple properties), or simply a large number of rural properties connected to private supplies (i.e. tanks or bores which service a single property). With increasing regulatory requirements and the enforcement of drinking water standards, private water schemes may pose a significant financial risk for councils who under draft legislation may, in certain circumstances, be required to provide the service. The 2019 Register of Drinking Water Suppliers of New Zealand lists 44 non-council drinking water supplier in the region, with the majority of these servicing between 25 – 100 properties.

In a presentation to the IPWEA northern branch in March 2021, Bill Bayfield, the Chief Executive of the Taumata Arowai Establishment Office, suggested that early estimates of the potential number of private supplies in the country (including small supplies affected less than 25 people) exceed 70,000 nationwide.

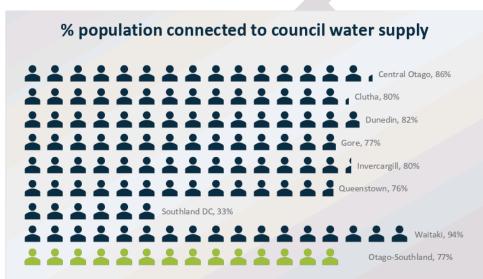


Figure 3 Percentage of population connected to a council water supply

Connection rates in the combined regions (77% connected) are typically on par with Water New Zealand's benchmark¹⁰ (79% connected), with only Southland District showing a particularly low percentage of their population being connected as shown above. It is interesting to note that there does not appear to be a strong link between urbanisation and connected population, with Waitaki having the highest rate of connected population in the combined region.

The data show that both Waitaki and Clutha have previously made investment decisions to connect a large proportion of their population to drinking water schemes despite large geographical distances making this difficult. These councils have relatively high rates of connected population, but consequently also have the lowest density of connection per kilometre of pipe.

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¹⁰ Water New Zealand National Performance Review 2019/20



% population connected to	council wastewater
	Central Otago; 73%
	• • • • • • Clutha; 78%
**********	Dunedin; 80%
**********	Gore; 73%
	Invercargill; 85%
**********	Queenstown; 72%
Southland DC; 37%	
	Waitaki; 71%
	Otago-Southland; 74%

Figure 4 Percentage of population connected to a council wastewater system

Typically, there are fewer people connected to a council wastewater system than there are connected to a public water system¹¹, and this is reflected in the chart above. The exception is Southland where although a very low proportion of its population are connected to a council wastewater system, there is actually a greater number of people connected to wastewater systems in Southland than there are connected to public water.

The data also highlights a difference in terms of connected population for Waitaki, with only 71% of the population connected to a council wastewater scheme (94% are connected to a public water scheme).

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¹¹ Connected population for wastewater is based on household density for connected water population, multiplied by the number of household wastewater connections.



Investment needs

Investment in infrastructure is the most dominant driver of costs for the delivery of three water services in the region, and nationally. There is growing evidence, cited by DIA, WICS, the Office of the Auditor General and in work undertaken by Morrison Low, that the local government sector, and three waters services particularly, requires significant investment in infrastructure over the next 30 years. This is being driven by renewal requirements and an expected upgrade programme to meet anticipated increased environmental and regulatory standards for water, wastewater and stormwater.

This section of the report outlines the future investment requirements for the region, and the impact that those requirements may have on future water charges.

While all councils face different challenges and issues going forward, a review of draft infrastructure strategies identified a number of common themes among the councils of the Otago and Southland regions. Major themes of asset renewal, drinking water standards, upgrades driven by discharge consents and compliance were evident in all of the strategies, and are also reflected in the analysis in this report.



Figure 5 Word cloud summarising key themes from infrastructure strategies

Our review of the investment needs for the councils in the Otago and Southland region has found that substantial investment will be needed in the future to resolve issues regarding the age and condition of assets, and to address increasing regulation and compliance in the sector.

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The scale of the required investment over this time period is substantial with the region doubling its planned three waters capital works from the amounts outlined in 2018 long term plans. For some councils, the change is even greater still, for example Waitaki has estimated that their planned capital works for the next ten years should be more than four time larger than its planned capital works in its 2018 long term plan.

Delivering this planned investment in a way that is sustainable and affordable will be inherently challenging. Local government across New Zealand has historically failed to physically deliver its capital works programmes, and for most councils in the region, Planned capital expenditure doubles from 2018, and doubles again in unconstrained view

delivery of required renewals alone would require a significant uplift in the amount of capital works that councils have been historically able to achieve across all investment categories.

Renewals vs depreciation

Investment in renewals and depreciation incurred are often offset in time, though over an extended number of years, we would expect the investment level to equal the expense of ownership.

Comparison of the 2018/19 and 2019/20 expenditure across the region shows average renewal ratios across the three waters of 70% and 64% respectively¹². While there is significant variation in the level of renewals investment between the individual councils, across both 2018/19 and 2019/20 there are only two incidences of the renewal's ratio exceeding 100% of depreciation (being Invercargill and Waitaki in 2019). On the other hand, there were four incidences of investment in renewals being less than 50% of depreciation, being Queenstown in 2018/19 and 2019/20, and Gore and Southland in 2018/19.

Historical under investment in renewals

That situation is projected to change significantly in the next ten years as shown in the charts below.

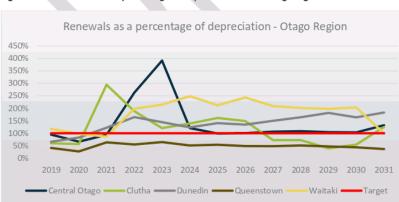


Figure 6 Renewals as a percentage of depreciation in the Otago region

¹² More detailed and granular analysis at an individual council level has resulted in this number reducing from that cited in the regional situation analysis which stated a renewals ratio of 77%

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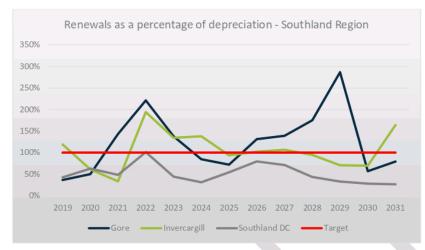


Figure 7 Renewals as a percentage of depreciation in the Southland region

Looking across the full ten-year 2021 Long-Term Plan period shows a planned increase in renewals investment across most of the councils, with all councils other than Queenstown Lakes District and Southland District planning to invest at least 100% of their depreciation¹³ over the period in renewals. However, as most of this represents forecast expenditure, it is reliant on projects being efficiently and effectively delivered, and not delayed, to maintain this balance. See the Capital Works Delivery section of this report for more detail but delivery of planned expenditure has historically been difficult for some councils

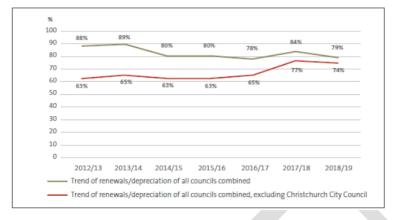
There is growing evidence of under investment in three waters infrastructure across New Zealand. In 2018 we undertook a desktop analysis of council LTPs across New Zealand for the Department of Internal Affairs (DIA). In that project we identified that, on average, councils in New Zealand were only spending around 78% of their depreciation funding on renewals. Similar concerns have been expressed by the Office of the Auditor General for a number of years, most recently in their report, *Insights into local government: 2019* which presented historical data showing underinvestment in renewals since 2012/13.

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¹³ Forecast depreciation for 2022 and beyond was taken from cashflow statements in the completed RFIs, in some cases forecast depreciation in 2022 from cashflow statements was lower than actual depreciation for 2020, so depreciation may be understated.



Figure 8 Historical renewals versus depreciation – all New Zealand Councils¹⁴



Most councils in New Zealand have not retained the cumulative shortfall between renewals investment and depreciation, meaning as networks age, the future periods where the renewals investment required far exceeds the depreciation expense, will not be adequately funded from reserves. The analysis in the Cost Coverage section of this report suggests that this equally applies to councils in these two regions. These periods of peak renewals typically lie beyond the 10-year horizon of the LTP but within the 30 year horizon of the Infrastructure Strategy, shown in more detail in the Asset Age and Condition sections of this report further on.

We note that, in their report for DIA, WICS refers to a capital maintenance ratio which we understand includes maintenance of assets and renewals, with the same 100% benchmark. While the region exceeded this benchmark for water and wastewater, individual council performance varied. Clutha, Gore and Queenstown all fell below 100% under this benchmark for drinking water services in 2020. Performance against this benchmark was worse in both wastewater and stormwater with only Dunedin, Central Otago and Waitaki exceeding the benchmark for wastewater in 2020, and only Dunedin and Invercargill exceeding it for stormwater services.

We note that classification issues may contribute to the apparently low renewals rations, with classification of infrastructure investment between renewals, level of service and growth being notoriously challenging. In some cases investment may be entirely driven by growth or level of service drivers but have involved the replacement of an asset before the end of its useful life.

This adds to growing evidence, including from the Office of the Auditor General, that there has been historical under-investment in the renewal and maintenance of infrastructure at a national level. This underinvestment has impacts on levels of service and future investment requirements for the region.

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¹⁴ Source: Office of the Auditor General, Insights into Local Government: 2019 (retrieved from <u>https://oag.parliament.nz/2020/local-govt/part1.htm on 22 February 2021</u>)



Future renewals investment



A review of asset registers indicates that, based on the remaining useful life of assets and known asset condition, the combined regions require approximately \$1.5 billion of renewals work during the next ten years. The combined RFIs outlined plans to invest in \$1.1 billion during the same time period. This figure is in our view understated, although this difference relates predominantly to Dunedin, with seven of the eight councils projecting to spend more than age alone would indicate.

The table below highlights the planned renewals investment from individual councils, as stated in their RFIs for the period between 2021 and 2031, the value of three waters pipe assets that have less than 10 years

remaining useful life, and the value of assets disclosed as having a poor or very poor condition which have an estimated remaining useful life that exceeds 20 years.

In our view there should not be a significant difference between the value of assets that may need replacing based on age and the planned renewals. The view is somewhat supported by seven of the eight councils planning to invest more in renewals than the value of assets that would need replacing based on age alone.

Table 3	Planned renewals investment compared to Morrison Low estimates (Gross Replacement Cost)
---------	-----------------------------------------------------------------------------------------

Council	10 year renewals	Assets with <10 years life remaining	Assets in very poor or poor condition with >20 years RUL ¹⁵	Total value of assets that may need replacing	Gap
CODC	\$56 m	\$10 m	\$2 m	\$12 m	(\$44 m)
CDC	\$49 m	\$14 m	\$6 m	\$20 m	(\$29 m)
DCC	\$470 m	\$1,203 m	\$26 m	\$1,229 m	\$759 m
GDC	\$43 m	\$8 m	\$0 m	\$9 m	(\$34 m)
ICC	\$183 m	\$145 m	\$5 m	\$151 m	(\$32 m)
QLDC	\$119 m	\$9 m	\$60 m	\$69 m	(\$49 m)
SDC	\$35 m	\$7 m	\$2 m	\$9 m	(\$26 m)
WDC	\$107 m	\$9 m	\$2 m	\$11 m	(\$96 m)
Otago-Southland	\$1,061 m	\$1,406 m	\$103 m	\$1,510 m	\$449 m

Seven of the eight territorial authorities in the Otago-Southland region have budgeted to spend significantly more on renewals than would otherwise be predicted through a review of age and condition of assets alone (combined this equates to investing \$310 million more in renewals than our high level analysis). It is likely that a portion of this relates to the replacement of above ground infrastructure (i.e. treatment plants), although the most common driver for this investment is level of service improvement.

This may also be to issues with the valuation of assets within the asset registers and in investment plans. Our projections are based on the gross replacement cost of assets within council's asset registers. We note that there is a significant variation in the unit rates used to determine these value, as highlighted in the section titled differences in valuation and depreciation (page 56). This may also explain the differences between projected renewals in Dunedin and our forecasts, noting that Dunedin undertook a revaluation as recently as late 2020.

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¹⁵ Where condition is unknown, we have assumed that the condition of assets is consistent with that of known assets.



For example, Waitaki has planned renewals that are over nine times higher than our estimates. This may indicate that Waitaki is proactively planning to replace assets early to smooth an impending renewals wave or has otherwise determined that asset performance is not well aligned to asset age. The risk of this is that assets which are renewed before the end of their useful lives may not have been fully "paid for" through depreciation charges.

Dunedin City Council is planning on replacing less than half of the total value of its pipe network that has been identified as having a remaining life of less than ten years. It is likely that Dunedin has identified renewals based on more factors than age alone and may have also considered criticality of its assets as well as condition and performance of its network (we have not been provided with any condition data for Dunedin's pipe network). While this may also relate to the classification of expenditure between renewals, level of service enhancement and growth investment, we note that Dunedin's entire capital works programme for the ten year period is \$547 million (or \$800 million in the unconstrained view). We note that our projected estimates for Dunedin are based on.

Performance of Dunedin's water network is outlined in the section titled Levels of service measures (page 35) and shows the second highest rate of water pipe bursts per 10 kilometres of pipe in the region. This would support our analysis that a large amount of Dunedin's three waters infrastructure may need replacing in the next ten years.

Ten year investment need

The combined three waters investment programme is set out below. We have presented the 2018 LTP projections, the draft 2021 LTP projections, our estimate of the future investment requirements and, for comparative purposes, the unconstrained view from the RFIs.

We acknowledged that in most cases the timing of investment under the unconstrained view is unknown and at least some of this could fall outside of the ten year period but it provides an illustration of the potential costs, and the scale of the difference highlights a risk. The scale of the difference between the 2018 and 2021 projections also highlights the scale and speed of the impact of water reform and the councils' reaction to the already changing regulatory environment.

The Morrison Low projections outlined in the projected future expenditure charts include any underfunded renewals investment per our analysis on page 16, as well as projected capital costs for the upgrade of wastewater plants which have consents expiring within 10 years to the extent that these costs have not been allowed for within the RFIs.

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Figure 9 Projected ten year investment requirements for Otago region

Figure 10 Projected ten year investment requirements for Southland region



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The unconstrained investment requirement is an estimate provided by councils in response to a request from the government through its RFI process. There are varying levels of planning which have fed into this figure, with some councils able to assign a cost to specific 'wish list' projects, while others have simply included a bulk allowance. In our experience, we would estimate the "true" unconstrained cost for most councils to be around 2 - 2.5 times larger than the constrained view. This aligns with the total position of the region.

The Morrison Low projection for Dunedin shows a higher level of investment being required than that outlined in Dunedin's unconstrained RFI investment plan. This largely reflects the potential renewals gap outlined in our analysis on page 16.

The absolute nature of the charts shown below can mask the impact on ratepayers of what for smaller councils appears to be a lower level of investment. When considered on a per capita basis this level of investment looks substantially larger for small councils, and this is highlighted in the chart below.

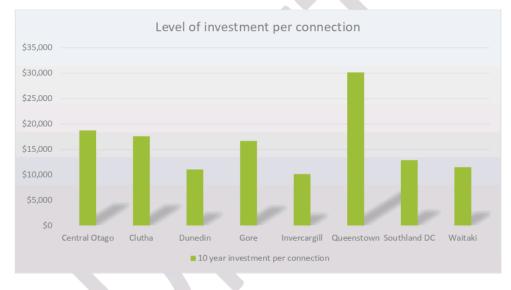


Figure 11 Projected ten year investment per connection

Queenstown is forecast to spend substantially more per connection on infrastructure in the next ten years than any of the other councils. This is driven by its high levels of projected expenditure to service growth, with 44% of its forecast expenditure being for the servicing of growth (Queenstown accounts for 66% of total forecast growth expenditure in the region).

On a per connection basis however, most councils are forecasting to invest a similar amount on infrastructure over the next ten years. In fact Gore, who have one of the lowest levels of projected investment in absolute terms, has the fourth highest level on a per connection basis.

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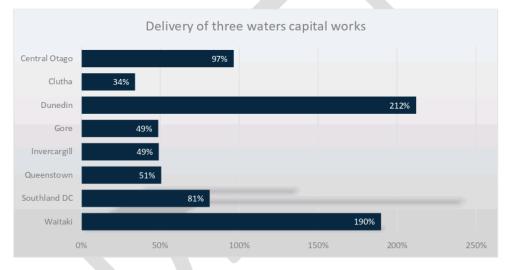


Capital works delivery

The ability to deliver on a capital works programme may have a significant impact on debt projections, rates and operational risk. As a sector, local government in New Zealand has historically been unable to deliver its full capital works budget. As most of the debt in local government relates to investment in capital assets, failure to deliver will likely result in lower than forecast debt levels and may have significant impacts on the levels of service received by ratepayers.

In our view there is a challenge to deliver the forecast infrastructure investment. The chart below shows that in 2020 most councils delivered less than 100% of their planned capital works programmes. This is not unusual across the country, in fact this is an issue frequently raised by the Office of the Auditor General, most recently in their review of 2019 annual reports¹⁶. However with planned infrastructure investment for the next ten years typically doubling previous long term plan budgets, the focus on delivery will become increasingly important.





While councils across the region have typically been unable to deliver the full extent of their budgeted capital works programmes, most councils were able to deliver over 100% of their renewals' budgets in the 2020 year. Delivery of level of service/upgrades was lower than budget across all three waters. Some of this is a classification issue, with classification of investment between renewals, levels of service and growth being particularly difficult as often investment is driven by more than one factor.

While Covid-19 and the associated lockdowns may have had an impact on capital works delivery in 2020, we note that sustained under delivery is common across local government in New Zealand.

¹⁶ Office of the Auditor General (2020) Insights into Local Government: 2019 (retrieved from <u>https://oag.parliament.nz/2020/local-govt/part1.htm</u> on 25 February 2021)

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Comparing historical capital works delivery to the average annual investment outlined in councils RFIs (using the constrained view) outlines the scale of the challenge ahead. If the Morrison Low, or unconstrained investment scenarios were adopted the challenge would be even worse.

For example, despite delivering over 200% of its budgeted capital works programme in 2020, Dunedin would need to deliver a further \$22 million of capital works (or an additional 85%) just to be able to deliver its average annual forecast renewals programme. Queenstown must increase the amount of three waters infrastructure that it delivers annually by over 250% in order to be able to deliver its forecast investment requirement.

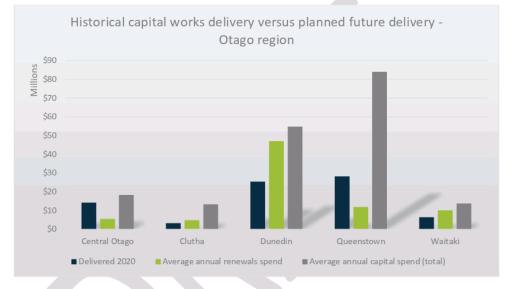


Figure 13 Historical capital works delivery versus planned capital expenditure - Southland

In its report Matters arising from our audits of the 2018-28 long term plans17 the Office of the Auditor General indicated an increase in planned capital expenditure between the 2015-25 and 2018-28 Long Term Plans of 31%. In that report it noted that achieving that level of increase would be challenging, the levels of increase suggest in the 2021 Long Term Plans/RFIs are of an even greater scale still.

¹⁷ Retrieved from <u>https://oag.parliament.nz/2019/ltps/part3.htm</u> on 22 February 2021

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Figure 14 Historical capital works delivery versus planned capital expenditure - Southland

Invercargill would need to deliver more than three times the amount of capital works that it did in 2020 to achieve delivery of its average annual capital works programme. The scale of the delivery challenge across the region should not be understated.

Southland is an outlier here, with future average capital works programmes being lower than its 2020 delivery. Southland has the lowest forecast renewals programme over the next ten years, and the second lowest (Gore being the lowest) total planned capital works programme.

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Financial position

One of the biggest challenges cited by the government, and the WICS report prepared for DIA, is the issue of long-term affordability of three water services. All councils in New Zealand are facing significant future investment requirements and increases in operating costs to be able to meet increasing regulatory standards and enforcement activities. The Situation Analysis and this current report demonstrate that Otago and Southland regions are facing those same challenges.

This section looks at these various financial challenges facing the combined regions.

The analysis shows a number of significant challenges facing the region of the next ten years, with large capital investment programmes likely to result in high levels of debt and increases in operating costs across all of the councils in the two regions. This is likely to create future affordability issues for water users and aligns with DIA's objectives for three water reform in general.

Projected revenue per water connection is forecast to increase by 123%, before inflation is accounted for, in order to service the debt, depreciation and increased operating costs for projected new investment. This assessment does not include any additional costs that may be required for the increased monitoring and compliance that will be brought about from the Water Services Bill when it is passed, or from the regulatory activity of Taumata Arowai and any future economic regulator.

In addition, debt is forecast to increase, on average, four-fold, under the most optimistic scenario. This will see the debt for the two regions combined increase to \$1.2 billion for three waters assets. Under scenarios prepared by Morrison Low, and the unconstrained investment outlined in the RFI, debt could increase to \$2.2 billion, or \$3.2 billion respectively.

Under the most optimistic investment scenario, only Dunedin, Invercargill and Waitaki have forecast three waters debt to three waters revenue that falls below the LGFA's debt to revenue lending covenant of 280%. While this is typically compared to total council revenue, borrowing to fund water assets for the remaining councils is dependent on revenue streams from elsewhere in these councils, and may constrain those councils from borrowing to invest in other services or activities.

Average household charge

We note that there is significant variation in the ways in which each council charges for water, wastewater and stormwater services in their region, with a mix of fixed amount targeted rates, general rates, volumetric charging, and combined drainage charges existing across the region.

Our comparison of current charges looks at total revenue generated from households for each activity, divided by the number of households in each territorial authority area. This is not the same as an average rate but is presented or high level comparison.

For comparison purposes, we note that the weighted average combined charge for the region would be \$924.

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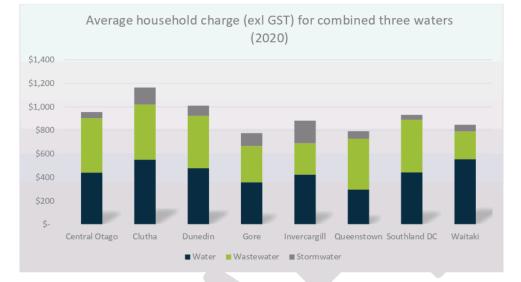


Figure 15 Average household charge for combined three waters activities in 2020

Clutha has the highest combined three waters charge, and the second highest drinking water average household charge, and this is likely reflective of its relatively low connection density and the high costs associated with providing services to rural communities. Similarly, Waitaki has the highest water charge, again reflective of its low connection density.

While dense urban areas often have lower charges than rural areas, this does not appear to be the case for Dunedin, which has the second highest combined three waters charge (and is in the top half across all of the three waters individually). While it is not explicitly clear what the key drivers for this are, it may be due to the topography of the city, the age of its networks, and the generally higher level of treatment of both water and wastewater compared to most of the rural councils.

Cost of treatment and distribution

Water

Another measure of cost of the provision of water services is to look at the cost of supplying a cubic metre of water. This is a helpful comparison as it is normalised for areas where consumption may be higher or lower than others (i.e. where residents are not metered, or areas which have regular water restrictions).

The cost of treating and supplying a cubic metre of water in Dunedin appears to be substantially higher than the cost of providing the same volume of water in other councils within the Otago-Southland regions. In fact, the cost of water distribution alone, is higher in Dunedin than the total cost of supplying a cubic metre of drinking water in either Central Otago or Waitaki.

In or experience, this is unusual as we would have expected rural areas with multiple schemes and lower connection density to have been more expensive. While the cause of this difference is not clear, it may be due to the relative age and condition of Dunedin's network, or a lower level of per capita water consumption.



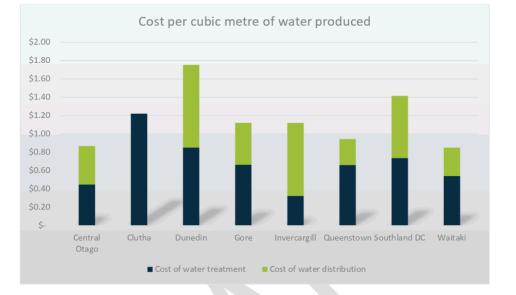


Figure 16 Cost per cubic metre of water produced (2020)

For completeness, we note that the analysis above is based on RFI data, and the accuracy of the split of costs between treatment and distribution may vary. The total cost of supplying a cubic metre of water (i.e. the sum of the two stacked bars) is more reliable.

Wastewater

The cost of collecting and treating a cubic metre of wastewater is typically higher than the equivalent cost for drinking water, and this is observed for six of the eight councils in the Otago-Southland region. This is because the treatment of wastewater is often a more complex and costly process than the treatment of drinking water, and in addition, volumes of wastewater being treated are typically lower than the volumes of drinking water supplied.

In the cases of Invercargill and Gore, where costs of wastewater treatment are lower than drinking water, this is likely due to the comparatively high volumes of wastewater that is treated in those areas.

Queenstown and Dunedin have a large number of wastewater pump stations in their networks, which is likely to be driving the high unit cost of treating wastewater.

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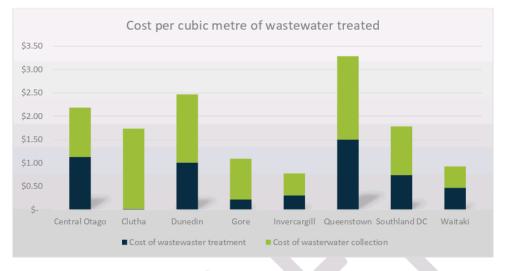


Figure 17 Cost per cubic metre of wastewater treated (2020)

Like for water, we note that the analysis above is based on RFI data, and the accuracy of the split of costs between treatment and distribution may vary. The total cost of supplying a cubic metre of water (i.e. the sum of the two stacked bars) is more reliable.

Cost coverage

Cost coverage is the proportion of revenue that has been collected by the councils compared to the total operating costs (including depreciation) for each of the three waters activities.

Councils are required, under the Local Government Act, to maintain a balanced budget, which means that they should collect enough revenue to cover their total operating costs (including depreciation), unless it is financially prudent not to do so. While this requirement exists at a whole of council level, it does not exist for individual activities. Generally speaking, a cost coverage of less than 100% would indicate that councils are not collecting enough revenue to meet their operating costs or to fund the maintenance and replacement of existing assets.

At a combined three waters level, half of the councils did not

collect enough revenue from three waters activities to fully cover their total operating cost (including depreciation). While some of these council may have made a deliberate decision not to fully fund their depreciation cost, this creates potential future investment risk, as the council may not have developed sufficient reserves (or borrowing capacity) to fund future renewals costs. as discussed in the Renewals vs Depreciation section of this report.

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26

50%

of councils did not fully recover

the costs of providing their three

waters services in 2020





Figure 18 Three waters revenue as a percentage of total cost (2020) – benchmark 100%

When the cost coverage for individual water activities is examined, there is a much greater level of variation between the councils. Revenue reaches as high as 245% of total operating costs including depreciation for Invercargill's stormwater activity, while it sits as low as 48% of total cost for Queenstown's stormwater activity. Reviewing cost coverage at this level may be unhelpful however, as there is often a large amount of shared resource between the water activities for which costs are likely to be allocated using different approaches.

Impact on operating costs

While the projected investment requirements for all of the councils int eh regions are significant and will pose challenges for borrowing, delivery and affordability, the impact of increased operating costs will often be felt more directly by ratepayers.

WICS states in their report that the addition of a new assets will add approximately \$8 of additional operating costs (relating to the financing, depreciation, and operation) for every \$100 of new capital invested.

We have used this assumption to estimate the potential impact of the proposed investment in each councils RFI on their annual operating costs. We have then compared this to the assumed operating costs for three water services based on forecast revenue projections in the RFI¹⁸, our estimated costs and the unconstrained view for the RFIs.



Increase in operating costs for Queenstown before inflation

¹⁸ RFIs did not include forecast operating costs for three waters services.

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The table above shows the results of our analysis. It indicates:

- If planned investment proceeds, costs, and accordingly rates, for a number of councils are likely to increase substantially. Queenstown's costs are forecast to increase by over 150% in today's dollars, with the smallest increase in the region being a 19% increase in Dunedin (noting Dunedin's own forecasts have a 34% increase).
- Invercargill and Waitaki have not forecast any increase in costs outside of normal inflationary increases over the period (i.e. they have not allowed for additional depreciation or financing costs associated with their planned (constrained) investment programmes and forecast debt.
- Dunedin, Clutha, and Southland appear to have adequately forecast for the increased costs associated with their planned investment programme. In fact, Southland's forecast costs exceed our Morrison Low projection of operating costs as well.
- The remaining councils have forecast some increase in their costs associated with additional investment (or growth) however this is not typically of the scale that we have estimated

2021 Opex	2031 Opex (RFI)	Adjusted 2031	ML projection 2031	Unconstrained 2031
\$10.6m	\$13.3m	\$19.9m	\$27m	\$62.9m
\$8.8m	\$15m	\$15.1m	\$19.9m	\$30.7m
\$67m	\$89.5m	\$79.8m	\$107.5m	\$92.4m
\$4.9m	\$6.2m	\$9.1m	\$13m	\$23.2m
\$21.8m	\$18.6m	\$27.2m	\$43.1m	\$52.1m
\$32.9m	\$69.6m	\$83.8m	\$110.8m	\$157.3m
\$12.9m	\$24m	\$19.9m	\$22.9m	\$51.3m
\$8.3m	\$8.6m	\$10.8m	\$28m	\$70.4m
\$167.2m	\$244.7m	\$265.5m	\$372.1m	\$540.4m
	\$10.6m \$8.8m \$67m \$4.9m \$21.8m \$32.9m \$12.9m \$12.9m	\$10.6m \$13.3m \$8.8m \$15m \$67m \$89.5m \$4.9m \$6.2m \$21.8m \$18.6m \$32.9m \$69.6m \$12.9m \$24m \$8.3m \$8.6m	\$10.6m \$13.3m \$19.9m \$8.8m \$15m \$15.1m \$67m \$89.5m \$79.8m \$4.9m \$6.2m \$9.1m \$21.8m \$18.6m \$27.2m \$32.9m \$69.6m \$83.8m \$12.9m \$24m \$19.9m \$8.3m \$8.6m \$10.8m	2021 Opex 2031 Opex (RFI) Adjusted 2031 2031 \$10.6m \$13.3m \$19.9m \$27m \$8.8m \$15m \$15.1m \$19.9m \$67m \$89.5m \$79.8m \$107.5m \$4.9m \$62.2m \$9.1m \$13m \$21.8m \$18.6m \$27.2m \$43.1m \$32.9m \$69.6m \$83.8m \$110.8m \$12.9m \$24m \$19.9m \$22.9m \$8.3m \$8.6m \$10.8m \$28.m

Table 4 Estimated future operating costs based on RFI data

With the possible exceptions of Dunedin and Southland, none of the councils appear to have budgeted for increased operating costs associated with new compliance, regulatory, or monitoring activities. Even for these councils the quantum of cost increase that we have observed is not of the scale experienced by Hastings District Council.

Revenue per connection

Revenue per connection has been used in this report as a proxy for the average price of water in each district. More detailed analysis will be completed in subsequent report which more specifically considers average household water rates.

While this is useful for demonstrating the direction of travel, or potential rates increases that the sector may face, this is not representative of the average household charge or rates.

Additionally, we note that the potential projections of revenue per connection are based solely off RFI data and are likely to understate the true picture because they:

• vary in the degree to which they incorporate additional potential operating costs for the delivery of three waters services which are not disclosed in the RFI (as shown previously)

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123%

Average increase in revenue per connection in 2031 before inflation



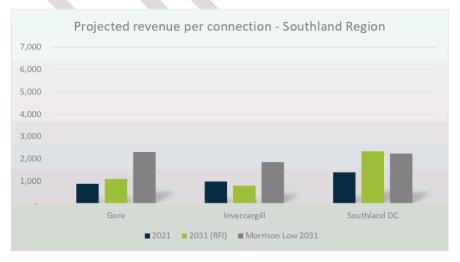
- have not been adjusted to include potential increases that Morrison Low anticipates may face the sector based on its experience in water reform and engagement with the sector (compliance costs)
- are aggregated at a district level, meaning there could be significant variation within a council which charges for water and wastewater at a community level
- do not allow for increased costs from the growth in the number of connected properties
- do not include any potential operating efficiencies (or increased costs) that may arise through structural reform of the delivery of three waters services in the combined regions.

Even without the above adjustments and considerations, there is a clear trajectory for water charges to increase to levels that are likely to create affordability challenges for some members of the community.

Figure 19 Projected (2031) revenue per connection in today's dollars – Otago region







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Our projections show a potential doubling of the average revenue per connection for Central Otago, Clutha, Gore, and Queenstown, while the average charge per connection in Waitaki is likely to more than triple its current levels¹⁹. The four councils with the smallest populations in the combined region are included within this group, and this reinforces our earlier statements that small councils are typically hit harder.

Queenstown is the outlier of the group facing the largest increases to average revenue per connection. This is likely driven by the significant levels of growth expected in the region. We also note that Queenstown only collected enough revenue to cover 75% of its costs in 2020 which is reflected in our adjustments to revenue requirements (we have assumed 100% of costs will be covered).

Dunedin faces the lowest forecast increase. This results in Dunedin moving from having the second highest average revenue per connection to having the second lowest under our forecasts, despite significant future investment requirements.

Debt

The scale of the capital investment required will need to be funded by debt unless third party funding is obtained. This is an entirely appropriate funding mechanism for three waters infrastructure. However, debt is also a significant driver of cost, with financing costs accounting for an increasing proportion of total operating cost as investment requirements grow.

The forecast debt position for each council for three waters, is outlined in the following charts.

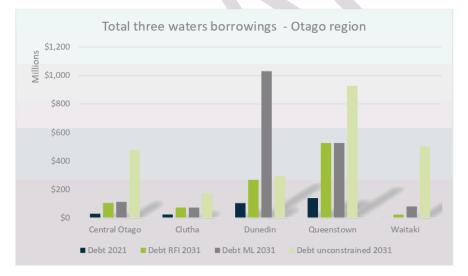


Figure 21 Total projected (2031) three waters borrowings – Otago region

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¹⁹ Our projected revenue per connection has been reduced from the amount stated in our situation analysis, as a result of examining individual council projections in more detail. Our analysis now includes allocation of costs to individual councils and an allowance for growth in connection numbers.



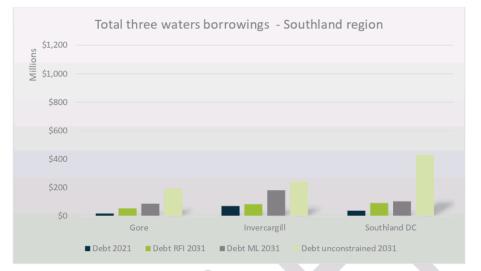


Figure 22 Total projected (2031) three waters borrowings – Otago region

On average, debt quadruples

On average across the region, three waters debt is forecast to quadruple, with only Invercargill forecasting an increase in debt that is less than double the 2021 forecast. Under the Morrison Low and unconstrained forecasts, debt is projected to rise even further, with the total regional debt increasing from \$421 million in 2021 through to \$2.2 billion or \$3.2 billion respectively. It is worth repeating our earlier note that the unconstrained view included in the RFIs has a high degree of uncertainty in both timing and quantity, and should be considered indicative only.

While the absolute values are significant, it is often more useful to consider the size of the debt with the context of how much revenue each entity is able to generate. This measure, the debt to revenue ratio, is used by LGFA when setting lending covenant, as well as being used by councils when setting their debt affordability benchmarks. While that is at a whole of council level, the WICS report cites a debt to revenue ratio of 430% to be required to obtain a Baa/Ba rating from the dreict rating agency Moodys. Three councils would breach this in 2031.

In our regional situation analysis, we compared three waters debt to three waters revenue and found that the region would breach LGFA's lending covenants under all of the forecast expenditure scenarios.

For the purposes of comparison we note that if three waters debt is compared to three waters revenue only, then only Dunedin, Invercargill and Waitaki would have a debt the revenue ratio below 280%²⁰ based on information in the RFIs.

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²⁰ LGFA's debt to revenue covenant for lending



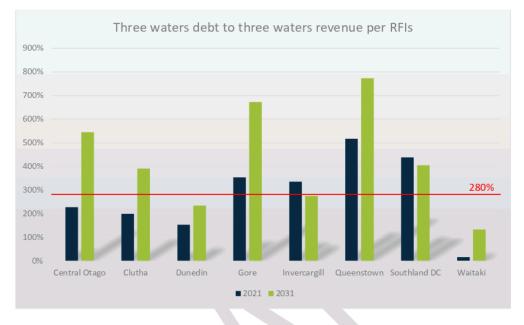


Figure 23 Three waters debt compared to three waters revenue

If LGFA's debt to revenue covenant of 280% remains in place, then the sustainability of three waters service provision and investment is dependent on the revenue of councils' non-water activities. This reliance on revenue from other activities creates risk, particularly where that other revenue is not generated from rates (for example where it is from fees and charges for building consents) and may be impacted by the external economic environment. It also introduces financial constraints for the non-water activities of a council, as three waters lending accounts for a disproportionate amount of a council's total borrowing capacity.

When total council debt is compared to total council revenue, two councils are projected to breach the LGFA thresholds of 280% in 2031 if their investment and water revenue is at the levels that Morrison Low has forecast. Both Dunedin and Gore would breach the LGFA limits under this measure if they retained three waters assets. The remaining councils would fall below the LGFA limits, however this would be on a substantially increased revenue base (per the section titled "revenue per connection").

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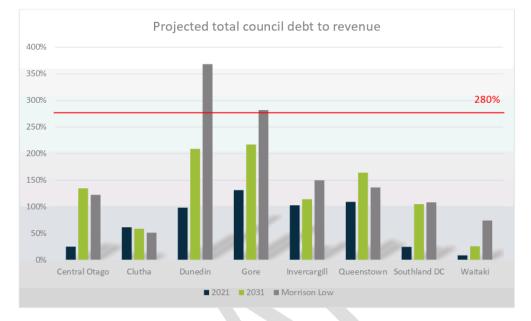


Figure 24 Debt to revenue projections (2021, 2031 per RFI, 2031 Morrison Low) at total council level

By 2031, three waters is forecast to account for a much greater proportion of total council borrowing than it is of total council revenue. This means that council borrowing is typically heavily constrained by the three waters activities which is likely to have impacts on each council's ability to borrow to fund investment elsewhere. The removal of three waters debt, and revenue, will in most cases result in an increase in borrowing capacity for councils, assuming that there is no change to lending covenant imposed by LGFA or other lenders. This is highlighted in the chart below.

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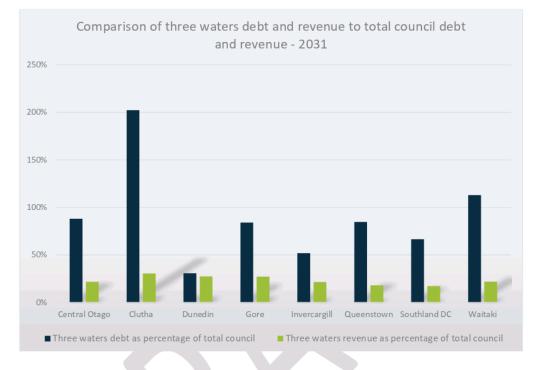


Figure 25 Three waters contribution to total council revenue and total council debt

The chart shows substantial differences between total projected three waters borrowing and total projected three waters revenue as a percentage of the council totals. Five of the eight councils projected three waters debt to account for more than 80% of the external borrowings, while all councils show three waters debt accounting for a larger share of council totals than the revenue.

For completeness, we note projected debt typically includes internal borrowing between activities, so may be higher than the total external debt figures. In most cases, by 2031 most three waters debt is anticipated to be externally funded, however this is clearly unlikely to be the case for Waitaki or Clutha for whom three waters debt exceeds 100% of total borrowings. It is not possible to determine the exact share of total debt that is consumed by three waters in these cases without understanding the internal loan balances of every activity.

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Levels of service measures

This section explores information regarding the source, treatment type and consent status of water and wastewater treatment plants in the Otago and Southland regions.

The analysis in this section highlights that the systems already have risk and levels of service that will drive investment. That investment will be required through legislation, increased regulation, and increased enforcement.

This section provides information that supports the previous analysis of investment needs. It highlights current and future compliance risks across the region that are likely to need significant investment to resolve.

Issues within the two regions mostly relate to current and future compliance to regulatory standards. There are 35 water treatment plants that combined supply 35% of the region's drinking water, which only provide simple disinfection (with or without filtration). Most of these plants do not meet the protozoa compliance measures in the Drinking Water Standards.

For wastewater, Central Otago, Clutha, Gore and Southland DC all have a large portion of their wastewater discharge into rivers. Of particular note, 54% of the wastewater in Clutha, and 27% of the wastewater in Central Otago is subject only to primary level treatment. It is highly likely that this level of treatment will not meet future freshwater standards, or cultural standards and expectations.

Gore has 40% of its sewer and stormwater network combined, this has led to a number of pollution incidents in the region and will require a high level of investment to remedy.

Stormwater issues are typically of less concern, but it is worth noting that Dunedin has over 11,000 properties that are considered at risk of flooding. The presumably relate mainly to the known flood prone area of South Dunedin.

Water supply

In line with expectations, the most populous councils in the region extract and treat the highest volumes of water. However, in the more rural districts, water use is not proportional to population numbers and is often high on a per capita basis, suggesting less being consumed by residential customers and more being used for commercial and other purposes.

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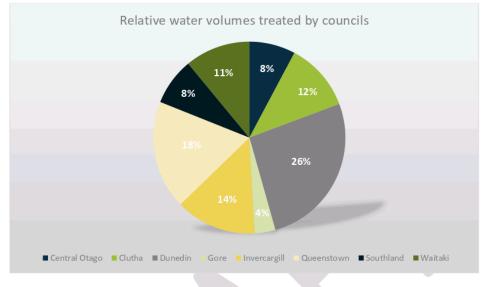
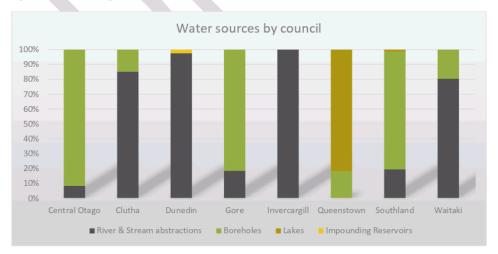


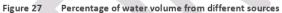
Figure 26 Volume of water treated by councils as a percentage of regional total

Water sources

This section looks at the reliance on different sources of water utilised across the region.

The breakdown of water sources across the region shows a heavy dependence on rivers, streams and boreholes, comprising 84% of the regions water supply (based on 2019/20 data). The ability to continue to access these water supplies beyond their current consents is a key consideration in resilience planning. Many Water Treatment Plants (WTPs) in the region are already able to draw from more than one water source, with 106 sources reported, feeding into 70 WTPs.





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Most councils have at around 20% of their total water supply coming from a secondary source providing a minimum level of resilience, except for Central Otago, Dunedin and Invercargill, which are nearly totally supplied by a single source. In Central Otago and Dunedin there are multiple extraction points from the same source, however in Invercargill, the water supply is fed from a single abstraction point from a single source, creating a potential resilience risk.

Water Treatment

After abstraction from the environment, the raw water is treated to varying degrees across the region currently. The graph below shows the current highest level of treatment the raw water receives before being distributed to customers.

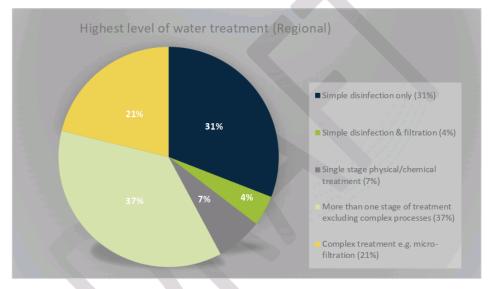


Figure 28 Percentage of total water volume by treatment level

When this data is cross referenced against councils' annual reports, almost all the WTPs treating 35% of the regions' water to "Simple disinfection only" and "Simple disinfection and filtration" do not meet the protozoa requirements of the Drinking Water Standards. Nearly all WTPs are meeting the bacterial requirements of the Drinking water Standards with only a few exceptions.

Currently only two councils (Dunedin and Invercargill) are fully compliant with the protozoa requirements, though Southland is also very close.

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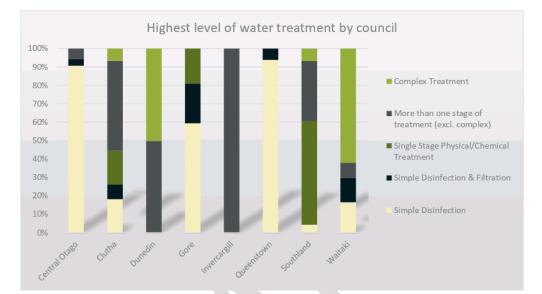


Figure 29 Breakdown of percentage of water volume by treatment level, per council

All councils with WTPs in the lower two treatment categories have plans to upgrade those within the current (2021/31) ten year LTP period. We note that over 80% of the drinking water supplied in Central Otago, Gore and Queenstown is supplied by plants in these treatment categories, meaning a large portion of those communities are currently being provided with water that may not meet protozoa requirement and present a health risk.

Almost 35% of total water supplied does not meet protozoa compliance

There are approximately 35 WTPs that provide only simple disinfection or simple disinfection with filtration across the region supplying water to customers, meaning a large number of plants are likely to require upgrades.

Regional risk will be from potential delays in these planned upgrades, escalation of upgrade costs, WTPs in these two categories without plans to be upgraded, and the higher operating costs of the upgraded plants. Data shows that most of the non-compliant plants are servicing smaller communities, these communities may face particularly large increases in water charges as the increased operating and capital costs are spread over a smaller base of ratepayers. This will particularly impact communities that are still charge water rates at a scheme level (rather than district).

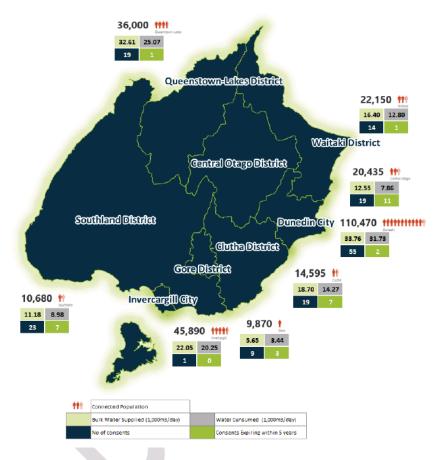
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Water supplied and consumed

The following chart shows the volumes of water supplied and consumed across the two regions.





The data shows large differences in the volumes of water supplied and consumed in the larger urban councils when compared to the rural councils. For example, Dunedin City consumes approximately 31,730m³ of water per day to a population of over 110,000, which is just over double the amount consumed by Clutha despite a population almost seven times larger. A similar trend can be seen when looking at the other rural councils, with the exception of Gore, which is comparatively compact. Queenstown's water consumption is driven by tourism demand, which means average daily population is much higher than the resident population stated.

The region also has a total of 32 of consents for water take expiring in the next five years. This may impact investment requirements in the future. Central Otago is particularly affected by expiring consents with 11 of its 19 consents expiring within five years.

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Pipe failures in the water network

The number of pipe main bursts per 10km reported by the Councils, in the first graph shown below, shows Waitaki and Dunedin have significantly more failures.

Although Waitaki has a small percentage (2%) of their mains with less than ten years of expected useful life, a large proportion of their network is polyethylene dating from the 1950s and 1960s, and the quality of early polyethylene pipes may be a factor. Further analysis would be needed to confirm this. Dunedin's network includes 34% within ten years of expected useful life, which aligns with the higher failure rate.

The correspondence between remaining useful life and failures is not apparent in the cases of Gore (28.4% with less than ten years left) and Invercargill (21.1%) with less breaks being reported than would be expected (possibly due to the influence of other factors such as operating pressure or rehabilitation practices). Gore's lower failure rate does align with the reported condition of their pipe assets, which is Very Good or Good, where condition is known.

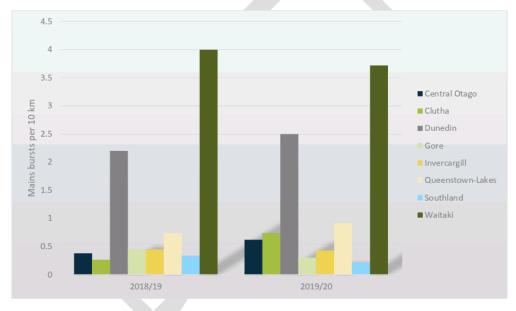


Figure 31 Annual faults normalised by network length (all material types)

Performance and levels of service of the water network

The councils have varying levels of service and performance as can be seen from the measurements shown in the table below.

Reported leakage varies from 8.4% in Invercargill to 43% in Gore with the mean at 23%. Although most councils have a target between 20% and 30%. Except for Gore, these targets are being met. However, the target levels are high. A utility proactively pursuing leakage would typically be aiming for a leakage level of about 10%.

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The percentage of population affected by water restrictions in the last two years also varies widely – between councils and from year to year. This measure can be very dependent on environmental conditions.

