

Crown Infrastructure Three Waters Reform - Proposed Funding Works