Clutha have annual summer water restrictions. Gore issue general advisory notices to entire district. Other councils have suffered from sporadic events - conserve water notices due to boil water and turbidity events (Central Otago), as a precaution due to fires in the Dunedin City and Waikouaiti source water catchments in November 2019, and operational issues for a short period in late 2018 in Waitaki.

Unplanned interruptions to supply has wide variability across the group, ranging from a minimal amount in Central Otago and Southland to almost 50 properties per 1000 in Waitaki. This aligns with the number of mains bursts presented earlier. Water quality is generally good with some exceptions. Clutha, Queenstown-Lakes and Waitaki report the highest number of issues.

Plants that fail to meet the protozoa requirements, and untreated supply present the greatest level of risk in the region, and these are generally dispersed across both regions.

Dunedin has 14 of the regions' 17 untreated water supplies, although it has no plants which do not mee the protozoa compliance criteria.

Performance Measurement	Central Otago	Clutha	Dunedin	Queenstown Lakes	Waitaki	Gore	Invercargill	Southland
Distribution input (1,000 m3/d)	11.53	18.70	42.73	32.61	16.40	5.65	22.05	11.18
Total leakage (1,000 m3/d)	3.38	4.27	11.00	4.49	3.60	2.43	1.85	2.20
Percent Leakage	29.3%	22.8%	25.7%	13.8%	22.0%	43.0%	8.4%	19.7%
% population affected by water restrictions (mean of last 2 years)	19.1%	100.0%	49.5%	0.0%	36.0%	100.0%	0.0%	0.0%
Unplanned interruptions per 1000 properties	0.008	0.236	7.652	4.660	49.839	2.842	4.584	0.009
Number of samples that exceeded the compliance value for faecal coliforms	0	39	0	0	11	0	0	0
Number of WTPs not meeting parasitic protozoa compliance criteria in DWSNZ	7	14	0	14	6	4	0	3
Number of untreated supplies	0	0	14	0	3	0	0	0

Table 5 Performance measures: water (19/20)

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Wastewater

Consents are required for the discharge of treated wastewater effluent into waterways and onto land, as well as odour arising from the operation of treatment plants. For the wastewater activity particularly, the resource consent application process can be both lengthy and costly. In addition, as often a significant amount of time may have passed between consents, new resource consents for wastewater treatment are often coupled with stricter regulations which reflect changing expectations.

Consents that are expiring soon, or have already expired, are therefore an indication of potential investment needs and the timing of those costs.



Figure 32 Wastewater service key information

Several councils list consents expired or expiring in the next five years. Notable amongst the expired consents is that of Clutha, with three wastewater consents already expired. Both Queenstown and Southland have six consents that will expire within the next five years.

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Clutha also has a consent to discharge untreated wastewater mixed with stormwater to the Tokomairiro River stormwater from the Milton Sewage Treatment Plant during heavy rainfall events. This is the only consent for the discharge of untreated wastewater in the Otago and Southland regions.

Some communities are not currently served by sewerage schemes. These include Clyde, Central Otago (scheme in progress).

It is unclear how any new regulations or standards will be imposed on plants that already have a discharge consent.

Wastewater collection

Relative to the population sizes, the figure below shows the more populous areas are treating more wastewater by volume (and load) per capita than the more rural councils. This is the reverse of the water supply graph, meaning the more rural councils are typically both supplying more water and treating less wastewater per capita than the more densely populated councils.

This could be for one of two reasons:

- More water used for irrigation and other commercial uses that do not generate wastewater.
- It is possible that the source information used for these graphs does not full account for private septic tanks. A small number of council-owned septic tanks were reported, but not necessarily those that are the responsibility of the homeowner. This could explain the low wastewater volumes seen in rural areas.

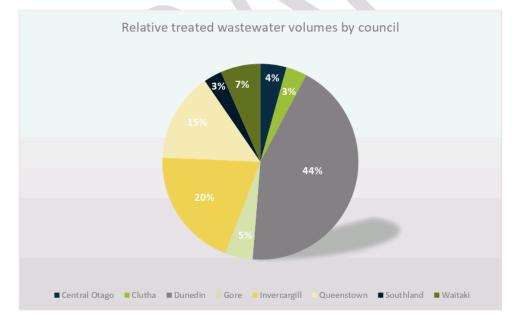


Figure 33 Wastewater volume per council as a percentage of a total for the regions

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Wastewater Treatment

While future discharge standards are not fully known at this stage, there is recognition within the sector that increasing standards are inevitable. In addition, an increasing focus in recent years on the cultural significance of water, including the embedding of *Te Mana o te Wai* within the establishment of Taumata Arowai, means that discharges to freshwater particularly are becoming less acceptable (even with tertiary treatment). It would be reasonable to expect that the *Primary Only* treatment facilities are not going to meet any new discharge standards that may be developed. Though they are low in volume (4%) these WWTPs are spread over four council areas and provide over half the treatment capacity available in Clutha. Should *Tertiary* treatment be required throughout, significant works would be required in Dunedin and Southland as well.

From the information collected for this report, it appears that Central Otago and Clutha have three Primary Only WWTPs each that are discharging to rivers. Should *Secondary Only* WWTPS also not meet the standards for discharging into rivers, this would potentially affect a further nine WWTPs in Southland.

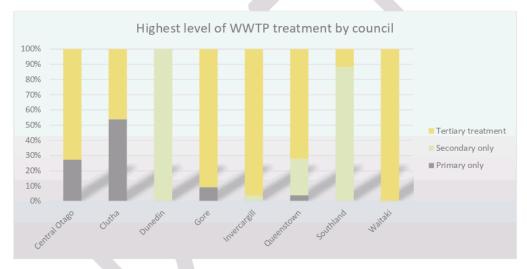


Figure 34 Percentage of wastewater subject to different levels of treatment per council

In total, 70% of the regions' total treated effluent is discharged to the ocean, 16% to rivers and 14% to land disposal systems. Over 96% of wastewater receives secondary treatment or better before being discharged to the environment.

However, the average compliance of the WWTPs with primary treatment only seems very low. There are 13 schemes receiving primary treatment only across the region, though the total volume through these schemes is only 3% of the total wastewater volume which means that there may be significant future investment associated with the treatment of a very small portion of total wastewater.

Note there is also a very small percentage of septic tanks in use throughout the region, with three schemes accounting for approximately 0.03% of the treated loads.

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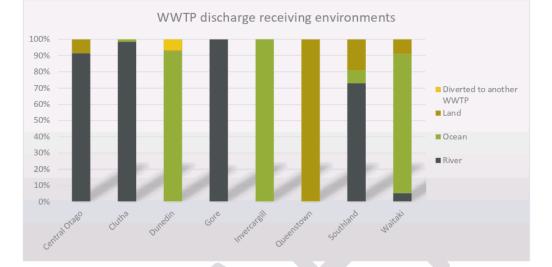


Figure 35 Percentage of wastewater volume discharge to different receiving environments per council

Discharges to the ocean dominates the region by volume, mainly due to the combined size of Dunedin and Invercargill. However there are significantly more WWTP facilities discharging to rivers (33 out of a total of 61 WWTPs in the combined regions discharge to a river, while only 8 discharge to the ocean).

While the scale of investment required to meet these changing standards is difficult to estimate, in a report commissioned by DIA in December 2019, GHD and Boffa Miskell²¹ estimated a combined investment for the regions of \$510 - 770 million would be required, with an annual operating cost impact of approximately \$23.4 - 35 million. These estimates relate to a

Up to \$770 million to upgrade 62% of wastewater treatment plants

total of 38 wastewater treatment plants in the combined regions and have been included within the Morrison Low estimates of future investment need.

Performance and levels of service

The councils show significant variance in the different measures of performance – blockages, compliance, flooding and pollution events.

Wastewater blockages are generally at or better than the national average. The higher number for Gore and Invercargill may be reflective of the large proportion of earthenware pipes in these networks.

Gore's high number of pollution events is due to approximately 40 % of the network being combined. One incident resulted in an abatement notice being issued. Gore considers that resolving this issue is possibly the most significant three waters issue facing the council.

The number of non-compliant wastewater treatment plants presents a particular risk, and we note that Clutha has received a high level of public scrutiny and media attention in relation to its plants recently.

²¹ GHD and Boffa Miskell – Addendum Cost estimates for upgrading wastewater treatment plants December 2019



Performance Measurement	Central Otago	Clutha	Dunedin	Queenstown Lakes	Waitaki	Gore	Invercargill	Southland
Equivalent population served (resident)	17,552	14,346	107,883	9,396	48,282	34,025	12,020	16,739
Blockages per 10 km	1.353	2.592	1.4	0.011	0.4	3.475	3.122	1.95
Discharge permit compliance	28.5%	40.0%	33.0%	50.0%	61.5%	50.0%	100.0%	85.5%
Total number of non- compliant wastewater treatment plants failing to comply with any of the specified parameters in the licence	2	11	4	3	5	3	0	0
Total number of wastewater treatment plants subject to improvement works	2	3	0	0	0	2	0	0
Total number of Combined Sewer Overflow and stormwater systems subject to improvement works	0	0	4	0	0	2	0	0
Serious pollution incidents	0	5	47	0	0	100	0	0

Water and wastewater volume balance

The chart below shows the comparative volumes of water supplied and wastewater treated for each of the councils. While we would expect there to be some relationship between these two measures for a variety of reasons, we do not expect this metric to be 100%.

All outdoor water use and leakage in the water distribution systems becomes water not returned to the wastewater network. On the wastewater side, all systems are impacted to some extent by inflow and infiltration of stormwater during rain events which can reflect both the condition of the wastewater network and how much rainfall was experienced in the catchment during the sample period. Also, in rural areas, the population connected to the water supply and the population connected to the wastewater system, may not be the same. For these reasons, a wide range of percentages is expected but further investigation of the extreme highs and lows can be beneficial.



Wastewater treated as a percentage of drinking water supplied

Figure 36 Wastewater treated as a percentage of water supplied per council

It is worth noting that Invercargill appears to be treating more wastewater by volume than the water supplied. There is a slightly larger population connected to the wastewater system (85%) compared to the water supply (80%) but that is not sufficient to explain the difference. At 120%, it is a percentage large enough to warrant further investigation to confirm or rule out inflow and infiltration from poor pipe condition as a cause.

Clutha and Central Otago have a very low percentage of wastewater compared to water supplied, which may be due to significant volumes of treated water being used in agriculture, or it may be due to poor pipe condition causing excessive leakage on the water side, or exfiltration on the wastewater network. Again, this graph highlights that further investigation into why these percentages are so low would be helpful.

Stormwater

Performance and levels of service

Various performance measures of the councils' stormwater service are displayed in the table below.

Of note is Dunedin's number of properties at risk, and the presence of serious pollution events in Dunedin, Gore and Southland.

Dunedin's properties at risk were identified by modelling, and relate to land parcels, not necessarily habitable floors. It is unclear from the data provided whether this largely relates to the known problem area of South Dunedin.

Dunedin's pollution event related to a discharge to an aquatic environment, Gore's to a sediment discharge that resulted in an abatement notice being issued, and Southland's incident reported for year ending 30/06/20 related to a cross contamination of wastewater pipes to stormwater discharge (Te Anau) and resulted in issue of a written warning. 11,735 properties at risk of flooding in Dunedin

47



The number of stormwater collapses is relatively low. There is some correspondence between the numbers of collapses and the age and condition, where known, of networks with Clutha, Invercargill and Dunedin recording the highest values of collapses. These three councils also have the highest proportion of pipes with less than ten years remaining life.

Figure 37 Stormwater performance measures

Performance Measurement	Central Otago	Clutha	Dunedin	Queenstown- Lakes	Waitaki	Gore	Invercargill	Southland
Stormwater sewer collapses per 10 km	0	0.539	0.390	0	0.17	0.168	0.481	0.000
Number of properties with habitable floor(s) flooded in the year - Overloaded Stormwater Systems	0	6	0	0	0	0	1	0
Number of properties with habitable floor(s) flooded in the year - Other causes	0	2	0	0	0	0	2	0
Total at risk	0	6	11,735	0	0	126	22	0
Areas flooded externally in the year (overloaded stormwater systems)	225	94	1	9	0	5	0	2
Areas flooded externally in the year (other causes)	11	28	15	12	0	10	9	20
Serious pollution incidents	0	0	1	0	0	1	0	1

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People and capability

Human resources information for the delivery of three waters services at each council has been provided.

A summary of the Council staff involved for each territorial authority is shown below. The organisational structures are shown at a high level to show the relationship between the three waters' team(s) and the other infrastructure services. Support functions such as finance, human resources, planning, information technology and customer services are not shown. A key to the charts is shown below.



This section highlights the differences in which each council delivers three waters services, both in terms of internal structure, which varies from having a dedicated three waters team to having shared infrastructure resource, as well as the extent to which services are outsourced.

One of the key findings of the review is the extent of the capacity challenges across the region. There are 32 vacancies across the two regions, with only Gore not disclosing any vacancies in their three waters team. In many cases, in addition to having a large number of current vacancies across the two regions, councils are also seeking to increase the size of their overall resource.

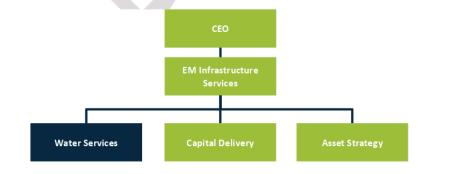
Competition between neighbouring councils for this resource will create ongoing issues for recruitment and retention, particularly within an industry which is often referred to as having a skills shortage.

Central Otago District Council

In Central Otago, all three waters services are delivered through the Infrastructure Services Group. There is a dedicated Water Services team as well as a shared Capital Delivery team and an Asset Strategy team with other council assets. There are five other FTE shared across water and other assets.

Currently there are two fulltime FTE and five vacancies in the Water Services team.

Figure 38 Central Otago District Council three waters team structure



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Clutha District Council

Clutha has a Service Delivery Department that looks after all Infrastructure. There is a Water and Waste Operations team including two dedicated water roles. Infrastructure Strategy and Capital Delivery teams are shared with other council assets. There are 14 FTE shared across water and other assets including the Group Manager Service Delivery.

Clutha currently has four vacancies in its water and waste operations team.

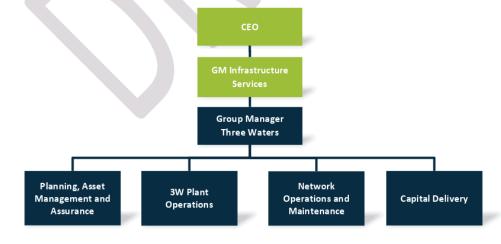
Figure 39 Clutha District Council three waters team structure



Dunedin City Council

Dunedin's structure is delineated by asset class with one three waters team covering planning, asset management and assurance as well as capital delivery and operations. There is less overlap with other infrastructure than most of the other councils. There are 103 FTE across water including the Group Manager. An additional nine roles are vacant.





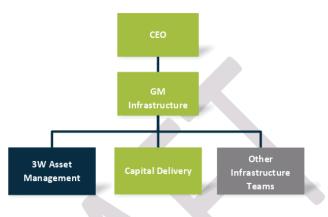
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Gore District Council

Gore has an Infrastructure group that looks after three waters as well as other assets. There is a dedicated three waters team with 14 FTE including the Three Waters Manager. The GM Infrastructure and Project Manager of Major Capital Projects are equivalent to one more FTE but also work on other council assets.

Figure 41 Gore District Council three waters team structure

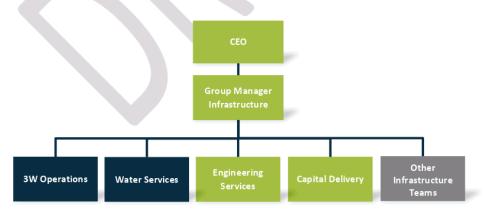


Invercargill City Council

Invercargill has an Infrastructure group that looks after all assets. There is a three waters Operations team and a Water Services team. The Engineering Services and Capital Delivery teams are shared with other council assets. There are 28 FTE working on water across the group.

The infrastructure group currently has six vacant roles.





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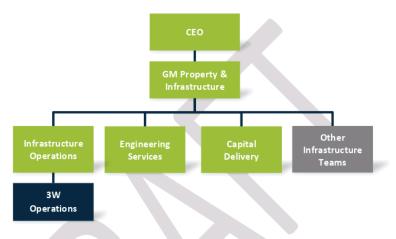


Queenstown Lakes District Council

Queenstown has a Property and Infrastructure group that looks after all assets. There is a small three waters operations team within the Infrastructure Operations team. The Engineering Services and Capital Delivery teams are shared with other council assets. There are 20 FTE working on water across the group with four new roles proposed following LTP consultation.

Queenstown has three current vacancies in three waters.

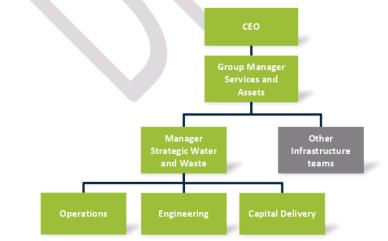
Figure 43 Queenstown Lakes District Council three waters team structure



Southland District Council

Southland has a Services and Assets group that includes a Strategic Water and Waste team. Within this team are Asset Management, Engineering Services and Capital Delivery resources. There are 13 FTE working on water in this team with two current vacancies.





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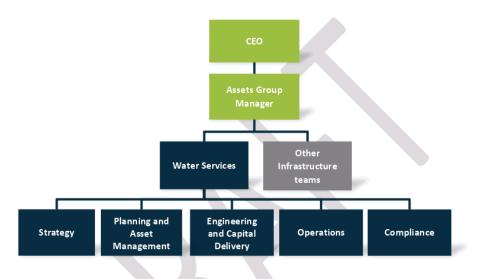


Waitaki District Council

Waitaki has an Assets group that includes a Water Services team. Within this team are dedicated Three Waters Strategy, Planning, Asset Management, Engineering, Capital Delivery, Operations and Compliance resources. There are 14 FTE working on water in this team with eight new roles proposed in the next two years following LTP consultation.

There are three current vacancies in Waitaki's water services team.

Figure 45 Waitaki District Council three waters team structure



Relative scale of the three waters service

The number of employees directly involved in delivering water services varies from less than 17 in Central Otago, Gore, Southland and Waitaki through to 103 at Dunedin. This represents both the size of each council's three waters network, and the service delivery model utilised at each council. The number of full-time equivalent staff (FTEs) involved in the three waters delivery is generally lower than the number of employees as some employees work across a number of different council assets, not only three waters.

All councils except Gore have current vacancies and some councils have proposed new roles that they are consulting on for the next LTP. There is a total of 32 vacancies across the two regions.

These figures exclude management and corporate support roles that are shared with other council areas. All three waters teams make use of centralised finance, human resources, information technology and customer services teams. Customer services is an important support function for three waters provision, with 24-hour contact centres necessary to allow rapid response to high priority incidents.

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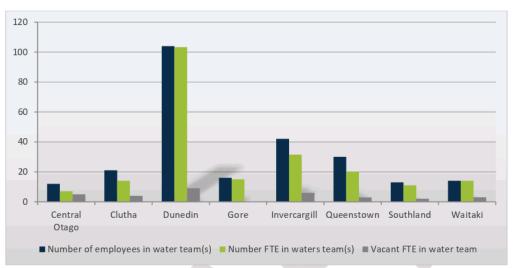


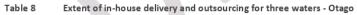
Figure 46 Number of employees and full-time-equivalent employees in each council's water team(s) and vacancies

Service delivery models

The different service delivery models are illustrated in the tables below.

Table 7 Internal delivery of three waters services – Otago

	Central Otago	Clutha	Dunedin	Gore	Invercargill	Queenstown	Southland	Waitaki
Asset	Across all	Across all	Three	Three	Across all	Across all	Three	Three
Management	assets	assets	Waters	Waters	assets	assets	Waters	Waters
Capital	Across all	Across all	Three	Across all	Across all	Across all	Three	Three
projects	assets	assets	Waters	assets	assets	assets	Waters	Waters
Operations	Three	Three	Three	Three	Three	Across all	Three	Three
delivery	Waters	Waters	Waters	Waters	Waters	assets	Waters	Waters



	Central Otago	Clutha	Dunedin	Gore	Invercargill	Queenstown	Southland	Waitaki
Reticulation O&M	Outsourced	Outsourced	In-house *	In-house *	Outsourced	Outsourced	Outsourced	Outsourced
Treatment O&M	Outsourced	Outsourced	In-house *	In-house *	In-house *	Outsourced	Outsourced	Outsourced
Professional Services	Outsourced	Outsourced	Outsourced^	Outsourced	In-house *	Outsourced^	In-house *	In-house *

*with specialist contract support

^with programme management in house



Outsourced contracts vary in size and scope between the councils. We note that over the next five years there are 17 large contracts expiring valued at approximately \$40m/year when combined. Dunedin City Council also has significant long-term design and renewals contracts worth around \$25m/year expiring between 2026 and 2028 depending on whether options to extend are exercised.

Scale relative to council size

The proportion of council staff directly involved in the delivery of three waters varies²² from 6% in CODC, QLDC and WDC to 16% in CDC. This is driven by the services provided, the infrastructure each council has to service, as well as the different delivery models including:

- the proportion of in-house delivery versus outsourcing
- the use of either dedicated functional teams (e.g. asset management, capital works) versus teams dedicated to the various asset types (e.g. water, transport, waste).

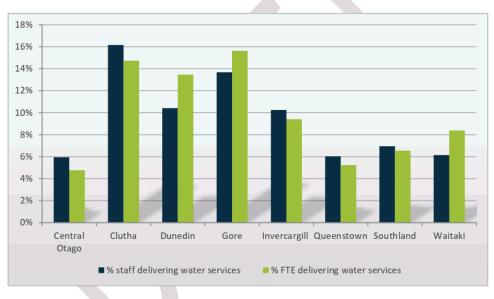


Figure 47 Proportion of employees and proportion of FTEs involved in delivering three waters services

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²² Note all figures exclude corporate services and customer services staff supporting three waters delivery.



Differences in valuation and depreciation

Councils adopt a number of different approaches to the valuation of their three waters assets, and the assessment of the useful lives of those assets (which contributes to the calculation of depreciation, and the estimation of the cost of future capital works).

It is important to understand these differences, as these can have a significant bearing on the potential cost impacts of future investment, and on day to day operating costs. Further, in the event that a new water services entity is established, relative asset value is a common (though not the only) way of determining the value of individual shareholdings.

This section highlights significant differences in unit rates for three waters underground assets across the two regions, with unit rates for 100mm pipe differing by up to 13 times between the lowest valued pipe (\$70/m) and the highest valued pipe (\$929/m). These variations may have significant impacts on forecast investment programmes, as the rates are typically used to determine the value of renewals. Where councils have underestimated the replacement cost of their three waters assets, it is likely that their future investment needs will be much higher than disclosed elsewhere in this report.

1200% difference between lowest and highest unit rates for 100mm water pipe

This section also highlights the variation in average base lives for underground three waters assets. For stormwater infrastructure the estimated base life for asbestos cement pipes in Waitaki is double that of Clutha, Dunedin and Gore. Other material types also have a reasonable degree of variation in base lives.

Base lives may be adjusted throughout the life of the asset to reflect observed variation in condition and performance of assets, and variations may be entirely appropriate between districts due to differences in the external environment and loading. However, it is worth noting that base lives are a key input for the timing of renewals investment and depreciation charges.

In the event of the aggregation of three waters services we would anticipate that a degree of normalisation would have to occur for both unit rates and base lives to ensure a consistent approach (though not necessarily consistent values) is applied.

Unit rates

Unit rates presented in this section are taken from asset registers and valuation registers provided to Morrison Low during February 2021. Of note, Dunedin advised that their valuation was completed as recently as the end of 2020, and that this valuation is reflected in the registers that we reviewed.

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Water

The following graph displays the maximum and minimum unit rates from the councils' asset registers. It shows a wide variance between councils in rates used at all diameters. The cause of these variation will require further analysis that is outside the scope of the current study.

Any changes to these assumed costs when renewal work is undertaken will have a significant impact on future costs and therefore projected debt and charges.

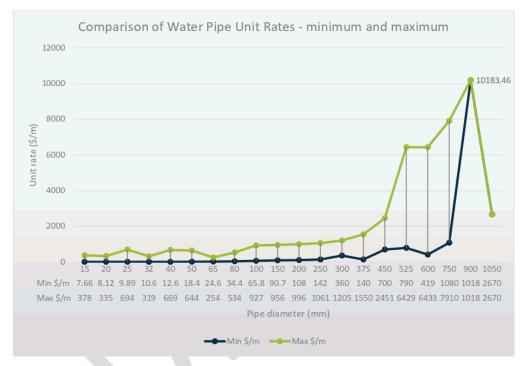


Figure 48 Comparison of water pipe unit rates

To show variation across the councils, the rates for a common diameter watermain are shown in the following figure. Dunedin's rate is clearly exceptional, but significant variation exists across the other councils as well. Even with Dunedin excluded, there is a four-fold difference in unit rates between Clutha (\$70/m) and Invercargill (\$307/m)

There is also a clear urban rural split with unit rates which is not unusual. Dunedin, Invercargill and Queenstown have the highest unit rates in the two regions. While the rural/urban difference is unsurprising, the scale of the difference between Dunedin and the other urban councils is unusual (Dunedin's unit rate is three time larger than the next most expensive).

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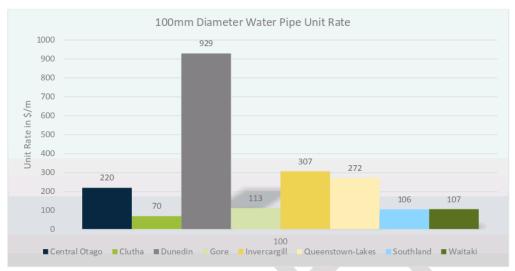


Figure 49 Comparison of unit rates for 100m diameter water pipe between councils

Wastewater

Considerable variation also exists in the unit rates for wastewater pipes. It is less marked than the watermain rates but does exist across all sizes where these occur in more than one council's register.

Figure 50 Comparison of wastewater pipe unit rates



© Morrison Low



To show variation across the councils, the rates for a common diameter sewer main are shown in the following figure. As with the water pipe rates, Dunedin's rate is exceptional, but significant variation exists across the other councils. The variation in rates is largely similar to that of the water pipe rates.

Again, Dunedin is a clear outlier with unit rates that are more than five times larger than the cheapest rates in the two regions (Central Otago). Again, even with Dunedin excluded, both Queenstown and Invercargill have unit rates that are more than double those in Central Otago and Southland (their respective neighbouring councils).

The difference in unit rates between urban and rural councils is not surprising and is a common trend nationally. The scale of difference between Dunedin and the other urban councils is however unusual.



Figure 51 Comparison of 300mm diameter sewer pipes

© Morrison Low



Stormwater

Unit rates for stormwater mains also show a large variation across the group of councils for all sizes.

Comparison of Storm Pipe Unit Rates - minimum and maximum 25000 20000 Unit rate (\$/m) 15000 10000 5000 0 105 120 135 150 180 210 250 250 80 100 150 200 250 300 375 450 525 600 750 900 0 0 0 0 0 0 0 0+ Min \$/m 173 137 161 229 262 324 383 418 482 467 615 720 855 1086 1170 1400 1595 2586 7331 8990 Max \$/m 324 1144 1079 1587 1574 1835 2238 2557 2914 3724 3982 4727 6188 6595 7824 8588 1150 1517 2017 2277 Pipe diameter (mm)

Figure 52 Comparison of storm water pipe unit rates

The unit rates for a common diameter stormwater main shows a similar pattern to the other networks, with Dunedin again having unit rates that are more than 2.5 times the rate of the next highest Council, and a clear rural/urban split.

Figure 53 Comparison of unit rates for 375mm stormwater pipes



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The difference in unit rates across all three waters demonstrates the need for a comprehensive review of asset unit rates as part of any proposed reform process which may take place in the future and highlights the level of uncertainty associated with the forecasts included in each councils RFI.

There is a clear trend that urban centres have higher unit rates across the three waters, and this is not dissimilar to our experience elsewhere in the country. However, further investigation would be required to verify the unit rates and compare approaches to valuation.

If aggregation was to be considered the differences shown here have the potentail to make significant changes to projected costs if they were normalised.

Base lives

Base Lives are an important parameter used in determining the remaining life of assets. Base lives are also used for the calculation of depreciation, and changes in base lives can have a significant impact on the level of depreciation that is charged to ratepayers.

If aggregation was to be considered the differences shown here have the potentail to make significant changes to projected costs if they were normalised.

Even seemingly small differences in bases lives can have a significant difference in operating costs, with the difference between an 80 year and 100 year base life translating to 25% difference in depreciation.

© Morrison Low



Water

The following figures display the mean values used by the councils for the various pipe materials in use. Some councils use a scale of base lives for a particular material dependent on size. Waitaki is an example in that three base lives are applied to ranges of sizes, and this has been done based on an assessment of pipe performance at the most recent valuation. The existence of multiple base lives values in other council's registers may be for the same reason.

There is wide variation in these asset lives, and the chart below shows the most common asset types across the two regions.



Figure 54 Comparison of average base lives for most common water pipe materials

Of significance is the variation in the useful lives of asbestos cement pipe (99 years in Central Otago versus 60 in Clutha and Gore – which would result in 66% more depreciation in those councils with shorter base lives). Also the variation in useful lives for cast iron pipes between Waitaki (140 years) and Gore (80 years) which would translate to a 75% increase in depreciation for Waitaki if its base lives were adjusted down to match Gore's.

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Wastewater

The following figure displays the mean values used by the councils for the various sewer pipe materials in use. Multiple values do exist for material types within individual council's registers and the reason for this may be due to size range, but further analysis will be required to confirm this assumption.

There is more commonality that for watermains, with the exception of Waitaki which has the highest base lives. The difference between the base lives for Waitaki's asbestos cement wastewater pipes and the base lives for the rest of the councils translates to a difference in depreciation charges between 70 - 100%.

Differences in base lives translate to a difference in depreciation between 70 – 100%





© Morrison Low



Stormwater

Significant variation in mean base lives for stormwater pipes also exists, with Waitaki once again having the highest values. Again the difference between Waitaki's base life for asbestos cement pipes and the remaining councils translates to a difference in depreciation of between 50 - 100%.

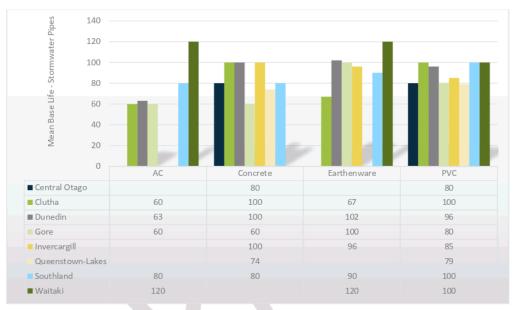


Figure 56 Comparison of average base lives for common stormwater pipe material

Again, the variation in base lives across all of the three waters assets demonstrates a need for a review of different approaches as part of any further work to investigate proposed reform of three waters service delivery.

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Appendix One Asset information

This appendix presents detailed information regarding the age profile, condition and material composition for the three waters networks for the councils in the two regions.

The information presented in this appendix is derived from RFIs and asset registers provided to Morrison Low during February 2021.

The information presented here is more detailed and technical in nature than that presented elsewhere in the report but provides useful context and additional information.

The findings of this section support the earlier commentary about investment need and provide additional context regarding levels of service and asset performance that is discussed earlier in the report. For example, the high proportion of Dunedin's water and wastewater network that has less than ten years of remaining useful life is reinforced in our estimates of potential renewals in the Investment Needs section.

It also highlights some of the key differences in the way that three waters services are provided across the two regions and offers some explanation for differences in cost. For example, high numbers of water pump stations and treatment plants in Clutha are likely to be contributory factors to the high average household charges in that district.

Water

Asset information

The figures below set out information about the number and type of assets involved in the water supply service. The type of pipe material and age of the assets is also set out. This information begins to highlight the differences between the respective councils' networks.

What follows in the next sections is a comparison of the condition of the network and comparison of the failure rates in the network.

Information relating to pipe networks does not include service connections as not all councils record the length of these.

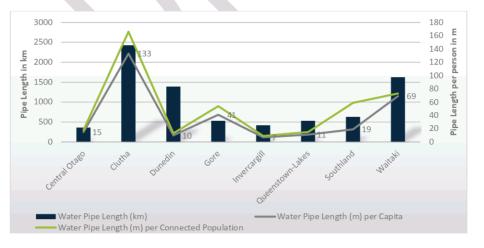


Figure 57 Water pipe length

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Length of the water network per population is less for the councils with larger urban centres. Length per population is shown for two measures – per Capita relates to the total estimated resident population at 30 June 2020 according to Stats NZ, while the per Connected Population refers to the household population connected to the water service in the councils' response to the Government's Request for Information. Two of the smaller councils in terms of population, Clutha and Waitaki alsoi have the largest networks by total length.

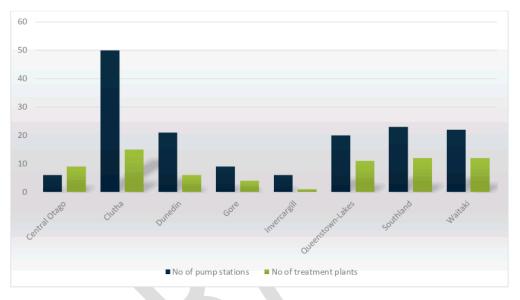


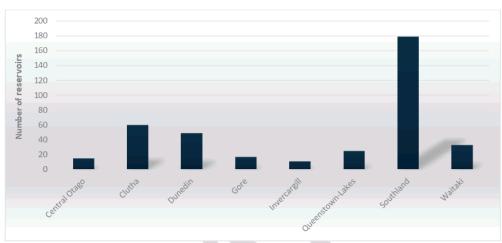
Figure 58 Water pump stations and treatment plants

The number of pumping stations and treatment plants gives an indication of how complex the systems are to operate. Rural districts tend to have more schemes and therefore more treatment plants. This is likely to result in increased operational costs, a higher risk of failures affecting both level of service and compliance and an increased need for sound and proactive asset management approaches.



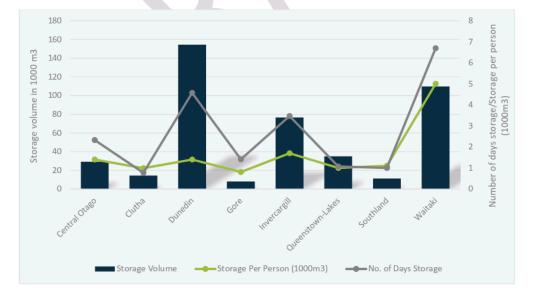
Water reservoirs

There are also differences in the councils' water storage capacity. The number of reservoirs reflects several factors including the rural nature of the network, topography and population served.





The Councils' water storage in the reservoirs also varies. Reservoir capacity is more closely aligned to the population served. Waitaki's storage includes 72Ml for the raw water reservoir in Oamaru.





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Age and condition of water network assets

Condition of the pipe networks was reported by four of the eight councils - Central Otago, Queenstown, Clutha and Gore. As a consequence of this, over 80% of the value of the three water pipe network (by value) is in an unknown condition. This information should be viewed with caution and may not be directly comparable as the councils may also have different approaches to rating their assets and different confidence levels in the data on which the assessment is based. It should also be noted that condition assessment of water pipes is problematic due to their nature of use. The rating that was provided shows the majority of the water networks are in *Good* or *Very Good* condition. The percentage of these networks that are in *Poor* or *Very Poor* condition is low compared to most other networks of comparable size nationally.

It should also be noted that the condition of below ground water pipes is particularly difficult to assess.

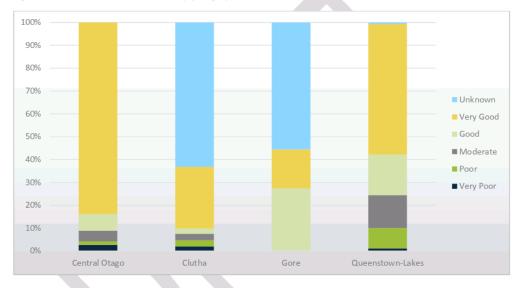


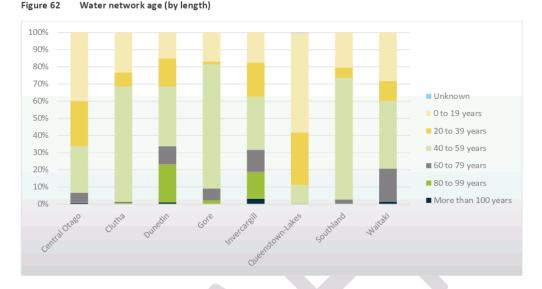
Figure 61 Water network condition (by length)

As condition data is only partially available (four councils) and because of the variance in both confidence in and approach to determining actual condition, a more consistently available proxy, age is used to determine remaining useful life. Where a comparison can be made, it would appear that the networks are generally performing better than the age would indicate.

The age profile shown below includes a significant proportion in the 40 to 59 year age bracket, and this aligns with trends in other parts of the country. However, this does represent a risk in terms of a cluster of future renewals. Dunedin and Invercargill account for the largest portion of old watermains, whereas areas that have exhibited rapid growth in recent years, such as Queenstown, are represented more noticeably in the newer age brackets.

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Pipe material is important for understanding failure modes as well as age. The following graph shows the proportion of materials used in each council's water network. Polyethylene and polyvinyl chloride pipes, mainly installed from the 1960s onward, form the largest proportion of all networks apart from Invercargill and Dunedin.

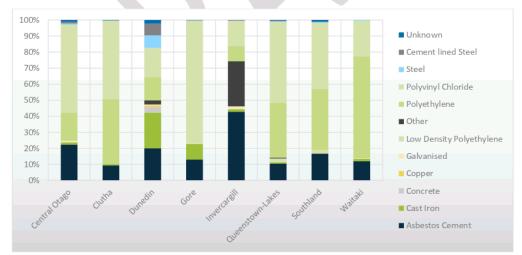


Figure 63 Network composition by material type

Low Density Polyethylene pipe (which has a shorter useful life than Polyethylene) makes up the majority (23.2%) of Gore network. Much of this pipe is expected to reach the end of its useful life within the next ten years. Some early polyethylene pipes were subject to quality issues in the initial stage of the technological development.

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Cast Iron has been in use since the 1860s (in Dunedin). Installation of cast iron pipes reached its peak in the 1930s and contributes a significant portion of the Dunedin and Invercargill (lined iron pipes in the 'Other' category) networks. Much of this pipe is nearing the end of its expected life.

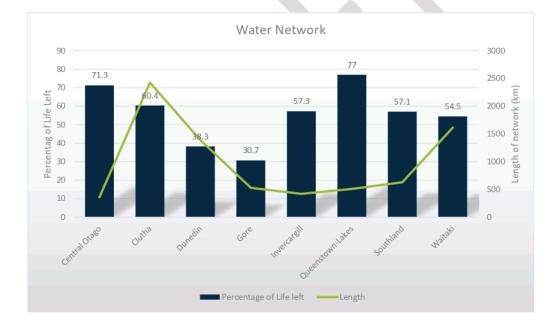
Asbestos Cement makes up a significant portion of mains installed from the 1950s to the 1980s and makes up over 40% of Invercargill's mains. This pipe is also nearing the end of its expected life.

Cast Iron and AC pipes are more brittle than other materials in use and represent a greater risk for earthquake resilience and can fail earlier than their design life.

Asset remaining useful life

The water networks vary considerably between Councils in the amount of mean life remaining (Expected Useful Life / Base Life) ranging from 30.7% for Gore to 77% for Queenstown. The latter is the youngest network in the country²³. With the exception of Gore and Dunedin (38.3%), all councils have a mean of over 50%. This is partially reflective of the relative ages of the networks. Dunedin has the oldest network in the country²⁴, and Gore is one of the oldest.

Figure 64 Asset consumption for water network



²³ Based on average age, Water New Zealand National Performance Review 2018/19
 ²⁴ Ibid.

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Remaining useful life is based on the age of the pipe compared to the expected Base Life. It should be acknowledged there is some uncertainty around base lives used in New Zealand, and not a lot of data is captured world-wide. There is considerable variation in Base Lives used by the councils in this study. This is as much as 60 years' difference for cast iron.

Performance and condition of the network is typically reviewed alongside regular asset valuations. These reviews may see an adjustment to the Base Lives, which may account for some of the differences, or the adjustment may be made directly to the remaining useful lives in the asset register. It should be noted that estimation of life left is not an exact science, and refinements are made as performance of the network is periodically reassessed.

The percentage of each pipe network with less than ten years of remaining useful life is shown in the second graph below.

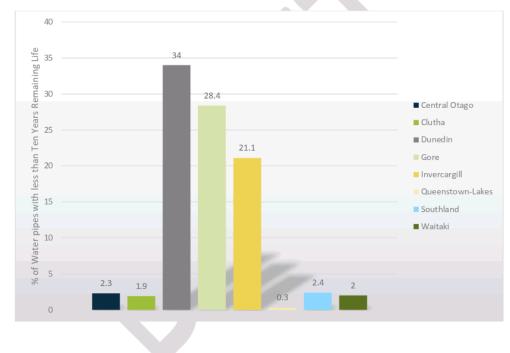


Figure 65 Percentage of pipes with less than ten years' remaining life

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Wastewater

Asset information

The figures below set out information about the number and type of assets involved in the wastewater service. The age of the assets is also set out. This information begins to highlight the differences between the respective councils' networks.

Information relating to pipe networks does not include service connections as not all councils record the length of these, and where this is recorded councils may have low confidence in their data.

1000 25 900 800 20 20 Ε 700 son Length in km 600 per 14 500 per 12 400 10 -ength Pipe I 300 Pipe 200 100 0 rcareill Waitaki Cluth Otag GOY South Sewer Pipe Length (km) — Sewer Pipe Length (m) per Capita – ---Sewer Pipe Length (m) per Connected Population

Figure 66 Wastewater pipe length

The network lengths reflect the relative size and density of the populations served. Provision of wastewater reticulation to rural areas is unusual, as these tend to be serviced by septic tanks, so the wastewater networks of Clutha and Waitaki are not overly large in comparison to population size as compared to their water networks. Length per person is higher for councils with smaller, dispersed population centres such as Central Otago, Clutha and Southland.

The number of treatment plants reflects the number of individual communities served. Larger networks such as Dunedin's are served by a relatively small number of plants, whereas the smaller networks of Southland require more plants. This is likely to result in increased operational costs, a higher risk of failures affecting both level of service and compliance, and an increased need for sound and proactive asset management approaches.

The relative number of pumping stations reflects both the size of the networks and the topography. Invercargill's and Gore's relatively compact layouts and flat topography result in a less reliance on pressurised mains than other networks. This will have a direct impact on operational costs, risk of failure and asset management practices.

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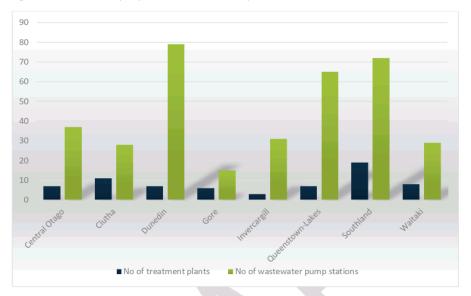
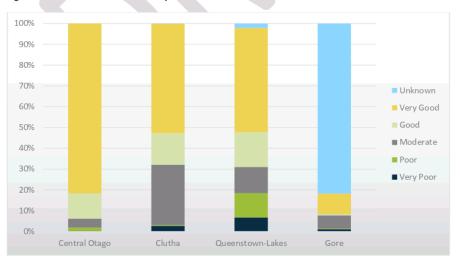
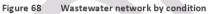


Figure 67 Number of pump stations and treatment plants

Asset age and condition

Four of the eight councils provided explicit condition data and one of those four provided the data for only a small portion of their assets. Those councils may also have different approaches to rating their assets and different confidence levels in the data on which the assessment is based. The rating that was provided show most of the wastewater networks are in *Good* or *Very Good* condition. The percentage of these networks that are in *Poor* or *Very Poor* condition is low compared to most other networks of comparable size nationally, with the exception of Queenstown-Lakes which is average. Condition is shown in the graph below.





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Age can be used as a proxy for condition, and the bulk of the wastewater network asset data does include the age. When age is compared with condition, where provided, it can be inferred that the pipes are performing better than their age would suggest they should. This trend is repeated for many other comparable networks nationally. However, the trend is less marked for Queenstown, which has over 18% of pipes in *Poor* or *Very Poor* condition and has one of the youngest networks in the country. Network age is depicted in the first graph below.

The age profile shows a wide spread, with Dunedin and Invercargill accounting for the oldest pipes, some over 100 years in age. These are two of the three oldest networks in New Zealand. Overall, much of the network is less than 60 year old. Queenstown's recent high growth rate is reflected in a significantly younger network. Data is extracted from the asset registers.

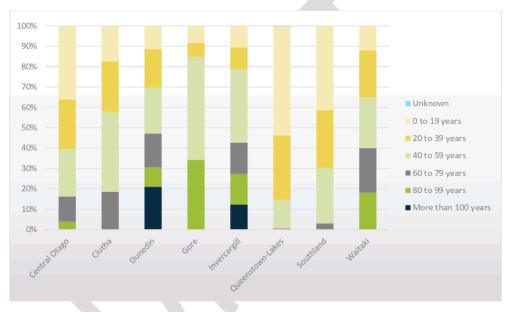


Figure 69 Wastewater network by age band

The age profile is also reflected in the pipe materials making up the network. Most of the older pipes are earthenware. Asbestos cement and concrete account for significant portions from the 1950s to the 1980s, while polyvinyl chloride with polyethylene make up the bulk of recent installations from the 1980s onward. Some councils such as Dunedin and Waitaki, and Clutha to a lesser extent, have a significant number of pipes of unknown material.

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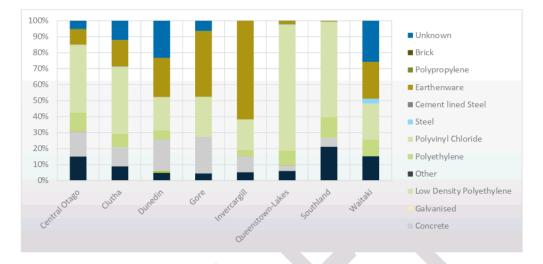
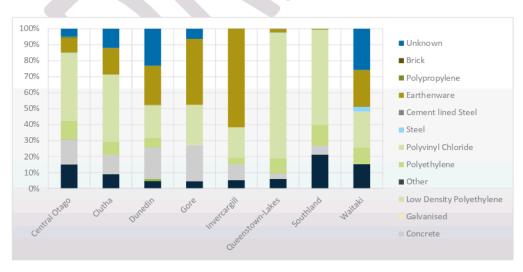
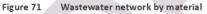


Figure 70 Wastewater network by material

Earthenware pipes account for significant proportions of the pipes with less than ten years expected remaining file – 24.4% of Invercargill's, 14.3% of Dunedin's, and 4.1% of Central Otago's. Earthenware pipes are short in length which means there are more joints than other types. Together with the relatively brittle nature of the material, this can lead to leaks, breakages and root ingress.

Concrete pipes account for the largest proportion (6.7%) of Central Otago's expiring network. AC pipes make up all of Queenstown-Lakes' network (3.5%) nearing end of life, plus 2.6% of Central Otago's. These materials are of a relatively brittle nature and as such represent a greater risk for earthquake resilience.





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Asset remaining useful life

The wastewater networks vary considerably between councils in the amount of mean life remaining (Expected Useful Life / Base Life) ranging from 27.1% for Gore to 72.8% for Queenstown-Lakes. With the exception of Gore, Invercargill (38.3%) and Dunedin (40.8%), all Councils have a mean of over 50%. Whether the average age is mirrored in the timing and volume of impending renewals will depend on a number of factors including asset management practices, environmental conditions and the accuracy of condition assessment and base life estimation.

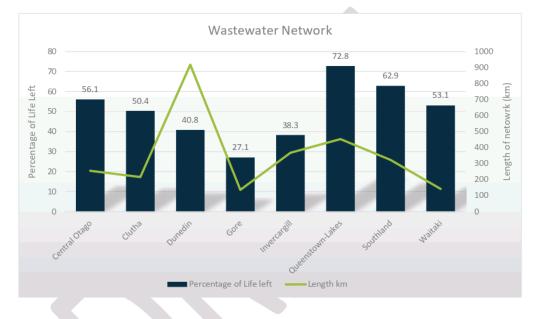


Figure 72 Asset consumption for wastewater network

Another measure of consumption is the percentage of the network with less than ten years life remaining. This measure shows that Dunedin (25.6%), Invercargill (25%) and Central Otago (14.9%) have significant amounts of their network nearing end of expected life.

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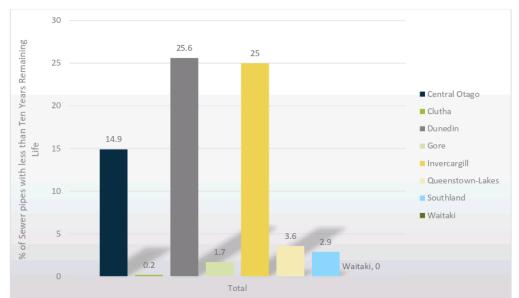


Figure 73 Wastewater network with less than ten years remaining life



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Stormwater

Asset information - stormwater

The figures below set out information about the number and type of assets involved in the stormwater service. The age of the assets is also set out. This information begins to highlight the differences between the respective council's networks.

Information relating to pipe networks does not include service connections as not all councils record the length of these.

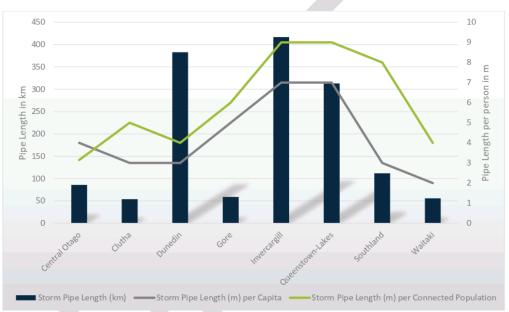


Figure 74 Stormwater pipe length

In general, the length of the councils' stormwater networks reflect the size of the populations. Length per population is shown for two measures – per Capita relates to the total estimated resident population at 30 June 2020 according to Stats NZ, while the per Connected Popultion refers to the household population connected to the stormwater service in the councils' RFIs. Dunedin's network is relatively small compared to Invercargill and Queenstown-Lakes, and this may be due to the topography and proximity to the coast.

Four of the councils - Central Otago, Queenstown-Lakes, Southland and Waitaki – do not have any stormwater pumping stations and rely entirely on gravity mains. Data is from RFI returns.

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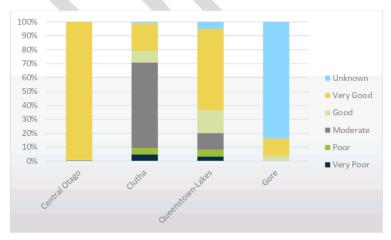
Figure 75 Stormwater pump stations



Asset age and condition

Four of the eight councils provided explicit condition data, and one of those four provided the data for only a small portion of their assets. Those councils may also have different approaches to rating their assets and different confidence levels in the data on which the assessment is based. The rating that was provided shows the water networks are in *Good* or *Very Good* condition, apart from Clutha which is mainly in a *Moderate* condition. Condition is shown in the second graph below.

Age can be used as a proxy for condition, and the bulk of the stormwater network asset data does include the age. This is depicted in the second graph below. Condition of the Central Otago network is reported to be in a significantly better condition than the Queenstown-Lakes network despite a similar but slightly older age. Clutha's network is older, and the condition reflects that. Gore does report good condition but over 80% of the network is in unknown condition.





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The age profile of the stormwater network shows a reasonably consistent spread of ages. Dunedin and Invercargill account for most of the oldest pipes while Queenstown has a high proportion of the newest pipes. As with the water and wastewater networks, the largest proportion is in the 40 to 59-year bracket, a situation that adds to the risk of a cluster of renewals in future. The councils' stormwater networks contain four of the five oldest networks in the country – Invercargill, Dunedin, Waitaki and Clutha²⁵.

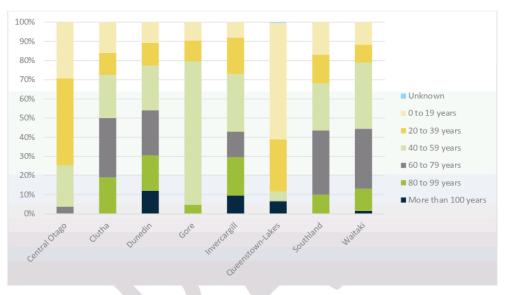


Figure 77 Stormwater network by age band

Earthenware pipes make up the bulk of the older installations, from the 1900s through to the 1960s, and account for the largest proportion of pipes with less than ten years remaining life (23.1% of Invercargill's, 8.6% of Southland's, 7.6% of Clutha's and 6.6% of Dunedin's). As discussed for wastewater, earthenware pipes have frequent joints and are relatively brittle.

Concrete pipes account for the bulk of the network installed from the 1950s and apart from pipes of unknown material, contribute the next largest percentage of pipes of expiring life. Polyvinyl chloride pipes are in the majority of the most recent additions.

A small part of the Dunedin and Invercargill networks consists of brick pipes primarily from the 1870s and contribute to the pipes reaching end of life in these networks. Though these pipes can still function and be rehabilitated (as has been done in Auckland). There is significant number of pipes of unknown material, particularly in the Waitaki network and Dunedin.

²⁵ Based on average age, Water New Zealand National Performance Review 2018/19

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100% Unknown 90% Aluminium 80% Brick 70% Polypropylene 60% Earthenware 50% Cement lined Steel 40% Steel 30% Polyvinyl Chloride 20% Polyethylene 10% Other 0% Waitaki Clutha vercareil Galvanised Gore Dunedin 10:380 Southi Concrete Centr Cast Iron

Figure 78 Stormwater network by material

Asset remaining useful life

The stormwater networks vary considerably between councils in the amount of mean life remaining (Expected Useful Life / Base Life) ranging from 27.4% for Gore to 79.9% for Queenstown-Lakes. With the exception of Gore, Invercargill (44.3%) and Dunedin (42.7%), all councils have a mean of over 50%. Whether the average age is mirrored in the timing and volume of impending renewals will depend on a number of factors including asset management practices, environmental conditions and the accuracy of condition assessment and base life estimation.

Dunedin and Invercargill are among the three oldest networks and also have a high proportion of the pipes with less than ten years remaining life. This pattern is also repeated for their stormwater and water networks suggesting a significant investment in renewals will need to be managed in the near future.



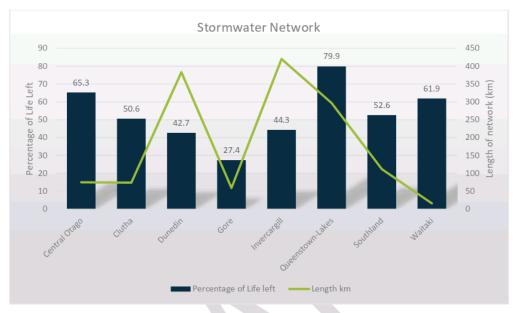
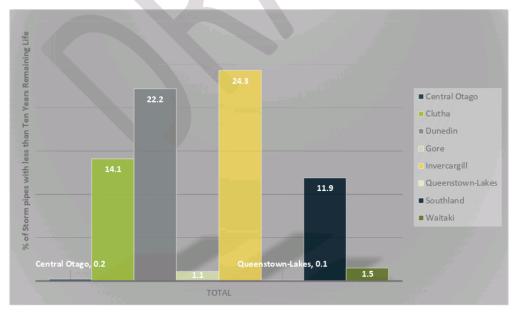


Figure 79 Asset consumption of the stormwater network

Another measure of consumption is the percentage of the network with less than ten years life remaining. This measure shows that Invercargill (24.3%), Dunedin (22.2%), Clutha (14.1%) and Southland (11.9%) have significant amounts of their network nearing end of expected life.





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Appendix Two Projected cost methodology

In order to calculate estimated operating costs in 2031, in today's dollars, the following approach was adopted:

- Removing inflation from revenue forecasts in each RFI, using the inflationary factors disclosed by each council individually.
- Take the cost coverage percentage from our earlier analysis and apply this to forecast revenue to determine a total operating cost in 2031.

We then compared the forecast operating cost in 2031 with our own projections, that included a consideration of forecast borrowing costs, increased depreciation and increased operating costs. In completing these projections we assumed that investment in renewals would not add additional depreciation, financing or operating costs²⁶.

Note that our analysis has not included any additional operating costs relating to additional compliance, monitoring and regulation activity. We are aware that Hastings District Council experienced a significant uplift in costs of water service delivery following the Havelock North water incident however we have not seen any indication of such a scale of cost uplift in any of the councils in the Otago and Southland regions.

We have also not allowed for any increase in operating costs associated with servicing a larger population, although we note that Queenstown has forecast that its water connections will increase by over 30% in the period.

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²⁶ With the exception of the \$758 million of additional renewals for Dunedin which we have assumed would need to be externally financed

Appendix C - SDC Impacts Assessment





Impacts assessment

Southland District Council

June 2021





Document status

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Contents

Executive summary	1
About this report	1
Why undertake a review?	1
Change is inevitable	2
What did the review consider?	2
How was the review carried out?	3
The decision to be made	4
Three waters at Southland District Council	5
Three waters at Southland District Council	5
Comparing the options	6
Comparison of household charges	14
A Council without three waters	14
Summary	15
Opting in	15
Opting out	17
Introduction	19
Background	19
Scope of this report	20
Approach	21
Differences between data	21
Alignment of report with three waters reform	21
Current situation – Southland District Council	23
Three waters services	23
Structure and resourcing	24
Key issues	25
Wider context	25
What options were considered?	26
Status Quo	26
Three water service delivery entities	26
Assumptions	27
Assessment of the options	28
Capability and capacity	29
Governance	30
Compliance and levels of service	32
Infrastructure assessment	34

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i

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34

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Appendix C	Assumptions regarding entity design	71
Assumptio	ons	69
Financial modelling		69
On site inter	rviews	68
Review of R	FIs and asset registers	68
Appendix B	Methodology	68
Debt repa	yment	66
Asset valu	les and capital delivery	63
Appendix A	Sensitivity testing	63
Transition p	lanning	61
	a water user	61
Civil defer	nce and emergency management	60
Mixed use or strategic property		60
	for vested assets	60
	nd processes that need replicating	59
	g with large water entities for resources	59
Operating model considerations		58
Ensuring i	nvestment in small communities is maintained	57
Common th		57
Challenges and opportunities		56
Preparing for (56
Opting ou	t	54
Opting in		52
Summary		52
Total cost in	npacts for ratepayers	50
	overheads	50
	heet impacts	49
Financial im	_	49
0	ouncil as an organisation	45
	ne impact of change be? role for Southland District Council	45
Debt	a impact of change he?	41
	household charges	37
Financial ass		36
Providing	35	
Delivery	35	



Tables

Table 1 Financial summary of three waters service delivery	23
Table 2 Comparison of options for three water entities (2021)	27
Table 3 Comparison of water, wastewater and stormwater charges	37
Table 4 Potential savings	39
Table 5 Comparison of three waters charges in 2031	39
Table 6 Comparison of affordability of three waters charges	41
Table 7 Pre and post change Council FTEs	46
Table 8 Comparison of Council revenue after transfer of three waters service delivery	49
Table 9 Impacts on Southland District Council's balance sheet	49

Figures

Figure 1	Comparison of different delivery models	3
Figure 2	Council's decision point	5
Figure 3	Average annual household charge – three waters entity	14
Figure 4	Council's decision point	22
Figure 5	Southland District Council three waters team structure	24
Figure 6	Governments "Emerging structure" for proposed three waters entities	31
Figure 7	Average annual household charge – three waters entity	40
Figure 8	Whole of Council debt and debt to revenue ratio	42
Figure 9	Debt to revenue ratio versus LGFA and Moody's benchmarks – three waters entity	44
Figure 10	O Current Southland District Council functional chart showing functions impacted by water	
aggregat	ion	47
Figure 11	1 Indicative functional chart for Southland District Council post creation of water entity	48
Figure 12	2 Comparison of total household cost for three waters services council versus three waters entity	51

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iii



Executive summary

About this report

This report was written by Morrison Low and commissioned by the Otago Southland Three Waters Office on behalf of Otago and Southland councils. Each territorial authority in the area has received a similar report.

The report is the output of a wider review, the overall purpose of which is to provide Otago and Southland councils and their communities with the information they need to understand the impact of three waters reform.

The report assesses the impact of three potential future scenarios for three waters service delivery in Southland District. It also provides a recommended way forward. The recommendation is in the opinion of Morrison Low, and is based on its evaluation of the evidence and wider experience of the sector and the reform process.

Why undertake a review?

The New Zealand Government is reforming how drinking water, wastewater and stormwater (three waters) services are delivered across New Zealand. In a Cabinet paper released on 20 November 2018, the Government indicated that alongside regulatory changes there may be major structural reform of the water sector. It described a system facing significant issues where:

"the scale of the challenge indicates that the status quo is not sustainable in the long term".

Among the key issues identified were weak regulation, capability challenges (particularly for smaller councils) and funding and financing issues for upgrading infrastructure.

Since then the reform has continue at pace. A new regulatory authority to oversee, administer and enforce a revised three waters regulatory system, Taumata Arowai, has been created. The Water Services Bill has been introduced to the House and will reform the regulation of New Zealand's three waters networks. Over the last 12 months the government has further revitalised the three waters reform programme engaging with the sector on a timetable for change, developing a preferred delivery model and announcing funding for councils that enter into structural change.

It is in that context the councils of Otago and Southland commissioned a series of reports seeking to understand the impact of three waters reform on their communities and their organisations. This report provides each council with that information and in doing so draws upon aspects of previous reports provided to the councils by Morrison Low.

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Change is inevitable

Significant changes will flow from the three waters reform that has already taken place and will take place regardless of whether Councils opt in or opt out of the proposed water entities. Legislative, regulatory and community expectations of standards are changing. There is therefore no status quo option. Three waters service delivery will change and every council in New Zealand must change in some way. The only means by which the future standards can be complied with is investment.

Investment to meet changing standards will be required in infrastructure, people, process and systems

The question for Southland District Council (SDC) is whether that challenge is best met through the current service delivery model or through a dedicated three waters entity.

The case for change is made more complex in that each council must make its own decision about whether to opt out of the government process to create regional water entities. Each council must make that decision based on what is best for its community. However, it is evident that the national and regional context still remains relevant to the local decision.

What did the review consider?

While there may be alternative options available to address some of the challenges outlined in this report, as a result of increasing clarity from the government the review ultimately focussed on two options. The current model and a regional water entity.

The original scope for the Otago and Southland three waters collaboration efforts was to review the merits of a regional water entity. As the review progressed it became apparent that the Governments preferred option is for an entity covering either the Ngāi Tahu Takiwā, or possibly the entire South Island. Further, as part of evolving discussions via LGNZ 'Zone' meetings across neighbouring regions, the Ngāi Tahu Takiwā option was identified as a preferred option should there be an opportunity to influence Government's proposal. As such, throughout this report, where possible consideration of the impacts of this option has been integrated.

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The differences in delivery model between a three waters entity (irrespective of its size) and the status quo are outlined below:

Figure 1 Comparison of different delivery models



How was the review carried out?

The eight territorial authorities of Otago and Southland (the Council's) jointly commissioned a review of three waters service delivery in December 2020. The review was in response to the government three waters reform programme and in commissioning the review, the Council's acknowledged the existing reform programme:

"Both central and local government acknowledge that there are broader challenges facing the delivery of water services and infrastructure, and the communities that fund and rely on these services. There has been regulatory failure, underinvestment in three waters infrastructure in parts of the country, and persistent affordability challenges, and additional investment is required to increase public confidence in the safety of drinking water and to improve freshwater outcomes¹."

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¹ Excerpt from Otago Southland three waters office RFP for three waters service delivery review



Ultimately the purpose of the review was to provide the councils and their communities with the information they need to understand the impact of three waters reform. Over the course of the review the nature, direction and timeframe of reform became increasingly clear.

A series of workshops were held by DIA during March 2021 which provided some new information regarding Government's proposed entity design and structure. The draft governance model for regional water entities includes input from constituent councils and Iwi representatives within a Governance Representative Group. This group is responsible for appointing an independent selection panel (who are in turn responsible for appointing a board of directors), as well as for the development of strategic and performance expectations that are used as guiding documents for the entity.

While no official boundaries for an entity have been formally proposed, there have been suggestions that either a single three waters entity covering the entire South Island, or an entity covering the Ngāi Tahu Takiwā (with Nelson, Marlborough and Tasman being part of the lower North Island) is likely.

The review was structured with multiple concurrent workstreams:

- Work Stream 1 Network and Service Delivery Analysis
- Work Stream 2 Financial Assessment
- Work Stream 3 People and Capability Assessment
- Work Stream 4 Options Development and Evaluation
- Work Stream 5 Shortlist Options Impact Assessment for each of the Member Participants

As the nature of the three waters reform became clearer some amendments were made to the process and scope. For example, there was little point progressing the "options development" work stream when the options were significantly reduced with the evolution of the government option. As the work and programme of reforms progressed it became evident for the Otago and Southland three waters collaboration that the options were essentially limited to opting in or opting out. Whilst opting out has the potential to involve a number of variants, including enhanced status quo, or an alternative unfunded entity design, ultimately the decision for each Council remains whether or not to opt in.

- Workstreams 1 3 were reported in the Regional Situational Analysis dated February 2021 and the Current State dated March 2021.
- Workstream 4 and 5 are set out in this report.

The decision to be made

In late 2021 councils are expected to be asked to either opt out of the three waters reform programme or by deciding not to opt out, opt in to the reform process. At this stage, we anticipate that by not opting out a council will be agreeing to transfer the ownership of its three waters assets, and the consequential transfer of its service delivery responsibilities, human resources, debt, and revenue relating to the three waters in 2023.

While the boundary maps for the proposed three waters entities have not yet been formally publicised, it is likely that as part of that decision process the councils in the Otago and Southland regions will be presented with an entity that covers either the entire South Island, or the Ngāi Tahu Takiwā.

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Figure 2 Council's decision point



Ngāi Tahu Takiwā or Opt Out? South Island entity Yes 'B' Yes 'A' Otago Council Southland Delivery Entity

The choices that are likely to be faced by councils in Otago and Southland are outlined in the below chart.

Analysis within this report is predominantly focussed on the three option variants identified in the diagram above.

Three waters at Southland District Council

To usefully understand how the different options regarding opting into, or out of, the proposed reform programme may impact Southland District Council, it is necessary to first understand the existing and emerging challenges and opportunities for the delivery of three waters in the district.

Three waters at Southland District Council

Southland District Council manages the delivery of its three waters services through its Services and Assets group that includes a Strategic Water and Waste team. Within this team are Asset Management, Engineering Services and Capital Delivery resources. There are 13 FTE working on water in this team including 4 current vacancies. Professional services and physical works are delivered by contractors.

SDC's drinking water levels of compliance and levels of service are good for the Otago-Southland region, with over 56% of its total drinking water supplied receiving chemical treatment, and only 4% (or one treatment plant) receiving simple disinfection only. Southland also had the lowest rate of mains bursts per 10km, and the second lowest rate of unplanned water service interruptions per 1000 properties in the Otago-Southland region in 2020

However, only 12% of the wastewater treated in SDC is subject to tertiary level treatment, and 73% of treated wastewater is discharged to freshwater environments. This combined with a high number of consent renewal programmes being planned over the next ten years may create significant future investment challenges as increasing environmental standards and cultural expectations may drive costs higher than what is currently provided for.

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The required future investment for three waters services in SDC will see three waters debt exceed \$78 million by 2031, and total Council debt exceeding \$136 million. Council's debt to revenue ratio rises to 120% but remains well below the LGFA threshold. Council is therefore able to debt fund the required level of investment but at that level three waters will start to impact the extent to which other activities and services can use debt.

Our forecasts anticipated that the increased investment requirements, and associated impact on annual operating expenditure may result in three waters charges being as high as \$1,953 (uninflated) by 2031. Despite being an almost 210% increase on current charges, these are likely to be among the lowest three waters charges in the Otago and Southland region.

Other challenges for SDC to consider in relation to the local case for change includes access to skilled workers and technical expertise both within Council and in the local contracting market. With the forecasted increases to the programme of work across three waters locally, regionally and nationally, it is evident that local resourcing may struggle to keep pace with demand.

Overall there is no burning platform with three waters, at the local level, for SDC to change.

Comparing the options

A comparison of the benefits, risks, challenges, and opportunities for three waters service delivery for Southland District Council under each of the proposed options are presented in the table below.

The table highlights differences between each of the options around:

- Governance
- Compliance and levels of service
- Infrastructure investment
- Financial considerations
- Capability and capacity
- Risks of councils opting out
- Challenges with the transition process

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	Council delivery model	Otago Southland	Ngāi Tahu Takiwā or South Island entity
Governance	Governance of three waters generally Governance of three waters in Southland is provided by elected members through the Services and Assets committee and in the case of three rural schemes, through water supply committees. Embedding of Te Tiriti o Waitangi and Te Ao Māori Governance of three waters service delivery at Southland District Council currently does not involve any formal participation from lwi or local Runanga. There is no legislative restriction to enabling this at a later date. Local representation Water services are currently provided through a model with elected council representative and elected community boards. Residents of Southland can approach Council about any issues regarding the levels of service that they receive.	Governance of three waters generally Governance of three waters would be provided by a skills and merit-based board of directors who have a sole focus on the delivery of three waters services and subject to different liabilities than Councilors. Embedding of Te Tiriti o Waitangi and Te Ao Māori The model provides the opportunity to deliver on treaty principles and co-governance with Māori from the outset within a new purposely built framework reflecting Te Mana o te Wai. The development of a co-governance model will require Councils and Māori to participate in what may be a resource intensive process and this needs to be supported by external funding. Local representation A potential loss of community influence over priorities and service levels by removing governance from the democratically elected Council into a board of professional directors. The relationship between water 'customers' and the service provider as an Otago Southland water entity would essentially become similar to an electricity company.	Governance of three waters generally Governance of three waters would be provided by a skills and merit based board of directors who have a sole focus on the delivery of three waters services. Embedding of Te Tiriti o Waitangi and Te Ao Māori Alignment of the entity with the Ngāi Tahu Takiwā provides a greater ability to embed Te Ao Māori within the governance of three waters services. The costs to develop a fit for purpose co- governance model are unlikely to be significantly higher with a larger entity. Local representation This issue will likely be magnified if the entity was responsible for the entire Ngāi Tahu Takiwā, as SDC would be a smaller part of a much larger entity. Again, if the entity was responsible for the entire Ngāi Tahu Takiwā this perception of a lost connection and of lost community assets would likely be greater.



	Council delivery model	Otago Southland	Ngāi Tahu Takiwā or South Island entity
ompliance and avels of service	 Regulatory compliance Southland DC's current levels of service are typically good; however, it may differ between townships and schemes. While SDC is currently generally compliant with wastewater consents, only 12% of its wastewater is subject to tertiary level treatment, and 73% is discharged to freshwater. Regulatory standards will increase in the near future, and in order to meet these standards in the future SDC will need to make significant investments in its three waters assets. Private schemes SDC is a predominantly rural council, and in our experience, these areas are likely to have a large number of private supplies. Council is currently the supplier of last resort under the Water Services Bill. This means that Council may be obligated to ensure continued water supply if schemes fail. Rural water schemes SDC has a number of rural water schemes that provide reticulated water (with varying levels of treatment) to rural properties with the additional purposes of irrigation and stock water.	 Regulatory compliance A regional water entity is able to provide improved asset management, improved management of risk and will be better placed to meet any increased compliance requirements or increased environmental standards than the Councils can individually. It will allow for consistency between the levels of service provided to residents of neighbouring districts. An entity's financial, human, and contracting resources will still be limited and investment will need to be prioritised across its service area. Private schemes The transfer of responsibility for three waters services entity from Council reduces its future liability for and costs of addressing the private supplier risk. These risks remain but transfer to the entire region rather than being concentrated on just SDC. Rural water schemes There is limited guidance about whether the government is proposing to transfer ownership of rural schemes to new entities or not, however from a risk perspective we would suggest that councils seek to also transfer such schemes. 	 Regulatory compliance A larger entity covering all, or most, of the South Island will allow for a greater degree of consistency of levels of service between district. However with a larger service area comes a greater need to prioritise where investment occurs first. Private schemes The transfer of responsibility for three waters services entity from Council reduces its future liability for and costs of addressing the private supplier risk. These risks transfer to the entire region rather than being concentrated on just SDC. Rural water schemes The rewould be no substantial difference in the treatment of rural water schemes between a Ngãi Tahu Takiwã sized entity, a South Island entity, or indeed an Otago-Southland entity. The incidence of rural water schemes in the rest of the South Island is high enough that the schemes will require a similar level of attention in any entity model.



	Council delivery model	Otago Southland	Ngāi Tahu Takiwā or South Island entity
	The incidence of private household connections to these schemes may or may not be known or approved by council and may currently present potential health and compliance risks.	A new water entity will need to understand the nuances of providing water to such schemes however, including differences in charging regimes and potential price differentiation.	
Infrastructure investment	Scale We have projected that SDC will need to invest approximately \$151 million on three waters infrastructure over the next 10 years.	Scale Between \$2.3 – 4.7 billion needs to be invested in three waters infrastructure in Otago and Southland over the next 10 years.	Scale Between \$8 – 9 billion needs to be invested in three waters infrastructure in the Ngāi Tahu Takiwā.
	 Delivery of capital works Southland DC delivered 81% of its capital works program in 2020.² The forecast capital expenditure over the next 10 years for Southland would require annual capital works delivery of a similar scale. Capital works delivery may be harder if SDC is competing with a large water entity for contractors. Renewals SDC plans to invest the lowest amount in the renewal of its network (when compared to annual depreciation) of all councils in the two regions. However, SDC's network is relatively young with many assets not yet at the end of their useful lives. 	 Delivery of capital works Will still be challenging with the regions needing to increase capital delivery by over 130% compared to the amount delivered in 2020. However, an entity may have an improved ability to coordinate a long-term sustainable program of works which may enable the contractor market to confidently scale up its resources and may reduce inter-district competition for contracting resource. Any improvement in capital works delivery under an entity model will take some time to transpire. Renewals Planned renewals investment across Otago and Southland is substantially lower than our estimates indicate it should be based on age alone. 	 Delivery of capital works Delivery is still likely to be challenging until such time as the labour market is able to respond. Would have an enhanced ability to send strong market signals and long term, significant capital works programs that would provide contractors with sufficient certainty of work that they are able to scale up appropriately. Any improvement in capital works delivery under an entity model will take some time to transpire. Renewals Planned renewals investment across the Ngãi Tahu Takiwā is about equal to our estimates based on age, however there are shortfalls and surpluses at district level. A Ngãi Tahu Takiwā sized entity would have a large enough renewals budget to address the needs of each district.

² Note that delivery of the capital works programme in the 2020 financial year was impacted by Covid-19 restrictions

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	Council delivery model	Otago Southland	Ngāi Tahu Takiwā or South Island entity
	Growth While SDC is not traditionally considered to be a growth council, some of its townships (e.g. Te Anau and Riverton) have, and are likely to continue to, experience significant growth. Council has control over the timing and location of its investment in growth infrastructure to attempt to facilitate or respond to growth when it occurs. District planning activities currently consider a range of factors to determine new areas for development, with infrastructure being only part of this equation.	However, differing age profiles across the two regions mean that there may be opportunities to smooth the renewals programme better at a regional level. Growth SDC no longer has control over timing and location of investment in growth infrastructure. There will be a need to ensure that the foundation documents and governance structures retain an appropriate balance between the individual priorities of each council with regional priorities including planning and supporting growth. An entity may have different priorities or timeframes over growth investment in SDC. District planning will require interface with a three waters entity which may have different motivations when identifying new development areas.	Growth The challenges of coordinating and managing competing growth and investment priorities across a larger number of councils may be increased. However, the entity will also have increased capacity to be able to address these issues and challenges. An entity may have different priorities or timeframes over growth investment in SDC. District planning will require interface with a three waters entity which may have different motivations when identifying new development areas.
Financial assessment	Debt and borrowing capacity SDC is forecast to have three waters debt exceeding \$78 million and total council debt exceeding \$138 million by 2031. SDC's additional borrowing capacity in 2024 (the estimated year of transition) would be \$168.9 million.	Debt and borrowing capacity Without three waters debt in 2024 (the presumed year of transition) Council's total borrowing would reduce from \$99 million to \$49 million and its additional borrowing capacity would increase to \$170.6 million. A three waters entity for Otago and Southland would have over \$1.9 billion of total debt and a debt to revenue ratio of 465% (which exceeds the limits for a Baa/Ba credit rating). This would result in a credit downgrade leading to increased	Debt and borrowing capacity Initial high-level estimates indicate a three waters entity covering the Ngāi Tahu Takiwā would have debt between \$6 – 6.5 billion and would exceed the debt to revenue lending covenants that are required for a Baa/Ba credit rating.



	Council delivery model	Otago Southland	Ngāi Tahu Takiwā or South Island entity
	Estimated household three waters charge SDC has an estimated household three waters charge in 2031 of \$1,953 (or a 209% increase). Water and wastewater charges would equate to approximately 2.4% of median household income in 2031. Financial resilience The forecast investment required in three waters across in all Councils in Otago and Southland has grown significantly since the 2018 LTPs and with the increasing focus brought by three waters reform there is considerable risk that these costs will continue to change and increase further.	 costs of borrowing and possibly the need to prioritise investment between districts. A voluntary Otago-Southland entity would still have a balance sheet that is consolidated with its constituent councils without legislative change. Estimated household three waters charge A three waters entity would have an estimated three waters charge of \$2,001 in 2031. Water and wastewater charges would equate to approximately 2.4% of median household income in 2031. Financial resilience This option addresses the very real risk that the scale of investment required to meet new standards and community expectations is greater than forecast. A larger entity is better able to address the risk of future investment requirements being underestimated as it distributes costs over a larger customer base.	This would result in a credit downgrade leading to increased costs of borrowing It will also likely require further prioritization of investment between districts. Estimated household three waters charge A three waters entity covering the Ngāi Tahu Takiwā would likely have an average three waters household charge between \$1,700 and \$1,900. Financial resilience This option addresses the very real risk that the scale of investment required to meet new standards and community expectations is greater than forecast. A larger entity is better able to address the risk o future investment requirements being underestimated as it distributes costs over a larger customer base.
Capability and capacity	Southland District Council currently has 4 vacancies in its three waters group (30% of three waters roles). There is a shortage of specialist resources for three waters across New Zealand and internationally.	13% of all three waters roles are currently vacant in the Otago and Southland regions. A three waters entity would have sufficient scale to create strategic capacity and capability across the region and support the areas where that is currently lacking.	Increasing size and scale creates greater opportunities for staff and improves its capacity to train and develop expertise. Larger entities are also further insulated from ebbs and flows in the size of the workforce.



	Council delivery model	Otago Southland	Ngãi Tahu Takiwā or South Island entity
	As water reforms occur across New Zealand there is likely to be increased competition to attract and retain the specialist skills in water that are necessary to enhance delivery	Scale, strategic capacity and capability gives a level of expertise and resilience in three waters that can be applied regionally, benefitting all ratepayers of the region rather than only some. Greater depth in planning and programming is also expected to help deliver the increased capital programme required to implement change in three waters.	
Risk	A number of the challenges highlighted with the current and emerging service delivery will be exacerbated. If SDC "opts out", while other councils "opt in" to reform, SDC is likely to be competing with a large water entity for contractors and internal resources and capability.	 There are a significant number of unknowns with the government proposal including: Entity design. Council's roles as owner and governor. Mechanisms to prioritise local investment. Coordination of planning and investment. Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred. Community input and role. Allocation of liabilities, land ownership. Without the critical mass of all councils there is a danger that the benefits of change will be substantially reduced or lost. That is particularly the case if the population centres of Dunedin, Invercargill and Queenstown were not involved. 	 There are a significant number of unknowns with the government proposal including: Entity design. Council's roles as owner and governor. Mechanisms to prioritise local investment. Coordination of planning and investment. Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred. Community input and role. Allocation of liabilities, land ownership. A larger entity would be more resilient to some councils opting out of the process. However, the absence of the population centres of Christchurch and Dunedin would still create some challenges.



	Council delivery model	Otago Southland	Ngãi Tahu Takiwā or South Island entity
		Ability to form an Otago Southland entity is a significant risk (unless it emerges as the governments option) as Councils must opt out of reform, and then subsequently engage, commit and fund a voluntary reform process without a suitable structure to do that.	In order to make an informed decision about the benefits or otherwise of opting into reform, it would be helpful to understand the likely position of each council, which will be more challenging with a larger proposed entity.
Impact of transition	There would be no transition, however Council may lose resources to new water entities or transitional bodies in areas where councils have opted into the reform process.	Uncertainty created by the potential change can and will affect existing staff. Attraction, recruitment and retention of key staff is a particular concern for the councils. As this option entails opting out of reform, it is likely that any transition costs (which are likely to be significant) will need to be met by councils.	The issues regarding transition do not differ for a larger water entity. Enforcement of standards during the transition period will need to be carefully managed by Taumata Arowai if council's have a reduced workforce due to staff accepting roles with transition entities. It is anticipated that any costs of transition would be funded by the Government.

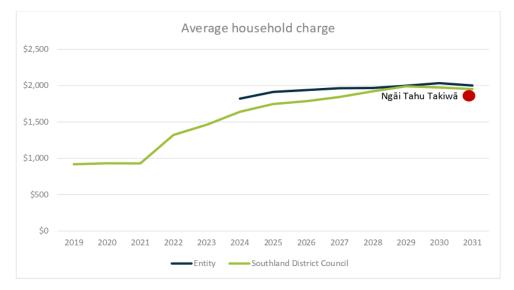


Comparison of household charges

The impact of future investment requirements on household charges has been projected over the ten year long term plan period and is outlined in Figure 3 below. The chart shows household three waters charges reaching:

- \$1,953 under a continued council service delivery model
- \$2,001 in an Otago-Southland three waters entity, and
- Between \$1,700 \$1,900 in a Ngāi Tahu Takiwā entity.

Figure 3 Average annual household charge - three waters entity



A Council without three waters

The removal of three waters from Council itself would clearly create some disruption to Council's current operating structure, which in some cases may be significant. Some of the key issues that may arise from the removal of three waters services from Council are outlined below:

- There would be a reduction in Council's resources of around 15 FTE including 13 of the 17 FTE in the Strategic Waste and Water team, 1 FTE providing GIS support and 1 FTE providing Customer Service support. Due to the size and breadth of the three waters service, in our view there are likely to be minor impacts on staff involved indirectly in the delivery of the service.
- SDC will in our view need to review its structure and service delivery model to most effectively be a
 local government organisation providing a wide range of services and activities to its communities.
 The full extent of the impact on council will be more easily identified once the outcomes of the
 Resource Management Act and Future of Local Government reviews are complete.

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- The formation of large well-resourced water entities across New Zealand may exacerbate the
 resourcing challenge for Council. While most engineers involved in three waters will transfer to a
 new entity, councils will still require skilled engineers to deliver roading, waste, and other major
 capital works. In many cases, engineers in councils are involved in many different projects and
 activities and if councils are no longer responsible for three waters, these staff may no longer find
 their roles are appealing or challenging.
- SDC's three waters debt would disappear leaving the Council better able to borrow for investment into other activities or services.
- Total revenue from Council in 2024 without three waters revenue would reduce from \$96.3 million to \$78.5 million but due to the greater reduction in revenue than operating costs, there is likely to be approximately \$3 million of unfunded expenditure which may be stranded in Council.

Stranded overheads for SDC in 2020 are estimated to be around \$149 per property. Given this is around 15% of current three waters rates it is likely to be a significant cost which will remain with SDC ratepayers. It is unlikely that these stranded overheads would be absorbed or be able to be reduced by Council over time and would be continue to be funded by Council rates but may be appropriately considered to be part of the total cost of water for SDC ratepayers.

Summary

Due to increasing standards and requirements, a change to the way three waters services are delivered is inevitable. The form that this change takes is a decision for SDC to make, and this report presents information to assist with making this decision.

The arguments for and against the opt in or out decision are presented below, alongside the relevant risks of each decision. For simplicity, we note that the opt out decision discussed below relates to SDC opting out of reform and continuing with its existing service delivery arrangements.

The option to opt out of reform and pursue voluntary change into an Otago Southland three waters entity in our view has a very low chance of success and risks Council being left as the service provider. The option requires a coordinated and consistent approach across all of the councils in Otago and Southland. All eight councils in the two regions must opt out of the Government's reform process but have a desire to aggregate three waters services at a more local level. They must then go through a detailed entity design process, fund the transition and entity design process themselves, consult with their communities on the same proposals and ultimately agree. There are limited examples of this being successful in New Zealand and none where asset owning has been part of the model.

In the event that an Otago-Southland water entity emerges as the Government's preferred option, most of these challenges will disappear.

Opting in

Arguments for

- A regional water entity will have increased capability and capacity of three waters staff, depth of expertise and increased organisational resilience to changes in staffing levels.
- A three waters entity would have a skills based board with a single focus on three waters issues and would have an enhanced ability to embed the principles of Te Tiriti o Waitangi and Te Ao Māori

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within its governance framework. There would be no competing interests for investment requirements and funding.

- A three waters entity would have greater financial and technical resources to be able to address compliance issues and make the investment required to comply with new environmental, health, and cultural standards. A three waters entity would also assume most of the risk associated with rural water supplies and private water schemes.
- Average household charges for three waters services are likely to be lower under a three waters entity covering the Ngãi Tahu Takiwā and a three waters entity would have significantly improved financial resilience. When the impact of stranded overheads is considered three waters charges are likely to be similar under the current delivery model and a three waters entity covering the Ngãi Tahu Takiwā.
- Government financial incentives are expected for councils who opt in to the reform process.

Arguments against

- SDC may experience some increased challenges to recruit engineering staff and asset managers to support its remaining activities due to increased competition with a three waters entity and a reduction in variety of work although the effects of this may be limited to certain roles within the organisation.
- There will be a number of new challenges introduced relating to the prioritisation and coordination of investment in three waters infrastructure across the region. SDC will no longer control the timing and location of investment. Instead it will be a shared responsibility.
- There may be a loss of local representation, which would be worse with an entity covering the South Island or the Ngāi Tahu Takiwā.
- A three waters entity would face higher borrowing costs, and a potential credit downgrade, if it were to deliver the full capital works programme for the areas that it covers. We believe this to be a national problem, which is more likely to be able to be solved with a small number of water services providers.

Risks

- Delivery of the full capital works programme at an Otago Southland level, or even with a larger entity would appear challenging. There is a risk that a larger three waters entity may not be able to generate improvements in terms of capital works delivery.
- Without critical mass of all councils there is a danger that the benefits of change will be substantially reduced or lost. This is particularly the case if the population centres of Dunedin, Invercargill, Christchurch, and Queenstown were not involved. A Ngāi Tahu Takiwā would be more resilient to this.
- As a three waters entity may have limited access to sufficient debt to fund its full investment
 programme, it may need to manage competing investment demands from different districts (and to
 achieve different outcomes, e.g. servicing growth versus improving compliance). There is a risk that
 these priorities may not align with local priorities.
- There are still a number of unknown factors about entity design which may have a significant bearing on the comparison of an "opt in" option with an "opt out" option. These include issues regarding:

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- Entity design.
- Council's roles as owner and governor.
- Mechanisms to prioritise local investment.
- Coordination of planning and investment.
- Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred.
- Community input and role.
- Allocation of liabilities, land ownership.

Opting out

Arguments for

- The required level of future investment in infrastructure would appear to be manageable, both financially and in terms of ability to deliver, for SDC based on current forecasts. SDC's debt is predicted to remain well within LGFA lending covenants, and it has previously delivered a similar level of capital works as it is forecasting to require in future years. However, delivery of the full capital works programme at an Otago Southland level, or even with a larger entity would appear challenging.
- A three waters entity would not have the borrowing capacity to be able to deliver the full capital works programme for the areas that it covers without suffering a credit rating downgrade and consequently, higher costs of borrowing. In contrast, SDC is currently projected to have sufficient financial headroom to be able to fund its forecast capital works programme.
- SDC is able to determine the timing and level of investment it makes into its three waters
 infrastructure if it retains control of its three waters assets. Increasing regulatory enforcement and
 standards will still be a significant driver for determining the timing and type of investment.
- There may be alternative options available to council to address many of the potential challenges with continued council service delivery of three waters. These options were not explored as part of this review.
- Household charges are not likely to be substantially higher under a continuation of the council led service delivery model than they would be under a Ngāi Tahu Takiwā or Otago Southland water services entity.
- There is nothing to prevent Council from incorporating formal processes for consultation or engagement with local Iwi or Runanga in decision making for three waters maters.
- SDC has a number of tools at its disposal to address affordability issues within the district (such as the use of rating differentials, UAGCs, rates postponement policies, and rates remissions) which may not be available to a water services entity.

Arguments against

Council is making its opt out/opt in decision within the context that every other council in New
Zealand is also making that decision. In many cases there is a strong and very strong case for change.
The ratepayers of six of the eight councils in Otago Southland would, in our view, have lower water
charges under a regional water entity, but this reduces to five when stranded costs are taken into

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account. The ratepayers of all eight would be better off in a Ngāi Tahu Takiwā. If SDC opts out while other councils opt in, the ability to attract staff or deliver its capital works programme will be further diminished as it will be a small organisation competing with much larger entities. This may also impact on the cost of completing work in Southland.

- While SDC is likely to be able to borrow enough to fund the required investment in three waters infrastructure, the amount that is will be required to borrow will impact on its ability to borrow to fund other activities, or to respond to emergencies.
- With a low (33%) of its population being connected to a council provided drinking water supply, and its predominantly rural environment, there is a significant risk that SDC has a large number of private drinking water schemes within its region, many of which will be non-compliant with future drinking water standards. By opting out, Council will be the supplier of last resort for customers of these schemes. This could present a substantial legal and financial risk for council.

Risks

- If SDC opts out while other councils opt in, the ability to attract staff or deliver its capital works programme will be further diminished as it will be a small organisation competing with much larger entities. This may also impact on the cost of completing work in Southland.
- Any incentives that come with the current reform process will not be available to councils if they opt out of the process. Further, while the costs of transition to the new entities will be covered by the government as part of the current reform process, it is possible that councils that later opt to join any three waters entities may face costs to join or transition to these entities.
- The risks and challenges with future water service delivery in Southland would be significantly increased if the other councils in Otago Southland and the South Island more generally opt in to the reforms.

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Introduction

Background

The New Zealand Government is reforming how drinking water, wastewater, and stormwater (three waters) services are delivered across New Zealand. The reforms began in response to the issues identified following the Havelock North drinking water contamination in 2016 and culminated in a Cabinet paper released on 20 November 2018 where the Government indicated that alongside regulatory changes there may be major structural reform of the water sector. It described a system facing significant issues where:

"the scale of the challenge indicates that the status quo is not sustainable in the long term".

Since that initial cabinet paper in November 2018, the Government has further progressed regulatory reform for the delivery of drinking water, including through the establishment of *Taumata Arowai - the Water Services Regulator* and the progression of the Water Services Bill to select committee in December 2020. A cabinet paper of December 2020 also confirmed the above reform objectives and the Government's desire to proceed. That cabinet paper also recommended that participation in further reform discussions be based on an "opt-out" decision process for councils with that decision to made in mid-late 2021.

Significant changes will flow from the three waters reform that has already taken place and will take place regardless of whether councils opt in or opt out of the proposed water entities. Legislative, regulatory and community expectations of standards are changing. There is therefore no status quo option. Three waters service delivery will change and every council in New Zealand must change in some way and the only means by which the future standards can be complied with is investment.

Investment to meet changing standards will be required in infrastructure, people, process and systems

The question for SDC is whether that challenge is best met through the current service delivery model or some other solution.

- Opting in to the government process will include financial and other incentives (that are not currently defined) and agreeing to transfer responsibility for the service, assets, responsibilities, duties and liabilities for three waters to a dedicated water entity that is not currently defined but expected to cover the Ngãi Tahu Takiwã and look similar to the proposed structure that the Government has presented to local government over March and April 2020
- **Opting out** of the government process means that either Council retain responsibility for three water service delivery or some other arrangement.

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Scope of this report

In late 2020 the Otago-Southland Three Waters office commissioned Morrison Low to undertake a review to examine the impacts and options for three waters reform for the combined Otago and Southland regions. The review has been carried out within the context of the Government's reform programme and has been designed to ensure that it is best able to respond to the recommendations from that programme. In order to ensure that the review focuses on providing decision-makers with the evidence and information that they need to actively participate in conversations with the Government and their communities, this review has:

- Relied primarily on the same information set as is being used by the Government to develop its own recommendations and analysis.
- Been dynamic and responsive to the Government's timeframes such that the agreed deliverables for the review have changed in order to provide decision-makers with relevant information as quickly as possible.
- Compares only status quo (i.e. continued three waters service delivery by territorial authorities) with the Government's preferred option (i.e. transfer of three waters service delivery and asset ownership to a new three waters entity) and a voluntary reform option covering the Otago and Southland regions (which requires councils to "opt out" of the current reform process).

This is the third report by Morrison Low as part of its work assisting the councils of the Otago and Southland regions to further understand the challenges and opportunities facing the local government sector in their regions for the continued delivery of three waters services. The previous reports included:

- Our regional situational analysis which outlined the high-level challenges with continued service delivery at a regional level based on high-level analysis of each council's response to the Government's Request for Information (RFI).
- Our cross-regional current state assessment which examined the challenges and opportunities for three waters service delivery at a disaggregated level across the two regions.

This report has been tailored for Southland District Council (SDC) and examines the benefits and challenges of both retaining and transferring the service delivery of three waters as well as the impacts such a decision would have. It therefore provides the advice to SDC to help determine whether it should opt in or opt out of the government three waters reform programme.

To do so, this report draws on findings of the earlier two reports, and insights gained from our onsite visits to SDC and the other councils in the Otago and Southland regions (as relevant).

While the report attempts to assess the impact of the transfer of ownership and service delivery of three waters into an aggregated entity, we are unable to predict the extent to which the activities and services provided by local government may change (either statutorily or organically), and therefore only compare the immediate impact of the transfer of functions.

The information within this report should be considered to form only part of the total suite of evidence and information available to support decision makers.

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Approach

This is the third report as part of our review of three waters service delivery for the Otago-Southland regions. This report builds on analysis undertaken in our earlier *Regional situation analysis* and *Cross regional current state assessment* reports and has been developed based on:

- A review of asset, service performance, and financial information provided in each council's completed RFI responses and asset registers.
- A review of organisational charts provided by councils to assist with the identification of affected roles and functions.
- Our findings from onsite interviews and meetings held at SDC.
- Detailed financial modelling of each council and an aggregated three waters entity.
- Consideration of impacts of community, governance and levels of service.

The financial information within this report should be considered to be directional only and assumes that councils increase their planned investment to levels that we consider are necessary, and are able to deliver that planned investment. It also ignores the political environment in which rates are set and borrowing is drawn down and the trade-offs that must be made between affordability and levels of service.

Differences between data

The financial analysis set out in this report may differ (but is directionally consistent) with our earlier financial analysis, as the analysis presented herein relies on the results of detailed financial modelling which includes the use of standardised assumptions across the councils, and debt and investment optimisation. The full set of assumptions used in the modelling are outlined in Appendix B, and high-level sensitivity analysis is included in Appendix A.

It is also consistent with our analysis in the *Cross regional current state assessment*, which highlighted significant differences in asset unit rates. In that report we highlighted Dunedin's unit rates as being substantially higher than the other councils, and that Dunedin had a valuation completed as recently as late 2020. The impact of this assumption is outlined in Appendix A.

Alignment of report with three waters reform

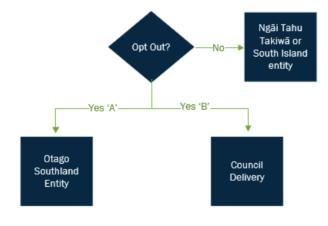
The key question facing SDC is whether to opt out of the reform process or continue to opt in. There is a lot of uncertainty for Council. Chief of which is that the Government has yet to advise SDC (or any council) exactly what the option they are faced with is.

This report has been structured to give the best possible information to Council to support that decision. The figure below sets out our assumption for how the options considered in this report match with a decision to opt out of the reform or opt in.

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Figure 4 Council's decision point



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Current situation – Southland District Council

Three waters services

The delivery of three waters services in the future will be in an environment with increased health, environmental, and economic regulation. These regulations will require changes in services and service delivery. Meeting these changes is likely to be challenging for any provider of three waters.

Southland District is located in the Southland region of New Zealand and has an estimated population (as at June 2020) of 32,500 people. The district covers the largest geographic area of any council in New Zealand, covering over 29,000 km². The land area includes the Fiordland National Park, and the Rakiura National Park (which combine to cover almost half of the total land area in Southland).

The district looks to the city of Invercargill, and the township of Gore as its main centres, although neither of these centres are within SDC's territorial boundaries. The district includes the remote community of Stewart Island/Rakiura, as well as the townships of Te Anau, Lumsden, Riverton and Winton. In most cases, there are significant distances between major settlements, necessitating a network of small water and wastewater schemes.

The Southland District Council is made up of a Mayor and 12 Councillors and has 9 Community Boards. The Mayor is voted in "at large" and the Councillors are voted in by Ward. Each of the Wards have Community Boards. Each Community Board has a Ward Councillor appointed to it by Council.

	Council total	Three waters	Net of three waters
Debt (2021)	\$19 million	\$37 million (194%)	Nil
Operating Revenue (2021)	\$79 million	\$18 million (23%)	\$61 million
Infrastructure assets (book value)	\$1,531 million	\$147 million (10%)	\$1,384 million

Table 1 Financial summary of three waters service delivery

According to its completed RFI, in 2021 SDC is forecast to have \$19 million of external borrowings, and \$37 million of total debt related to the three waters infrastructure, this includes a large amount of internal borrowing.

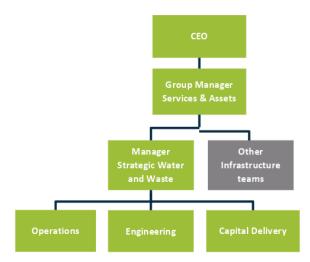
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Structure and resourcing

Southland has a Services and Assets group that includes a Strategic Water and Waste team. Within this team are Asset Management, Engineering Services and Capital Delivery resources. There are 13 FTE working on water in this team including 4 current vacancies.

Figure 5 Southland District Council three waters team structure



We have assumed that in the event that Council chooses to retain three waters services that it is unlikely to change its overall delivery structure.

Support for the strategic water and waste team is also currently provided by:

- Human Resources who provide support throughout the employment lifecycle. The organisation has one HR manager and one senior HR advisor who both provide some support to three waters.
- Finance who provide a dedicated three water accountant and business partner to support with budgeting, forecasting and project accounting up to 2 FTE.
- Capital Delivery Team who support three waters to varying degrees depending on the size and scale of projects that need to be delivered at any particular time up to 1 FTE.
- Information Systems who are responsible for software licensing, IT helpdesk services and GIS services. There are 2.5 FTE involved in the provision of GIS services across the organisations with 1 FTE focussing on water.
- Communications and engagement who currently employ 9 FTEs and are responsible for all social media engagement, printed media, advertising, etc. Three waters are a high user of this service up to 1 FTE.
- Contact centre who take calls for water and non-water related issues. The contact centre currently
 employs 8 FTEs, and there may be some ability to reduce capacity by 1 FTE here with three waters
 removed.

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SDC operates out of three offices within Invercargill (plus a number of district service centres), of which only one is currently owned by Council.

Key issues

SDC's drinking water levels of compliance and levels of service are good for the Otago-Southland region, with over 56% of its total drinking water supplied receiving chemical treatment, and only 4% (or one treatment plant) receiving simple disinfection only. Southland also had the lowest rate of mains bursts per 10km, and the second lowest rate of unplanned water service interruptions per 1000 properties in the Otago-Southland region in 2020

However, only 12% of the wastewater treated in SDC is subject to tertiary level treatment, and 73% of treated wastewater is discharged to freshwater environments. This combined with a high number of consent renewal programmes being planned over the next ten years may create significant future investment challenges as increasing environmental standards and cultural expectations may drive costs higher than what is currently provided for.

The required future investment for three waters services in SDC will see three waters debt exceed \$78 million by 2031, and total Council debt exceeding \$136 million. Council's debt to revenue ration rises to 120% but remains well below the LGFA threshold. Council is therefore able to debt fund the required level of investment but at that level three waters will start to impact the extent to which other activities and services can use debt.

Our forecasts anticipated that the increased investment requirements, and associated impact on annual operating expenditure may result in three waters charges being as high as \$1,953 (uninflated) by 2031. Despite being an almost 210% increase on current charges, these are likely to be among the lowest three waters charges in the Otago and Southland region.

Wider context

The nature, extent and pace of the three waters reform is now widely documented and understood. It will be far reaching and change service provision for three waters at a national level. This is relevant because Councill's opt out/opt in decision will not be made in isolation. The decision of all other councils in New Zealand and particularly Otago and Southland has flow on impacts for SDC, its communities and the decision Council makes.

In July 2020 the government announced a \$500M three waters stimulus package to encourage councils to be part of the reform programme. There is expected to be incentives for councils to remain in the three waters reform programme, although at this stage we do not know what those are.

Equally, the government through Taumata Arowai, Regional Councils and the new economic regulator that will be established is expected to increase relevant standards and requirements and with greater resource and focus on compliance, create a regime that will hold the service providers to account far more strongly than in the past.

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What options were considered?

Status Quo

Under this option Southland District Council would continue to retain responsibility, duties, obligations and liabilities for three waters:

- service delivery
- asset ownership
- resourcing (employees, consultants and contractors).

While this approach would see no change to service delivery arrangements, it will still require significant additional resource and investment in infrastructure to meet changes to three waters standards, regulations and the new regulatory framework where there is increased environmental, health, service and economic regulation of three waters.

Three water service delivery entities

The Government's three waters reform programme has a clear and open objective of transforming the delivery of three waters services through structural reform. This will involve the establishment of publicly owned, asset owning three waters service delivery entities and, should a council choose not to "opt out" of the process, the transfer of council's assets and liabilities into such entities.

If the delivery of three waters services and the consequential asset ownership is transferred to a new water entity, then any related funding, assets, resources, and liabilities are likely to be transferred with it. This would mean that Council would no longer be responsible for setting charges, managing investments, and borrowing or operating any of its current three waters services. The obvious, most immediate effects of this will be a reduction in revenue, operating expenses, assets, and debt.

Staff directly involved in the delivery of three waters services will also be transferred into a new entity, while some staff that support three waters may also transfer (predominantly those that are 100% supporting the delivery of three waters). Staff that spend only part of their time supporting three waters are likely to retain their roles within SDC, and there is sufficient workload within the organisation to ensure a continued meaningful role for these staff in the absence of three waters.

The two dedicated water entity options considered are

- Otago Southland would include the territorial authorities with Otago and Southland, and most likely
 would need to be the result of a voluntary process that would take place outside of the current
 government driven reform.
- Ngāi Tahu Takiwā would include the areas encompassed by all South Island territorial authorities except Nelson, Tasman and Marlborough. This option is considered to be the most likely option under the government driven reform and is the "opt in" option.

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The table below sets out high level information comparing potential aggregated water entities for Otago and Southland and the Ngāi Tahu Takiwā.

Table 2 Comparison of options for three water entities (2021)

	Otago Southland	Ngāi Tahu Takiwā
Number of Territorial Authorities	8	21
Replacement cost of infrastructure assets	\$11.2 billion	\$28 – 30 billion
Debt	\$1.93 billion	\$6 – 7 billion
Annual revenue	\$415 million	\$0.9 – 1 billion
Annual operating expenditure	\$383 million	\$0.9 – 1 billion
Water connections/ratepayers	About 141,000	About 420,000
FTE	Around 240	Over 500

Assumptions

The government has provided limited detail about the ultimate structure and design of the proposed three waters entities, and the mechanisms that will be put in place to ensure that they will deliver on the government's stated objectives and principles of reform. It is unclear whether this detail will be available at the time that councils will need to make their decisions.

For the purposes of this report we have assumed that the proposed entities will be able to deliver on these principles. The key assumptions about council service delivery, an Otago-Southland region entity and a Ngāi Tahu Takiwā regional entity are set out in Appendix B and C.

- Appendix B Data and financial modelling including treatment of:
 - Asset values
 - Planned capital investment
 - Renewals
 - Depreciation
 - Use of RFI data
- Appendix C Entity design including:
 - Governance
 - Ownership
 - Assets and debt
 - Stormwater
 - Revenue and charging

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Assessment of the options

This section of the report presents an assessment of the options using a range of non-financial and financial criteria so that both the benefits and the challenges of each option in the future delivery of three waters services are considered. The section largely draws on analysis undertaken in our *Cross regional current state assessment* report, with additional information from our on-site visit of SDC and detailed financial modelling included.

Its aim is to provide a comparison of the impacts of three waters service delivery under aggregated delivery models, and under the status quo, to allow decision-makers to assess the impacts of reform on their council, and for their ratepayers.

Due to time constraints and the later emergence of the option we have not analysed the Ngāi Tahu Takiwā option to the same extent. Where appropriate and relevant we have provided high level commentary on how the impacts of a larger entity would differ from that of one based around Otago and Southland.

Key outcomes achieved, and the impacts on councils, are discussed through both the qualitative and quantitative lens. While the financial performance of a new entity is not the only relevant consideration, it is an important one, with affordability and the ability to fund and deliver the potential required investment in three waters infrastructure being cited as two of the main investment drivers for the Government's three waters reform programme. We have focused on these details as they are typically easily understood and demonstrate the scale of the challenge for the Otago and Southland regions.

However, a three waters entity is also likely to deliver increased capability and capacity to the delivery of three waters in the two regions, as it will have sufficient scale, and dedicated focus on the delivery of three waters services. It is this scale, capability, and capacity benefit that will likely give rise to longer term efficiencies and improvements to customer levels of service.

Many of the local issues identified here are common to all of the councils in Otago and Southland as well as those across New Zealand. In many respects, it is that similarity that is driving the Government's reform programme and their proposed solution to aggregate services to address these common issues. Each council is however unique in the way the mix of different risks and opportunities arise and their impact on their community and where this is the case, we have highlighted those different considerations.

For example, Southland has a potential challenge relating to future wastewater discharge requirements, and the management of rural drinking water supply schemes. Dealing with these issues means that continued delivery of three waters services by SDC is likely to be highly challenging, with investment needs driving high levels of potential borrowings, and the impacts of increased regulatory costs being passed on to ratepayers.

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Capability and capacity

Council

Capacity and capability give an organisation an appropriate level of expertise and resilience. In relation to three waters an organisation needs strategic, technical, and operational capacity and capability. Strategic capacity is important to ensure good long-term asset investment decisions are made.

The entire three waters sector is facing capability constraints at a national level. 13% of all existing three waters roles in the Otago and Southland regions are currently vacant. Southland has four current vacancies in three waters.

The competition for human resource will increase throughout the sector as in many cases other councils are also planning to increase the size of their three waters teams and will effectively be competing with each other to attract resource. This could be further exacerbated by the establishment of large, multi-regional three waters entities which will have the size and scale to attract a high level of talent and offer clear career progression pathways and a diverse range of challenges.

Through our conversations with People and Capability Manager and the General Manager of Services and Assets in SDC it was apparent that attracting talent into SDC has been challenging. For example, one recent vacancy has had to be advertised twice and has yet to be filled. On occasion, Council has had to advertise offshore to attempt to attract the requisite skills, although this is more challenging with current Covid-19 restrictions.

SDC also struggles with an aging workforce in the three waters space with a number of staff holding institutional knowledge and some indicating that they are likely to retire in coming years.

These recruitment challenges are common across the Otago and Southland regions and are broadly a reflection of a nationwide skills shortage. However, attracting staff to provincial areas is particularly challenging and can result in protracted recruitment processes, or the need to consider alternative approaches (such as hiring from overseas or developing talent internally).

Regional water entity

If a single three waters entity covering either the Ngāi Tahu Takiwā or the Otago and Southland regions was created, then it would remove any competition between councils for resources. There is a shortage of specialist resources for three waters across New Zealand and internationally, and while a regional entity will not in and of itself create new resources, it will be able to make better use of the specific skills and expertise of its existing resources across the region in which it operates for the benefit of all areas within the region. So, unlike now, resource constraints would not disproportionately impact any individual district.

A larger entity and the staff, contractors and consultants involved in it would provide sufficient scale to create strategic capacity across the region and support the areas where there is currently a gap. Scale, capacity and capability give a level of expertise, depth of resources and resilience in three waters that can be applied regionally, benefitting all ratepayers of the region rather than only some as is the case now. Importantly the capacity and capability is shared across the region in an ongoing and sustainable way and the burden on smaller communities would be reduced.

A regional water entity would provide greater opportunities for carer development and progression than an individual council can offer.

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These benefits would be expected to increase if the entity was across the Ngāi Tahu Takiwā compared to an Otago-Southland entity.

There are however challenges with the creation of regional water entities and the potential for resources to be centralised and pulled away from rural communities. In our view there is likely to be an overall increase in resources if a regional water entity was formed and there will always be a need for some roles to remain disbursed but until the Government model is finalised this is a risk that the Councils must continue to manage through ongoing engagement with Government.

Governance

Council

Governance of three waters services in SDC is provided through committees and sub committees of Council, including:

- Services and Assets Committee Responsible for overseeing Transport, Property management
 including community facilities, acquisitions and disposals (including land dealings), Forestry, Water
 supply, wastewater and stormwater. This committee is comprised of all elected members.
- Three water supply committees for each of Te Anau Basin, Five Rivers and Matuku, and which are
 each responsible for the overall governance of the respective water supply scheme in accordance
 with the policies of Council. These committees include elected community members and in the case
 of Five Rivers and Matuku, a ward councillor.

The committee has no formal lwi or Rūnanga representation, but there is nothing preventing Council from doing that or recognising Treaty partnership principles in some other way.

Regional water entity

We have assumed that the same governance model would exist in both the Otago Southland and Ngāi Tahu Takiwā options. We recognise that ultimately this may not be the case as the Government will dictate the option that is presented under this model.

A key goal of Government in the reform process is to provide mechanisms for enabling lwi/Hapū input so that Māori rights and interests are considered in the new service delivery system. In December 2020, Cabinet agreed to a high-level principle of partnership with lwi/Māori, which will be followed throughout the reform programme, and reflected in the new service delivery plan, and in the proposed model (shown below) and in particular the Governor Representative Group.

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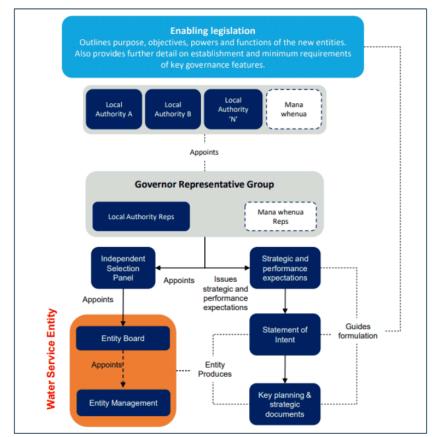


Figure 6 Governments "Emerging structure" for proposed three waters entities³

While the new model provides a better recognition of a partnership with Iwi/Māori than the current approach it increases the separation between the community and the service provider. Currently there is a direct democratic connection but the new model changes that, deliberately. The sense of separation from the community is only likely to increase the larger an entity was. The communities role and how they exercise it will fundamentally change.

While the draft model proposed by the DIA as part of their consultation process is not a CCO, we note that it has become accepted practice that an integral element of creating effective service delivery entities is establishment of a new governance framework, including the appointment of independent competency-based boards. The Auditor General has reinforced that by saying that appointing elected members to Boards of CCOs should be the exception⁴.

³ Source: "Department of Internal Affairs: Three waters reform programme – March 2021 Local Government and Iwi/Hapū engagement" retrieved from <u>https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/Three-Waters-Reform-Programme-March-Engagement-slides.pdf</u> on 3 May 2021

Governance and Accountability of council-controlled organisations, Office of the Audit General, September 2015

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In our view there will be an improvement to risk management processes and practices that are driven by the Board because they will bear all the associated duties, obligations and liabilities of company directors (or equivalent) rather than having the current statutory protections of councillors.

Compliance and levels of service

Council

Investment in level of service enhancement is the largest driver of infrastructure spend in SDC, and a significant component of this spend is to increase compliance with new regulatory standards. Our cross-regional current state assessment highlighted the differing levels of service provided by each council in the Otago and Southland regions.

Southland has the lowest rate of water mains bursts

SDC's drinking water levels of compliance and levels of service are good for the Otago-Southland region, with over 56% of its total drinking water supplied receiving chemical treatment, and only 4% (or one treatment plant) receiving simple disinfection only. Southland also had the lowest rate of mains burstener 10km and the second lowest rate of un

the lowest rate of mains bursts per 10km, and the second lowest rate of unplanned water service interruptions per 1000 properties in the Otago-Southland region in 2020.

The only Water Treatment Plant in SDC that is likely to be non-compliant with the protozoal standards in the Drinking Water Standards treats smaller volumes of water and relates to one of the district's rural water schemes.

SDC has the second lowest number of wastewater treatment plants providing tertiary treatment however, with only 12% of the wastewater treated in Southland being subject to tertiary level treatment. In addition, 73% of the district's treated wastewater is currently discharged into a freshwater receiving environment.

In terms of investment requirement, the largest level of service investment outlined in Southland's RFI is the potential upgrade of the Winton wastewater treatment plant. However there are a number of planned consent renewals during this period, and we understand that in most cases discharging to land is unlikely to be a viable option, as the soil is typically unsuitable for this type of discharge. Because of this, the potential future investment requirements could be significant for the district.

If three waters service delivery remains with Council, then SDC will need to continue to fund the required level of service investment directly (as it is forecast to within its Long-Term Plan). This will require a sustained period of investment that will require water charges to double over 10 years. Cost increases like this will come with community pressure and if Council deviates from that path it will need to accept the additional risk associated with continued non-compliance.

Private schemes

Under the draft Water Services Bill councils are considered to be the supplier of last resort for drinking water services provided within their territorial boundaries. This means that in the event that a private drinking water scheme fails or ceases to provide drinking water, Council may be responsible for ensuring continuity of supply to households serviced by that scheme.

The risk of this occurring is a significant concern for most councils that we spoke to during our on-site visits, particularly given the increased enforcement of drinking water standards that has been proposed and the

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increased levels of personal liability associated with non-compliance.

In the event that three waters reform proceeds, we understand that the Government would most likely transfer the obligation to act as the supplier of last resort to the new water entities. It is not yet clear whether this would extend to giving the new entities the powers to forcibly takeover the management of schemes, or to act as the supplier of last resort in districts where councils have not opted into the reform process.

While the number of private schemes in SDC is unknown the proportion of population that is connected to a water supply scheme provides a proxy for the scale of the risk. SDC the lowest percentage of connected population in the two regions, at only 33%, and as a rural council can be expected to proportionally have a higher number of private suppliers.

Regional water entity

An aggregated water entity would have the ability to concentrate on three water challenges and prioritise investment decisions across the region, leading to improved environmental and community outcomes than the councils can individually achieve when considered regionally. An entity could prioritise investment into the areas where the greatest benefit could be achieved.

The organisation would have a single focus. It would not be faced with trade-offs as is the case now where councils must juggle multiple competing priorities for investment and resources. It would not be subject to the same political pressure over rate increases. Pricing will be regulated by the economic regulator, not through the annual planning process.

The particular risks for the Otago Southland region include:

- Compliance risks in the current system: thirty five percent (35%) of the regions drinking water (by volume) does not meet protozoa requirements of the Drinking Water Standards.
- Seventeen percent (17%) of the resource consents for wastewater treatment in the region have already expired, and a further twelve percent (12%) are due to expire within the next 5 years, this creates a legal, regulatory and financial risk for the region.
- Eighty two percent (82%) of the three waters pipe network across Otago and Southland is in an unknown condition and therefore there must be uncertainty about the future investment requirements and risks that these could be greater than estimated.
- Under a status quo approach the future cost of three waters services that comply with the increased standards could be unaffordable in some communities.
- A larger aggregated entity should be in a better position to undertake the actions required to address these risks through opportunities to realise economies of scale, improved asset management and management of risk enabling funding and delivery of larger scale investment programmes. This should allow an entity to better meet any increased compliance requirements or increased environmental standards than the councils can.

These increasing service levels and compliance requirements are driving investment into systems, processes, resources and infrastructure. Our view is that it is unlikely that all councils in the regions have sufficiently allowed for all of the increased operating costs that these will create. There is therefore a risk that the compliance cost increases currently projected by the councils (including SDC) will be greater than forecast. A

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regional entity with greater depth of resources will be better placed to respond to system wide compliance requirements and the administrative workload of dealing with the regulators and regulatory regime.

Infrastructure assessment

Future investment requirements

The Government's three waters reform programme that is being managed by the Department of Internal Affairs conducted a series of workshops across the country in March 2021. These workshops presented some of the preliminary findings from analysis of the responses to its request for information to the local government sector. The workshops highlighted the national investment challenge as being one of the major drivers for reform.

The workshops noted:

- A total investment requirement over the next 30 40 years of between \$110 \$170 billion across the country.
- Current national investment of only \$1.5 billion per year across the country (equating to \$45 billion over the same 30 year time frame).

Our assessment of the future three waters investment is that SDC requires a total of **\$151M** over 10 years with an average annual spend of approximately \$15.1 million per year (real, 2021 uninflated). The primary driver for capital investment in SDC is level of service enhancement, followed by renewals with negligible growth investment for Southland.

Although similar, the main drivers for our uplift in planned investment in SDC, as compared to its own RFI, relates to an adjustment to reflect differences in values of assets and unit rates, and minor additional costs relating to potential wastewater treatment plant upgrades. \$151 m of capital expenditure on three waters over 10 years

Our assessment includes an uplift in planned renewals investment for SDC from the \$32 million they had forecast to \$54 million over the ten years based on a comparison with rates of deprecation and the remaining useful life of assets.

Our analysis of RFIs completed by the councils of Otago and Southland, as well as our review of information provided in asset registers, was presented in our earlier *Cross-regional current state assessment* report (March 2021) and identified between **\$2.3 – 4.7 billion** of capital expenditure across the two regions over the next 10 years. Our modelling assumes a total of \$3.9 billion.

The issue is whether Council or a regional water entity is better able to plan, deliver and fund the requirement level of investment.

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Delivery

Council

The ability to deliver on a capital works programme may have a significant impact on debt projections, rates and operational risk. As a sector, local government in New Zealand has historically been unable to deliver its full capital works budget.

SDC has itself had challenges in doing that and in 2019/20 delivered 81% of the planned programme (based on budget and actual expenditure)⁵. However, the capital programme achieved in 2020 of \$15M is sufficient to meet our estimate of the future investment requirements of an average of \$15 million per year each year until 2031. This is unique

Council's current level capital works delivery is sufficient

amongst the Otago Southland councils where all others require a significant, sustained increase that will present a challenge to them if they remain as service provider.

There is a risk around the councils, individually or collectively, being able to deliver the increased infrastructure investment required. The Otago and Southland councils, like most New Zealand councils, have generally struggled to deliver their capital programmes each year. Yet, the forecast investment required in three waters for the eight councils will more than double from \$101M in 2020 to an average of \$230M per annum each year over the next ten years.

Dedicated water entity

A larger aggregated entity should be better able to develop a coordinated programme and enable effective working relationships with service providers to ensure that the operation of three waters conforms to contracted services and performance levels across the region. This includes improving transparency and accountability for the delivery and costs of three waters services, including the ability to benchmark the performance of service suppliers. The greater depth in capacity, in particular in strategy, planning and programming should help support delivery of such a large programme of work.

However, the challenges with delivering the increased capital works programmes are likely to continue for some time until the industry prepares to increase its capacity, and long-term coordinated capital works programmes are developed and finalised.

There is also a risk around the ability of an individual council to meet the investment requirements if it was competing for scarce resources with a regional water entity (locally) and entities (nationally).

Providing for growth

Council

Under the current model SDC has control over the growth in its district and largely dictates the timing of growth through the provision of three waters and other supporting infrastructure. This may be directly through construction or through vested assets built by developers in accordance with SDC standards and passed over to Council.

SDC has allowed for nominal growth in the number of connections to its network of 1,000 additional

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⁵ We note that capital delivery in the 2020 financial year was impacted by Covid-19 restrictions



connections during the ten year modelling period. This is supported by only a nominal amount of investment in growth infrastructure being included within Southland's RFI.

District planning, including the identification of new areas for housing, commercial and industrial activities, is currently an activity that looks across Council's activities and roles. The process considers factors such as, but not limited to, placemaking, transportation (including public transport), supply of greenspace, and availability of infrastructure.

Regional water entity

Shared responsibility for growth infrastructure creates risks for individual councils One of the most significant changes introduced through an aggregated water entity is the change from the current full council control over providing for growth and investment priorities into the broader regional mandate of the water entity. Councils have control over broader growth planning and infrastructure provision for their areas but for three waters that will largely transfer to the water entity. Growth planning and the provision of infrastructure will effectively be shared between councils and the water entity. Shared responsibility can create duplication, gaps and has potential risks.

There will be a need to balance regional priorities with local in order to achieve best overall outcome for the region. There is a risk that SDC's priorities do not match the entities priorities for investment, either in timing or absolute terms. If the entity was covering the Ngāi Tahu Takiwā then the issues are only likely to be more complicated and balancing individual communities' priorities with the needs of the region more difficult.

The Government's consultation programme has indicated the development of a regional spatial planning process to guide that, but without the detail of how that operates it is an important risk as there will be change. It is an area council's must work with government on in order for communities, councils and a water entity to be successful.

District planning will require additional interfaces with the new water entity. In some cases a water entity may have different motivations than council, and is likely to place a greater focus on the provision (and cost of providing) infrastructure.

If considered regionally then the development of a single set of standards and a consistent approach to their application across the region will simplify things for developers and community.

Financial assessment

The financial analysis presented in this section builds on the previous work undertaken to support our *Cross regional current state assessment*, and our *Regional situation analysis* reports. The analysis uses our financial models to optimise debt and standardise forecasting assumption across each council and the proposed entity itself. These assumptions, which are outlined in Appendix B, are based on our experience and understanding of the Government's reform objectives but are unlikely to match Council's own projections.

In this regard, the forecast should be considered to be directional only, noting that any change to underlying assumptions will impact both the entity and Council.

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In our view, the most significant financial issues arising from meeting the total investment challenge are likely to be the impact on a council's debt, and the impact on ratepayers. These issues are covered below.

Impact on household charges

Council

We estimate that three waters charges for SDC households may increase by almost 210% in real terms from approximately \$929 per property in the 2021 financial year to around \$1,953 in 2031 (in 2021 dollars). When an allowance for inflation is included (using BERL LGCI cost index) this figure is as high as \$2,731.

In some cases, ratepayers may only receive one or two of the three waters services. In this case, a comparison of the three waters rate may not be helpful. The table below sets out the estimated current⁶ and future household charges for each of the three waters.

Table 3 Comparison of water, wastewater and stormwater charges

Water charges increase 210% (before inflation)

	2021 charge (ML adjusted)	2031 estimated charge - SDC
Water	\$469	\$816
Wastewater	\$415	\$945
Stormwater	\$45	\$191
Three waters	\$929	\$1,953

Affordability of these water charges should not be measured in absolute terms and should also consider the costs that a community can bear. In the Water NZ 2017-18 National Performance Review it considered relative affordability of water and wastewater services. It referred to varying international water affordability metrics for water and wastewater services ranging from 2 - 5% of household income⁷.

By this metric SDC exceeds the lower threshold for affordability issues in 2024 and by 2031, water and wastewater charges equate to approximately 2.4% of median household income.

An affordability metric that considers only the median household income in a district masks the impacts that increasing water and wastewater charges may have on the more vulnerable populations that are on fixed incomes. 4% of SDC's population receives benefit support of some kind, and a further 16% receives a pension.

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⁶ For comparison purposes we have estimated 2021 water charges using the same approach as our estimates for 2031. Importantly, this means the 2021 charges shown here may not match the charges set by council. The 2021 charges shown here are intended to provide a useful baseline to demonstrate the scale of uplift in costs.

²⁰¹⁸⁻¹⁸ National Performance Review, Page 7



Projected water and wastewater charges in 2031 for SDC reach

- 7.6%, the jobseeker support for a sole parent.
- 6.7% of the pension rate for a single person living alone under the status quo.

We note that this analysis may not be fully representative of affordability for these groups however, as many pensioners will have the ability to draw on retirement savings or equity and may have additional income streams. Similarly, beneficiaries are less likely to be directly liable for paying these charges, and our analysis also excludes any additional allowance by way of the accommodation supplement.

Regional water entity

The Water Industry Commission of Scotland (WICS) noted, in their report to the New Zealand Government (the WICS report), that a three waters service delivery entity could be expected to achieve operating efficiencies of between 10 - 40% over a time period of 10 years (after adjusting for inflation and level of service improvements)⁸. It also indicated potential capital works savings in the order of 45% over a period of 30 years.

Our own work has indicated savings of a similar (albeit slightly less ambitious) scale may be achievable (we estimated 11% operating savings in 10 years, and 10% capital savings in 10 years). In our experience, these savings typically relate to:

- efficiency doing things right, with less inputs, e.g. a reduction in the costs of contracted services.
- effectiveness doing the right thing, e.g. reduction in re-active maintenance from improved asset management practices.
- efficacy setting the right objectives (as it relates to three waters, e.g. asset management).

It is important to note that establishment of a new entity will likely take considerable time to deliver benefits and will not necessarily solve all existing issues, for example, addressing capital investment backlog or affordability. An early Frontier Economics report commissioned by DIA concludes however, there is considerable international evidence to suggest that reform, when accompanied by a suite of other governance and regulatory reforms, has led to improvements in performance⁹.

The impact of the modelled capital and operating savings are outlined in the table below with 2031 highlighted in the table as it is not until that point that a regional water entity begins to deliver savings through to the ratepayers.

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⁸ This assumes that an economic regulator is also established. WICS made no attempt to attribute benefits between regulation and aggregation.

⁹ https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-documents/\$file/Frontier-Economics-review-of-experience-withaggregation-in-the-water-sector.pdf



Table 4 Potential savings

	Three waters entity	Saving
Capital expenditure 2024 – 2035	\$2.9 billion	4%
Operating expenditure 2024 - 2031	\$2.86 billion	2.7%
Annual operating expenditure 2031	\$383 million	6.6%

We have not undertaken detailed modelling or analysis on a Ngāi Tahu Takiwā entity to complete the above table, however, we note that we would expect such an entity to have 2 – 3 times the level of capital and operating expenditure of an Otago-Southland entity. Similarly, we would expect savings within a larger entity to be larger, or more likely to be able to be achieved.

Our modelling focusses on the ten year period outlined in SDC's responses to the Government's RFI and covered by SDC's latest (draft) long-term plan. Our analysis shows that the potential operating and capital savings only begin to have an impact on household charges at the end of the modelling period. These efficiencies could be expected to have an increasing effect on household charges beyond that.

Three waters charges are likely to be lower under the status quo (Council delivery model) than under a regional water entity covering Otago Southland for ratepayers in Southland in most scenarios. \$2,001 – average household water charge in 2031 (uninflated)

	Water charge	Wastewater charge	Stormwater charge	Three waters charge	Increase (%) vs 2021	2031 range
SDC	\$816	\$945	\$191	\$1,953	210%	\$2,010 - \$3,087
Otago Southland Water Entity	\$841	\$882	\$277	\$2,001	215%	\$1,785 – 2,216
Ngāi Tahu Takiwā ¹⁰	\$600 - 700	\$800 - 850	\$300 - 350	\$1,700 - \$1,900	194% ¹¹	No information

Table 5 Comparison of three waters charges in 2031

¹⁰ The estimate of household three waters charges for the Ngāi Tahu Takiwā has been prepared based on limited information and contains a number of assumptions and high level estimates.

¹¹ Based on midpoint.

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7.4 Attachment A



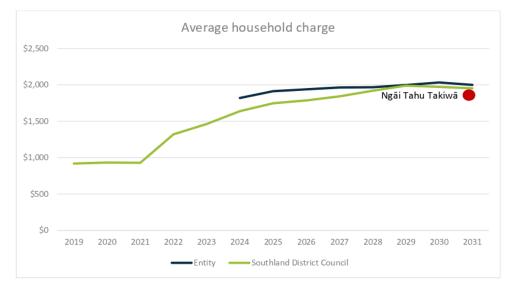


Figure 7 Average annual household charge – three waters entity

The three waters entity breaches 2% of household income threshold on establishment but has a similar outcome over time as Council alone. Under a regional water entity covering Otago Southland, projected water and wastewater charges in 2031 for SDC ratepayers reach:

- 7.4% of the jobseeker support for a sole parent,
- or 6.5% of the pension rate for a single person living alone

The improvement highlights the influence of stormwater charges.

Given the likely reduction in three waters charges in a larger entity covering the Ngāi Tahu Takiwā we would expect household affordability for water and wastewater service to be further improved for SDC ratepayers under such a model.

However, with the water services entity it is likely that charging mechanisms for renters may change. Under the current council delivery model, water charges are incorporated into rates bills and are covered by landlords in the first instance (and recovered in rental income). A water services entity would likely have a direct billing approach meaning tenants in rented properties may have to cover these costs directly (and there is unlikely to be a complimentary reduction in rent).

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Table 6 Comparison of affordability of three waters charges

	Three waters Estimated charge (2031)	Two waters estimated charge (2031)	Two waters % of average household income (2031)	Two waters % of pension (2031)	Two waters % of job seeker support (2031)
SDC	\$1,953	\$1,762	2.4%	6.7%	7.6%
Otago Southland Water Entity	\$2,001	\$1,723	2.4%	6.5%	7.4%
Ngāi Tahu Takiwā Entity	\$1,700 - \$1,900	\$1,400 - \$1,700 ¹²	1.9% - 2.3%	5.3% - 6.5%	6% - 7.3%

Resilience

A key benefit of a regional water entity is the larger population base it serves. This provides the entity with more financial resilience. Potential future price shocks within the Otago and Southland regions may include:

- The costs to meet increasing drinking water and wastewater standards.
- The valuation of assets, and in particular, the potential under-valuation of underground assets, and the consequential impact of that on planned capital investment.
- The significant level of investment in renewals that is required in the district and in the wider region.

Debt

The scale of the capital investment required will need to be funded by debt. This is an entirely appropriate funding mechanism for three waters infrastructure. However, debt is also a significant driver of cost, with financing costs accounting for an increasing proportion of total operating cost as investment requirements grow, and a need for the eventual repayment of that debt.

The question is whether there are differences with either a regional water entity or with Council and if so whether those are benefits or challenges.

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¹² We have not assessed two waters charges for a Ngāi Tahu Takiwā entity, and this range assumes that two waters charges in such an entity would be similarly lower than three waters charges as we have observed in Otago and Southland.



Council

The forecast debt position and debt to revenue ratio for the three waters is for three waters debt to exceed \$78 million (or 374% of three waters revenue) in 2031. Given the local government funding agency's borrowing covenant of 280% of revenue, the serviceability of three waters debt in SDC will become somewhat dependent on revenues from other activities (thereby constraining the ability of those other activities to borrow).

While we are unable to predict what the impact of our increased investment programme would be on planned borrowing for other Council

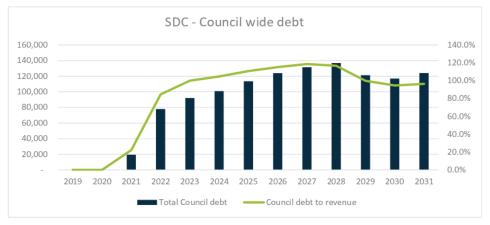
\$78 million of three waters debt in 2031

activities, we have attempted to predict total Council debt in the chart below. This assumes that Council does not alter the amount of debt, or revenue, that it requires to fund its other activities in response to the increasing funding requirements for three waters (although we would anticipate that such adjustments would be inevitable).

This shows an increase in debt, peaking at \$136 million in 2028, and a debt to revenue ratio that peaks at 118% for SDC as a whole.

This shows that even with three waters service delivery Council will not become debt constrained.





Regional water entity

By 2031 a three waters entity is forecast to have debt totalling:

- Between \$6 6.5 billion, and exceeding 600% of its annual revenue, in a Ngāi Tahu Takiwā entity.
- \$1.9 billion, or 465% of its annual revenue, in an Otago Southland entity.

This represents a small reduction compared to simple aggregation which is achieved through efficiency improvements.

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However, we estimate that a regional three waters entity covering the Otago and Southland region or at the Ngāi Tahu Takiwā will breach both the LGFA lending covenant, and the debt to revenue covenants that would likely be imposed by the credit agency Moody's if the agency was to seek a Baa/Ba credit rating.¹³

This means that either regional water entity would have to rely on Government subsidies or higher user charges to be able to afford the current investment programme.

Sensitivity testing outlined in Appendix A shows that this is likely to be the case regardless of the assumptions adopted in our modelling.

Borrowing will exceed lending covenants or investment constrained

Alternatively, the three waters entity could delay or stage investment to ensure that it remains within the borrowing limits, but delayed investment is one of the many potential causes of the current issues with three waters service delivery within the local government sector.

The challenges for an Otago Southland regional water entity or Ngāi Tahu Takiwā entity to be able to borrow sufficient funds to meet the required investment programme is considered a major impediment to the viability if an Otago Southland three waters entity. It appears from a recent newspaper article "Water reforms hit an expensive snag, as cost estimate rises to \$185b"¹⁴ that this situation may be replicated across the country which could provide for further incentives or changes.

The issues regarding the total debt for proposed water entities should not be underestimated as they are likely to be an impediment to the overall effectiveness of the proposed entities if they are unable to be resolved.

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¹³ Per the WICS report. Note that the LGFA currently has an AA+ rating for foreign currency lending from Standards and Poors – equivalent to an Aa1/Aa2 rating from Moody's. A Baa/Ba rating would likely result in higher borrowing costs than can be obtained through the LGFA.

¹⁴ https://www.stuff.co.nz/national/politics/300309952/water-reforms-hit-an-expensive-snag-as-cost-estimate-rises-to-185b



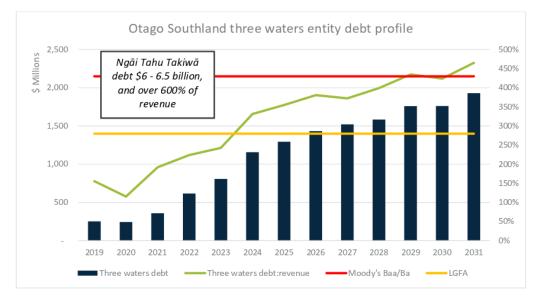


Figure 9 Debt to revenue ratio versus LGFA and Moody's benchmarks – three waters entity

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What would the impact of change be?

A change in role for Southland District Council

If three waters was transferred out of Council, then in our view SDC is likely to be large enough to have a continued and meaningful role in its community following three waters reform, however additional Government reform around the Resource Management Act, and the recently announced review of the future of local government may have a significant impact on this. It is likely however that, in the absence of three waters, that SDC will need to go through a period of organisational review and refocus to ensure that it is able to provide sustainable, meaningful contributions to its communities.

Many Council teams have resources at or close to capacity. The removal of three waters services from Council will free up some of this capacity. The three waters team in Southland is relatively independent and provides only minimal support to other Council activities. This means that the removal of the three waters team from the organisation will not be overly disruptive to the continued operation of Council's other activities.

Transfer of responsibility for delivering water to a new entity will mean the Council (from the Councillors, through its leadership and operational staff), will have the opportunity to reassess the ways in which it can effectively deliver on other issues for its community with its remaining resource. For example, the removal of three waters roles may provide an opportunity to evolve the remaining organisation structure to respond to the wellbeing of their communities as detailed in The Local Government (Community Wellbeing) Amendment Act 2019.

The Frontier Economics report addresses the potential concerns with aggregation leading to loss of economies of scope with other council functions and concludes that such issues do not appear to have emerged in practice as a major problem in the jurisdictions examined in the study.

The true impact on Council, and the exact nature of its future role is, however, uncertain. In addition to three waters reform, reform of the Resource Management Act, which may alter the responsibilities and obligations of councils, and the recently announced "Future of Local Government" review, will also have a significant impact on the broader impacts for a council that cannot be ignored.

Impact on Council as an organisation

In SDC's current organisation structure, the water services team has 15 roles that are either entirely dedicated to three waters or spend about 75% of their time on three waters tasks. Two of these roles are currently vacant. This equates to around 13 FTE with 2 additional FTE providing dedicated GIS and Customer support for a total resource of 15 FTE.

As depicted in Figure 9, groups outside of the Water services team provide some support to three waters and in some cases there is sufficient resourcing within those support functions for staff to transfer, although a number of roles only provide a part time support, and in those areas organisational capacity is already low.

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The additional capacity from support staff that remain in Council will not be funded by water revenue so may become a stranded cost (to the extent that it does not simply delay or defer otherwise planned recruitment). The organisation will need to manage this cost as well as the funding of senior positions within the Council whose roles would have in part been based on a span of responsibility that included water. Stranded costs are discussed and quantified in the following section.

The actual transfer of resources from Council to the water entity would be small. Our analysis shows only 10% of Council's FTEs are solely or significantly focussed on water related activities as many roles are already outsourced. Before and after functional structure charts of SDC are set out on the following pages to demonstrate the extent of change within Council. In all cases vacancies have been included.

In some cases the level of support provided by the wider Council to three waters may be such that the transfer of three waters services to a new entity would result in the transfer of support staff as well, however this is not consistent across all support services in the organisation, and in some areas the removal of three waters activities will simply create additional capacity which can be applied elsewhere.

As SDC operates out of three offices within Invercargill (plus a number of district service centres it is likely that one of the currently leased buildings would not be necessary if three waters services were transferred to a new entity. This would release some of the overhead that is currently funded by three waters activities.

Pre water entity FTE	Post water entity FTE
20215	~ 187

Table 7 Pre and post change Council FTEs

¹⁵ As at 4 Feb 2021

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7.4 Attachment A



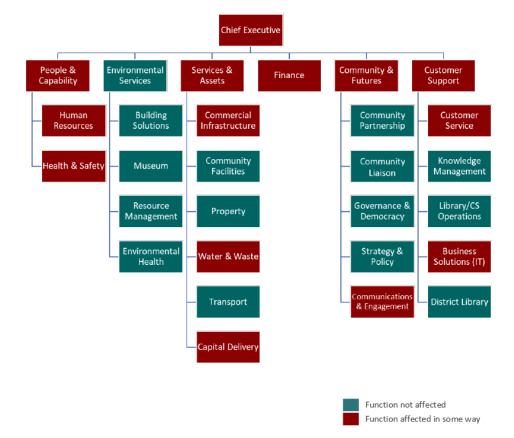


Figure 10 Current Southland District Council functional chart showing functions impacted by water aggregation

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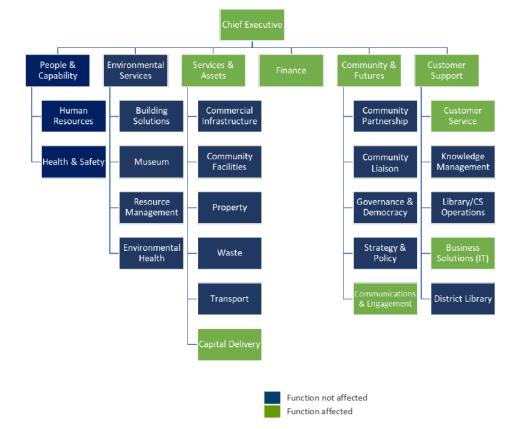


Figure 11 Indicative functional chart for Southland District Council post creation of water entity

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Financial impacts

The transfer of three waters service delivery into a new three waters entity would give rise to a reduction in the overall revenue of Council.

Three waters accounted for an average of 17% of Council's total revenue between 2019 and 2021, and 14% of its total operating expenditure in the same period. The removal of both the revenue and expenditure would therefore likely have a negative impact on Council's financial performance. Removal of three waters revenue and expenditure in (based on the average of 2019 - 2021) would leave approximately \$3 million of unfunded expenditure at a whole of Council level.

The anticipated impact on Council's total revenue from the transfer of three waters service delivery is shown in the table below.

	With three waters (ML adjusted) (2021)	Without three waters (2024)
Council revenue	\$79 million	\$78.5 million

The net impact of the removal of three waters service delivery from SDC is that by 2024 Council will collect approximately the same amount of revenue that it is anticipated to collect in 2021. That is, in many respects SDC will not be significantly different in size and scale than it is currently.

Balance sheet impacts

We have assumed that the transfer of three waters assets from councils to new three waters entities would be accompanied with an equivalent transfer of debt. The impacts on SDC's balance sheet, assuming three waters debt is transferred in 2024 is shown below.

Table 9 Impacts on Southland District Council's balance sheet

	With three waters (ML adjusted) (2024)	Without three waters (2024)
Total Council debt	\$99 million	\$49 million
Debt to revenue ratio	105%	63%
Debt capacity (\$)	\$168.9 million	\$170.6 million

The decrease in SDC's debt to revenue ratio from 105% to 63% without three waters assets would create opportunities to use the increased borrowing capacity for other Council activities and services.

We have not attempted to predict SDC's debt (without three waters) beyond 2024 as the impacts on Council's revenue and balance sheet would be of such a magnitude that they are likely to have a substantial impact on Council's decision-making processes.

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Stranded overheads

The delivery of three waters services in SDC is heavily supported by other areas of the business including most corporate support functions. Most of this cost is charged to three waters activities through an allocation of corporate overhead, that uses an allocation system which broadly reflects the use of those services by the three waters team.

In many cases these costs reflect the cost of staff time (for example, it may include a portion of the employment costs for an accounts payable officer). Where this is the case, it is unlikely that the removal

\$149 stranded overhead per property in 2020

of three waters services will result in a reduction in these employment costs (as the role is still required within Council). These costs are therefore considered "stranded" as they remain with Council despite the loss of the activity which funds them.

Our estimate of the amount of corporate overhead charge that would be stranded in SDC is between 3.0 - 3.4 million. There may be some opportunity to reduce this stranded overhead in relation to Council's leased office space, and where some staff that support three waters may transfer to a new entity. However, we believe that any savings however are likely to be minor and are unlikely to reduce stranded overheads below \$3 million and that these are unlikely to be able to reduce overtime without significant changes.

The stranded overhead equates to around \$149 per rateable property in SDC in 2020.

The typical range for stranded overheads within the Otago and Southland regions is between 70 - 200 per ratepayer. SDC is consistent with this range.

Total cost impacts for ratepayers

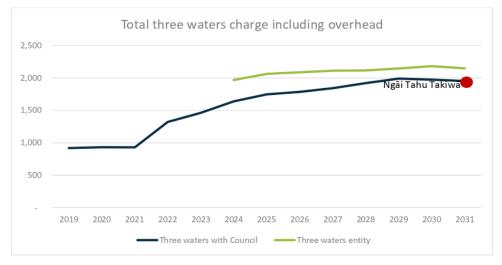
If three waters assets were transferred out of Council, the net impact on ratepayers would be the combined cost of the three waters charges imposed by the new entity and the additional component of SDC rates that is required to fund the stranded overhead of Council.

To identify the potential impact on ratepayer from the transfer of three waters assets to a new entity, we have therefore compared the combined entity charge with the average household charge that would otherwise be paid if SDC retained responsibility for the delivery of three waters services.

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Figure 12 Comparison of total household cost for three waters services council versus three waters entity



This comparison shows that, when the cost of stranded overheads is considered and passed on to ratepayers, the overall cost of three waters services for SDC ratepayers will be:

- Between \$1,850 and \$2,050 by 2031 (or 5% cheaper 5% more expensive) with a Ngāi Tahu Takiwā entity.
- around 10% more expensive by 2031 with an Otago Southland three waters entity.

The reduction in ratepayers costs in SDC in 2031 would appear to be short term, and we would expect that this would continue to rise over time.

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Summary

Due to increasing standards and requirements a change to the way three waters services are delivered is inevitable. The form that this change takes is a decision for SDC to make, and this report presents information to assist with making this decision.

The arguments for and against the opt in or out decision are presented below, alongside the relevant risks of each decision. For simplicity, we note that the opt out decision discussed below relates to SDC opting out of reform and continuing with its existing service delivery arrangements.

The option to opt out of reform and pursue voluntary change into an Otago Southland three waters entity in our view has a very low chance of success and risks Council being left as the service provider.

That option requires a coordinated and consistent approach across all of the councils in Otago and Southland. All eight councils in the two regions must opt out of the Government's reform process but have a desire to aggregate three waters services at a more local level. They must then go through a detailed entity design process, fund the transition and entity design process themselves, consult with their communities on the same proposals and ultimately agree. There are limited examples of this being successful in New Zealand and none where asset owning has been part of the model.

In the event that an Otago-Southland water entity emerges as the Government's preferred option, most of these challenges will disappear.

Opting in

Arguments for

- A regional water entity will have increased capability and capacity of three waters staff, depth of
 expertise and increased organisational resilience to changes in staffing levels.
- A three waters entity would have a skills based board with a single focus on three waters issues and would have an enhanced ability to embed the principles of Te Tiriti o Waitangi and Te Ao Māori within its governance framework. There would be no competing interests for investment requirements and funding.
- A three waters entity would have greater financial and technical resources to be able to address
 compliance issues and make the investment required to comply with new environmental, health, and
 cultural standards. A three waters entity would also assume most of the risk associated with rural
 water supplies and private water schemes.
- Average household charges for three waters services are likely to be lower under a three waters
 entity covering the Ngãi Tahu Takiwā and a three waters entity would have significantly improved
 financial resilience. When the impact of stranded overheads is considered three waters charges are
 likely to be similar under the current delivery model and a three waters entity covering the Ngãi Tahu
 Takiwā.
- Government financial incentives are expected for councils who opt in to the reform process.

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Arguments against

- SDC may experience some increased challenges to recruit engineering staff and asset managers to support its remaining activities due to increased competition with a three waters entity and a reduction in variety of work although the effects of this may be limited to certain roles within the organisation.
- There will be a number of new challenges introduced relating to the prioritisation and coordination of investment in three waters infrastructure across the region. SDC will no longer control the timing and location of investment. Instead it will be a shared responsibility.
- There may be a loss of local representation, which would be worse with an entity covering the South Island or the Ngāi Tahu Takiwā.
- A three waters entity would face higher borrowing costs, and a potential credit downgrade, if it were to deliver the full capital works programme for the areas that it covers without suffering a credit rating downgrade and, consequently, higher costs of borrowing. We believe this to be a national problem, which is more likely to be able to be solved with a small number of water services providers.

Risks

- Delivery of the full capital works programme at an Otago Southland level, or even with a larger entity
 would appear challenging. There is a risk that a larger three waters entity may not be able to
 generate improvements in terms of capital works delivery.
- Without critical mass of all councils there is a danger that the benefits of change will be substantially reduced or lost. This is particularly the case if the population centres of Dunedin, Invercargill, Christchurch, and Queenstown were not involved. A Ngāi Tahu Takiwā would be more resilient to this.
- As a three waters entity may have limited access to sufficient debt to fund its full investment programme, it may need to manage competing investment demands from different districts (and to achieve different outcomes, e.g. servicing growth versus improving compliance). There is a risk that these priorities may not align with local priorities.
- There are still a number of unknown factors about entity design which may have a significant bearing on the comparison of an "opt in" option with an "opt out" option. These include issues regarding:
 - Entity design.
 - Council's roles as owner and governor.
 - Mechanisms to prioritise local investment.
 - Coordination of planning and investment.
 - Interfaces with stormwater and the extent to which stormwater assets and functions will be transferred.
 - Community input and role.
 - Allocation of liabilities, land ownership.

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Opting out

Arguments for

- The required level of future investment in infrastructure would appear to be manageable, both financially and in terms of ability to deliver, for SDC based on current forecasts. SDC's debt is predicted to remain well within LGFA lending covenants, and it has previously delivered a similar level of capital works as it is forecasting to require in future years. However, delivery of the full capital works programme at an Otago Southland level, or even with a larger entity would appear challenging.
- A three waters entity would not have the borrowing capacity to be able to deliver the full capital works programme for the areas that it covers without suffering a credit rating downgrade and consequently, higher costs of borrowing. In contrast, SDC is currently projected to have sufficient financial headroom to be able to fund its forecast capital works programme.
- SDC is able to determine the timing and level of investment it makes into its three waters infrastructure if it retains control of its three waters assets. Increasing regulatory enforcement and standards will still be a significant driver for determining the timing and type of investment.
- There may be alternative options available to council to address many of the potential challenges with continued council service delivery of three waters. These options were not explored as part of this review.
- Household charges are not likely to be substantially higher under a continuation of the council led service delivery model than they would be under a Ngāi Tahu Takiwā or Otago Southland water services entity.

Arguments against

- Council is making its opt out/opt in decision within the context that every other council in New
 Zealand is also making that decision. In many cases there is a strong and very strong case for change.
 The ratepayers of six of the eight councils in Otago Southland would, in our view, have lower water
 charges under a regional water entity, but this reduces to five when stranded costs are taken into
 account. The ratepayers of all eight would be better off in a Ngãi Tahu Takiwā. If SDC opts out while
 other councils opt in, the ability to attract staff or deliver its capital works programme will be further
 diminished as it will be a small organisation competing with much larger entities. This may also
 impact on the cost of completing work in Southland.
- While SDC is likely to be able to borrow enough to fund the required investment in three waters infrastructure, the amount that is will be required to borrow will impact on its ability to borrow to fund other activities, or to respond to emergencies.
- With a low (33%) of its population being connected to a council provided drinking water supply, and
 its predominantly rural environment, there is a significant risk that SDC has a large number of private
 drinking water schemes within its region, many of which will be non-compliant with future drinking
 water standards. By opting out, Council will be the supplier of last resort for customers of these
 schemes. This could present a substantial legal and financial risk for council.

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Risks

- If SDC opts out while other councils opt in, the ability to attract staff or deliver its capital works programme will be further diminished as it will be a small organisation competing with much larger entities. This may also impact on the cost of completing work in Southland.
- Any incentives that come with the current reform process will not be available to councils if they opt out of the process. Further, while the costs of transition to the new entities will be covered by the government as part of the current reform process, it is possible that councils that later opt to join any three waters entities may face costs to join or transition to these entities.
- The risks and challenges with future water service delivery in Southland would be significantly increased if the other councils in Otago Southland and the South Island more generally opt in to the reforms.

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Preparing for change

Challenges and opportunities

The transfer of three waters assets to a new three waters entity in Otago-Southland (or a larger geographical region to be determined) will not be without challenge for SDC, or any of the other councils. Many of these challenges will be consistent across all of the existing councils, and these are outlined in the section on "common issues". These issues primarily relate to the need to establish new processes and relationships to ensure investment planning and Council's regulatory functions continue to operate smoothly.

SDC also has some unique challenges which will likely need to be addressed prior to any transition. These primarily relate to the management of rural water supply schemes and future requirements for wastewater discharge.

Rural water supplies

SDC, has 11 rural water supplies which have a primary purpose of providing stock water or water for irrigation purposes. Many of these schemes convey water through a reticulated network which often feature both approved and unapproved private connections for drinking water.

The extent to which these schemes treat water, and the standards to which that water is treated, vary widely between differing schemes.

Continued management of these schemes is likely to be both costly and risky for Council once the Water Services Bill has been passed, and there will be increased responsibility and liability associated with compliance with the drinking water standards. We understand that there were multiple submissions regarding the Water Services Bill which relate to whether elected members will be exposed to the legal liabilities contained within the Bill or not.

Similarly, a new three waters entity will need to be sympathetic to the differences between rural and urban water supply schemes, which may include consideration of different solutions (such as treatment at tap) to ensure compliance with drinking water standards for rural supply schemes. This may also include consideration of different charging mechanisms for such schemes.

Future wastewater discharge requirements

SDC's completed RFI discloses 12 wastewater consent renewal projects occurring over the period to 2031. In some cases these consent renewal programmes also include costs for investigations into discharging wastewater to land, or minor upgrades.

As highlighted earlier in our report however, a large proportion of the total wastewater volume discharged within the Southland District is discharged into freshwater receiving environment, which is becoming increasingly unacceptable from both a cultural and freshwater management perspective.

In addition, only 12% of wastewater in Southland receives the highest level of treatment. The combination of the receiving environment, and the level of treatment, means that there are likely to be significant costs associated with the renewal of at least some of the district's wastewater treatment consents.

In some cases, discharging to freshwater environments would appear to be the only viable option. The land in some parts of the district is not appropriate for receiving wastewater discharges.

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A new three waters entity is likely to face the same challenges as SDC, although it will have the ability to spread costs over a larger customer base.

Recreational water use

Council has a small water treatment plant in Curio Bay that is listed as a recreation asset, but which provides drinking water to campground users. This will be considered a water supply under the Water Services Bill and accordingly, Council should consider whether it wishes to transfer responsibility for this to a new entity.

We also understand Council has a number of community halls which are serviced by water bores, not all of which are owned by Council itself. Council will need to consider options such as treatment at tap, or connection to a reticulated network, if it is to continue with these arrangements.

Public records

We understand that Council maintains a large number of paper records regarding properties in the district. These records must be maintained and kept under the Public Records Act, and fines are applicable for breaches. We understand that a number of these records relate solely to water connections or wastewater services, and accordingly may need to be transferred to a new entity. This is a matter that may need to be considered in more detail through the transition process.

Common themes

Through our various onsite visits to councils to identify the impacts of water reform on each organisation, we have identified the emergence of a number of consistent themes that apply to all councils (although some may apply to SDC more than others) which are listed herein.

Typically these are issues which we consider can, and should, be addressed as part of any transition process, but which are sufficiently large to warrant specific discussion herein.

Ensuring investment in small communities is maintained

One of the key concerns that emerged through our early conversations with stakeholders, and our subsequent site visits to councils in the Otago and Southland regions was the need to ensure that small communities continue to see a fair share of investment. This concern is particularly pertinent when considering an entity that encompasses a larger geographical area than the Otago and Southland regions on their own.

This is a key entity design consideration that we believe should be addressed before a council agrees on whether or not it wishes to opt into the wider reform. At the time of writing, the Government has not made it clear what specific mechanisms will be introduced to ensure that this occurs, however we understand that:

- Proposals include the establishment of a Governor Representative Group, which will include representatives from Iwi and Councils and will influence the overall governance of the entity and will set strategic and performance objectives for the entity.
- New planning regulations may be introduced to require a level of coordination between councils and the proposed entities in the planning process. These may address issues regarding the timing and quantum of investment in growth infrastructure, though it is unclear how these may relate to renewal or level of service investment.

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Councils may wish to further investigate other potential mechanisms to ensure small communities get a fair share of investment. This may include the development of enforceable KPIs or investment quotas for regions, although care needs to be taken to ensure that the new entity is still empowered to make its own investment decisions and obtain efficiencies.

Operating model considerations

The operating model of any three waters entities established through the Government's reform programme will be determined by the Government after consultation with the sector, and accordingly, we have not suggested or proposed an operating model here. However, in engaging with the Government through this process, we consider it important that Council considers the following key features of any such proposed model.

- The governance structure and the mechanisms in place to ensure that councils have some say in the management and governance of the entity, and that planning and investment decisions are coordinated.
- The mechanisms in place to ensure investment is fairly distributed between small and large communities.
- How the entity may ensure that expertise remains local, whether through flexible workplaces, or district offices.
- How relationships between councils will be established to ensure that there is open sharing of
 information and to encourage collaboration and coordination of activities and investment.

It is clear from our discussions with councils in the Otago and Southland regions, as well as from the information released from the Government to date, that in addition to three waters technical expertise, a new three waters entity will need to establish functions or roles relating to:

- District and spatial planning to the extent that the new entity will most likely be involved in spatial planning within the regions in which it operates.
- Consents to the extent that the new entity would likely need to be involved in the process for issuing and granting resource and building consents, particularly in the case of residential development and connection to infrastructure, development agreements, and the potential vesting of assets.
- Council relationship managers or partners to ensure coordinated responses and ongoing working relationships are maintained.
- Customer services.
- Human resources.
- Property and fleet management.
- Legal and regulatory roles.
- Finance and business reporting.
- Health and safety and risk management.
- Communications, engagement, and marketing.
- OIA/LGOIMA responses.

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Importantly, from our onsite interviews to date, we consider that it is unlikely that many of the roles discussed above will be able to be filled by existing council resources (that is they are predominantly new, rather than transferred, roles). However, the process for transferring the three waters service delivery functions, and everything that goes with that, will likely be protracted and will need to be carefully managed.

Competing with large water entities for resources

The Otago-Southland region, and New Zealand at large, is currently facing a shortage of skilled engineers, with most councils in the two regions having to offer a premium above market rates to attract skilled staff. The Otago-Southland regions currently have approximately 12.8% of positions in three waters vacant.

While most engineers involved in three waters will transfer to a new entity, councils will still require skilled engineers to deliver roading, waste, and other major capital works. In many cases, engineers in councils are involved in many different projects and activities. If councils are no longer responsible for three waters, these staff may no longer find their roles are appealing or challenging.

Large water entities may be able to offer more career opportunities, choices in work location, and more challenges for engineers. This additional competition may make recruiting and retaining skilled engineering staff harder for councils than it already is. However, larger entities are also more likely to be able to develop expertise within the sector, which may ease the longer term skills deficit.

Systems and processes that need replicating

The delivery of three waters services typically supports, or is supported by, a range of Council systems and processes that are likely to need to be replicated into a new three waters entity. The processes that we have identified to date have been listed below, however it is unlikely that this list is comprehensive.

- Building and resource consent applications where it is essential to identify where underground services exist in relation to the proposed development/construction. Currently it is common for developers or builders to meet with Council staff (which may include three waters engineers) to discuss applications.
- Building and resource consent applications where the installation of infrastructure is involved and needs to be consented to by Council typically draws on expertise from the three waters staff.
- Access to GIS data and asset information held by the engineering teams/three waters engineers by
 other parts of Council will need to be preserved. Planning and consents typically need to access this
 information from time to time and it is not uncommon for these teams to have direct access to this
 information.
- Customer services needs to be managed, including consideration of whether there can/should be a single point of contact for a ratepayer, and if not the development of a clear information campaign.
- Processes for obtaining LIM and PIM reports from councils and three waters entities will need to be developed, as councils may no longer hold up to date information (or institutional knowledge) about properties or may not have the expertise to be able to assess that information.
- If stormwater assets are transferred, there will be a need to develop relationships and processes for the roading and urban planning teams to work with the three waters entity in stormwater design and hydraulic modelling. These may also require the inclusion of other areas of Council such as parks and open spaces.

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Approval for vested assets

When developers install infrastructure to service a new development area they will typically "vest" that infrastructure in the council once title has been granted for the development (and the development is complete).

As part of this process, resource consent applications, and some building consent applications require the proposed infrastructure to reviewed by Council's engineers to receive "engineering approval". This is a formal sign off to certify that the proposed infrastructure is of an appropriate size and standard to be connected to Council's network and to service the proposed development.

Once the infrastructure has been installed (and during its installation) councils will also typically carry out inspections to ensure that the infrastructure is consistent with the engineering approvals that were granted. These inspections may be carried out by at the same time, and by the same people, that are undertaking inspections of other infrastructure in the development.

In the event that a new water entity take ownership of any vested three waters assets, processes will need to be developed to transfer the responsibility to grant engineering approval for three waters asset to the new water entity. This may result in delays to the granting of resource consents or additional costs for developers.

Mixed use or strategic property

If three waters assets are transferred to a new service delivery entity, one of the key pieces of work that will need to occur as part of the transition will be the identification of which assets should transfer to the entity. Any such transfer will clearly involve the underground pipe network and above ground treatment assets that can be easily identified as being critical to the provision of three waters services.

However, in many cases councils may have assets that are designated as being used for three waters activities, but which have either a mixed use, or have little to no use in the delivery of three waters services. Such assets may include reserve land used for water catchment, or land upon which treatment plants (current, decommissioned, or earmarked for the future) are sited.

There may be strategic reasons why councils may wish to retain some of these assets even when the three waters activity is transferred. In some cases this may mean that land may need to be formally subdivided into separate titles or redesignated for an alternative use. In addition, councils may need to seek legal advice regarding the future use of land acquired under the Public Works Act or bequeathed.

Civil defence and emergency management

Councils are responsible for coordinating civil defence responses within their districts and communities. Engineers are typically heavily involved in the civil defence and emergency management teams within a council and are highly valued for their knowledge of the networks and potential areas of risk.

If the staff that are responsible for the delivery of three waters services are transferred to a new three waters entity, it will be essential that a level of expertise remains local to each district to maintain emergency response capability. While civil defence operates in a consistent manner nationally, and uses a common response framework, local knowledge of networks is critical in ensuring an efficient and effective response.

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Joint training between the three waters entity and councils should also occur to facilitate closer relationships and a more coordinated response. We understand that territorial authorities already undertake joint regional civil defence training which includes regional councils and would anticipate that three waters entities would take part in this.

Council as a water user

In many cases councils can be high users of water in their districts. Councils often use large volumes of water to fill and operate swimming pools, or to irrigate sports fields or public parks. While some councils charge themselves for the consumption of this water (effectively through an internal transfer from a parks budget to a water budget) this charging usually involves no actual transfer of cash out of the council.

When a new water entity is established, councils will have to pay the new three waters entity for any water that they consume. This cost, particularly for the irrigation of fields and reserves, could be significant. Councils may therefore wish to consider other options for the supply of water to their parks and reserves (such as the installation of private bores).

Transition planning

We anticipate that the transition process to the Government proposed option will be through a centrally lead and prescribed process. We would expect that it would require resourcing from the councils and contain workstreams that are likely to include the following:

- Transition management
- Assets & Infrastructure
- Service Delivery
- Communications & Engagement
- Iwi/Māori
- Governance
- ICT
- Finance
- People & capability

There are however a number of actions that it would be useful to undertake in the event that Council (and its regional partners) wishes to "opt in" to the reform programme, or alternatively to "opt out" but move into an Otago-Southland entity that would benefit Council regardless of the Government programme. These include:

- Complete a strategic review of property held by the three waters team to identify property that should remain with the organisation and property that could transfer to a new entity. This may include subdivision of parcels of land.
- A review of long term plans to reprioritise projects both within and outside of the three waters space and consideration of whether any projects should be advanced or delayed to ensure that they get completed by a new entity.
- Developing processes and systems that will be needed to enable effective working relationships with a new water entity.

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- Managing communications with staff and ensuring that staff have a clear understanding of the transition process and what it may mean for them.
- Consideration of short and long term resourcing, including a post three waters operating structure, and the resourcing of three waters during the transition to a new entity.
- Preparing an engagement and communications plan to communicate the impact of the change to the community.

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Appendix A Sensitivity testing

Our financial modelling relies on a number of different assumptions which may alter the comparative performance of each entity. While we believe that the assumptions used are appropriate, this appendix examines the impact of these assumptions on the debt and household charge profiles for both SDC and the three waters entity.

Asset values and capital delivery

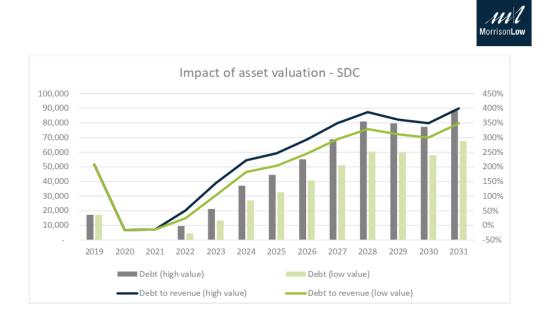
Moderate impact

Our modelling adopts asset values at the mid-point of the valuation scale provided in completed RFIs. Our decision to use the mid-point valuations is based on:

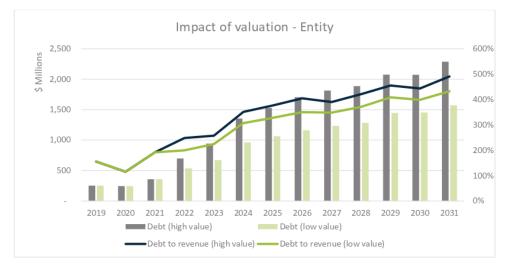
- Comments in the WICS report that New Zealand's assets are typically under-valued by international standards.
- Corroborating evidence based on the difference in Dunedin's unit rates for asset replacement values when compared to unit rates for the same assets elsewhere in Otago-Southland. Dunedin's asset valuation is the most recent in the group, and Dunedin City Council have suggested a high level of confidence in their asset valuations through the RFI process.

The sensitivity analysis compares the outcomes if valuations at the low end of the scale are used. The analysis here can also be used to understand the impact of under-delivery of planned capital works at a council or entity level (the "low valuation scenario").

As shown in the figure below, SDC's forecast three waters debt would fall between \$68 million and \$89 million, and its three waters debt to revenue ratio would fall between 349% to 400% if its asset valuations are adjusted. Under either scenario debt would still be a constraint for SDC at a three waters level but would not be a constraint at a council level.



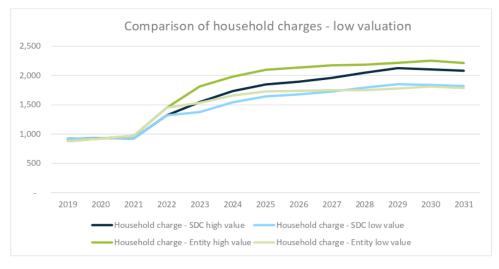
Similarly, a three waters entity's debt would fall between \$1.57 billion and \$2.3 billion, and its debt to revenue ratio between 491% to 433% if assets across the Otago and Southland councils should be more correctly valued at the low end of the scale. Debt still remains a constraint for a three waters entity under this scenario, with the debt to revenue ratio exceeding even the Moody's debt to revenue requirement of 430% (which would result in a credit downgrade from the current LGFA credit rating).



The difference in valuation used also has only a limited impact on whether the three waters entity presents as the most affordable option or not for Southland. Where a low valuation is adopted, the three waters entity is more affordable for SDC ratepayers than SDC continuing to provide three waters services itself. However, this is the only scenario in which a three waters entity would be more affordable than SDC continuing to provide services under the status quo.



The difference in valuation also has a much smaller impact (in both real dollars and percentage terms) on the average household rates at the Council level, which is indicative of the relatively low range between SDC's low and high estimates of asset replacement cost. A three waters entity would however be more resilient to large financial shocks under any scenario, as it has a larger customer base over which to spread costs, and a larger level of capability.





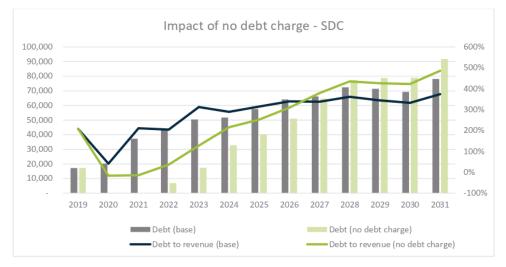
Debt repayment

Moderate impact

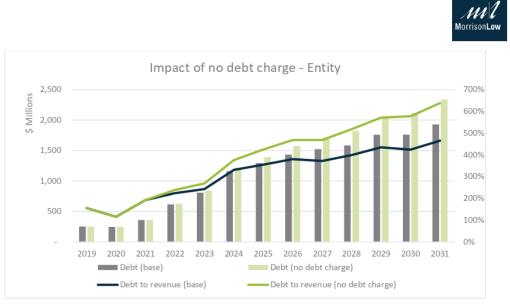
Our modelling includes an annual recovery from customers for the repayment of debt over a 30 year term. This is unusual in local government, particularly when depreciation is fully funded, however it has been adopted to try and ensure that a three waters entity (or indeed a council) continues to maintain a certain level of borrowing capacity.

This scenario tests the impacts on debt and household charges if the debt repayment charge is removed.

As shown in the figure below, SDC's forecast three waters debt would increase from \$78 million to \$92 million, and its three waters debt to revenue ratio would rise from 374% to 486% if it did not introduce a debt repayment charge. This would create additional pressure on investment within the three waters activity.

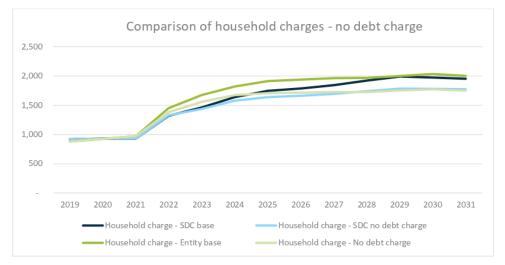


Similarly, a three waters entity's debt would increase from \$1.9 billion to \$2.3 billion, and its debt to revenue ratio from 465% to 638%. While our base case shows debt being a major constraint on the ability for a three waters entity to invest in infrastructure, without the introduction of a debt repayment charge of some description these problems would be further exaggerated.



The introduction of a debt repayment charge does have a significant impact on household three water charges. The introduction of such a charge will result in charges that are 10% higher for SDC, or 16% higher in the three waters entity than they would otherwise be. Importantly though, over time this difference decreases as the debt repayment charge results in a reduction in interest costs.

In addition, it is worth noting that the introduction of a debt charge, or not, can make a difference in the overall most affordable option. In the event that no debt charge was imposed by either entity, then the delivery of three waters services would be cheaper through a water entity than under the status quo.





Appendix B Methodology

Review of RFIs and asset registers

As a consequence of signing the Government's Memorandum of Understanding in July 2020, all councils in the Otago and Southland regions were required to return a request for information regarding the delivery of three waters services. The completed responses were provided to the Government, and Morrison Low at the end of January 2021.

Morrison Low and WSP reviewed the content of the RFI responses to identify challenges and opportunities for service delivery in the regions.

The content of the RFIs was predominantly investment and financially driven, with additional information also provided about compliance to various regulatory standards and asset performance. Most information was quantitative in nature, with only limited qualitative data included.

Councils were asked to apply confidence grades to most of the information contained within their RFIs. These confidence grades ranged from A1 being extremely reliable, through to D5 which is effectively a guess. The level of confidence that councils expressed for different pieces of information varied widely between councils, and it was also clear that each council adopted a different approach to applying a confidence grade to information (this was an exercise in subjective judgement). Where we have relied on information from RFIs in our analysis, we have made no adjustments to reflect varying levels of confidence in the underlying data.

Asset registers were reviewed, standardised and cleansed to reduce errors. Data from asset registers was analysed and used on various reports and queries of the combined asset register database.

On site interviews

Morrison Low conducted on site interviews at each council in the Otago and Southland regions during the course of our three waters review. On site interviews were conducted at SDC on 4 February 2021.

During the on site visits, we interviewed:

- Cameron McIntosh (Chief Executive Officer)
- Matt Russell (General Manager Infrastructure)
- Trudie Hurst (General Manager Customer Delivery)
- Anne Robson (Chief Financial Officer)
- Janet Ellis (People and Capability Manager)
- Dave Inwood (Asset Manager Waste Water)

During the onsite interviews we sought to understand what the qualitative impacts of three waters reform would be on Council. This included understanding where three waters roles provided services to, or received services from, other parts of the organisation, and what the major challenges and opportunities are for the district. We also sought to identify the processes and interaction points that may need to be replicated in the event that three waters services are provided by an aggregated delivery model.



Financial modelling

Our modelling has used the mid-point between the "low" and "high" estimates for asset replacement cost that were included in each council's RFI responses. This is consistent with commentary from the Water Industry Commission of Scotland, who in their report for the New Zealand Government (the WICS report)¹⁶, indicated that they believed assets in New Zealand to be significantly under-valued.

Our financial model predicts the potential future household charge based on the total funding requirements under our standard modelling assumptions, and assumes that:

- The proportion of revenue collected from households, commercial businesses, fees and charges, or
 other revenue remains the same throughout the modelling period (i.e. if 75% of total water revenue
 is collected from households in 2019, then it is assumed that 75% of water revenue will be collected
 from households in 2031 as well).
- Any new connections to the water network will also connect to the stormwater and wastewater networks (or at least pay the same charge as a connected property).

Assumptions

- Planned capital investment has been determined by reference to the investment plans set out within SDC's completed RFI. We have used the "constrained" investment plans, and where appropriate have adjusted these to reflect:
 - Potential under-valuation of assets and unit prices for asset replacement (as outlined below).
 - Additional renewals investment as outlined below.
 - Additional costs for the upgrade of wastewater treatment plants to meet future discharge standards.
- Asset values we have applied the mid-point replacement costs for asset values from each council's completed RFI. This reflects an uplift in values compared to those used in annual reports or asset management plans. This uplift has also been applied to the estimated cost of future capital expenditure, and depreciation charges.
- Savings operating and capital savings derived by the entity are based on the WICS report which
 estimates potential capital expenditure efficiencies of 45% after 30 years, and between 10 40%
 operating efficiencies in 10 years (we use 20% over 10 years). This has been turned into annualised
 capital and operating efficiencies of 1.25% and 1.84% respectively.
- Compliance costs we have included a 16% uplift in operating expenditure for the delivery of drinking water based on our previous experience and analysis of post-havelock north incident costs within Hawke's Bay.
- Renewals we have assumed that all councils will have a renewals spend that is the greater of:
 - The estimated renewals spend from completed RFIs.
 - Our estimated required renewals based on remaining useful life of pipes.
 - 80% of annual depreciation expense.

¹⁶ Water Industry Commission of Scotland, Economic analysis of water services aggregation: Report prepared for the Department of Internal Affairs. Retrieved from <u>https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/Economic-analysis-of-water-services-aggregation-Stage-One-Report.pdf</u> on 6 April 2021



This helps provide a like for like comparison across options and between Councils, and also as we expect that an economic regulator would bring greater focus to areas such as depreciation and renewal expenditure.

- Depreciation depreciation is calculated based on the average depreciation rate used across the councils of the Otago and Southland regions for each water type. Depreciation is fully funded in our model in order to provide a like for like comparison across options and between Councils, and also as we expect that an economic regulator would bring greater focus to areas such as depreciation and renewal expenditure.
- Timing we have assumed that a new entity would take over operations from 1 July 2024. We have assumed that compliance upgrades will not commence before the earlier of:
 - 2024
 - Two years prior to the expiration of the resource consent for the underlying plant.
 - 2031
- Interest we have assumed an interest rate of 3% in our modelling.
- Debt repayment we have assumed that an additional charge will be levied for the repayment of debt, as the entities (or indeed councils) would otherwise reach debt limits rapidly. We have assumed that this charge is based on a 30 year repayment period for debt.
- Stranded costs have been estimated using Council's disclosed overheads charges to three waters activities and are based on our high-level estimates of costs which may be released if three waters activities are removed from councils. These estimates are based on discussions with councils and do not include detailed financial analysis of overhead allocations.

Ngāi Tahu Takiwā

In comparing the future household charges for the Ngāi Tahu Takiwā against the projections for Otago and Southland it should be noted that we have not undertaken detailed modelling of the costs and benefits of either Ngāi Tahu Takiwā model:

- The projections for Ngāi Tahu Takiwā do not include additional costs for compliance with increased enforcement of drinking water standards – in Otago Southland we allowed for 16% of existing drinking water operating costs as an additional cost.
- The projections for Ngāi Tahu Takiwā also do not include additional costs for the repayment of debt over time (without which a three waters entity was constrained in its ability to invest in Otago and Southland) – household charges in Otago Southland would be \$1,750 if this debt charge was not imposed.
- The projections for Ngāi Tahu Takiwā do not include organisational costs or efficiencies from three waters aggregation. In Otago Southland, the net impact of this was a 6% reduction in operating costs by 2031 when compared to simple aggregation and we would expect the savings to be greater for a Ngāi Tahu Takiwā model

Our estimate is that the net impact of the above is that a Ngāi Tahu Takiwā model will have a lower average household charge than an Otago Southland entity by approximately the amount of savings that the entity could generate due to efficiencies.



Appendix C Assumptions regarding entity design

This report has adopted the following assumptions regarding entity design. These are based on communications from central government, along with the principles and objectives for reform from the Otago and Southland councils. In addition to outlining what the assumption is, we have also described below the impact on our modelling of that assumption being wrong, and the source of the assumption.

In some cases, we would anticipate that if the proposed entity does not address the key assumption, or the underlying problem that our assumption is seeking to address, then it would not be an acceptable model for the councils.

lssue	Assumption	Source for assumption
Ownership	The entities will be publicly owned. Any ownership in the entities by councils will be unlikely to have any beneficial rights associated with it.	Government information
Governance	Entities will be governed by professional, competency based boards. Mechanisms will be put in place to ensure that Council and mana whenua have a role in governance.	Government information
Assets	The entity will be asset owning, and three waters infrastructure currently owned by councils will be transferred to the new entity.	Government information
Debt	All existing three waters related debt will be transferred to the new entities.	Morrison Low assumption based on asset transfer. Would undermine proposals if this was left out.
Stormwater	The provision of stormwater services, and associated assets (other than roads or regional council flood protection assets) will be transferred to the new entity.	Latest advice from Government, also a clear desirable outcome based on conversations with councils
Revenue and charging	A single charging mechanism/approach to be applied to all customers of the water entities (e.g. a single rate).	Implied in latest Government communications "Cost sharing across communities"



lssue	Assumption	Source for assumption
Economic regulation	An economic regulator will be established (or set up within an existing agency) to regulate the water sector and seek operating and capital investment efficiencies. Based on similar organisations in other jurisdictions and industries in NZ it will not only regulate prices, but also investment and investment planning	Implied in latest Government guidance "Economic regulation"
Investment planning	Legislative mechanisms to require entities to work with councils. Required to invest in infrastructure that supports spatial plan. Entity will be empowered to make its own decisions regarding investment for compliance or renewal of infrastructure but may have to adopt LTP investment plans (particularly for growth) on establishment.	Morrison Low assumption
Investment returns (dividends, interest, or overhead reimbursement)	We have assumed that there will be no dividends to owners, or any other return to council owners (whether to compensate for stranded overheads or otherwise).	Morrison Low assumption
Borrowing	We have assumed that the entity would not be able to obtain borrowing at a rate that is any more favourable than the current rates afforded to councils that are members of the LGFA	Morrison Low assumption (note Government correspondence assumes a more favourable rate is available).
Taxation	We have assumed that the three water entities would have the same tax status as local authorities (i.e. they would be exempt from income tax)	

Appendix D - Situation analysis Ngāi Tahu Takiwā





Current situation analysis

Three waters – Ngāi Tahu Takiwā May 2021



Document status

Job #	Version	Approving Director	Date
2578	2	D. Bonifant	May 2021

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Contents

Introduction	1
Our approach	2
Observations	3
Size and scale	3
Relative size of Ngāi Tahu Takiwā	3
Connection density	4
Connected population	5
Investment needs	6
Renewals vs depreciation	6
Future three waters renewals	8
Ten year investment need	9
Affordability	13
Capital works delivery	14
Levels of service measures	16
Water Supply	16
Wastewater	16

Figures

Figure 1 – The population of constituent councils varies substantially across the Ngāi Tahu Takiwā	3
Figure 2 - Large difference in connection density for water	4
Figure 3 - Percentage of population connected to Council water supply	5
Figure 4 - Combined renewals as a percentage of depreciation v Water New Zealand National Performan	ce
Review 2018/19	7
Figure 5 – Combined renewals as a percentage of depreciation (RFIs)	8
Figure 6 - 10yr planned renewals vs Replacement cost of assets with less than 10 yrs remaining life	9
Figure 7 – 10 year investment requirement	10
Figure 8 - Number of councils breaching LGFA debt to revenue covenants	11
Figure 9 - Current and projected average household charge Ngāi Tahu Takiwā	13
Figure 10 - Median household income	14
Figure 11 - Historical capital works delivery vs planned future delivery	15
Figure 12 - Capacity of construction sector	15
Figure 13 - Highest level of water treatment by daily volume	16
Figure 14 - Wastewater Level of Treatment and Receiving Environment	17

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Introduction

The Ngāi Tahu Takiwā situation analysis is a high level review carried out based on analysis of information provided by the twenty one territorial authorities of the Takiwā. The data considered includes:

- All councils' responses to a recent Request for Information (RFIs) by the Department of Internal Affairs.
- Asset registers and valuation reports from all councils except for the Chatham Islands, and Waimate District Council.
- Other sources including infrastructure commission reports, Statistics New Zealand data, reports prepared for the Department of Internal Affairs on potential upgrade costs for meeting new standards available on the three waters reform website (*www.dia.govt.nz/Three-Waters-Reform-Programme*) and previous three waters work carried out by Morrison Low for the Otago Southland three waters office.

This report was commissioned by the Otago Southland Three Waters Office and provides information and commentary of the aggregated situation across the Takiwā. It highlights issues, risks and opportunities facing the region but does not seek to highlight the performance of any individual councils within the region.

In addition, we note that:

- All analysis and discussion is at Takiwā level. It is not about ranking council performance.
- The analysis relies on information provided in the RFI's but does not in and of itself allow for the confidence ratings that were applied to that information.
- Analysis also includes an additional scenario based on Morrison Low's estimates using the information provided by councils and allowances for investment required for system upgrades to meet new standards, adjustment of valuations using information provided in the RFIs.
- The analysis was completed under urgency with limited time available to engage with councils to interrogate any issues with underlying data.
- All financial information is uninflated.
- Reporting at the Takiwā level provides the first aggregated view of three waters at this level. We note that aggregation at this scale can present a picture that looks like the middle or in some case reflects the largest population area. That can mask the issues and challenges which lie at the extremes or in this case individual councils. In some cases, we have highlighted councils or a group of councils where it is relevant to address this.

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On 30th April Morrison Low presented an initial analysis of the Ngāi Tahu Takiwā to a hui of the councils in the Takiwā. This report presents the same information but provides the context for the data. It also now includes updated information which was provided following that workshop. The updated data means the following has changed since the 30 April presentation.

- Takiwā wide water revenue in 2020 has increased from \$500 million to \$560 million
- Connected population has reduced from 88% to 86%
- The potential shortfall in planned renewals has decreased from \$400 million to zero
- The ten year investment requirement has increased from \$8.3 billion to \$8.5 billion
- The average harmonised household charge has increased from \$1,690 to \$1,757

Our approach

This report has been structured to follow a logical progression that highlights the key issues, risks and opportunities facing the region. Analysis has been specifically focussed on matters which are able to clearly demonstrate these and can be easily understood without the need for comparison to individual council performance.

In particular, the report considers the following:

- The size and scale of the area, which is relevant given the Government's focus on size and scale as a key driver for reform.
- The future investment needs required to meet increasing standards for three waters, renewal of assets and support growth. These are a significant driver of future cost within the area.
- The financial impact of three waters reform on the councils and communities within the Takiwā. This provides information about future affordability of three waters services across the Takiwā.
- The current levels of service provided across the region, which are relevant as these are an important indicator of future cost and exposure to operational risk.

In the time available this report has not however considered other key aspects including:

- People, capability & capacity
- Levels of service (other than very briefly)
- Community impacts
- Council impacts

The councils of the Takiwā will need to consider these important aspects in any decision about participation in three waters reforms.

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Observations

Size and scale

One of the main arguments for reform of three waters service delivery in New Zealand is that councils do not individually have sufficient scale and capacity to be able to sustainably address the challenges that are facing the sector. Through various studies into international best practice, DIA has indicated that, in its view, aggregation of water services delivery is needed to address these issues.

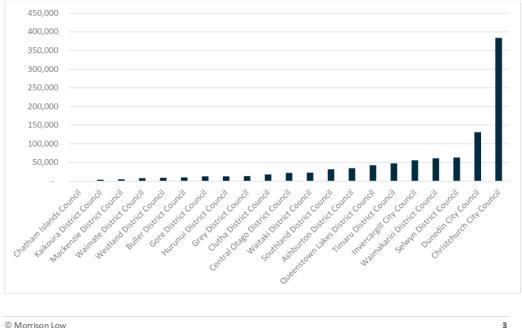
Relative size of Ngāi Tahu Takiwā

The Takiwā includes 90% of the South Island's land mass – from Kaikoura District in the north, to Rakiura (Stewart Island) in the south and including the West Coast, Te Tai Poutini. This is 40% of New Zealand's total land mass, yet accounts for only 20% of its population.

The Takiwā has over 580,000 water connections and 390,000 wastewater connections. The region has over 300 treatment plants across the three waters. There is 27,000 km of pipe network. The size of the area, the networks and number of plants in and of itself creates challenges and there are also significant differences between rural and urban services and systems e.g. provision of rural stockwater schemes, stormwater.

The annual three waters revenue from the three waters services across the Takiwā was \$560 million (2020) with an opex budget for the same year of \$467 million. It is an entity of a size and breadth quite different from any of the constituent councils.

The large area encompasses 21 councils' populations that vary considerably. The population of the Takiwā is dominated by Christchurch.





Connection density

In their report¹ commissioned by DIA the Water Industry Commission for Scotland (WICS), noted that in Great Britain, there is a strong correlation between future investment requirements and urbanisation/population density. The same trend has been observed by Morrison Low in prior three waters studies in New Zealand. More rural areas are typically expected to cost more, on a per head basis, than denser, more urban areas.

Councils with a lower number of connections per kilometre of pipe are



likely to face increased costs per connection, particularly when it comes to investing in upgrades to meet the new environmental and regulatory standards of the renewal and depreciation of those assets.

The Takiwā's average is 29 connections per kilometre of pipe for water and 58 connections per kilometre for wastewater. This appears to be higher than the average for small councils in the Water New Zealand National Performance review of 22.69 connections per kilometre for water and 55.8 connections per kilometre for wastewater.

However, the Takiwā wide figure hides the large differences in connection density for water with (at least) one council having less than four water connections per kilometre of pipe for water.

Figure 2 - Large difference in connection density for water



¹ Water industry Commission for Scotland, Economic Analysis of water services aggregation (https://www.dia.govt.nz/diawebsite.nsf/Files/Three-waters-reform-programme/\$file/Economic-analysis-of-water-servicesaggregation-Stage-One-Report.pdf)

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7.4 Attachment A

Connected population

The WICS report on three water reform in New Zealand highlights that New Zealand does not have a particularly high proportion of its population connected to water services, with some councils having as low as 35% of their population connected, and 13 councils having less than two thirds of their population connected to water services.

While the WICS report does not go so far as to suggest that higher connection rates may create operating efficiencies, it does state that, from a regulatory perspective at least, it is desirable to have a high rate of connection to ensure consistent levels of service. We note that the



Water Services Bill treats all water suppliers equally and requires all suppliers to meet drinking water standards.

Perhaps more importantly from a New Zealand perspective and in the context of three water reforms, low connection rates may also be indicative of a larger number of private water schemes (i.e. privately owned or operated schemes that service multiple properties), or simply a large number of rural properties connected to private supplies (i.e. tanks or bores which service a single property). With increasing regulatory requirements and the enforcement of drinking water standards, private water schemes may pose a significant financial risk for councils who under legislation can, in certain circumstances, be required to provide the service.

The connection rate across the Takiwā is higher than the New Zealand average but again the data masks the fact that seven councils have less than 70% of their population connected and four less than 50%.

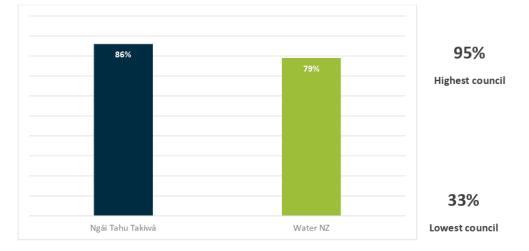


Figure 3 - Percentage of population connected to Council water supply

Connection rates for wastewater services are broadly similar with an average of 83%, though slightly lower than drinking water, a trend which is consistent with Water NZ's national performance review data.

It is possible that the percentage of connected population in some areas is understated due to the classification of farm properties, and the presence of multiple dwellings on some farm sites.

Investment needs

Investment in infrastructure is the most dominant driver of costs for the delivery of three water services in the Takiwā, and nationally. There is growing evidence, cited by DIA, WICS, the Office of the Auditor General and in work undertaken by Morrison Low, that the local government sector, and three waters services particularly, requires significant investment in infrastructure over the next 30 years.

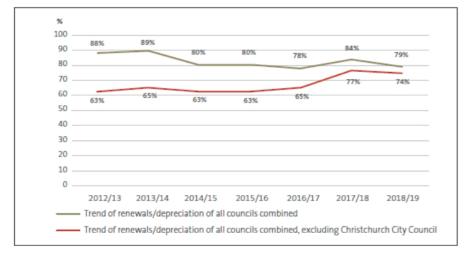
This section of the report outlines the future investment requirements for the Takiwā, and the impact that those requirements may have on future water charges.

Renewals vs depreciation

There is growing evidence of under investment in three waters infrastructure across New Zealand. In 2018 we undertook a desktop analysis of council LTPs across New Zealand for the Department of Internal Affairs. In that project we identified that, on average, councils in New Zealand were only spending around 78% of their depreciation funding on renewals.

Regional and national under investment in renewals

Similar concerns have been expressed by the Office of the Auditor General for a number of years, most recently in their report, *Insights into local government: 2019* which presented historical data showing underinvestment in renewals since 2012/13.



Source: Office of the Auditor General, Insights into Local Government: 2019 (retrieved from https://oag.parliament.nz/2020/local-govt/part1.htm on https://oag.parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliament.nz/2020/local-govt/parliame

While a single year view is not appropriate for long run assets, renewal expenditure within the Takiwā in 2018/19 is entirely consistent with the trend identified above. Stormwater is an outlier due to high levels of expenditure within two of the city councils.

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7.4 Attachment A

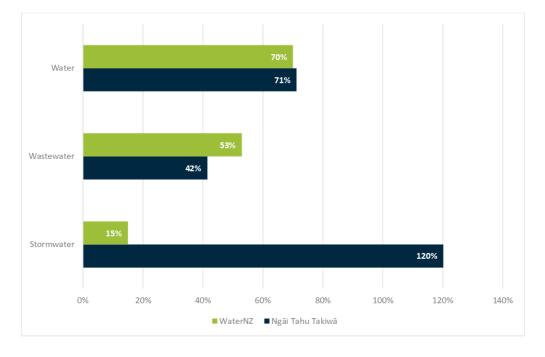


Figure 4 - Combined renewals as a percentage of depreciation v Water New Zealand National Performance Review 2018/19

We have also considered the future projects using the same metric. The chart below shows that a similar trend is projected forward for the next 10 years across the Takiwā. The combined renewal expenditure across the Takiwā is projected to be less than depreciation in almost every year. We note that fifteen of the twenty-one councils in the Takiwā are projected to spend less on renewals than depreciation over the next 10 years.



Figure 5 – Combined renewals as a percentage of depreciation (RFIs)

Future three waters renewals



A review of asset registers indicates that, based on the remaining useful life of assets the Takiwā requires approximately \$2.6 billion of renewals work during the next ten years. This is consistent with the combined renewal expenditure across the Takiwā which is also \$2.6 billion over the same time period.

This Takiwā wide comparison provides comfort over forecast expenditure at the aggregate level, but it does in some cases mask individual council comparisons of these data sets and the comparison at water, wastewater and stormwater level. For example, in one council the planned renewals

are only 30% of the value of assets that have less than 10 years remaining life.

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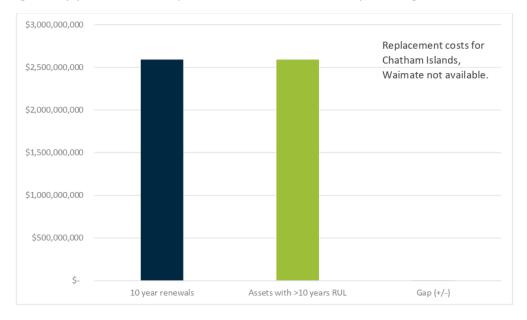


Figure 6 - 10yr planned renewals vs Replacement cost of assets with less than 10 yrs remaining life

Ten year investment need

The total 10 year three waters capital investment programme is set out in the chart below. This includes renewals, levels of service and growth expenditure and allows for the combined response to the changing standards and water reform process.

The chart shows the 2018 LTP projections, the draft 2021 LTP projections and our estimate of the future LTP estimates.

- The combined three waters capital investment across the Takiwā has grown by 70% since the 2018 LTPs – from \$3 to \$5.1 billion. This signifies the step change being driven by three waters reform.
- The Morrison Low estimates presents a scenario which indicates the scale of the investment may be greater than that and could be as high as \$8.5 billion².

\$5 - 8.5B Estimated ten year investment

² This scenario considers renewals based on comparing planned renewals over 10 years to the replacement cost of assets with less than 10 years remaining life, includes additional costs for upgrades to Water treatment plants and Wastewater treatment plants estimated by DIA as being required (where not allowed for by Councils) as well as an adjustment to asset values to demonstrate the impact that may have. WICS have stated that in their view three waters assets are undervalued in NZ and our observation from previous work is that reconciling differences in asset values are the single greatest influence on future costs

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Figure 7 – 10 year investment requirement

We also note that the scale of the investment required does not dimmish at the end of the current LTP period. The 'bow wave' is sustained beyond year 10 of the RFIs.

Debt

This investment will be funded through debt. This is entirely appropriate. The borrowing required to fund the investment required is significant. Debt rises to:

- Almost \$3B under the RFI investment scenario.
- Over \$6B under the Morrison Low scenario.

The chart below shows that this means that potentially six councils could breach the LGFA debt limits by 2031. The chart also shows that if three waters was considered in its own right (three waters debt/three waters revenue) then by 2031 seventeen councils may breach the current LGFA limits. While that is not a true picture as the LGFA limits do not work that way, it indicates that three waters debt is being supported by other activities (and revenue) of Council. Three waters therefore has the potential to constrain borrowing for other areas of activities.

Conversely, in the event that three waters assets, debt and revenue is transferred to a new entity, this is likely to result in increased borrowing capacity for all councils across the Tawikā.

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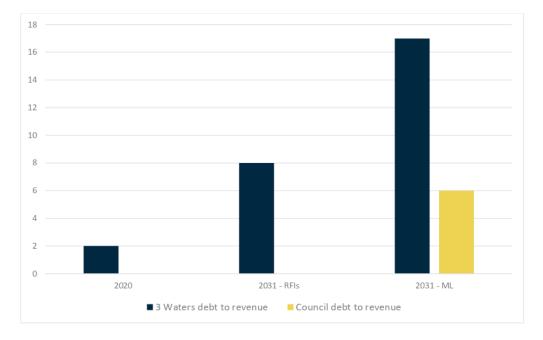


Figure 8 - Number of councils breaching LGFA debt to revenue covenants

A three waters entity covering the Takiwā would breach both the LGFA and credit rating agency limits under both the RFI and Morrison Low scenarios. This means that the entity would need to rely on other Government programmes, subsidies or higher user charges to be able to afford the current investment programme.

Financial considerations

One of the biggest challenges cited by the government is the issue of long-term affordability of three water services. All councils in New Zealand are facing significant future investment requirements and increases in operating costs to be able to meet increasing regulatory standards and enforcement activities. The situation analysis demonstrates that councils across the Takiwā are facing those same challenges.

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Average household charge

Average household charge has been used in this report as a proxy for the average price of water and is used to demonstrate the range of charges that may exist in the future compared to a Takiwā wide charge.

While this is useful for demonstrating the direction of travel, or potential rates increases that the sector may face, this is not representative of the average household charge. Additionally, we note that the potential projections of revenue per connection are based solely off RFI data and therefore:



- Vary in the degree to which they incorporate additional potential operating costs for the delivery of three waters services (which are not disclosed in the RFI).
- Have not been adjusted to include potential increases that Morrison Low anticipates may face the sector based on its experience in water reform and engagement with the sector.
- Do not include the recovery of increased depreciation or financing costs for investment that has been outlined as being required under the individual councils "unconstrained" investment plans.
- Do not include any potential operating efficiencies (or increased costs) that may arise through structural reform of the delivery of three waters services in the combined regions.

The chart below shows the change in the average household charge over time across the Takiwā. It also highlights the range of average household charges that could exist by 2031 across the Takiwā, with the highest household charge being almost 250% higher than the lowest.

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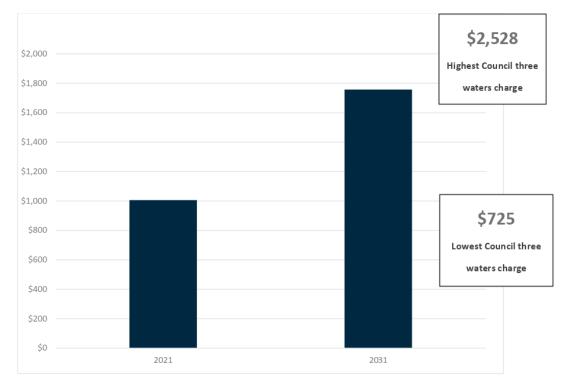


Figure 9 - Current and projected average household charge Ngāi Tahu Takiwā

Affordability

In our view there is a clear trajectory for water charges to increase in the Takiwā. Future cost is only one side of the affordability equation and increases of the scale that exist for some councils will create affordability challenges for parts of the community and particularly those on fixed or low incomes. Water NZ has used the proportion of average household income spent on water and wastewater as a benchmark. It has cited international benchmarks as what is unaffordable as ranging from 2 and 4%. We note that one council in the Takiwā already exceeds the 4% benchmark.

There is a wide range of incomes across the Takiwā as shown in the figure below. The biggest challenge will come if costs increases are greatest in the communities that can least afford it.



Figure 10 - Median household income

Capital works delivery

In our view there is a significant challenge to deliver the required infrastructure at an individual council level and across the Takiwā.

As a sector, local government in New Zealand has generally not met its targets for capital works budgets and meeting the challenge of three waters reform requires councils to significantly increase their capital works delivery. To meet the RFI investment scenario requires a 53% increase on delivery on what was achieved across the Takiwā in 2020 every year for the next ten years. If the situation is closer to the Morrison Low scenario, then the requirement is for more than a 100% increase.

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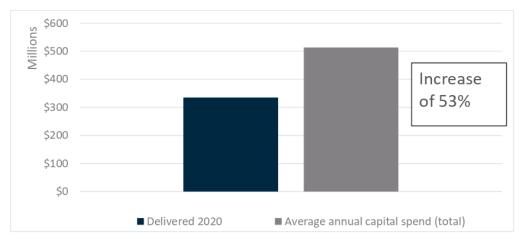


Figure 11 - Historical capital works delivery vs planned future delivery

The ability of the sector to respond is also part of the challenge. A survey of construction companies in New Zealand by the Infrastructure Commission showed that 70% of current suppliers are only able to increase their capacity to deliver by less than 20%. This points to a significant constraint in the market's ability to deliver which will require dedicated and careful pipeline management to enable the sector can sustainably grow and scale operations to ensure delivery.

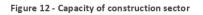
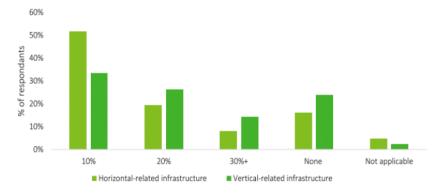


Chart 28 What is your ability to increase capacity to meet the volume of work signalled in the market for infrastructure-related construction in New Zealand?



Source: Deloitte: "A better way forward. Building the road to recovery together: Construction sector COVID-19 recovery study" January 2021.

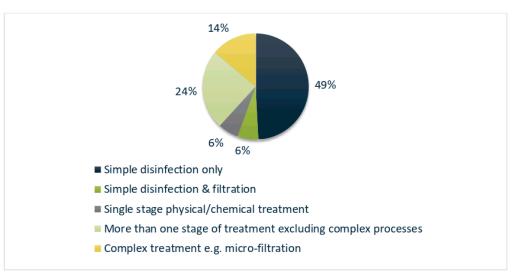
Levels of service

This section explores information regarding the treatment types of water and wastewater treatment plants in the Takiwā. Levels of service are relevant to meeting compliance requirements and community expectations. They therefore provides an indicator of potential risk and investment requirements.

Water Supply

Currently 54% of the drinking water supplied by the councils (by volume) across the Takiwā has only been treated by simple disinfection or by simple disinfection and filtration. Indications are that these 133 plants will require upgrading in order to meet protozoa requirements of the Drinking Water Standards.

Figure 13 - Highest level of water treatment by daily volume



Wastewater

Currently 80% of the wastewater across the Takiwā is treated to the highest standard and only 6% of wastewater (by volume) discharges into freshwater as illustrated in the figure below. This presents a picture across the Takiwā of a service that is well positioned to meet the challenges of water reform but we note that:

- in some councils 100% of the discharge is to freshwater which with changing standards will provide a driver for investment.
- discharge to ocean covers a range of situations which again, with changing standards will provide a driver for investment.

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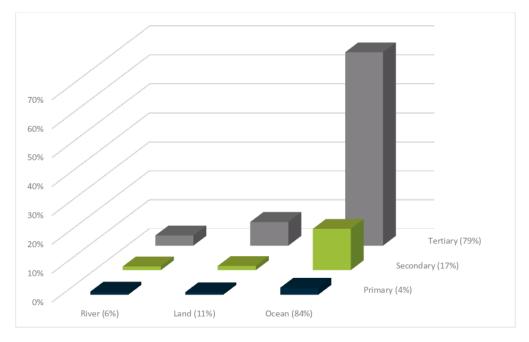


Figure 14 - Wastewater Level of Treatment and Receiving Environment

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Appendix E - Review of WICS data





Review of WICS data

Southland District Council

August 2021



Document status

Ref	Approving Director	Date
2636	D.Bonifant	29 July 2021
2636	D.Bonifant	12 August 2021

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Contents

Ex	ecutive	Summary	1
1	Intro	duction	3
	1.1	Three waters reform	3
	1.2	WICS Analysis	4
	1.3	Impact on Household Bills	5
	1.4	Comparison of key data from WICS	9
	1.5	Sensitivity testing key WICS assumptions	12
2	Diffe	erences in approach – Morrison Low versus WICS	14
3	Wat	er Industry Commission for Scotland Commentary	18
	3.1 l	nvestment Projections	18
	3.1.1	L Renewals	18
	Com	ments on the underlying assumptions	19
	Pote	ntial impact of assumption	19
	3.1.2	2 Levels of Service and Growth Investment	19
	Com	ments on the underlying assumptions	20
	Pote	ntial impact of assumption	21
	3.2 Re\	/enue	21
	3.2.1	I Three water debt to revenue ratio	21
	Com	ments on the underlying assumptions	22
	Pote	ntial impact of assumption	22
	3.2.2	2 Revenue from Households	22
	Com	ments on the underlying assumptions	22
	Pote	ntial impact of assumption	23
	3.2.3	3 Household connections	23
	Com	ments on the underlying assumptions	23
	Pote	ntial impact of assumption	23
	3.3 Cap	pital and Operating Efficiencies	23
	3.3.1	L Efficiencies	24
	Com	ments on the underlying assumptions	24
	Pote	ntial impact of assumption	24
	3.4 Ser	nsitivity	24

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i



Tables

Table 1	Sensitivity testing of projected household charges in 2051 for Council	12
Table 2	Sensitivity testing of projected household charges in 2051 for Entity D	12
Table 3	Comparison of Morrison Low and WICS forecast household costs (uninflated)	14
Table 4	Differences in approach	15

Figures

Figure 1	WICS dashboard extract	1
Figure 2	Summary of sensitivity analysis	2
Figure 3	Understanding the impacts (LGNZ)	4
Figure 4	DIA Dashboard	6
Figure 5	Household cost calculation	7
Figure 6	Summary of sensitivity analysis	13

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ii



Executive Summary

This report provides commentary to provide councils support to interpret WICS calculations and how those relate to your existing council information, as well as a comparison of the approaches adopted by WICS and Morrison Low in the analysis of potential future costs with and without water reform. The key analysis of your council dashboard is of items A, B and C in Figure 1 below.

- A represents the estimated average household cost using WICS modelling approach, this is not representative of actual charges
- B represents the projected future household charge in 2051 without reform
- **C** represents the projected future household charge in 2051 for **Entity D** (which is the entity that Southland District Council has been grouped into under the proposed reform), with water reform.

Figure 1 WICS dashboard extract



Given differences in the size and design of water services entities, we have not compared projected three waters charges for water services entities under the Morrison Low and WICS models.

Our review of the modelling completed by WICS, which informs items A, B and C of Southland District Council's ("SDC") dashboard identified a number of key assumptions that have been applied by WICS as having a significant impact on the projected household charges under each scenario, specifically these are:

- The assumptions used by WICS regarding the proportion of three waters revenue that is received from households, which has been assumed by WICS to be 70%, but which is 68% for SDC.
- The approach WICS has taken to determine the number of household connections, which has been to divide the connected population by 2.7. WICS assumes that there are only 4,278 household connections in SDC, compared to the 5,900 water connections disclosed in its completed RFI.
- The level of investment that WICS has assumed is required over the next 30 years. WICS has assumed a ten-year investment requirement of \$350m, which is three times higher than SDC's own estimates.
- The approach used by WICS to estimate future revenue requirements. WICS determined future
 revenue requirements by reference to the amount of debt that SDC would need to borrow to fund its
 full investment programme. Revenue is determined based on the amount needed to maintain a three
 waters debt to revenue ratio of 250%. Council's debt capacity is not measured at an activity level,
 given the lower borrowing requirements of other activities, a ratio of at least 500% is likely more
 appropriate.

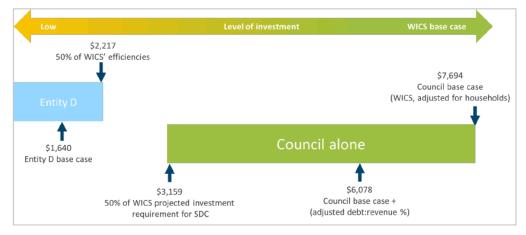


 WICS have assumed that Entity D will be able to achieve operating and capital efficiencies totalling 53.3% and 50%, respectively, over a 20 year period (from today).

To test the impact of these assumptions on the household cost projections, we have undertaken high level sensitivity analysis using the WICS models, as shown in Figure 2 below. This included:

- Adjusting the revenue from households and household connection values in all scenarios tested.
- 50% of the projected investment requirement in both the SDC and Entity D models.
- A higher (500%) debt to revenue ratio in the SDC model.
- 50% of the projected operating and capital efficiencies in the entity D model.

Figure 2 Summary of sensitivity analysis



In summary, the sensitivity testing showed that:

- When the underlying assumptions regarding percentage of revenue from households and number of connected properties are adjusted, the forecast charges for Southland are likely to be approximately 1/3 lower than included in the WICS reports for Council.
- The scale of the difference between the entity and council scenarios is likely somewhat less than WICS analysis indicates.
- It is unlikely that household charges for ratepayers in SDC could be lower from continued council service delivery than under Entity D.

Overall, we note that while the projected household charges from the WICS analysis may be the subject of some contention, in our view they are directionally accurate. That is, household charges will increase in the new regulatory environment, and SDC ratepayers are likely to have lower household charges under the proposed entity delivery model than through continued council service delivery. This is consistent with Morrison Low's earlier analysis of a Ngāi Tahu Takiwā entity undertaken for the Otago and Southland councils.

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1 Introduction

The Department of Internal Affairs (DIA) has commissioned specialist economic, financial, regulatory and technical expertise to support the Three Waters Reform Programme and inform policy advice to ministers.

In mid-2020, a first stage of evidence was commissioned on the potential economic benefits of aggregating water service delivery entities in New Zealand. This was produced for DIA by the Water Industry Commission for Scotland (WICS) using publicly accessible council information and was released in December 2020. Between October 2020 and February 2021 a nationwide Request for Information (RFI) took place across all 67 councils.

This data has been used to inform several workstreams including the second stage of economic analysis found in the WICS Phase 2 report. This latest information has now been released to councils through the 'Council dashboard' and supporting reports.

This report is based upon our review of public WICS reports and individual council models provided by WICS. In some cases, the approach or assumptions used by WICS are unclear; this report focuses solely on the information we were able to access and interpret.

It is also important to highlight that there is no connection between the WICS analysis and the government's wider support package including calculation or allocation of the 'no-worse off' and 'better off' parts of the package.

1.1 Three waters reform

While this report concentrates on the financial analysis recently provided in the Council dashboards, it is important to highlight that this is only one part of the wider suite of information that councils need to consider when looking at the proposed reforms. The impacts, benefits, issues and risks of reform are far more wide ranging than just the financial impacts.

In our impact assessment report, we outlined a range of broad factors that also need to be considered in making decisions about three waters reform. At a high level, these include:

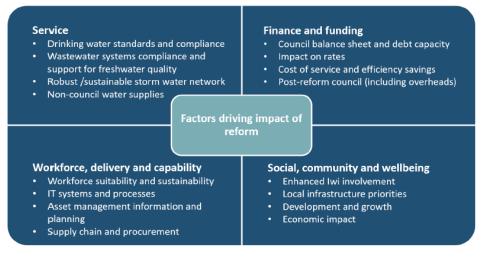
- Governance
- Compliance and levels of service
- Infrastructure investment
- Financial outcomes and resilience
- Capability and capacity
- Risks of opting in and out of reform
- Challenges with transition

Additionally, LGNZ has developed an impact matrix shown in Figure 3 below which echoes these considerations.



Figure 3 Understanding the impacts (LGNZ)

3W impact matrix



Considering these wider aspects of water reform helps to ensure that benefits, issues and risks around levels of service, capability & capacity, prioritisation of investment and impacts in communities and councils are also considered alongside the financial aspects. In some cases, there are compelling arguments for reform that are not purely financial, and similarly, there are a number of challenges associated with reform that do not transpire under a continuation of the current service delivery models.

Importantly however, the work previously undertaken by Morrison Low and the work undertaken by WICS are consistent in the message that a step change in investment is required for three waters service delivery across the country, and that this will require a change in the way that services are delivered.

As a result of the three waters work we have undertaken across New Zealand over the last 18 months, including the work that we have undertaken for Otago and Southland our view is that the likely future household costs for three waters will increase significantly for all councils as a result of meeting increased standards, regulations and satisfying a more rigorous compliance regime. Our view of future costs may not be as high as modelled by WICS, but the direction is the same.

1.2 WICS Analysis

Scenarios

Broadly, WICS compares two scenarios:

• Aggregation of three waters services into four water services entities and the associated reforms to the regulatory, governance, management, resourcing, and policy direction that support improvements ('the whole reform package').

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• No aggregation of three waters services and although in this scenario some reform takes place, for example, decisions already made to introduce a drinking water regulatory system and environmental standards, the wider reforms are not as extensive as in the former scenario.

Assumptions

The assumptions WICS have used to quantify the inputs are determined through benchmarking against the UK experience. Whilst there has been some adjustment based on council feedback the potential investment requirements and ability to deliver the same efficiency gains, both key drivers of the analysis, may not be comparable in the New Zealand context. The following material factors have not been considered in their analysis:

- funding arrangements,
- national standards,
- three waters systems (% underground, pipe material etc.),
- Treaty of Waitangi and giving effect to Te Mana o te Wai,
- population density,
- geography, location and extreme rurality and
- supply chain limitations given New Zealand's remoteness.

Timeframes

WICS have undertaken the analysis over the 30 year time horizon. Responses to the RFI across the country were not consistent, where councils did not provide 30 year information, ongoing investment in growth infrastructure is assumed at the level of the final year in the data set. Undertaking future economic analysis based on a 30 year forecast is notoriously difficult especially in the context of the quality of the existing asset data. Additionally, this assumes capital expenditure follows a linear trend however we know that investment in three waters infrastructure tends to be lumpy.

More detail of the WICS analysis including methodology, impacts and assumptions is provided in Section 2 of this report along with a comparison to the relevant council based information or data.

1.3 Impact on Household Bills

WICS have used an average household charge as the key piece of information for councils and communities.

The dashboards provided by DIA present three different average household costs, represented as A, B and C in 4 below:

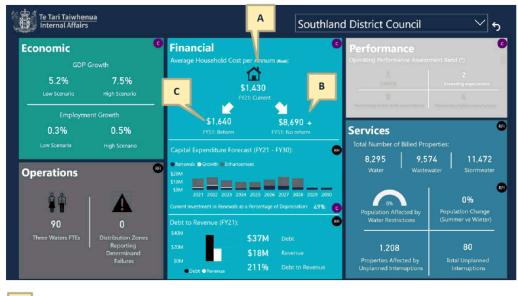
- A represents the estimated average household cost using WICS modelling approach, this is not representative of actual charges
- **B** represents the projected future household charge in 2051 without reform
- **C** represents the projected future household charge in 2051 under the proposed entity for your council, **Entity D**, with water reform.

These numbers are expressed in real terms, they are uninflated and expressed in today's dollars. The approach used by WICS to determine these values is outlined below.

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Α

To estimate current household charges for each council, WICS have (A):

- Taken the starting total three waters revenue collected by the council (including development contributions but excluding grants and subsidies)
- Multiplied that figure by 70% which is their assumed percentage of revenue derived from households. We have noted that the 70% does generally align with majority of councils, however some councils' revenue from households is higher and some lower
- Divided that figure by the estimated number of household connections, which in turn is derived from:
 - The average of the connected drinking water and wastewater populations. The model does not use actual household connection as identified in the RFI or use stormwater connections.
 - > Divided by a standard "household density" multiplier of 2.7

В

The process used by WICS to estimate future household charges (**B**) is the same as outlined above, using estimated future revenue requirements and estimated future household connections (which allows for growth in connections).

In order to determine the future household charge WICS have:

- Calculated the future required investment in growth, level of service enhancement, and renewal of assets.
 - Growth investment is assumed to be the same as disclosed in each council's RFI, with the same annual average expenditure applied across the full 30 year period if a council only disclosed 10 years of projected investment.

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- Renewal investment is assumed to be 100% of the economic depreciation of assets. WICS have undertaken their own calculation of economic depreciation based on assumed asset values and lives.
- Level of service enhancement investment has been calculated using a standard approach across the country that has regard to population, land area and density. It does not reflect each council's actual investment set out in the RFIs.
- WICS have recalculated depreciation, this has increased council figures.
- Determined the impact of new investment on operating expenditure. WICS has assumed that for every \$100 of capital investment there is \$3 of additional operating costs. WICS have also included additional depreciation and financing costs for new assets.
- Determined the amount of new borrowings required to finance their modelled investment profile.
- Determined the amount of revenue that needs to be collected to ensure that councils are able to maintain a three waters debt to three waters revenue ratio of less than 250% over the modelling period. This is the revenue number that is divided by WICS' estimated future household connections to reach the household charges at B above.
- This revenue number typically results in operating surpluses being generated which are applied toward debt reduction.

This process is explained in Figure 5 below.

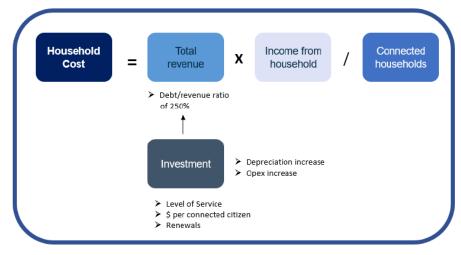


Figure 5 Household cost calculation

С



WICS have undertaken the same modelling to estimate the future household charges for rate payers of a council area if water reform entities were formed. The result reported in each council's dashboard (C) matches the projected future household charges for all councils in **Entity D** (of which the Otago and Southland councils are a part) in 2051.

We have been provided with the economic models for the proposed water services entities. The approach used to project future household charges for water services entities is closely aligned to that used to project future household charges for individual councils. Key differences:

- Entities have been modelled with no limit on the debt to revenue ratios (or no discernible limit). This means that WICS reports show the projected debt level for **Entity D** is allowed to reach 640% of revenue by 2051. This accounts for a substantial part of the difference between the projected three waters rate for each council and **Entity D** in 2051.
- Entities have been assumed to be able to generate efficiencies amounting to 53.3% for operating costs and 50% for capital expenditure within 20 years from today. By way of contrast, within the Otago and Southland councils only Dunedin City Council has been allowed any operating or capital efficiencies and these have been modelled at a modest 2.2%. This accounts for most of the remaining difference between the projected three waters rates.
- Finally, the entity will benefit from the scale of aggregation. That is, the total revenue needs will be spread over a larger population base. The extent to which this scale benefit applies to a particular council will vary depending on population and land area.
- The total investment requirements for **Entity D**, including depreciation and renewals investment, have been derived by adding the constituent parts of each council.

The various elements of the above approach are outlined in more detail in Section 2.

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1.4 Comparison of key data from WICS

The following section compares data from the WICS model to that within councils RFI.

Southland District Council

The comparison highlights that WICS has modelled level of service and growth investment that is over three times larger than the investment requirements identified by Southland in its completed RFI. For Southland, this is the most significant driver of the household charge calculations produced by WICS. The assumption of staying below a three waters debt/revenue ratio of 250% also drives a higher three waters household charge than if debt/revenue was viewed at the total Council level.

Household Cost per Annum

lt ana	WICS - C	Council	WICS - En	tity	Comments on assumptions
ltem	2031	2051	2031	2051	
Household Charge (uninflated)	\$8,032	\$11,608	\$1,543	\$1,640	 Water Services Entity option shows a significantly lower charge per household.

Note that comparison of Council and Entity household charge projections in 2031 may be unreliable as WICS' modelling for the entity "backloads" capital investment whereas it does not apply the same approach to individual councils.



Investment

linear	WICS - Council		PEI (2024)			
ltem	2031	2051	RFI (2031)		Comments on assumptions	
Total investment requirement	\$350,073,873	\$1,244,286,818	\$105,769,000 (constrained) (61.3+61.6+61.9)*	•	WICS model projects a significantly higher Investment need.	
Levels of Service Enhancement & Growth	\$269,535,000	\$806,605,000	\$72,993,000 (G1.3+G1.6)	•	WICS model projects significantly higher LoS Enhancements and Growth needs.	
Renewals	\$80,538,873	\$435,681,818	\$32,776,000 (G1.9)	•	WICS model projects significantly higher Renewals requirement is needed.	
ltem	WICS - Council		RFI		Comments on assumptions	
Asset Value	\$329,705,246		\$270,076,000 (Low) \$357,583,000 (High) (⁽¹⁾	•	Higher asset values becomes more relevant over time.	
Depreciation	\$4,496,025 (Assumption C75)		\$2,372,000 (E1.25+E2.24+E2b.24)	•	Depreciation is nearly double in the WICS model and continues to rise over the life of the model. Depreciation becomes more material as investment in assets increase. Implied depreciation rate WICS = 1.35% increasing to 1.75% over time. RFI = 0.88%	

¹ Reference to data in Council RFI spreadsheet

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Revenue

lik a sa	WICS - Council			RFI	Commonte en essumptions	
Item	2021 ²	2031	2051	2031	Comments on assumptions	
Total debt	\$37,000,000 \$170,513,219 \$481,307,930		\$91,119,000 (F3.14)	• WICS projects debt to be significantly lower than in the RFI.		
Total Revenue	\$18,000,000 \$69,436,026 \$192,222,412		\$192,222,412	\$22,500,000 (F10.62)	• WICS projects revenue to be slightly lower than in the RFI.	
Debt to Revenue	211%	246%	250%	405%	 Charges increase to bring ratio back within 250% under the WICS m comparison not relevant. 	
Operating Surplus	N/A \$27,083,340 \$45,444,810		N/A	• Only exists under WICS model.		
ltem	WICS - Council		RFI		Comments on assumptions	
Revenue from household	70%		689 (F10.4+F10.19+F10.54) / (F10.	-	• Southland collects a similar percentage from household charges compared to the WICS model assumption.	
Connected household properties	4,278		Water = 5,900 (A1.1+A1 Wastewater = 6,640 (Stormwater = 9,093 (<i>)</i>	A3.1)	 Number of connected properties is lower in the WICS model, the charges are likely to be lower than reported by WICS. This will have a moderate impact on projected household charges. 	
Development Contribution	WICS assumes that development contributions, when combined with revenue from commercial and industrial users account for less than 30% of total three waters revenue			No development have been foreca		No impact

² From DIA dashboard

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1.5 Sensitivity testing key WICS assumptions

The impact of the key assumptions used by WICS outlined in section 1.4 has been outlined in the tables below:

- Table 1 shows the impacts on projected household charges in 2051 once the following adjustments have been applied:
 - Adjusted to the number of household connections to adopt the average of water and wastewater billed properties from Council's completed RFI.
 - Adjusted to the percentage of revenue from households to match the percentage disclosed in Council's RFI.
 - Sensitivity testing around the debt to revenue ratio assumption, to show the impact of applying a 500% ratio instead.
 - Sensitivity testing around the projected investment requirement, showing the impact of halving the amount of investment projected by WICS.
- Table 2 shows the impacts of adjusting the level of required investment and assumed efficiencies for Entity D in 2051.

Table 1 Sensitivity testing of projected household charges in 2051 for Council

lucio et un curt	Three waters debt to revenue				
Investment	250%	500%			
100%	\$7,694	\$6,078			
50%	\$3,426	\$3,159			

Table 2 Sensitivity testing of projected household charges in 2051 for Entity D

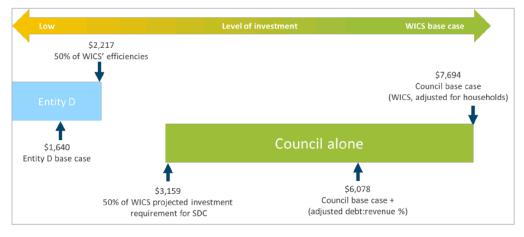
luccost as an t	Efficie	encies
Investment	100%	50%
100%	\$1,640	\$2,217
50%	\$927	\$1,190

The results of the sensitivity testing are represented visually in Figure 6 below.

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Figure 6 Summary of sensitivity analysis



In summary, the sensitivity testing showed that:

- When the underlying assumptions regarding percentage of revenue from households and number of connected properties are adjusted, the forecast charges for Southland are likely to be approximately 1/3 lower than included in the WICS reports for Council.
- The scale of the difference between the entity and council scenarios is likely somewhat less than WICS analysis indicates.
- It is unlikely that household charges for ratepayers in SDC could be lower from continued council service delivery than under Entity D.

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2 Differences in approach – Morrison Low versus WICS

Since the production of our Impacts Assessment Report in June 2021 the Government has released the information from the Water Industry Commission of Scotland's ("WICS") review and analysis of water reform opportunities in New Zealand. At the time of writing, DIA has proposed four Water Services Entities and has released the WICS analysis that supports that proposition. This includes estimated household charges in 2051 for each Council and in comparison, under the proposed Water Services Entity which would include Otago and Southland (Water Services Entity D).

The WICS analysis has been completed using a different approach to that used by Morrison Low. We note that despite the differences, our analysis and the WICS analysis are directionally consistent. That is, in both cases, it is anticipated that there are significant future three waters investment requirements to meet new standards and that this will lead to substantial increases in the cost of services. In our high level analysis of a Ngãi Tahu Takiwā entity (effectively Entity D), we observed that all councils in Otago and Southland would be financially better off – this is consistent with WICS modelling

There is however a large variation between our estimates and that of WICS in the future estimated household costs for each Council. There is also a significant variation in terms of which councils are more or less severely impacted by the projections, with Queenstown Lakes and Southland being the least affected in our modelling but the second and third most effected under WICS' modelling.

Council	2031 WICS	ML 2031
Central Otago District Council	\$6,466	\$2,200
Clutha District Council	\$8,976	\$2,549
Dunedin City Council	\$3,843	\$2,217
Gore District Council	\$4,267	\$2,022
Invercargill City Council	\$3,705	\$2,144
Queenstown Lakes District Council	\$8,422	\$1,952
Southland District Council	\$8,032	\$1,953
Waitaki District Council	\$7,958	\$2,881
Water Services Entity	\$1,543 ³	\$2,001 (Otago Southland) \$1,700 – 1,900

Table 3 Comparison of Morrison Low and WICS forecast household costs (uninflated)

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³ While we have used the 2031 rates from WICS analysis to compare to the modelling results of our own analysis, we note that comparison of the WICS numbers between the entity and councils in 2031 is of limited value because WICS heavily backloads investment in its entity model which has a significant impact on projected household costs in earlier years.



The table below summarises key differences in approach between our analysis and that completed by WICS and the implications of those differences. We have discussed the impact of those and how they drive estimated future household costs in more detail in the next section.

Table 4 Differences in approach

	Morrison Low approach	WICS approach	Difference/Impact
Modelling period	We have adopted a 10 year modelling period that aligns with each council's draft long term plan.	WICS have adopted a thirty year modelling period which reports household costs in 2051. The thirty year investment requirement is assumed to fall evenly over the 30 year modelling period.	Most councils have signalled a large amount of investment planned beyond the ten year planning period which is likely to increase costs further over time. Estimating 30 year investment requirements is challenging.
Efficiencies	We have assumed annual efficiencies for a three waters services entity of 1.25%, reaching a total of 12.9% savings by 2031. These savings occur after the application of additional organisational costs. We would not anticipate these savings to continue for 30 years.	WICS appear to have assumed that under Entity D, savings of 50% or more could be within 20 years from today. The efficiencies are progressively introduced from 2025.	Our annual savings would equate to 45% if they were able to be achieved consistently for 30 years.
Capital investment	We have adopted Council's planned capital investment and adjusted it to include additional enhancement costs relating to WWTP and WTP upgrades that are known to be required, and to increase the cost of planned upgrades to reflect low asset unit rates.	WICS have capital investment scenarios based on population, land area and population density. It results in a significant uplift in expenditure at a national and in most cases at an individual council level.	Significant as capital expenditure drives operating costs, interest costs, and depreciation in the WICS model.
Operating costs	Our modelling relies on councils estimates for operating costs, with adjustments to standardise depreciation, and include additional compliance costs to meet drinking water standards and operate new treatment plants.	WICS have estimated future operating costs based on connection growth, additional depreciation, financing on growth, enhancement capital expenditure, and an additional operating cost equating to 3% of growth.	It is likely that WICS have estimated operating costs to be higher than we have allowed for within our modelling. In most cases operating costs have little bearing on WICS projections of future household charges however.

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	Morrison Low approach	WICS approach	Difference/Impact
Debt	Our modelling includes sufficient debt to meet the forecast investment needs. Debt for an individual council is considered at total council debt level.	WICs modelling includes sufficient debt to meet the forecast investment needs. Debt to revenue is considered at three waters level and the debt/revenue ratio for each council is limited to 250%.	WICS approach increases projected household costs as the total revenue requirement is driven by the need to keep a three waters debt/revenue ratio below 250%.
Inflation	Our modelling excludes inflation to enable better comparison with WICS data.	WICS average household charges are expressed in real terms (i.e. net of inflation).	No impact.
Growth	We have assumed that growth in the number of connections and investment to support that growth is consistent with council projection.	WICS has assumed that connection growth, and the investment required to support that growth will be consistent across the full 30 year modelling period. WICS have relied on each councils own forecasts for growth investment and population growth.	No impact over 10 year time frame. In some cases it may not be appropriate to assume high rates of growth are sustained for 30 years.
Connections	We project household charges and determine these using actual number of billed households for each of the three waters. Charges are calculated for each "water" separately and combined to reach a three waters charge.	WICS charges are "household charges" and assume household connections based on population projections and a household density of 2.7.	Differences in approaches are likely to have resulted in our charges appearing lower than WICS, particularly where household density is lower than 2.7.
Revenue from households	We have assumed that the percentage of revenue derived from households will be consistent throughout the modelling period and is aligned with the actual percentage of revenue derived from household for each council individually.	WICS have assumed 70% of total revenue is derived from households.	Councils with lower reliance on households for three waters revenue will have higher projected household charges under the WICS analysis than they will under ours.

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	Morrison Low approach	WICS approach	Difference/Impact
Development Contributions	We have relied on councils projections for development contributions receipts. Development contributions are ringfenced to be used to fund capital expenditure or debt repayment only.	WICS model treats development contributions the same as other operating revenue. Development contributions are not appropriately addressed if they exceed (when combined with other non- household revenue) 30% of total three waters revenue.	Significant for high growth councils.
Asset values	Morrison Low applied the mid-point asset values across all three waters assets.	WICS have adopted the high-end asset values for short lived assets (assets with less than 30 years of life) and the mid-point asset values for long lived assets.	Minor impact as approaches are similar and short lived assets are a small proportion of total asset value.
Depreciation	We have used the average depreciation rate for assets in Otago-Southland in our modelling. We have assumed that the useful lives of new assets will be proportional to existing assets.	WICS have assumed 24 years asset life for short lived assets, and 98 years for long lived assets, with a 10%/90% split in favour of long life assets. WICS assumed that new assets will comprise 60% short lived assets and 40% long lived assets. This increases the effective depreciation rate over time.	Significant, review of models indicates that depreciation has increased for all councils in the baseline as a result of WICS assumptions, then continues through the sustained capital investment forecast.

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3 Water Industry Commission for Scotland Commentary

3.1 Investment Projections

Investment is the single biggest driver of cost in the WICS model. WICS estimates potential investment requirement over 30 years for each council. This is considered for:

- (a) Renewals (Replacement and Refurbishment)
- (b) Levels of Service (Enhancement)
- (c) Growth investment

These three values are combined to determine a total investment programme for each council.

3.1.1 Renewals

In their various reports, WICS noted that based on a review of completed RFI's and comparison to their international benchmarks:

- Asset values reported by New Zealand Councils were typically low.
- Useful lives appeared to be optimistic.
- The split of asset value between short lived (less than 30 years) and long lived (estimated lives of around 100 years) was more heavily weighted toward long lived assets.
- Using the low range for asset values and the high range for asset lives (i.e. the two extremes) disclosed in RFI would increase the risk that there is insufficient resources available for asset replacement.

Based on their observations WICS therefore recalculated the depreciation for each council's asset base, assuming:

- 90% of existing assets are long life assets with an estimated life of 100 years.
- 10% of existing assets are short life assets with an estimated useful life of 30 years.
- Long life assets were assumed to have a valuation at the mid-point of the low and high end valuations disclosed in RFIs.
- Short life assets were assumed to have a valuation at the upper range of the valuations disclosed in RFIs.
- New investment is assumed to comprise 60% short life assets and 40% long life assets to enable the long/short life split of assets to eventually reach the international benchmark of 30% short life and 70% long life assets.

WICS has then modelled investment in renewals at 100% of depreciation throughout the modelling period. There has been no adjustment to planned renewals investment to reflect that some investment in level of service enhancement or growth is likely to also have a renewals component.

The modelled renewals investment is likely to differ substantially to renewals programmes that have been calculated by each council.

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WICS have modelled an effective starting average depreciation rate of 1.35% of the revised asset value. This depreciation rate increases over the modelling period to eventually reach 1.75%. These depreciation rates translate to an average useful life for three waters assets of 81 and 59 years, respectively.

Comments on the underlying assumptions

We note that WICS calculation of renewals expenditure and depreciation does not consider:

- The relative age profile of each councils network, and each councils stage in the asset lifecycle.
- The amount of investment in level of service enhancing infrastructure or growth infrastructure which may also have a renewals component.
- The actual split of long life and short life assets within each council, and the specific circumstances that give rise to that split (e.g. water networks with large distribution zones and therefore a higher proportion of reticulation assets which are typically long life, or the inclusion of stormwater assets which typically have longer lives and do not form part of the Scottish water asset base).

We note that the depreciation rate of 1.35% is broadly within the high end of the range observed in New Zealand already. However, the longer term depreciation rate of 1.75% is much higher than most councils in New Zealand (although this is intended by WICS).

While the rate of depreciation may be consistent with the New Zealand average, the valuation of assets is not. In our experience, councils typically value their assets at the low end of the valuation range provided in their completed RFIs. This means WICS has typically increased the total depreciation charge above those that are likely to be included in long term plans.

We are aware of a number of recent examples where councils that have had recent asset valuations have experienced substantial uplifts in assets value. This may support WICS assumptions around asset valuations.

Potential impact of assumption

Overstatement of the renewals requirement will result in an overstatement of debt and revenue projections for the entity.

This assumption is likely to affect the entity and council projections equally, so will likely have limited bearing on the comparative outcomes of household charges. However, it will have a significant impact on the projected household charges for councils in 2051 if reform does not occur.

3.1.2 Levels of Service and Growth Investment

The various reports produced by WICS outline three different approaches used to determine the future required investment in level of service enhancement (and in some cases growth expenditure):

- Based on relationships between historical enhancement and growth investment in the UK (same approach as Phase 1 but updated using council RFI information)
- Based on relationships between historical enhancement and growth in Scotland only (i.e. using the same approach as in Phase 1 but with Scottish data only); and
- Based on the observed gap in asset values per connected system between New Zealand and the UK – this approach does not take into account growth.

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While the approaches differ in how they arrive at their estimates they deliver broadly consistent results in terms of the magnitude of investment that is likely to be required over the next 30+ years. It indicates that in order to meet quality and growth outcomes, spending will need to more than double from current levels over the next 30 years.

WICS note these figures could ultimately be even higher, as they do not take account of investment uncertainty associated with the need to provide for seismic resilience, climate change, or responding to changing societal standards around environmental impacts (including iwi/Māori expectations).

It is unclear which of these approaches was used to identify the potential amount of level of service enhancement investment needed. However, we understand that the outcome under all three approaches is broadly similar.

WICS also applied two further adjustments:

- It appears that planned investment in growth infrastructure was effectively removed from the
 results in favour of using council's own projections for investment in growth infrastructure. Where
 councils only reported forecast investment for a 10 year period, this was assumed to be
 representative of the next 20 years as well.
- Applied a cap of NZ\$70,000 per head for combined investment in level of service enhancement and growth infrastructure across any council area, this limits the modelled potential exposure of most rural councils.

WICS does disclose some of the formulas that it has used to identify potential investment requirements, although without knowing the source of the variables used within the formulas we have been unable to replicate the results. We note however that the formulas (at least at a national level) do include length of waterways and coastline, so may make some attempt at incorporating relevant environmental factors.

However, at an individual council level, the investment numbers produced by WICS are based on population, land area, and density alone and have no relationship to each council's:

- Type, quality, or number of water sources
- Receiving environment for wastewater discharges
- Current treatment approach
- Current levels of service
- Asset age
- Asset performance
- Asset condition

Comments on the underlying assumptions

Investment is the single biggest driver of cost in the WICS model. It is what drives the future borrowing requirement, which in turn determines the amount of revenue that needs to be collected. That means that if the future investment requirements in the WICS modelling are under or overstated the future household costs are likely to be similarly impacted.

Despite this it is worth recognizing that predicting future investment requirements is notoriously difficult. This is particularly true over long time frames, such as the 30 year period that has been modelled by WICS.

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While predicting investment over a 10 year period is more certain, even this is challenging, as demonstrated by the long term plans of almost every council in New Zealand. Long term plans often have significant uplifts in their ten year capital works programs despite being only 3-year cycles.

We have not attempted to make an alternative assessment of 30 year investment requirements, and therefore have no view on whether the projected investment by WICS is appropriate. However, as it appears that a different approach may have been used to determine investment at a national scale than that used at a council level, even if the national, or regional investment projections are correct, the distribution of where that investment falls in relation to each council may not be correct.

Potential impact of assumption

WICS have used the derived future investment numbers in the stand alone financial analysis provided to councils as well as in the analysis completed for each water services entity. The higher numbers have a flow on effect to a number of assumptions, most importantly, the future revenue required by councils. This is then reflected in the calculated household charge.

We also note that for the purposes of their modelling WICS have assumed that this investment is evenly spread across the modelling period, however it is likely that this will be weighted further toward future years in practice. This results in a sharp increase in projected future household charges.

In the event that the future investment requirements are understated or overstated, there is likely to be a consistent impact on both the council and entity household charge projections. While this assumption may change the scale of the difference in projections it is unlikely to change the overall outcome of their analysis.

3.2 Revenue

Projected revenue is ultimately the main input into the WICS model that is used to determine household charges. The way in which future revenue is projected is therefore critical.

3.2.1 Three water debt to revenue ratio

The total three waters revenue that is needed to be collected by councils in the WICS model has been determined by reference to each council's total borrowing.

Revenue projections have been calculated by identifying the amount of revenue needed to ensure that each council maintains a three waters debt to revenue ratio below 250% over the entire modelling period. Revenue increases are front-loaded in the WICS model, with revenue increases typically stabilizing to match inflation over time (or at least reducing).

The WICS modelling results in forecast future revenue requirements which typically result in the council generating a significant operating surplus for its three waters activity. This surplus is applied toward debt management/repayment.

Water services entities appear to not have been subject to this restriction with Entity D's debt to revenue ratio reaching 640% by 2051. We understand that the Government has received advice to suggest that a debt to revenue ratio of this magnitude would not adversely impact on water services entities' credit ratings.

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Comments on the underlying assumptions

We note that councils are not typically financed on an activity basis. That is, councils are not required to maintain a three waters debt to three waters revenue ratio of 250%, and in fact a number of councils already exceed this ratio when looking only at three waters debt to revenue.

Three waters typically makes up between 20 - 30% of a council's total revenue, with most other activities typically requiring only low levels of debt. While three waters charges may increase at a much higher rate than other areas of council's business, we would still anticipate that a three waters debt to revenue ratio of around 500% would be within most council's future borrowing capability.

Potential impact of assumption

The revenue numbers directly translate into household charges for councils and the water services entities.

As councils are likely to be able to borrow more than 250% of their three waters revenue, the projected household charges are likely overstated.

Because no such cap has been applied to the water services entities, and we understand that there is official advice to support water services entities maintaining large debt to revenue ratios, this assumption has limited bearing on the projected household charges for the water services entity itself.

When viewed together, the application of this assumption by WICS is likely to overstate the size of the difference in charges between council and the water services entity.

3.2.2 Revenue from Households

WICS has used the split of revenue between households and non-households of 70% as observed in the UK. This has been applied to the total revenue figure above.

The 70% figure represents the total amount of three waters revenue derived from household water charges, and effectively does not include any revenue from development contributions, grants and subsidies, or commercial and industrial water use (or indeed irrigation/stock water schemes).

Comments on the underlying assumptions

In our view the assumption that 70% of revenue comes from household water charges appears to be fair at a national or water services entity level. However, this assumption is less likely to be applicable at an individual council level, noting that:

- Councils that have high levels of urban growth may receive a substantial portion of water revenue from development contributions, and in some cases this may account for the entire remaining 30% (or more) on its own.
- Highly rural councils may receive a large proportion of their three waters revenue from irrigation or stock water schemes, meaning much less than 70% of total three waters revenue is derived from households.
- Some territorial authorities receive large amounts of three waters revenue from large water users. This is particularly true in rural and provincial councils, which often have high water users in the agricultural and horticultural industries.

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Potential impact of assumption

This assumption may impact on the size of the difference between the projected household charges under the council and entity scenarios because it is likely to be more accurate at an entity level than it may be for individual councils.

Councils which receive a lower proportion of their three waters revenue from households than is assumed in the WICS analysis will have higher projected household charges under the WICS analysis than they may otherwise have.

WICS analysis is also presented at a three waters level, which means it is difficult to see the impact for customers which may only receive one or two of the services provided. This is likely to be particularly relevant for councils with large rural areas.

3.2.3 Household connections

WICS have determined the number of household connections in their modelling by:

- Averaging the connected water and wastewater populations from each council's RFI
- Dividing the number by 2.7 (which is the average household density in New Zealand).

This value is used as the denominator in WICS' projections of average household charges. The higher this number is, the lower the projected household charge is.

WICS does not appear to have used any data regarding stormwater connections/charges within its analysis.

Comments on the underlying assumptions

Household density varies significantly between territorial authorities within New Zealand. This is particularly prevalent in the comparison of rural and urban councils. According to Statistics New Zealand, in 2018 the council with the highest occupancy rate has an average of 3.0 residents per household, compared to the least dense council having an occupancy rate of 2.1.

We understand that there are now councils that have significantly lower occupancy rates than that still (with some reporting occupancy rates of less than 2 residents per household).

Potential impact of assumption

This assumption may result in a difference between the projected council and entity values (i.e. it will affect the entity and council differently) because the household density number varies significantly between council areas but is likely to be more accurate at an entity level.

For councils with low household density, it is likely that the application of this assumption will have resulted in the WICS analysis overstating the potential household charges in 2051 for individual councils. The projected household charges for the water services entity are less likely to be affected by the application of this assumption.

3.3 Capital and Operating Efficiencies

WICS looks separately at capital and operating efficiency expenditure. In both cases, WICS undertook econometric modelling (using the reworked Ofwat 2004 and 2009 models) of the potential for operating efficiency from each council using tools and techniques applied and fitted to UK water entities and tested this against New Zealand.

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3.3.1 Efficiencies

WICS have applied efficiencies adjustments in some cases for individual councils. These efficiencies have been based on council size. The observed experience from United Kingdom demonstrates that only entities of a scale of more than 60,000 connected citizens could be expected to achieve any reductions in operating costs, even if they were subjected to robust governance and regulatory frameworks.

In the models provided, the scale efficiencies increase on a diminishing (logarithmic) basis above the minimum size threshold. This means there is no inclusion for efficiency improvement for councils with less than 60,000 population served. For councils above this threshold, efficiency gains are realisable (albeit at a diminishing rate) up to a maximum of 800,000 population served, after which no further returns to scale have been included in WICS modelling.

In determining the scale of efficiencies modelled for the Water Services Entities, WICS assesses the New Zealand Three Waters sector to be in a broadly similar position as Scotland in 2002, in terms of relative operating efficiency and levels of service. In just under two decades, Scottish Water has lowered its unit costs by 45% and closed the levels of service gap on the best-performing water companies in the United Kingdom. This has been used as evidence to support the efficiencies modelled by WICS.

WICS modelling includes a capital efficiency challenge of 50% and an operating efficiency challenge of 53.3% for Entity D, with an assumption that this efficiency gap is able to be closed within 20 years from today.

Comments on the underlying assumptions

We note that Entity D is projected to have around 900,000 customers on formation. This is comparable in size (but much less densely populated) to Bristol Water and South Staffordshire Water, who were cited as achieving efficiencies of 25% and 20% respectively in the WICS reports.

Potential impact of assumption

If modelled efficiencies from service delivery reform are overestimated, or underestimated, then this will have a direct impact on the projected household charges for the water services entities. That is, overestimation of the potential operating efficiencies will result in WICS' projections of household charges for water services entities being lower than they may otherwise be if those efficiency targets are unable to be met.

3.4 Sensitivity

WICS undertook detailed sensitivity analysis (Monte Carlo analysis) of their projected household charges to demonstrate whether there are any instances where household charges would be lower under continued council led service delivery versus the reform, scenario. Across the country, this analysis shows only a very limited number of cases where household charges have any potential to be lower without reform than with it. In these cases, WICS typically notes that the levels of service received by customers without reform would be significantly lower than they would be under the reform scenario.

Importantly, while this sensitivity analysis does consider different levels of investment requirements, it does not consider the impact of the debt to revenue assumption, or assumptions regarding the percentage of revenue from households, or the number of connections. We have not attempted to recreate the sensitivity analysis completed by WICS but would anticipate that correction of these assumptions prior to undertaking the sensitivity analysis would result in more instances where future household charges crossover under the reform and no reform scenarios.

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28 September 2021

The Three Waters Team Local Government Branch Te Tari Taiwhenua/Department of Internal Affairs 45 Piptea Street/Po Box 805, Wellington 6140, New Zealand

Southland District Council feedback on central government's three waters service delivery reform proposal

The Southland District Council (SDC) have discussed the proposed three waters service delivery reforms extensively. This document reflects the feedback Council wishes to convey in relation to the proposed reforms. Further, this document seeks to identify elements, where in Council's opinion, further clarification from government is required. It is important to record that in providing this feedback Council is not indicating a position on future potential decisions that it may take regarding the reform process.

This proposed reform is a significant issue for the district and it is vital Council has a comprehensive understanding of all information before seeking the views of residents.

Southland District Council acknowledges and supports the need for reform of the three waters sector. This includes both the regulatory and service delivery provisions for three waters, in order to ensure the equitable and sustainable delivery for these services nationwide. However, council is concerned that, to date, tangible assessment of options appear to have been limited to the current proposed model, or status quo. The feedback contained within this document is prefaced on the notion that in our opinion additional work to assess alternative options is required. Further, the inter-relationship between both the RMA and future of local government reform programmes cannot be ignored. Given that these programmes are progressing concurrently SDC is concerned that the opportunity to adequately assess and understand this inter-relationship has not been provided for.

Council understands and supports this work as a priority for the government. However, as a result of the comments above and the feedback contained below, Council has not yet formed the view that the proposed system reforms in totality are the best option for Southland's communities.

Council appreciates the opportunity to continue to liaise with central government on the proposed service delivery reforms. However, Council remains steadfast in its assertions that extensive community engagement needs to occur to ensure that any decisions made genuinely reflect and address both the needs and concerns of our communities. It is recognised that there are significant differences in both service delivery and needs across the country, and that these present a number of challenges.

Since the reform programme was announced in 2020, significant work has been undertaken by local government partners across Otago, Southland and the wider South Island. This work has been well funded and supported and has included input and engagement with Ngai Tahu and local runaka representatives in a bid to understand the implications for our communities both individually and collectively.

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Feedback

- 1. One of the most significant challenges in navigating the information both produced and provided has been the timeframe within which the reforms are proposed. The speed and complexity of the proposed reforms have resulted in difficulties analyzing, interrogating and absorbing the extensive information available.
- 2. While Council does not disagree with the general direction of the information and outputs produced by the Water Industry Commission for Scotland (WICS), the assumptions made and source material utilised in producing the associated modelling has in our view undermined the value of this information given the extent of its inaccuracies.
- 3. It is considered imperative that the local community voice is accounted for and integrated into any entity or environment moving forward. It is not currently clear how local communities will be able to input and influence decision-making on local issues. The proposed governance model is considered too convoluted (and the operations detail too light) to adequately assess the efficacy or otherwise of this input. For example, it is assumed that the spatial planning function yet to be formalised through the proposed Resource Management Reforms will not adequately address this issue. Council would like further information on the proposed mechanisms for this input.

Input Examples

Operations:

A 'request for service' type system is anticipated for service disruptions, projects, or general queries and complaints.

Formal complaints escalation:

It is suggested that an ombudsman (or similar) is required above and beyond the entity 'inhouse' complaints management.

Local project input:

As an example, the recent upgrade of the Te Anau wastewater treatment facility established a community liaison group as part of the project governance structure. This structure enabled tangible input from the local community on a number of issues.

Growth/ Planning/ Prioritisation

As above – further clarification is required in this space.

- 4. Further to point 3 above regarding community input and the examples provided, in addition to understanding the anticipated requirements for local communication and engagement processes, Council would like clarity around the subsequent mechanisms for holding the entities to account in this regard.
- 5. Rural communities are at the heart of many of New Zealand's regions and Southland is no different in this regard. There is concern that the proposed 50/50 (local government / iwi) representation structure does not balance representation appropriately for Entity D, where one iwi

Page | 2



and 21 local territorial authorities are represented. Further, Council is adamant there must be rural territorial authority representation at the table at all times.

- 6. Further clarity is sought regarding how those who are not currently connected to community services would have his/her voice heard around future service provision? How are farmers, community halls and sports clubs considered within the framework of service delivery now and into the future, both from a regulatory perspective and from a service delivery perspective? What are the avenues to service those parts of our community into the future?
- 7. Although not related specifically to the proposed service delivery reforms, clarity around the funding mechanisms for Taumata Arowai and its associated regulatory services is requested. For example, are there likely to be any levies on the public-owned and privately-owned systems?
- 8. There needs to be a streamlined and efficient process for council-owned rural schemes to be transferred to community ownership. The scale of these often fall well beneath the Taumata Arowai registration limit of 200 connections for private schemes. Further, the governance and management of these schemes is also often community-run. As such, it is proposed that the current governance for these schemes should have the ability to determine whether they wish for the scheme to be transferred either into the entity, or into private ownership. It is understood that this process is both convoluted, timely, onerous and expensive at present. Council requests government provide clarity on how this would occur under the proposed reform environment.
- It is evident based on feedback that the proposed supply point treatment option is both onerous and expensive. It is essential to ensure there is a pragmatic and effective supply-point treatment option available.
- 10. The reform will bring financial ramifications. The Department of Internal Affairs has put Council debt levels at \$19.2 million under its 'no worse off package', Council accepts that figure. However, the stranded overhead costs have been calculated by DIA at roughly \$2 million a year. As a result of Council's work with Morrison Low, consultants, to produce the RFI information, a more accurate figure would be closer to \$3 million a significant difference. If Council received the proposed amount from central government, SDC ratepayers would be out of pocket and forced to make up the shortfall (ie 'worse off'). How will government make good on the ''no worse off'' principle given this shortfall.
- 11. The importance of providing assurance around public ownership retention over the short, medium and long-term cannot be understated.
- 12. Council believes strongly that population-based decision making will not represent its communities effectively or appropriately and must be avoided as the default mechanism for decision making. A number of other important considerations include; the complexities of the systems and infrastructure, access to service provision, equitable levels of service. Further detail regarding how these factors are proposed to be balanced is sought.
- Council wish to convey that it considers service delivery innovation to be an important tenet for any service delivery model moving forward.



- 14. In conjunction with point 13 above and in view of climate change trajectory and implications, Council considers that any future service delivery arrangement has an obligation to play a key role in three waters climate change adaptation.
- 15. As with many parts of the country, Southland is a region characterised by diverse communities. Some of these communities are experiencing growth, and others decline. Declining populations reinforce the need to retain the option to transition away from reticulated supplies where appropriate and look to other innovations as a substitute. These conversations are delicate and difficult and need to be undertaken in conjunction with the impacted communities. Clarification is sought on how the current proposal will accommodate this.
- 16. SDC would like to see the integration of an appropriate mission statement to reflect a commitment to all customers, including the rural community alongside the urban and metro connected population. It is anticipated that the mission statement would provide an opportunity to capture some of the more important reform drivers such as; sustainability, equitable service provision, affordability, public health and environmental benefits sought etc.
- 17. It is considered that the integration of the four well-beings (cultural, social, environmental and economic) into the operating and decision-making environment for the proposed entities is potentially a good opportunity to adequately ensure reform objectives are achieved.
- 18. Further clarity is required in relation to the alignment (or otherwise) of entity and local government development contribution policies? The management of these is critical to ensure contributions are levied in a way that does not disproportionately disadvantage any party in particular.
- 19. Approximately 20 percent of Southland's ratepayers are on a fixed income (and this percentage is on an upwards trajectory), and increasing costs will add considerable pressure in an already challenging economic climate. Council requires assurances that appropriate policy provision and protection will exist to manage these challenges.
- 20. It is as yet unclear what assurances locally employed staff, consultants and contractors are able to derive from the proposed reforms. Further clarity regarding continuity of opportunities for employment in regional New Zealand is requested.

In addition to the feedback and clarification notes above, SDC would like to confirm support for both the Zone 5/6 non-negotiables, and the Ngai Tahu shared priorities previously provided to Minister Mahuta as follows:

- Councils and local communities are to retain local input into three waters service delivery;
- All communities to receive the same standard and level of service;
- Ensure there is no privatisation of three waters;
- Local contractors have the opportunity to continue to provide their services locally; and
- Councils have an opportunity to be involved in developing the criteria for board positions.

Ngai Tahu shared priorities

• Assets cannot be sold to the private sector and must remain in the hands of the communities for our generation and future generations.

Page | 4



- Must give effect to Treaty principles and legislation and enable Ngai Tahu to meaningfully participate in decision making.
- All communities need to be able to be looked after within Entity D, including those whose councils may be aligned with Entity C and Chathams.
- Our communities have differing needs. Where a district seeks to maintain a higher level of service, they can require it of Entity D, and fund it locally where required.
- Communities across Entity D must have access to the infrastructure they need for sustainable growth, regardless of whether they are small or large.
- The base of community knowledge and skills is retained and grown through social and local procurement.
- Mechanisms must allow for representation across the region and accountability to communities. At least two jointly appointed direct to the Entity Board by Ngai Tahu and Councils.
- Direct representation comprising the capability and understanding of local needs at design, establishment and transition stages. We will continue to co-design together with DIA funding.
- Consumer ombudsman (or other similar mechanism) at a takiwa level.

Please find attached to this document the most recent Council reporting on the proposed three waters service delivery reforms. Included with this reporting for your reference is the extensive analysis undertaken by the Otago and Southland three waters collaboration, of which SDC was a member.

SDC appreciates the opportunity to continue the engagement with central government in relation to the proposed service delivery reforms. SDC welcomes the opportunity for further engagement as the discussion continues.

Yours faithfully

Cameron McIntosh Chief executive

Page | 5



Te Tari Taiwhenua Internal Affairs

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7 March 2022

Southland District Council Chief Executive Cameron.McIntosh@southlanddc.govt.nz

Tēnā koe,

This letter is to thank you for your council's feedback on the Three Waters Reform proposals, update you where feedback has resulted in changes to the Government's proposals, and answer your council's specific questions.

In October 2021, the Department, LGNZ and Taituarā published a detailed summary of the feedback received during the eight-week engagement period. This feedback has been valuable and continues to influence the shape of the three waters reform. The detailed summary is available alongside all council submissions on the Department's website here: <u>Council feedback submissions</u>

As you will be aware, following the October feedback there have been some significant changes to the reform process and proposals. We can now provide further detail on some of the areas that have been influenced by council feedback.

Refinements to the Representation, Governance and Accountability proposals

The largest area of feedback related to the representation, governance and accountability of the new entities. In response to feedback received through last year's eight-week period, the Government made a number of changes to the original proposal. In summary, these are:

- greater flexibility for each regional representative group to determine its own arrangements through a constitution this differs from the original proposal, which required a number of matters to be hard-wired in primary legislation providing limited room for flexibility;
- board appointments and removals to be made by a sub-committee of the regional representative group – the original proposal was for these powers to be exercised by an armslength 'independent selection panel' which has now been removed;
- direct accountability for duties imposed on the board to the regional representative group members may be removed for failure to carry out these duties;
- the board is required to give effect to the statement of strategic and performance expectations issued by the regional representative group – this is a stronger provision than originally proposed and enables the group to have more direct influence over the entity's strategic direction.

These refinements are set out in an <u>exposure draft</u> of the proposed legislation that was provided to the Working Group on Representation, Governance and Accountability for further consideration. The exposure draft also sets out the proposed ownership provisions for the new entities and protections against privatisation.

Te Tari Taiwhenua Department of Internal Affairs

Working Groups established to consider the top three areas of feedback

Alongside the above changes, the Government also established the Working Group on Representation, Governance, Representation and Accountability comprised of representatives from local government and iwi leaders. This Group is assessing these aspects of the proposals, including the new proposals in the exposure draft, and will shortly provide a report to the Minister of Local Government for consideration.

Since its establishment last year, the Working Group has assessed a range of options for reform, including looking back at the alternatives to reform such as alternate funding arrangements.

The Minister of Local Government and Cabinet will consider the Working Group's recommendations with any changes being reflected in the Water Services Entities Bill. The Working Group's report will be available on the Department's website once it is presented to the Minister: <u>three waters reform</u> programme working groups - dia.govt.nz

Informed by your feedback, the Government has also established two technical working groups to consider the other areas that received the most detailed feedback. A Planning Technical Working Group will consider questions relating to the interface between the Three Waters Reforms, Resource Management and planning system, and the Rural Supplies Technical Working Group is considering the interface with rural schemes.

You can find out more about these working groups, including their Terms of Reference and papers on the above Working Group webpage.

Indicative legislative timing

Legislation remains on track and expected to be introduced in several phases. The first bill is expected to be introduced by mid-2022, following consideration of the recommendations from the Representation, Governance and Accountability Working Group. This bill will contain the ownership, governance and accountability arrangements for the entities, and the primary relationships between entities and territorial authorities, mana whenua and the Crown.

A second bill is expected in late-2022 informed by the findings of the Planning Interface and Rural Supplies technical working groups. This legislation will provide for the detailed operational duties, functions and powers of the entities including for how they will participate in and give effect to plans.

Separate legislation will be required to provide for economic and consumer protection regulation, for which policy advice is being led by the Ministry of Business, Innovation and Employment. More on this process can be found here: https://www.mbie.govt.nz/have-your-say/economic-regulation-and-consumer-protection-for-three-waters/

Receiving updates from the Department of Internal Affairs

The Department will continue its ongoing communications and engagement on the Three Waters Reforms. This will include keeping councils and iwi updated on the progress of the legislation and the work of the National Transition Unit.

As councils, we know you have an important role in representing the views of your communities. If you have not been receiving the Department's regular updates on the reforms, please check your subscription here: <u>Get the latest updates from Three Waters</u>. We encourage you to ensure your staff are registered for these updates as well.

Te Tari Taiwhenua Department of Internal Affairs

Detailed questions from your council

In addition to the consistent areas of feedback, your council asked some more detailed questions. We acknowledge that many councils have been awaiting responses to these questions. The Department received more than 400 questions from councils. The below table provides the Department's response to these specific questions. The Department will continue to refresh the frequently answered questions on our website as further information becomes available. These can be found at https://www.dia.govt.nz/three-waters-reform-programme-frequently-asked-questions

Ngā mihi,

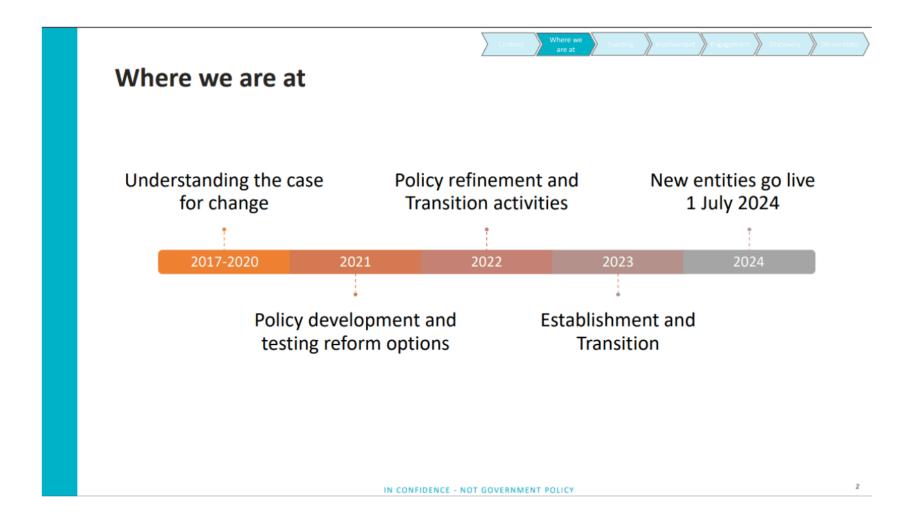
Nick Davis

Acting Executive Director, Three Waters Reform Programme

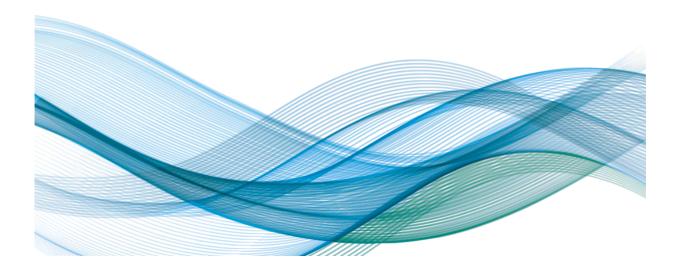
Question	DIA response
Further clarity is sought regarding how those who are not currently connected to community services would have his/her voice heard around future service provision?	Policy decisions on what service provider obligations will apply to the new water services entities are being made in the coming months, for inclusion in the second water services entities bill later this year. Subject to cabinet decisions, current provisions in the Local Government Act relating to territorial authorities' role as a water service provider will transfer to the new entities as will obligations in the Water Services Act. This includes a duty to undertake assessments of water services in their district, and a duty to step in a provide water if an existing supplier is failing. These provisions ensure the Water Services Entities will have an obligation to their communities as a whole, including those currently not connected to council services.
How are farmers, community halls and sports clubs considered within the framework of service delivery now and into the future, both from a regulatory perspective and from a service delivery perspective What are the avenues to service those parts of our community into the future?	Water Services Entities will be accountable to their communities through Regional Representatives for water services. Entities will be required to continue to provide services currently provided by councils. In communities not served by councils, entities will pick up council obligations to work with communities to ensure access to safe drinking water. This could include technical or other support for community owned and private suppliers and is a matter being considered by the Rural Technical Advisory Group.

Te Tari Taiwhenua Department of Internal Affairs

Although not related specifically to the proposed service delivery reforms, clarity around the funding mechanisms for Taumata Arowai and its associated regulatory services is requested. For example, are there likely to be any levies on the public-owned and	The Water Services Act is now in force. This Provides clarity on the requirements for private supplies and timing for them to register with Taumata Arowai and comply with the Act. This timing was extended from the original proposal as a result of feedback through the Select Committee. You can find the Act here: <u>Water Services Act 2021 No 36 (as at 01 March 2022)</u> , Public Act Contents – New Zealand Legislation you can find out more about how Taumata Arowai are working with private suppliers on their website: <u>Home Taumata Arowai</u> . The water services Act provides for levies to fund the operations of Taumata Arowai. Proposals for these levies are yet to be developed. Any process to develop levies will include public consultation.
privately-owned systems? Further clarity is required in relation to the alignment (or otherwise) of entity and local government development contribution policies?	No decisions have yet been made on growth charging, but proposals will include alignment with existing development contributions. Legislation to be introduced later in the year will provide for this.



Recommendations from the Working Group on Representation, Governance and Accountability of New Water Services Entities



Contents

E	xecutive Summary 3			
1.	. Intro	oduction	9	
	1.1	Purpose	9	
	1.2	Context	9	
	1.3	Proposed governance and accountability approach by the Crown	11	
2	. App	proach taken by the Working Group	12	
3	. Key	reflections	15	
4	. The	Working Group's priorities for the reform	19	
	4.1	Overview of Working Group's priorities	19	
	4.2	Te Tiriti o Waitangi	20	
	4.3	Te Mana o te Wai	22	
5	. Our	recommendations to the Government	25	
	5.1	Ownership	27	
	5.2	Strengthening co-governance of the RRG	30	
	5.3	Strengthening the role of and accountability to the RRG	32	
	5.3.1	Strategic direction and accountability	35	
	5.3.2	Board appointments and WSE performance	36	
	5.3.3	Providing regional flexibility and an enduring model	37	
	5.3.4	Composition of the RRG	37	
	5.3.5	Advisory groups (sub-RRGs)	40	
	5.3.6	WSE constitution	41	
	5.4	Community and local voice	42	
	5.4.1	Investment prioritisation	44	
	5.4.2	Water Services Ombudsman	46	
	5.4.3	Compliance of the WSE	46	
	5.5	The role of Te Tiriti within the Three Waters system	47	
	5.5.1	Crown Statutory Obligations	48	
	5.5.2	Upholding Treaty Settlements	49	

5.5.3	Preservation of issue of water ownership	49
5.5.4	Resourcing	50
5.6	Strengthening Te Mana o te Wai	51
5.6.1	Te Mana o te Wai as an overarching objective	52
5.6.2	Extending the definition of Te Mana o te Wai	53
5.6.3	Te Mana o te Wai and WSE Framework	54
5.6.4	Development of Te Mana o te Wai Statements	56
5.7	The role of the Crown	57
5.7.1	Crown funding	59
5.7.2	Five year review	60
6. Ac	omment on balance sheet separation	61
7. Oth	er considerations raised outside of the Terms of Reference	62
7.1	RMA alignment	62
7.2	Stormwater	63
Append	dix	67

Executive Summary

Purpose

Bringing an independent perspective from councils and iwi

In October 2021, the Government announced it would introduce legislation to establish four new publicly owned Water Service Entities (**WSEs**) to manage the Three Waters infrastructure that has been operated by or for councils up to now.

Many in local government and the community raised concerns about public ownership, the risk of privatisation and loss of local voice.

Local Government New Zealand worked with the Government to broker the establishment of the Three Waters Working Group on Representation, Governance and Accountability (**Working Group**) to provide independent advice on how to improve the governance arrangements for the WSEs.

Headed by an Independent Chair, the Working Group comprises an equal number of local government and iwi leaders.

The Working Group heard a range of views from the local government sector about various governance models. We listened to people's frustrations. We engaged in energetic debate and argument and formed our recommendations by consensus.

We welcome the inclusion of Te Mana o te Wai and consider it should be at the heart of a new approach. The health and wellbeing of water is fundamental to the future health and wellbeing of people and communities. Te Mana o te Wai recognises this. It will help us to better respond to challenges and realise

opportunities in achieving related environmental and economic objectives shared by all communities in a way that also respects shared values.

Our recommendations fall into three broad groupings:

- Support for significant changes to the Bill
- Specific recommendations for material improvements to the new water entities and delivery of services, and
- Other considerations outside our terms of reference.

Significant changes to the Bill

Ownership

As set out below, we recommend strengthening community ownership of assets through a public shareholding structure, where councils hold shares on behalf of their communities.

Protection against privatisation

Another significant concern expressed by the public is the risk of privatisation. As a response to that, our recommendations have an overarching focus on ensuring the continued and full public ownership of water services by communities.

Local voice

We recognise the public has also been troubled by how the local voice would be heard in such large entities. This has been a particular concern to our smaller, rural communities. Recognising that, we are recommending new mechanisms to strengthen the role of the new Regional Representative groups (**RRGs**) through the establishment of advisory Groups (sub-RRGs) that will feed into the larger body.

Recommendations

Recommended changes to the Bill

We have considered our recommendations within the Government's bottom lines of good governance, Treaty partnership, balance sheet separation and public ownership and we recommend specific changes to the Bill to ensure:

- Community ownership of water services assets
- Protection from privatisation
- A stronger voice for local communities in drinking water, wastewater and stormwater network development
- Strengthening Te Mana o te Wai
- Co-governance embracing Te Ao Māori to improve Three Waters service delivery and environmental protection

Opportunities for improvements

We have made more specific recommendations in the following areas.

Instituting a public shareholding structure that protects community ownership, with shares held by councils on behalf of their communities

As shareholding owners of the WSEs, councils will have the right to vote on any proposal for the WSE to be sold or privatised. This will strengthen protections against privatisation as councils would have to agree unanimously for an asset to be sold.

No privatisation could occur unless every shareholder council agreed, and councils would be required to consult with their communities.

Establishing tighter accountability from each Water Services Entity Board to the community, through new and stronger mechanisms.

We recommend strengthening and clarifying the role of the RRG, which has council and iwi/hapū representatives.

We want the RRG to approve the Statement of Intent, which guides the WSE's decision making. The WSE should give effect to a Statement of Strategic and Performance Expectations set by the RRG, and report regularly to the RRG on its performance, making it much more accountable to the RRG and communities.

Strengthening connection to local communities so they have a clear and guiding voice in drinking water, wastewater and stormwater network development.

We recommend the inclusion of sub-RRG committees comprising representatives of the communities and iwi/hapū in each region that will feed into the RRG. This will ensure local voices are always considered in investment prioritisation.

We also recommend the establishment of a Water Services Ombudsman to safeguard consumers.

Recognising Te Mana o te Wai as an underlying principle

Embracing Te Mana o te Wai as the foundation for a more sophisticated and integrated approach to providing first class drinking water, wastewater and stormwater networks will ensure that the health and wellbeing of water and the wider environment remain paramount.

We recommend extending Te Mana o te Wai into all aspects of the reforms to underpin the WSE framework. This will ensure that tikanga, mātauranga and in-depth knowledge of water, local conditions, history, and geology, and the importance of the wider environment and its communities, are all properly integrated into the governance and management approach to water services.

Ensuring co-governance principles across the water services framework

Our recommendations aim to ensure the continued improvement of Three Waters service delivery and environmental protection through increased representation of our communities, including iwi/hapū, with co-governance as a central principle.

This includes representation across the councils and iwi/hapū within each WSE region, along with a greater level of input and accountability.

Deepening public understanding

Our discussions have led to our having a deeper understanding of the opportunity the reforms present for transformational change in recognising the centrality of Te Mana o te Wai in the health and wellbeing of wai and in creating sound frameworks to support community needs around how the new WSEs will operate.

We would like the Crown to provide our communities with the same opportunity to learn. We recommend it gives fresh consideration to its ongoing communications and engagement with the public to build understanding of both the direct impact and the broader context of the Three Waters reforms.

Membership

Three Waters Working Group on Representation, Governance and Accountability is comprised of:

Independent Chairperson Doug Martin.

Iwi/Māori representatives: Ngarimu Blair (Entity A), Huhana Lyndon (Entity A), Jamie Tuuta (Entity B), Karen Vercoe (Entity B), Ngahiwi Tomoana (Entity C), Olivia Hall (Entity C), Gabrielle Huria (Entity D), Barry Bragg (Entity D), Tukoroirangi Morgan (Entity B).

Elected members of local authorities: Mayor Phil Goff, Auckland (Entity A), Mayor Dr Jason Smith, Kaipara (Entity A), Mayor Garry Webber, Western Bay of Plenty (Entity B), Mayor Neil Holdom, New Plymouth (Entity B), Mayor Campbell Barry, Lower Hutt (Entity C), Mayor Rachel Reese, Nelson (Entity C), Mayor Lianne Dalziel, Christchurch (Entity D), Mayor Tim Cadogan, Central Otago (Entity D), Mayor Lyn Patterson, Masterton (Rural/Provincial sector representative).

Chair of the joint Central-Local Government Three Waters Steering Committee Brian Hanna.

1. Introduction

1.1 Purpose

This paper provides the Minister of Local Government (**Minister**) advice from the Working Group on representation, governance and accountability of the proposed new water services entities, in accordance with the Working Group's Terms of Reference.

1.2 Context

In October 2021 Cabinet agreed to progress the Three Waters reforms so that drinking water, wastewater, and stormwater services will be provided by four publicly-owned Water Service Entities (**WSEs**) from July 2024. These WSEs will take over the responsibilities for water service delivery from local authorities.

To support engagement on the reform, Government Ministers and Local Government New Zealand (LGNZ) entered into a Heads of Agreement to set out their respective partnering commitments to support achieving their shared objectives for three waters service delivery reforms and requested feedback from local authorities and iwi/Māori. Significant feedback was received on the governance and accountability of the proposed entities.

Following that feedback, the Working Group was established, made up of experienced local government and iwi//Māori members, able to represent the wide diversity of perspectives, interests and priorities across the local government sector, including the four proposed new WSE regions. The Working Group was tasked with identifying a strengthened approach to the governance framework for the WSEs, consistent with the shared reform objectives and within

the constraints of the Crown's published bottom lines and the Terms of Reference¹.

As the Working Group, we have engaged constructively on the challenge and continue to believe strongly that transformational change in New Zealand's approach to management of the Three Waters is required. We have however made a number of recommendations that we believe will result in the new approach more successfully addressing many of the concerns raised by some councils, community groups and iwi/Māori. The approach recommended is inclusive and better ensures that water assets (and the entities that will own them) stay in public ownership, and that as their kaitiaki and stewards, iwi and council will be able to exert the necessary influence over them. It ensures that the communities we represent are at the forefront of our considerations, underpinned by the importance and health and wellbeing of water.

For absolute clarity, we want to emphasise that these reforms relate to the provision of Three Water services and infrastructure and their governance and management. No assets are being privatised and we are firm in our view that this should never occur. Similarly, these reforms do not relate to or affect the issues of ownership of water and we consider this should be made explicit too.²

Terms of Reference of Working Group on Representation, Governance and Accountability of new Water Services Entities

² Acknowledging that there remain unresolved issues unrelated to these reforms that need to be addressed between the Crown and iwi/hapū regarding rights and interests in water.

1.3 Proposed governance and accountability approach by the Crown

Following the feedback received on the original governance and accountability approach included in the reform proposal released in July 2021, the Crown presented a revised draft Bill to the Working Group³. The revisions within the Bill included:

- Greater flexibility for each RRG to determine its own arrangements through a constitution, rather than the original proposal, which required a number of matters to be hard wired in primary legislation.
- Board appointments and removals being made by a committee of the RRG, rather than an arms-length 'independent selection panel' (as was described in the original proposal).
- Direct accountability of the WSE to the RRG for performance of the duties imposed on the WSE Board and permitting the RRG to remove WSE Board members for failing to carry out these duties.
- The WSE Board being required to give effect to the Statement of Strategic and Performance Expectations (SSPE) issued by the RRG which provides more direct influence for the RRG over the WSEs' strategic direction and priorities (but without dictating its day-to-day operations).

³ 17 December Working Group meeting

2. Approach taken by the Working Group

The Working Group first met on 26 November 2021, with the mandate for members to work collaboratively to ensure the best overall outcomes for Aotearoa, and the people of each WSE region. The council members have come together to represent the interests of all local authorities, not their individual local authorities. Iwi/Māori members have come together to provide the perspective of the Treaty partner, not to represent their individual iwi/hapū. We agreed the following shared principles and values for how to work together through the process.

- Shared intention: operate with the shared intention of supporting the kaupapa of the Working Group, including by committing to discussing in good faith how the representation, governance and accountability arrangements for new WSEs can best enable the achievement of the shared reform objectives.
- 2. Mutual respect: build and foster working relationships and practices that are based on, and value, mutual respect, including addressing any issues and concerns that arise early and constructively.
- **3. Constructive:** non-adversarial dealings between the parties, and constructive mutual steps to avoid differences and disputes, and to identify solutions that advance the shared objectives.
- 4. Open and fair: open, prompt and fair notification and resolution of any differences that may arise, and the identification of potential risks and/or issues (including potential causes of delay) that could adversely impact the provision of advice and recommendations by the Working Group to the Minister.

- 5. No surprises: adopt a 'no surprises' approach in respect of matters arising, including with respect to communications to stakeholders and their public statements.
- 6. Recognition of cultural values: ensuring Te Ao Māori perspectives and mātauranga are incorporated into the working processes, dialogue and output of the Working Group.

We have taken a collaborative and bottom-up approach, with various governance models being presented by Working Group members and guests, followed by an analysis of the different options and the development of final recommendations. Meeting weekly, three sessions were held in 2021 before we reconvened 28 January through 4 March 2022. The approach adopted is summarised in the diagram below.



Recommendations were agreed by consensus except as noted in the appendix.

It is important to acknowledge certain matters are outside the scope of the Three Waters reform, and therefore outside the scope of this Working Group.

This includes, but is not limited to:

- Ownership of water (including unresolved issues relating to iwi/hapū rights and interests).
- Resource management and the Resource Management Act (RMA) reform.
- 3. The purpose and role of local government and how it may be impacted by a number of proposed reforms.

3. Key reflections

Throughout this experience, we have identified considerable value in the process, notably the reflections, sharing of experiences, talking through concerns, and finding practical solutions that provide for mutually acceptable outcomes. We consider continuation of this wānanga approach a critical requirement for the further development and success of the Three Waters reforms.

The discussions have led to our deeper understanding of the following:

- 1. The significant opportunity the Three Waters reforms present for a transformational change in Aotearoa.
- 2. The importance of Te Mana o te Wai in reflecting the paramountcy of the health and wellbeing of wai, its fundamental importance to the health and wellbeing of people and communities and understanding that it is universal⁴.
- 3. How Te Mana o te Wai can be given effect under a legislative framework when discussing water infrastructure and how an integrated and inclusive approach is necessary.
- 4. How Te Mana o te Wai provides the appropriate overarching framework for decision making and guidance to the WSEs.
- 5. The role of democratically elected local authorities in relation to placemaking, achieving outcomes for communities and strategic

⁴ See section 4 for a more detailed explanation of Te Mana o te Wai, which we consider should embrace all water bodies that are affected by Three Waters activities (not only fresh water).

¹⁵

planning for communities, and the need for this role to be accommodated within the governance structure.

- 6. The possibility of a future where asset management integrates with tikanga and mātauranga Māori.
- 7. The need for an intergenerational solution, and the important role the Crown has to play, in fixing the historic degradation of assets.
- 8. The need for national compliance standards and the time and investment required to bring existing infrastructure up to compliance.
- The need for WSEs to raise significant levels of debt to pay for necessary investment in Aotearoa water infrastructure and the implications this has on how the governance arrangements operate.
- 10. The need for the community to have clear lines of accountability and the ability to input into the priorities of the WSEs.
- 11. The amount of time it will take to successfully implement the new WSE approach and the importance of doing that, and doing it smoothly, for our collective future as New Zealanders.
- 12. The vulnerability of the sector due to skills shortages and capability.

We would like the Crown to provide our communities with the same opportunity to learn and understand and recommend that the Crown reconsider its ongoing communication and engagement with the public to better bring people along the journey to understanding the Three Waters reforms.

We also note that the WSE governance arrangements sit within a much wider framework that includes the role of Taumata Arowai, an economic regulator and resource management consents that all need to be complied with.

We recommend a commitment from the Crown in relation to its ongoing RMA reform process to ensure the outcomes under those reforms are consistent with the Three Waters reform programme, recognising the need for coordinated planning (in particular in relation to planning for growth) and the role of local government in relation to their communities.

We also believe the Crown will need to support the opportunity for transformational change the reforms offer. This is at the heart of Te Mana o te Wai and in making this concept familiar to all New Zealanders we believe the Crown should fund a well-planned change management programme founded on good policy advice, genuine engagement, input from credible independent expertise, and with excellent communications.

The importance of communicating what is happening and why to different audiences should not be underestimated. Public communications need to be led by the Government, but we believe councils and iwi will need funding to play their part in driving change management processes and ensure this important kaupapa is successful.

Recommendation 1: That the Crown acknowledges the significant contribution councils have made as stewards of three water infrastructure. We recommend the Crown undertake a positive communications campaign with the nation to explain the universally agreed 'need for change' to serve the needs of communities, expectations of how we best ensure the health of our wai, and the opportunities provided by the Three Waters reforms.

Recommendation 2: The Crown ensures Resource Management Act reforms are consistent with, and do not undermine, the Three Waters reforms (informed by the recommendations in this report).

4. The Working Group's priorities for the reform

4.1 Overview of Working Group's priorities

We have considered the Government's bottom lines (Treaty partnership, good governance, public ownership, and balance sheet separation) and identified our priorities for the reform. These priorities have guided our discussions and underpin our recommendations:

- Te Tiriti o Waitangi as a whāriki (foundation⁵) which underpins the overall WSE system. This is expanded on in the section relating to Te Tiriti.
- The importance of water and its health and wellbeing is recognised and protected throughout the system. This is expanded on below in the section relating to Te Mana o te Wai.
- 3. Co-governance responsibility and accountability through the RRG is actively enabled.
- 4. Accountability is made clear, with clearly distinguished roles and responsibilities.
- The WSEs are sufficiently adaptable and flexible to meet the needs and circumstances of the takiwā (region), iwi/hapū as mana whenua⁶ and local communities (including future generations).
- 6. The reform enables community, local voice and standing.

 ^s A "whāriki" is literally a woven mat but is used metaphorically in this case to refer to the foundation or base for the relationship between the Crown and tangata whenua.
 ^s The Bill refers to "mana whenua", which the Working Group acknowledges as iwi/hapū and both terms are used in this

⁶ The Bill refers to "mana whenua", which the Working Group acknowledges as iwi/hapū and both terms are used in this report. We believe the Bill should define "mana whenua" to mean "the twi or hapū holding and exercising customary rights, interests and authority in accordance with tikanga within an identified area".

¹⁹

- 7. A requirement for public ownership, noting the importance of the entities responsible for the delivery of water services (and owning assets that deliver waters services) remaining with the communities they serve.
- 8. The role of local authorities as stewards and iwi/hapū as kaitiaki in respect of Three Waters infrastructure.
- Form follows function; compliance with the new and higher water quality standards is key to driving better infrastructure for future generations.
- Equity of access (and same quality of service) is a critical consideration for our communities and the need for this to form part of the reform principles.
- 11. The importance of a whole-of-catchment approach ki uta ki tai (mountains to sea).

4.2 Te Tiriti o Waitangi

Te Tiriti o Waitangi/the Treaty of Waitangi (Te Tiriti) is the founding constitutional document of Aotearoa New Zealand and provides the basis for the ongoing relationship between the New Zealand Government and tangata whenua.

The "principles" of Te Tiriti are derived from the text, spirit, intent and circumstances of Te Tiriti, but cannot reasonably be viewed in isolation from the original text and language of Te Tiriti. The principles of Te Tiriti have been developed over time and, as the Courts have recognised, the Crown's obligations are ongoing and evolve as conditions change. However, the Courts and the Waitangi Tribunal have confirmed a number of well-established principles which include the overarching principle of partnership (including a

mutual responsibility for the partners to act towards each other reasonably and in good faith) as well as the principles of active protection, and the right to development and redress.

In the context of matters relating to the environment (including water), the Waitangi Tribunal has expressed the principle of partnership as including:

- the duty of the Crown to make laws and set overall policy for the conservation of natural resources in order to protect the environment;
- the Māori right to exercise tino rangatiratanga, which should not be lightly set aside;
- the duty of the Crown to do what it can to enable Māori to be kaitiaki of their environmental taonga;
- the relationship between the various environmental authorities of the Crown and Māori; and
- 5. working together to make decisions in a manner to be determined contextually on a case-by-case basis.

We endorse the express recognition of the Crown's responsibility to give effect to the principles of Te Tiriti through the Bill; and have reviewed and considered the proposed representation, governance and accountability mechanisms under the Bill against this standard.

We have proposed several recommendations to strengthen the Bill and WSE framework in order to give better effect to Te Tiriti and its principles (see section 5.5 and Recommendations 31 to 35).

4.3 Te Mana o te Wai

Tirohia te wai	Observe the water	
He au	Its energy	
He au whiwhia	A giving energy	
He au rawea	A positive energy	
He au mahora, he wai e	Energy offered, that is water	
Tauwaretia te wai	Touch it, but leave it undisturbed	
Erere	Let it flow	
Pupū ake i te whenua	Rising up from the land	
Pipī ake i te whenua	Flowing from the land	
E rere te wai e	Its pathway continues	
Hei oranga mō te katoa e	Providing life to all	
Nei ko te mana o te wai	This is the mana (prestige/authority/power) of the water	

We acknowledge and support the importance of Te Mana o te Wai as a core principle that will guide decision making, planning, governance, accountability, and service delivery. Te Mana o te Wai is a concept that refers to the fundamental importance of water and recognises that protecting the health of water protects the mauri of the wai and the health and wellbeing of the wider environment and communities. Te Mana o te Wai is about restoring and preserving the balance between the water, the wider environment, and people.

To this end, Te Mana o te Wai establishes the following hierarchy of priorities:

- 1. health and wellbeing of water bodies and ecosystems;
- 2. health needs of people (such as drinking water); and
- ability of people and communities to provide for their social, economic, and cultural wellbeing for current and future generations.

Te Mana o te Wai is in turn underpinned by the principles of mana whakahaere, kaitiakitanga, manaakitanga, governance, stewardship and care and respect.

Te Mana o te Wai thereby provides a korowai (cloak) for the new Three Waters service delivery approach throughout the whole system from top to bottom. It appropriately reflects the fact that the utilisation of water for the needs of people and our communities and economies is dependent on the health and wellbeing of our waters and waterways. The Three Waters system, embracing drinking water, stormwater and wastewater and its related infrastructure, falls squarely within the scope of Te Mana o te Wai. Decisions concerning Three Waters now and into the future will therefore play a key role in realising Te Mana o te Wai.

As such, the guidance provided by Te Mana o te Wai will help us better respond to current challenges and realise future opportunities to achieve objectives that are shared by all communities (water quality, water security, sustainable economic growth and development, resilience and climate change mitigation and/or adaptation) in a way that also respects shared values. While Te Mana o te Wai is embedded in mātauranga Māori and tikanga, it is a concept that puts the health of our water first, and is a core principle that will serve all New Zealanders.

There is an increasing need to manage Three Waters in a sustainable and integrated way to ensure the availability of services to growth areas and the protection of the environment for future generations.

Consistent with this whole-of-system and intergenerational approach, we consider that Te Mana o te Wai appropriately restores and preserves the balance between the needs water (wai), the wider environment (te taiao), and communities and people (ngā tāngata), now and into the future.

Te Mana o te Wai recognises the interconnectedness of the environment, the interactions between its parts, responsibilities of our communities and people. It requires integration between water management and land use to avoid adverse effects (including cumulative effects) on the health and wellbeing of our waterways and environment, and ultimately our communities.

An integrated approach is essential to the reform objectives (both in the present, from an intergenerational perspective, and from a community/collective perspective and te taiao – and cannot just be limited to freshwater bodies).

The Working Group has proposed several recommendations in this Report to give better effect to Te Mana o te Wai within the Three Waters framework (see section 5.6 and Recommendations 36 to 39).

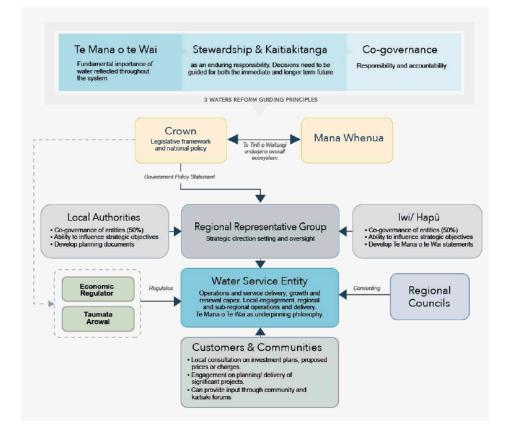
5. Our recommendations to the Government

Transformational change takes time and there is a need for a long-term enduring model that can accommodate changes over time in WSE accountability, governance and representation. We have strived to find the right balance between prescribing the requirements of the WSE governance model to ensure it encompasses key priorities while also leaving flexibility in the right areas for the WSEs to adapt to their own local and changing needs.

Recommendations outlined in this report have been specifically noted as referring to a change/provision in the Bill (if an absolute requirement or bottom lines) or in individual WSE constitutions (where governance structures are protected through a vote required to change rather than the need to amend primary legislation).

Where that flexibility within a WSE is required, additional context has been provided and should be used as a basis for a draft default constitution of the WSEs.

The strengthened governance model recommended by the Working Group is depicted below:



5.1 Ownership

Ownership: Summary of recommendations

Recommendation 3: The Bill prescribes the collective ownership of each WSE by local communities through a direct shareholding interest allocated to their territorial authorities. One share for each 50,000 people, rounded up. As shareholding owners of the WSEs, each territorial authority will be required to vote on any proposal for the WSE to be sold (privatised) or involved in a merger of WSEs, in each case that changes the owners of the WSE. The proposal will only proceed if there is unanimous shareholder approval. This is in addition to the privatisation protections currently outlined in the Bill.

Recommendation 4: The Bill entrenches the need for a majority of 75% of all the members of the House of Representatives to repeal or amend provisions of the Bill where the repeal or amendment of that provision is necessary to allow privatisation of an WSE.

Recommendation 5: The Bill expressly provides a prohibition on local authorities providing financial support to, or for the benefit of, WSEs – this includes by way of guarantee, indemnity or security, or the lending of money or provision of credit or capital.

Recommendation 6: The Crown should further explore and clarify the thresholds regarding what constitutes a major transaction to be raised to the RRG for consideration.

The Working Group agrees that the underlying key principle to ownership is that three waters assets must remain in public ownership and the ownership model must help protect against privatisation. The draft Bill already reflects this principle, but we think it can be strengthened to provide communities and territorial authorities more confidence in these protections. We believe that the collective ownership of each WSE by local communities would best be expressed through a direct shareholding interest in the statutory entity with that interest being allocated to and held by territorial authorities in the WSE's region.

Having territorial authorities as shareholders will mean there is a tangible relationship between communities and their WSE that is well understood by the public (as compared to a legislated collective ownership). This will provide a connection to the WSE and additional rights that are recognised and have value for communities and territorial authorities.

The Bill already requires that a proposal for a WSE to divest its ownership in a water service, or sell or lose control of significant infrastructure, can only proceed with at least 75% support of both the RRG and a poll of the electors in its service area. If the proposal involved sale (privatisation) or merger of WSEs then shareholder approval would also be needed after a successful poll result.

These shares would:

 Be allocated to territorial authorities by reference to current district population (one share for each 50,000 people – rounded up – in order to reflect proportionality). This can evolve with population and be reset every five years. If all shareholders of a WSE voted unanimously for a WSE merging with another WSE then the shareholdings would be adjusted to reflect that.

- Entitle the shareholder to vote on any proposal for the WSE to be sold (privatisation) or merged with another WSE and unanimous shareholder approval would be required for that proposal to proceed. This would present an additional layer of protection which is separate from the exercise of any relevant Parliamentary power to change the legislation. This is not intended to cover changes in shareholding within a WSE as a result of territorial authority amalgamations which it is suggested will require a mechanism in legislation to determine the resulting shareholding interests within the relevant WSE of the merged territorial authority.
- Except for the above right, the shares would be non-voting and not confer other decision-making rights:
 - the existence of such shares would not disturb the role or operation of the RRG
 - all other decision-making rights would continue to be shared between the RRG and the WSE Board
 - matters that a conventional company might reserve to shareholders for decision will instead be reserved to the RRG.
- Be subject to the other restrictions already provided for in the Bill (e.g. no equity return)

The importance to communities (including iwi/Māori) of retaining public ownership of water services also warrants a further layer of protection against the ability for Parliament to legislate to allow privatisation by requiring a 75% Parliamentary majority to make any legislative changes necessary to enable privatisation.

We further recommend that legislation expressly provides a prohibition on local authorities providing financial support (such as guarantees or indemnities) or

lending money or providing credit or capital to WSEs – this is not however intended to restrict what is likely to become business-as-usual arrangements such as service agreements or joint ventures. This will help ensure the ownership model is not seen by the credit rating agencies as a form of parent-company support.

The Working Group would like the Crown to explore whether any major transactions (additional to divestment proposals, which must go to the RRG for approval, followed by a poll of electors) should be approved by the RRG using the co-governance consensus principles outlined.⁷

5.2 Strengthening co-governance of the RRG

Strengthening co-governance of the RRG: Summary of recommendations

Recommendation 7: The Bill requires RRG co-chairs, one council and one iwi/hapū representative.

Recommendation 8: The Bill requires consensus decision making for all decisions on RRG. Where consensus cannot be reached within an appropriate timeframe, 75% majority vote will be sought as agreed by co-chairs. This process should be prescribed in the Bill.

Recommendation 9: The RRG requires appropriate secretariat and resource provisions to enable it to perform its role, and to allow for meaningful council and iwi/hapū participation in the RRG. This should be funded by the WSE.

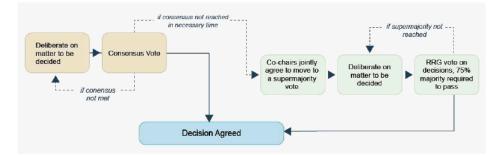
⁷ For example, the threshold applied for the purposes of the Companies Act.

The Working Group agrees with a co-governance model for the WSEs. Building on that principle and from the positive experiences many of the members have had on co-governance bodies, we have strengthened the Crown's co-governance principles and recommend the following:

Co-chairs: The RRG (including any advisory bodies to the RRG, as described in section 5.3.5) will require co-chairs, one council representative and one iwi/hapū representative, with this requirement to be prescribed in the Bill. The appointment process of the co-chairs will be left to the RRGs of individual WSEs and outlined in their constitutions.

Consensus voting: A strong expectation of decisions by consensus promotes robust discussion within a co-governed group and enables its members to work collaboratively through decisions as they arise. The RRG (including any advisory bodies to the RRG) will require consensus decision making for all decisions by the RRG to be prescribed in the Bill.

In the event that consensus is not reached within the necessary timeframe⁸, the cochairs can jointly agree to move to a 75% majority vote with 1 vote per representative.



We agree that appropriate secretariat support will be needed to assist the RRG and that this should be funded by the WSE. The Bill should provide for this.

^o Necessary timeframe for the decision, as determined by the time sensitivity of other matters depending on the decision (e.g. finalisation of the SSPE to enable the SOI to be prepared).

5.3 Strengthening the role of and accountability to the RRG

Strengthening the role of and accountability to the RRG: Summary of recommendations

Recommendation 10: The role of the RRG is to collate inputs to the SSPE. including alignment with the Government Policy Statement (**GPS**), direction from regulators, local community priorities within the region as outlined in council strategic documents, Te Mana o te Wai statements, and alignment with RMA. This is to ensure that the WSEs receive clear strategic direction. It is recommended that the Bill is amended to reflect this approach and ensure the RRG receives all necessary information to undertake its role, this includes receiving copies of the WSE Asset Management Plan and Te Mana o te Wai statements to support the development of the SSPE, and the ability to seek further information as necessary for it to undertake its role.

Recommendation 11: The Bill is amended to ensure the SSPE, which covers a period of 3 years, be issued annually to the WSE

Recommendation 12: The role of the RRG be extended in legislation to include the approval of the strategic direction outlined by the WSE in the Statement of Intent (**SOI**) (on the assumption that the SOI is limited to strategic direction only).

Recommendation 13: The role of the RRG be extended in legislation to allow comment on the operational direction of the WSE through the Asset Management Plan and other key documents.

Recommendation 14: The Bill clarifies the scope of the SSPE and excludes directing the WSE at a project, investment or management level.

Recommendation 15: The Bill should specify that the RRG will monitor performance of the WSE on delivering strategic outcomes of the SSPE and

Strengthening the role of and accountability to the RRG: Summary of recommendations

SOI through six monthly reporting from the WSE. Individual constitutions could require additional performance reporting requirements (e.g. quarterly reporting).

Recommendation 16: The Bill is amended to allow RRGs to provide additional competency requirements for appointees to the WSE Board.

Recommendation 17: The Bill is amended so that conflict of interest requirements for RRG and WSE board appointments need to be stated.

Recommendation 18: The Bill is amended to provide for bi-annual Board performance reviews. Independent reviewers or additional reviews can be included in individual constitutions.

Recommendation 19: The Bill requires a minimum of 12 and maximum of 14 representatives on the RRG. The composition and appointment of council and iwi/hapū representatives will be left to individual WSEs and outlined in their constitution, noting that the Working Group also recommends that the Crown consult the Working Group as they draft the default constitutions.

Recommendation 20: The Bill requires that Council representatives should have a mix of representatives from urban, provincial, and rural councils.

Recommendation 21: The Bill requires that iwi representatives should have a mix of representatives that are appointed on a tikanga basis reflecting their whakapapa affiliations through waka groupings. Entity D will appoint on a tikanga basis reflecting their hapū groupings.

Recommendation 22: The Bill provides for bespoke arrangements for the Entity A RRG, specifically 14 members with 50:50 Council and iwi/hapū composition. There should be 4 Auckland Council representatives, 4 Tāmaki

Strengthening the role of and accountability to the RRG: Summary of recommendations

Makaurau iwi/hapū representatives, 1 representative each from the Northland Councils and 3 iwi/hapū representatives from Te Tai Tokerau.

Recommendation 23: The Crown provides financial support to Councils so they can be appropriately resourced to allow them to fulfil their RRG roles.

Recommendation 24: The Bill requires a competency requirement for representatives to the RRG but detailed criteria will be left to individual WSE constitutions.

Recommendation 25: The Bill includes provision for regional advisory groups (sub-RRGs) to the RRG to exist within legislation. Other than 50/50 co-governance between council and iwi/hapū, composition and number of advisory groups (sub-RRGs) will be left to individual WSE constitutions.

Recommendation 26: The Bill is amended to require a single constitution that governs the RRG and WSE for each region and modifications to the constitution will require the co-governance consensus agreement of the RRG.

Recommendation 27: The Crown consults the Working Group as they draft the default constitutions.

As described in the model originally proposed by the Government (July 2021), the role of the RRG was seen as unclear and lacking in a genuine ability to provide input from iwi and councils from the regions they represent. As the RRG is the co-governance body made up of representatives from councils and iwi/hapū, the Working Group considers this body as having a primary role in

driving strategic direction that encompassed all of the various priorities and local voice within the WSE region, including Te Mana o te Wai, catchment priorities, headline matters from local council strategic plans, and future development strategies. Its role was also to appoint/remove Board members and monitor the performance of the Board and the WSE.

5.3.1 Strategic direction and accountability

The RRG is responsible for developing the strategic priorities for the WSE, for inclusion in the SSPE. The mechanism for the RRG to provide strategic direction to the WSE is through the SSPE which the WSE Board will respond to in its SOI.

The RRG will need to collate, and prioritise as required, inputs to the SSPE, including ensuring alignment with the Government Policy Statement (GPS), direction from regulators, local community priorities within the region as outlined in council strategic documents, Te Mana o te Wai statements9, and alignment with RMA. This approach should be captured within the Bill. We also recommend that the Bill be amended to include a requirement the RRG will issue an SSPE annually, noting that the SSPE will cover a period of three years¹⁰.

We agree with the Bill revisions which see the WSE having to give effect to the SSPE. However, we recommend that to ensure accountability the legislation needs to include that the RRG will approve the strategic direction outlined by the WSE in the SOI. It is not the role of the RRG to approve the operational programme of the WSE, it is however appropriate that the RRG can comment on the operational direction outlined in the Asset Management Plan (AMP) or other key documents from the WSE.

Note: The inclusion of Te Mana o te Wai statements at this level is in addition to them being provided directly to the WSE.
 The Working Group acknowledges that some strategic inputs (e.g. all Te Mana o te Wai statement, economic

regulator requirements, and RM reform) may not be in place on day 1 of the WSE "go-live" and strategic direction may change as these inputs materialise.

³⁵

We recommend the Bill be amended to clarify that the RRG will monitor the performance of the WSE in delivering the strategic outcomes outlined in the SSPE and SOI through twice a year performance reporting, with a requirement that the WSE Board members engage with the RRG on a regular basis.

We note that, through conversations with S&P, SOI approval may have potential balance sheet implications and requests that Crown include this within the next RES for consideration. If this is not feasible and the RRG does not approve the SOI, we recommend the constitution will set out a process for resolving the issues with the WSE Board.

5.3.2 Board appointments and WSE performance

The Working Group agrees that the RRG is able to appoint Board members, as currently outlined in the Bill, and is able to remove Board members through a consensus vote (per co-governance principle outlined in section 5.2). Given the recommendation to reduce the size of the RRG, we consider that the use of a RRG selection subcommittee to nominate Board members should be left to individual WSEs and outlined in their constitution.

We agree that there should be a competency-based Board per the Bill (and endorse the express requirement for experience and expertise in the principles of Te Tiriti and the perspectives of mana whenua, mātauranga, tikanga, and Te Ao Māori) but recommend this is expanded to include other skills as recommended by the RRG, which may include environmental protection and expertise in relation to community and iwi/hapū engagement ¹¹. The Working Group agreed that there must be independence of the WSE Board and clear conflict of interest requirements guidelines¹².

¹¹ These skills could be outlined in the RRGs WSE board appointment policy.

¹² The Bill should expressly recognise that membership of an iwi/hapū or membership of a local authority does not, in itself, comprise a conflict of interest.

We agree it is the role of the RRG to monitor the performance of the WSE Board and recommend that they complete a bi-annual Board performance review. This should be prescribed in the Bill. The ability for the RRG to appoint independent reviewers or complete additional reviews (i.e. annually) will be left to individual RRG and outlined in their constitution.

To support the RRG's role of WSE monitor, we recommend that the WSE provide performance reporting to the RRG at minimum twice a year and monthly key metric dashboards, to be outlined in individual WSE constitutions.

5.3.3 Providing regional flexibility and an enduring model

As there are unique considerations both across the WSEs and across catchments within each WSE, the Working Group explored how the RRG's could work in practice, driving the right level of strategic direction while ensuring regional flexibility.

5.3.4 Composition of the RRG

We have engaged in significant discussion around the potential composition of the RRG as it relates to individual WSEs. We believe each WSE needs to work through the best composition for their region, along with how this composition is reached across councils/iwi, and that this can be prescribed through their constitution.

We agree with the following RRG composition principles in the Bill:

• 50/50 council and iwi/hapū composition of the RRG.

- The process of iwi/hapū appointments to the RRG will be developed and defined by iwi/hapū based on tikanga Māori, and documented in the WSE constitution, not prescribed by the Crown
- The process of council appointments to the RRG will be developed and defined by councils, and documented in the WSE constitution, not prescribed by the Crown.

We considered the current proposal, which saw over 40 RRG members for some RRGs, would be unworkable and in principle considered that 12 members would be a more workable option. However, recognising the need for an enduring model and the differences between the WSEs we recommend a minimum of 12 and a maximum of 14 representatives, to be prescribed in the Bill¹³. The composition and appointment of council and iwi/hapū representatives will be left to individual WSEs and outlined in their constitution but considerations for bespoke arrangements are outlined below.

Entity A: We discussed an option for the Entity A RRG, being four Auckland Council representatives, four Tāmaki Makaurau iwi/hapū representatives, one council representative for each of the other councils and three iwi/hapū representative from Te Tai Tokerau.

The bespoke composition of the RRG for Entity A has implications for the majority vote provisions for that entity. The majority view of the Working Group was to recommend the 75% majority vote provision for Entity A. The alternative view of Dr Jason Smith, Mayor of Kaipara District, and Chair of the Northland Mayoral Forum, is set out below:

Alternative view: Extra consideration of Entity A majority voting rights

¹³ The Working Group expects 12 representatives for Entity B, Entity C, and Entity D, and 14 representatives for Entity A as outlined.

Bespoke arrangements are proposed for the Regional Representation Group of Entity A, intended to reflect the relative size and scale of Northland and Auckland and also to meet the required balance sheet separation of no council having dominance of RRG decision-making (see section 5.3.4) Representation has been well considered here, but decision-making processes for Entity A's RRG have not been considered as fully. I supported Auckland Council having four seats and one for each Northland council (with equal seats for iwi) on the assumption the different formula would also allow a bespoke arrangement for majority voting rights (not 75%). It's disappointing that bespoke consideration of majority voting rights has not been followed through.

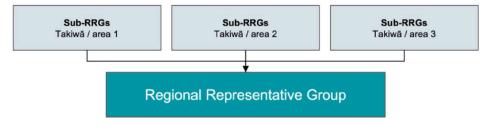
As it stands, the proposed bespoke arrangements for Entity A are distorted because the voting right majority provisions are simply proposed to be the same as for the other entities. There would be inequitable decision-making processes in Entity A if the majority vote remained at 75% (viz. 10 of the 14 people) because Auckland Council could never be outvoted while Northland councils or Northland iwi could be. This imbalance is unacceptable. If the majority required were shifted more towards consensus, to 90% (12 of the 14 votes) then, again, Auckland could never be outvoted but any majority decision would require votes from each of the four voting groups. This would be an improvement, as it is closer to consensus. For good governance I recommend Entity A has a 90% majority for decision-making and that this matter is considered fully before final decisions are taken.

Entity B, Entity C, and Entity D: We see RRG representatives for these WSEs sitting at 12 members (6 council and 6 iwi/hapū), with council membership reflecting metro, provincial, and rural representation, and iwi membership in accordance with tikanga and whakapapa affiliations reflecting representation from each of

the waka groupings within the WSE region. Entity D will appoint on a tikanga basis reflecting their hapū groupings.

We agree that competency criteria are developed for each RRG, and the representatives on the RRG must collectively meet these competency requirements. This competency requirement must be prescribed in the Bill, with each entity constitution providing the detail on these criteria, noting this may evolve over time. We have noted the need for resourcing for local council participation in the RRG and advisory groups. Proper resourcing will be required for all participants and this may require financial support from the Crown. In addition to the Crown's Te Tiriti obligations, we recommend that the Crown also provide funding to enable full council participation in the new Three Waters environment.

5.3.5 Advisory groups (sub-RRGs)



Representative diagram, number of sub-RRGs may vary by WSE

We recommend that there is provision for regional advisory groups¹⁴ to the RRG to exist within the Bill. Sub-RRGs would follow the same co-governance principles of the RRG, they would be aligned to sub-regions, takiwā or catchments (to be agreed by each RGG), and would provide additional local strategic focus. Sub-

¹⁴ Crown will need to consider the right name for such groups, for the purpose of this report they have been referred to as sub-RRGs

RRGs will be responsible for agreeing regional strategic priorities using inputs that may include Te Mana o te Wai statements, direction from regulators, local community priorities within the region as outlined in council strategic documents, and alignment with RMA.

To capture the localised differences across the four WSEs, we are not prescribing a uniform approach to the number of sub-RRGs or their composition, other than 50/50 co-governance between council and iwi/hapū. Consideration should be given to each sub-RRG having one appointee from each council within the subregion or catchment.

5.3.6 WSE constitution

To promote regional flexibility and an enduring model through use of entity constitution, the Working Group recommends that the Bill requires a single constitution for each WSE. This constitution will outline the roles and relationships of the RRG, WSE Board, and WSE. We recommend that modification of the constitution require the RRG co-governance consensus agreement with a 75% majority backstop vote (see section 5.2), rather than the 75% majority currently outlined in the Bill.

We recommend the Crown engages with and consults with us further as they draft the default constitution.

5.4 Community and local voice

Community and local voice: Summary of recommendations

Recommendation 28: The Bill requires the RRG to have input into the investment prioritisation methodology and framework through consultation between the WSE and the RRG.

Recommendation 29: The Bill includes provision for the WSE to engage with councils on the development of the WSE Asset Management Plan (**AMP**) as it applies to their district and to respond to Council's comments.

Recommendation 30: The Bill includes the establishment of a national Water Services Ombudsman with jurisdiction over all the public facing activities of each WSE, incorporating a tikanga based dispute resolution process.

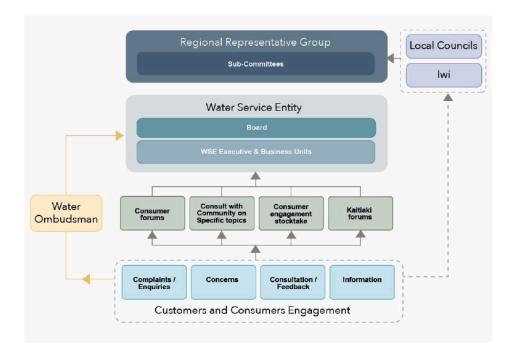
Accountability to and input from community and local voice was considered to be a weakness of the Crown's originally proposed model and has been at the core of our discussions. We agree on the importance of effective and meaningful community engagement.

The recommendations in previous sections that strengthen this area include:

 The Bill provides that the RRG is responsible for holding the WSE accountable for their engagement with communities in the preparation of their plan and summaries within the SOI and AMP.

- 2. The Bill provides for the RRG to be responsible for holding the WSE accountable for performance/compliance with Te Mana o te Wai.
- 3. The Bill requires the Te Mana o te Wai statements are also provided to the RRG and are taken into account during the strategic priority setting.
- 4. The Bill allows for the establishment of fit for purpose sub-RRGs (see section 5.3.3) reflective of the local catchments of the WSE to provide a whole-of-catchment lens over the strategic priorities and that the RRG size and shape will adjust to enable and support this.
- 5. The Bill requires WSEs to engage with local councils to comment on the draft AMP as it relates to their district to ensure that councils planning priorities are reflected in the WSE's strategic priorities.
- 6. Councils and iwi are able to feed back to their RRG members their views on whether or not the WSE is delivering at a local level, providing councils and iwi/hapū a performance monitoring role.
- 7. Council shareholding (see section 5.1).

Community and local voices will feed into the WSE governance model throughout different levels:



5.4.1 Investment prioritisation

The Working Group acknowledges that detailed direction to the WSE on their investment prioritisation is considered operational direction and not permissible in order to achieve balance sheet separation for councils. The WSE board also needs to be given appropriate independence to direct the operations of the WSEs. However, we recommend that the Bill requires the RRG to have input into the investment prioritisation methodology and framework via way of consultation between the WSE and the RRG. Through discussions of how the WSE investment prioritisation may work in practice, we also recommend that councils are able to comment on the draft AMP as it applies to their district.

We note our concern about the constraints on the WSE being able to undertake investment prioritisation given the number of inputs including regulations, GPS and Te Mana o te Wai statements. We are concerned as to how well the WSE will be able to respond to needs and requirements that are identified through separate stakeholder and community engagement while giving effect to the different regulations and requirements.

Government	National policy statements (GPS, NPS, etc)		
lwi/hapū		Te Mana o Te Wal statements	
Local Councils	Infrastructure strategy / Growth strategy	Local council review and comment	
RRG		Synthesizes inputs and issue SSPE	
Sub-RRG	Synthesises determine priorities f	strategic Review and	Ļ
WSE		Previous Review priorities against constraints (funding, documents consenting, resourcing etc) Draft AMP	Amend AMP if required
Community	Local priorities through sub-RRG	Local priorities Community forum to review AMP	
Regulators	Regulation	Review AMP (determine pricing)	

How inputs will influence the investment prioritisation:

5.4.2 Water Services Ombudsman

The Working Group recommends that the Bill includes establishment of a national Water Services Ombudsman with jurisdiction over all the public facing activities of each WSE, incorporating a tikanga based dispute resolution process. Benefits of an ombudsman include:

- 1. Operated by a not-for-profit independent body, free for customer enquiries or complaints.
- 2. Works towards a fair and reasonable outcome for the parties involved in a dispute, is not a public advocate and does not represent industry.
- 3. Gives public access to an independent complaints process.
- 4. May give the public some additional comfort about the reforms (especially in advance of the economic regulator being fully implemented).
- Provides raw data to the RRG on the number of complaints, the types of complaints and the way in which complaints are resolved by the WSE, potentially identifying trends before they become systemic problems.

To reduce additional overhead costs, the Crown should consider using an existing body that provides the type of dispute resolution services recommended by the Working Group 15 (i.e. a single national service).

5.4.3 Compliance of the WSE

The Working Group has discussed the importance of the accountability of the WSE, ultimately to the public, and how good compliance standards will support WSEs working towards the best outcome for local communities. We support having two regulators, Taumata Arowai and an economic regulator. We have voiced the need for compliance across Aotearoa's water infrastructure and we

¹⁵ Considerations will need to be made if the existing body has sufficient expertise in Te Ao Māori and tikanga based dispute resolution practices in place to carry out this additional role.

are expecting the regulators to drive and support the achievement of those requirements.

5.5 The role of Te Tiriti within the Three Waters system

The Working Group acknowledges that Te Tiriti is the foundation for the relationship between the Crown and mana whenua (see section 4). Te Tiriti provides a whāriki (woven mat) which underpins the mechanisms in the Bill that ensure representation, participation and accountability for mana whenua.

We endorse the express recognition of the Crown's responsibility to give effect to the principles of Te Tiriti in the Bill. However, we consider that there are several areas in which the legislative framework could be strengthened to better recognise and respect the Crown's obligation to give effect to Te Tiriti and its principles.

The role of Te Tiriti within the Three Waters system: Summary of recommendations

Recommendation 31: The Bill requires the Crown and Minister to give effect to Te Tiriti and its principles when exercising powers and functions under the legislation (including in issuing the GPS and exercising monitoring, review and intervention powers in relation to WSEs).

Recommendation 32: When developing the GPS, and consistent with the principles of Te Tiriti, the Crown engages with its Te Tiriti partner (separate from any public consultation).

The role of Te Tiriti within the Three Waters system: Summary of recommendations

Recommendation 33: The Bill includes a provision confirming that nothing in legislation creates or transfers a proprietary interest in water or limits, extinguishes, or otherwise adversely affects or constrains iwi or hapū authority over, or rights and interests in, water.

Recommendation 34: The Bill includes appropriate provisions to ensure that Treaty settlement mechanisms which interrelate with or affect the current legal regime governing the Three Waters reforms (including but not limited to provisions of the LGA and RMA) are carried across and have application to the equivalent or analogous aspects of the new water services regime.

Recommendation 35: The Crown provides equitable resourcing to enable the full and effective participation of iwi and hapū in the Three Waters regime.

5.5.1 Crown Statutory obligations

At present the operative provisions in the Bill which are expressed to reflect the Crown's obligations under Te Tiriti are directed towards the recognition of Te Mana o te Wai and the governance and responsibilities of the WSEs. However, the Minister also has several important statutory functions under the Bill, which states that the Minister may "consult any person, organisation, or group" when determining what action to take in terms of such interventions and appointments (including formulating any terms of reference). However, the Working Group considers the Minister should be expressly required to give effect

to Te Tiriti and its principles when exercising these important Crown statutory powers and functions.

In relation to the GPS, we also recommend that the Crown engages with its Te Tiriti partner separate from any public consultation. The GPS is a key direction and priorities setting document under the Bill and must include, among other things, the Government's expectations in relation to Māori interests, partnering with mana whenua, and giving effect to Te Mana o te Wai.

5.5.2 Upholding Treaty settlements

The Bill presently includes a provision which states that if there is an inconsistency between a provision of the Bill and a Treaty settlement obligation, the Treaty settlement obligation prevails. It also includes an operating principle for WSEs to give "effect to Treaty settlement obligations to the extent that the obligations apply to the duties and functions of an entity". Consistent with the Crown's Te Tiriti obligations, these provisions reflect the Crown's clear intention to uphold Treaty settlement arrangements under the new Three Waters regime.

We support this intent and recommend that, where required, the Bill includes appropriate additional provisions to ensure that Treaty settlement mechanisms which interrelate to or affect the current legal regime governing Three Waters (including but not limited to provisions of the LGA and RMA) are carried across and have application to the equivalent or analogous aspects of the new water services regime.

5.5.3 Preservation of issue of water ownership

The Three Waters reforms and the establishment of WSEs relate to the provision of water services and water services infrastructure only. They are not concerned with the issue of water ownership, although we note with concern that there has

been public commentary suggesting otherwise. We expect the Crown to address this within their positive communication campaign (see Recommendation 1).

We acknowledge that the unresolved issue of iwi and hapū rights in water is an important one that the Crown has committed to addressing, and that this will be a separate discussion between the Crown and iwi/hapū. However, to avoid any residual uncertainty, we recommend that an express provision be included in the Bill stating that nothing in the Bill:

- 1. creates or transfers a proprietary interest in water; or
- 2. limits, extinguishes, or otherwise adversely affects iwi or hapū authority over, or rights and interests in, water.

5.5.4 Resourcing

Two of the key governance inputs and accountabilities for WSEs under the Bill are heavily dependent on iwi/hapū as mana whenua, namely:

- 1. the appointment of representatives to the RRGs; and
- 2. the preparation of Te Mana o te Wai statements.

We consider that the effectiveness and integrity of the Three Waters regime requires iwi and hapū to be appropriately and equitably resourced to carry out these important functions. The Working Group considers that, consistent with the obligations and relationship under Te Tiriti, these matters should be the subject of dedicated Crown funding in addition to any contribution from the WSEs.

This ensures that the regional voices of mana whenua are also supported appropriately through the Crown/WSE and that mana whenua are well positioned to:

- take advantage of the proposed Te Mana o te Wai statement mechanism;
- 2. ensure that any plans are informed by Te Mana o te Wai statements; and
- ensure on-going compliance of giving effect to Te Mana o te Wai in all activities and operations.

5.6 Strengthening Te Mana o te Wai

The Working Group agrees with the Crown's policy intent for incorporating Te Mana o te Wai as a key feature within the new Three Waters system. However, we recommend several enhancements to ensure Te Mana o te Wai is appropriately reflected throughout the WSE framework and to provide more clarity on its application and effect.

Strengthening of Te Mana o te Wai: Summary of recommendations

Recommendation 36: The Bill includes Te Mana o te Wai as an overarching objective guiding decision making, planning, governance, accountability, and service delivery.

Recommendation 37: The definition and application of Te Mana o te Wai in the draft Bill be amended to ensure that Te Mana o te Wai encompasses the interconnection with, and the health and well-being of, all water bodies that are affected by the Three Water system (including marine and estuarine waters, lagoons, and pund that are either the source, conduit or receiving environment for Three Waters activities).

Strengthening of Te Mana o te Wai: Summary of recommendations

Recommendation 38: Te Mana o te Wai is reflected at all levels of the WSE framework, including but not limited to:

- Te Mana o te Wai being given effect to by the Minister in developing the GPS;
- 2. Te Mana o te Wai being given effect to by the RRG in the development of the SSPE and SOI;
- 3. Te Mana o te Wai being given effect to in asset management plans; and
- 4. Te Mana o te Wai being given effect to in infrastructure strategies.

Recommendation 39: The Crown furthers work to design inclusive communications and processes to support the embedding of Te Mana o te Wai in the community.

5.6.1 Te Mana o te Wai as an overarching objective

The Bill currently refers to Te Mana o te Wai within a series of stated objectives for WSEs. However, reflecting on the various stated objectives beyond Te Mana o te Wai, it was apparent to the Working Group that those other objectives all necessarily fell within the scope of Te Mana o te Wai. Te Mana o te Wai expressly identifies within its hierarchy the needs of people and communities (including not only drinking water, but also economic development). It is a purpose-made korowai for the Three Waters system.

We recommend therefore that Te Mana o te Wai is separately stated as the overarching objective for WSEs within the Bill with the consequence that the other subsidiary objectives identified for WSEs in the Bill should be expressed as being achieved "in a manner which gives effect to Te Mana o te Wai".

We consider that a focus on achieving Te Mana o te Wai as a core and overarching objective will also support an integrated approach to service delivery in the following ways:

- coordination between each of the WSEs (including their RRGs) that share catchments with each other or where one will be materially impacted by decisions made by their neighbour (e.g. flood protection and water scarcity);
- 2. addressing some Three Waters legacy and historical issues;
- 3. integration of Treaty settlement issues and already existing co-governance and co-management matters which are consistent with iwi and hapū values where water bodies are viewed as indivisibly and metaphysically whole (recognising that some of the best examples of integrated management have come from innovative Treaty settlements or close collaboration between iwi and hapū and their local councils, including the 2009 Waikato River Settlement, the 2009 Canterbury Water Management Strategy and the 2014 Te Awa Tupua (Whanganui River) Settlement); and
- 4. integration across legislative frameworks that affect waterways is necessary to ensure that water quality outcomes are approached consistently and in a joined-up way – in particular, the Three Waters reforms (including Taumata Arowai), the economic regulator and the resource management reforms.

5.6.2 Extending the definition of Te Mana o te Wai

The National Policy Statement for Freshwater 2020 (**NPS-FM**) has provided a blueprint for the transformation of Te Mana o te Wai, but there needs to be

clarity and certainty about its meaning, role and purpose to ensure its successful implementation in Three Waters.

In the context of the NPS-FM, Te Mana o te Wai is focused on freshwater bodies. However, the Three Waters system necessarily also interacts with and affects non freshwater bodies, including marine and estuarine waters, lagoons and puna. We therefore recommend that the definition and application of Te Mana o te Wai in the draft Bill be extended to enable the consideration of the health and well-being of all such waters (given the importance of the inter-relationship and effects of Three Waters activities on those environments).

This is to recognise the integrated whole-of-system approach to wai, from mountains (maunga) to the sea (moana), or ki uta ki tai. This all-of-system approach also recognises the fundamentals of tikanga, mātauranga and kaitiakitanga Māori. It will provide a unique, inclusive and transformative approach to the management of water and water-related infrastructure in Aotearoa for the benefit of all New Zealanders.

At a practical level, it also provides a bridge and connection to resource management planning and consenting on water take and discharge – helping to underpin consistency across the wider system and guide behaviours to a common sense of purpose.

5.6.3 Te Mana o te Wai and WSE Framework

We agree that Te Mana o te Wai needs to be reflected at all levels of the WSE framework. However, certainty and clarity of Te Mana o te Wai is also required (including as it applies at each level of the system) and how it infuses itself within and guides the WSE decisions and choices.

As a result, Te Mana o te Wai implementation will need to be considered in three broad ways.

Strategy

The co-governance arrangements that set strategic guidance for the WSEs will need to ensure that key strategic outcomes and priorities reflect or must be delivered consistent with achieving the overarching purpose of giving effect to Te Mana o te Wai. The Water Services Entities Bill should be clear that this Te Mana o te Wai objective applies:

- 1. in the development of the GPS;
- 2. in the development of the SSPE by Regional Representative Groups;
- 3. in the development of asset management plans; and
- 4. in the development of infrastructure strategies.

Community engagement

Local councils, mana whenua (iwi/hapū) and individual customers will have their own specific location/catchment-based needs and aspirations and expressions of Te Mana o te Wai. The 'plan-making' role and function of councils will need to recognise and be consistent with Te Mana o te Wai.

Operations and delivery

Water Services Entities are responsible for effectively, efficiently and sustainably matching their strategy with the community needs in a way that meets all legal or regulatory requirements within the actual (and ever changing) operating environment (i.e. while performing their 'plan-taking' role) and in a manner that gives effect to Te Mana o te Wai.

There also needs to be a clear process for measuring/evaluating WSE compliance with Te Mana o te Wai (and takiwā-specific Te Mana o te Wai statements).

5.6.4 Development of Te Mana o te Wai statements

We acknowledge that wai, or water, is a taonga of paramount importance to iwi and hapū and is essential to life and identity. Every iwi will have a whakataukī or pepehā which references an expanse of water, whether it is a river, a lake or a harbour. For many iwi, a body of water is their most important self-identifying feature.

In addition to the overarching commitment to recognise and provide for Te Mana o te Wai, we acknowledge that mana whenua whose rohe or takiwā includes a water body in the service area of an entity can draw on Te Mana o te Wai statements in a number of ways to assist with local water services delivery arrangements. This includes:

- development of Te Mana o te Wai statements for water services as identified by relevant mana whenua (which statements may relate to an individual iwi/hapū or catchment, or may be multi-iwi/hapū or multicatchment);
- advisory groups (sub-RRGs) to the RRG providing direct input into regional strategic priorities by reference to relevant Te Mana o te Wai statements; and
- Regional Representative Groups, setting the strategic direction for WSEs (including recognising and providing for Te Mana o te Wai as a core principle that will guide service delivery).

We also recommend that inclusive communications and processes be designed to support the embedding of Te Mana o te Wai in the community (including enabling the wider community to develop its own sense of connection with, and also become invested in, the Te Mana o te Wai statements that apply in their area).

5.7 The role of the Crown

Role of the Crown: Summary of recommendations

Recommendation 40: Due to the number of bodies that provide strategic direction to the WSEs the Bill should include strengthened provisions around the content of the GPS, and consultation requirements, to mitigate the risk of disconnected priorities.

Recommendation 41: When the Crown develops or reviews the GPS it should consult with the RRGs of the WSEs, and follow the standard GPS consultation process which includes community consultation.

Recommendation 42: The Bill includes provision for a non-voting Crown liaison to the RRG.

Recommendation 43: The Crown confirms that it will provide sufficient financial support to the WSEs to ensure 'balance sheet separation' from councils, that the WSEs have sufficient borrowing capacity to invest in the required infrastructure and can borrow funds at a cost similar to councils.

Recommendation 44: The Crown confirm to iwi and councils the size of investment required to address issues of historic degradation of waterways and inequalities in the provision of water services for their consideration,

Role of the Crown: Summary of recommendations

along with a plan as to how addressing these issues will be funded.

Recommendation 45: The establishment of the WSEs is not the end of the Crown's involvement in addressing water services issues, and the Crown should have an ongoing role to support and invest in water services.

Recommendation 46: A review of the Three Waters structure is undertaken five years after the WSEs are operationalised.

The Working Group acknowledges the Crown's role as a steward of the system, including those that regulate the WSEs. We had considerable discussion about the GPS and have voiced concerns on:

- 1. The role of the GPS in directing operational decisions of WSEs and how council, iwi and WSEs are able to have a voice in the GPS.
- 2. Interaction between the GPS and the ability of WSEs to undertake investment prioritisation based on the needs of communities.
- 3. Questions about who has input into and is consulted in the development of the GPS.

We acknowledge that a GPS is required as an instrument that provides high level national direction and achieve coherence across the system (including coordination of regulators). However, we recommend that the Bill strengthens provisions around the content of GPS and consultation to mitigate the risk of disconnected priorities. The GPS should reflect the objectives of the reform. Clarity on the GPS (and the process for setting the GPS to ensure it doesn't have

unintended consequences for WSEs) needs to be provided by the Crown before the establishment of the WSEs.

We also recommend that a provision for a non-voting Crown liaison with the RRG be included in The Bill.

5.7.1 Crown funding

The Three Waters reforms are partly premised on the new WSEs being able to borrow more than councils can to invest in water services. This is to be achieved by separating the balance sheets of the WSEs from councils. We have discussed how the Crown will need to provide sufficient financial support to the WSEs to not only ensure that 'balance sheet separation' is achieved, but also that the WSEs have sufficient borrowing capacity and are able to borrow funds as cheaply as possible, and ideally at the same rate as the Crown. If the WSEs' cost of borrowing is greater than councils or they are subject to borrowing restrictions that mean they are unable to fund necessary investment, it will undermine part of the rationale for the reforms.

We note the requirement by the credit rating agencies for backstop support and recommend the Crown confirms back to iwi and councils the provision of this support, along with how it will ensure this support is sufficient to ensure the financial strength, and consequent borrowing capacity, of these entities.

The Working Group has also discussed the role of the Crown as the potential funder of the WSEs. We note there are significant legacy infrastructure investment issues across the proposed entities which need to be more fully understood. In particular, investment will be needed to deal with historic degradation of waterways, and inequalities in provision of water services. Some of these issues may be due to Treaty breaches. This may require investment in infrastructure that would not pass traditional cost benefit analysis but will

nevertheless be required to meet new regulatory standards, and address inequalities.

We recommend the Crown confirm to iwi and councils the size of these issues for their consideration, along with a plan as to how addressing these issues will be funded. Given the sheer scale of investment required, additional Crown investment may be required in the future, as the WSEs may not have the capacity to fund all of what is required.

We have stated earlier that iwi/hapū and councils will require financial support from the Crown to ensure that they have the capability and capacity to fulfil their roles in relation to the WSEs. An increase in investment will also require an increase of investment in education and training, to ensure that the water industry has sufficient capacity and capability to deliver.

In short, the establishment of the WSEs should not be the end of the Crown's involvement in addressing water services issues. We believe the Crown will have an ongoing role to support and invest in water services.

5.7.2 Five year review

Real transformational change takes time. The Working Group recommends instituting a formal review of the structure as a whole five years after the "go-live" date of the WSEs. This should be an independent review of the governance structure, including a review of how effective the accountability mechanisms are that rely on Te Mana o te Wai and local voice, the Crown's role, role of the RRG and their relationships with the WSEs and composition of the RRGs.

6. A comment on balance sheet separation

Throughout this process, the Working Group has engaged in informal discussions with S&P Global Ratings on the potential balance sheet implications of some governance features being considered. Where applicable, recommended governance features that may increase linkages of WSEs to council balance sheets have been noted in the report. We have not been able to test the complete governance model with S&P as their contract with the Crown is pending. We recommend the Crown formally test all recommendations in this report as a comprehensive governance model with S&P, to ensure balance sheet separation between the WSEs and council.

Recommendation 47: The Crown formally tests the recommendations outlined in this report with S&P to ensure balance sheet separation.

7. Other considerations raised outside of the Terms of Reference

7.1 RMA alignment

The Working Group considered the importance of the resource management reforms and how those reform proposals will impact on the WSE. It is clear that the proposed Spatial Planning Act (**SPA**), which will require the development of long-term regional spatial strategies, will be of key importance for the new WSE. These strategies will identify the areas that will be suitable for development, need to be protected or improved, need new infrastructure and are vulnerable to climate change effects and natural hazards. The development of natural and built environment plans under the proposed Natural and Built Environments Act (**NBA**), which will likely also need to give effect to Te Mana o te Wai (under the NPS-FM 2020), will also be important to decision-making within regions.

Policy decisions in resource management reform are yet to be finalised and there was no information available to us on the respective governance model being considered in this area. Both reforms, however, seek more collaborative arrangements between mana whenua and local government, and between local government itself, but with potentially different rights and responsibilities in each governance model. We believe that attention should be given to streamlining and aligning these arrangements. Ideally the regionalisation and co-governance arrangements should conform with each other, and any differences should be kept to a minimum and only exist for very good reasons.

We want to ensure that further work on the reforms recognise:

- The important and ongoing role local councils will have in planning decisions on regional infrastructure, development priorities and local place making, and the need to ensure there is alignment on key aspects of the water and resource management reforms.
- WSEs will need to participate in the new NBA and SPA processes, providing input into spatial strategies and NBA plans and expert advice on consents.
- 3. The timing and sequencing of the various component parts of the new system (and what happens with the existing system) will be key to a successful transition.

7.2 Stormwater

Although outside the terms of reference, the Working Group considered the merits and issues associated with including stormwater into the water service entities. We also considered a proposal to defer the inclusion of stormwater from the three water reforms, while further investigation of the best approach to take for stormwater management in the context of Te Mana o te Wai and the NPS Freshwater. While there was not unanimous support for deferring stormwater, with the majority considering that waters needed to be considered holistically and in an integrated way, there was recognition that stormwater needed further consideration.

The inclusion of stormwater is necessary to fully give effect to Te Mana o te Wai and for the co-governance opportunity to be fully realised and meaningful because:

- 1. Te Ao Māori view of wai is holistic/single system ki uta, ki tai (mountains to sea).
- 2. An integrated approach is essential to the reform objectives (both in the present, from an intergenerational perspective, and from a community/collective perspective and Te Taiao, and not limited to freshwater bodies).
- 3. There is a need for improved collaboration across agencies (both local and central government).

The key concerns identified were:

- The stormwater system is fundamentally different from the other two waters being proposed for reform. The stormwater system is an open system; including retention basins and wetlands, as opposed to the closed networks that pipe and treat drinking water and wastewater. Stormwater management is integral to flood management and land drainage and their environmental impact is very much influenced by the many activities that take place in each catchment.
- Ownership and management of the stormwater system is complex and fragmented – key owners include council, transport authorities and private property owners.
- Stormwater could be considered as narrowly as piped conveyance networks, or as broadly as the management of our land, water and coasts. It is not clear from the reform proposals to date what is being defined as stormwater.
- 4. The efficiencies, benefits and implications of the decision to include stormwater have not been assessed.

- 5. The interface requirements (e.g. planning, regulatory, ownership) between local, regional and road controlling authorities (and civil defence and emergency management) are complex and the mechanisms to manage these require greater consideration and collaboration, especially when considered within the context of the ongoing RMA reform.
- 6. There will be a need for a phased/staged transfer (of assets, people and responsibility) into each WSE to enable clear planning around what stays with each council, what moves and where joint management will be required for dual/multiple use elements/assets. The WSEs will also need to pay their share. There is no precedent internationally for economic regulation of stormwater. It is unknown whether economic regulation can deliver multi-benefit outcomes across several organisations that exceed minimum engineering or cost options.
- 7. Without appropriate consideration being given to these concerns, the allocation of stormwater functions to WSEs could affect their ability to deliver positive land and water outcomes at the catchment level.
- 8. Fundamentally different charging systems will be required: volumetric charging is available to two waters, as they are a service provided to property connections. Stormwater services on the other hand are a public good and for the benefit of the community and the environment. How stormwater charges (akin to a rate or tax) are set will need to be addressed.

The inclusion of stormwater within an WSE means these entities will not be simple utility companies as some have suggested. They will be vital to delivering councils' land-use plans, and community aspirations regarding water quality improvements. This will require a high level of collaboration

and coordination after the establishment of the reforms. We recognise that councils and iwi/hapū will need to be involved in the transfer of stormwater functions to WSEs, and mechanisms need to be developed to facilitate collaboration and coordination.

Appendix



Minority Report of the Working Group on Representation, Governance and Accountability of new Water Services Entities

This minority report expresses dissent from some of the views expressed by the working group on Representation, Governance and Accountability of new Water Services Entities (Working Group). I welcome the process of the Working Group which has resulted in constructive discussion of the issues and recommendations for some positive and worthwhile improvements to the Government's original proposals.

However, these changes still fall short of what Auckland Council and Aucklanders require in the area of governance and accountability. The nature of our disagreement is not about the need for water reform in New Zealand, or the intent to significantly improve the safety and quality of our drinking water, and the environmental performance and resilience of our three waters. Water is a vital service and public good. There is an urgent need to reform the sector, achieve economies of scale outside Auckland, and enable increased investment in infrastructure to achieve these outcomes. We support the Government's desire to achieve change in the delivery of water services and in particular the need for water quality and economic regulation to ensure that the goals are achieved.

We acknowledge that many Councils under the current water services structures have been unable or unwilling to invest sufficiently in water infrastructure. This has resulted in some areas not meeting water quality and consent requirements. Measures designed to ensure water conservation and detecting leaks, such as water metering have also not been adopted by many Councils. Auckland has invested strongly in 3-waters, with increased investment of \$11 billion in its latest long-term plan. We also meter water usage, deliver high drinking water standards, and have achieved, through conservation measures, one of the lowest levels per capita water consumption in New Zealand. Despite this, we feel penalised by losing control and accountability over our services because of the shortcomings of some other local authorities.

Our concerns relate to the proposed governance and accountability arrangements which Auckland considers are too far removed from the community and democratic accountability. The Working Group recommends changes in this regard to the Government's proposal which do improve the proposal. In particular, we welcome the recommendations which secure proportional shareholding by individual councils as a concrete expression of ownership, proposals to strengthen the governance and accountability of the Water Servcies Entities to the regional representation groups, greater representation for Auckland on the Regional Representation Group overseeing the Northern Water Services Entity and other improvements recommended.

Despite those recommendations, Auckland is still left as a minority voice on governing and holding accountable those who deliver water services despite Auckland Council providing 93 per cent of the new Water Services Entity's assets.

Given the unique nature of Watercare which serves over a million and a half customers and already has economies of scale and operates effectively, a one size fits all approach does not meet our needs. In fact, Auckland has already achieved most of the size, scale and efficiency benefits the reforms are seeking to achieve for New Zealand. Indeed in her cabinet paper of 14 June 2021, Minister Mahuta acknowledges "I consider it would be possible to exclude Watercare from the reforms on the basis that it already has many of the desired features of the reform." This leads to the question, what is the problem the Government is trying to solve in Auckland?

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I set out below the areas of disagreement with regard to specific recommendations and with the Government's current proposal. These reflect the views of elected members in Auckland and the views Aucklanders expressed in submissions and independent survey results.

Re: recommendations on ownership of Water Service Entities (WSE)

We agree with the concepts of kaitiakitanga supported by the Working Group and support the Working Group's shareholding model recommendation as a significant improvement over the Government's original proposal. The change would emphasise and entrench community ownership of the assets and would be an additional safeguard against privatisation. However, ownership of assets should mean appropriate control over those assets. Auckland Council, representing its community, ends up as a minority voice on the Regional Representation Group despite contributing the overwhelming majority of the assets. We therefore disagree with the recommendations for the following reasons:

- With ownership comes rights, responsibilities and obligations. Ownership needs to be
 reflected in democratic accountability and this proposal would lead to the loss of direct
 accountability and control the people of Auckland over water service entities through their
 elected representatives.
- Feedback from the people of Auckland, through three and a half thousand submissions and an independent and representative polling survey, confirms that they do not support the Government's proposal as currently constituted. More than three-quarters (77 per cent) of submitters supported the council's position that any new water entity should be kept accountable and responsive to the public through their elected council representatives. Results of the independent polling were similar, with 67 per cent supporting the council's position. Submitters were even more strongly supportive of Auckland Council having the majority of control in any new entity, with 83 per cent of submitters and 74 per cent of survey respondents agreeing with the council's position. As Mayor of Auckland, it is my responsibility to represent the views of elected members and the people of Auckland they represent.
- Auckland Council wants to retain its current CCO model. Auckland already has specific 'substantive CCO' legislation. The CCO model has proven to be effective and a recent independent review confirmed that "the CCO model remains the right one for Auckland, bringing together strong business disciplines, agile decision-making, streamlined administrative structures, operational efficiencies and specialist skills and expertise".¹

Re. recommendation re. strengthening the role and accountability to the Regional Representation Group (RRG)

While we consider the working group's recommendations relating to the size and composition of the RRGs, and bespoke arrangements for Entity A, an improvement on the Government's proposal, we disagree with the recommendations for the following reasons:

- Proportional representation on the RRG is required to reflect the population and economic contribution of Auckland Council and would address our concerns.
- The proportional representation of Entity A (and indeed other entities) under either the Government's or the Working Group's proposal is not equitable or representative of the investment, population and assets Aucklanders are transferring to the Water Service Entity. Auckland Council's ownership of assets constitute 93 per cent of the water assets in Water Services Entity A. Under the Government's proposal, with one seat at the table (12.5 per cent) Auckland would be reduced to a minority voice in decisions as to how those assets were used (noting the 75 per cent majority vote provision). With the amendments proposed by the Working Group, Auckland Council's voice on the RRG would increase to 28 per cent but would still be a minority voice in decisions.

¹ Review of Auckland Council's council-controlled organisations (July 2020), Report of Independent Panel, p. 1.

Consultation and polling indicate the public strongly supports the council's position, with
more than 80 per cent of those submitting on to the consultation agreeing council should
have majority control of a new water entity, while more than 75 per cent backed council's
view that a new entity should be kept accountable to Aucklanders through elected
representatives.

Re: recommendation on co-governance of the RRG

We disagree with the recommendation for the following reasons:

- Democratic accountability, through elected representatives, to people who funded the water infrastructure in Auckland valued at many billions of dollars, and who continue to pay for its operation, is critical. It is not appropriate to cede control over this infrastructure to other councils and mana whenua and to remove existing accountability to Aucklanders through elected representatives.
- We are committed to work in partnership with mana whenua which we have done through the development of our Water Strategy, and to consider alternative ways of strengthening this partnership.

Re: Stormwater

We advocate further consideration on inclusion of stormwater and believe there should be a specific stormwater recommendation seeking a deferral on the inclusion of stormwater in the new WSE until further work is undertaken. More specifically:

- There has been inadequate analysis of the benefits and costs of transferring stormwater functions to a new WSE. The focus of the Stormwater Technical Working Group was to consider how these assets and functions should be transferred, not why.
- It is unclear how an economic regulator will be applied to stormwater functions and how it
 may consider the very difficult task to measure social, community and environmental
 benefits that are intrinsically linked with stormwater management.
- Stormwater is intrinsically linked to the land use planning function of council and more detailed consideration needs to be given to the implications of this function being separated. An understanding of the changes the Resource Management reform will bring is also required before any separation should be considered.
- This does not preclude options, such as an entity contracting the management and maintenance of stormwater assets as interim steps nor to the ultimate inclusion of stormwater in the water entity. However, further work needs to be done to understand the consequences and to justify its inclusion before this can be supported. Given the radical changes proposed to water, it would also make sense to allow a new water service entity to focus on the massive tasks of amalgamating and delivering water and wastewater services in the first instance.

Re: Recommendations regarding strategic direction and local voice

We support and advocated for the accountability improvements suggested by the Working Group, but with the relegation of the owners of the infrastructure to a minority position on the RRG, this does not resolve the problem of the loss of democratic accountability.

The following section outlines our general concerns with the Government's proposal.

Scale and efficiency

Auckland is a high-growth area. This requires significant coordination to achieve development. The amalgamation of Auckland in 2010 was intended to achieve this. The CCO model was considered as the most appropriate model to ensure the alignment and coordination between council planning,

transport, water and community infrastructure. Auckland and Watercare are already of a scale and size that achieves the efficiency and competency gains expected by the Government. The introduction of an economic regulator will also help improve efficiency gains and we are not opposed to this.

Auckland has demonstrated that it is willing to share its learnings and capabilities through Watercare's current contracting to deliver services to the Waikato District Council. We are willing to consider applying this model to those councils in Northland should they wish to do so.

Coordinated city planning and investment to meet economic and growth needs

As the economic power-house for New Zealand, Auckland needs to deliver coordinated and timely investment. Auckland Council is seen by the public as the entity responsible for planning and infrastructure investment in Auckland. Dilution of our role will exacerbate piecemeal planning and infrastructure provision. I am concerned that it will make it harder to ensure we have pipes and roads in the right places at the right time. We need to simplify the planning, funding and delivery of infrastructure for Auckland, not add to its complexity.

We strongly believe to achieve the coordination a city the size of Auckland needs, the current CCO model with some further refinement is the best option.

Investment and balance sheet separation

There is insufficient evidence that establishing these four water entities will deliver the efficiency gains the Government is expecting. Indeed, they may not be able to borrow significantly more to invest in infrastructure. This is because:

- the additional costs these entities will face due to increasing bureaucracy and compliance are likely to be considerable.
- S&Ps original assessment of the proposed entities indicated they required the support of the Government to raise the Issuer Credit Rating. We have serious concerns about the cost of the debt envisaged by the Government and whether the proposed WSE boards will have the ability to, or be comfortable with, borrowing significantly more to invest in infrastructure. The Government has not shown what benefit there would be to Auckland in terms of the ability to invest more in infrastructure. Auckland Council will not benefit from any increased debt headroom. One of our credit rating agencies, Moody's, already excludes Watercare debt from its considerations. While Watercare's debt would be removed from our books, so too would its direct revenue stream, cancelling most of the benefits from a debt to revenue perspective. We will therefore not be able to accelerate our investment in other infrastructure as a result of these reforms.
- The consequence of fragmented planning and infrastructure delivery environment may well lead to more expensive infrastructure provision and greater inefficiencies. This is an issue that needs to be dealt with in a holistic manner, not in an ad hoc piecemeal way.
- We are also concerned at the viewpoint expressed by Standard and Poors that accountability to consumers and funders of Water Services Entities through elected representatives is regarded as "undue influence". We believe that the role of the regulators, the Government's ability to set policy through National Policy Statements, a requirement that Councils not set water prices or bail out a Water Services Entity in financial difficulty, and the Crown providing a liquidity facility or guarantee would all allow accountability as well as allow a separation of books to facilitate access to additional investment capital.

Connection with wider government reforms

There is a strong connection between the water reform and the reform of the Resource Management Act and the future of Local Government. The potential for unintended consequences is a significant risk. Council and the public have insufficient information to understand how these reforms will work together. For this reason, we support the continuation of the current CCO model for Auckland.

In conclusion, I ask the Government to consider these issues carefully and take account of concerns raised by Aucklanders and their elected representatives in particular about the proposed governance and accountability structure.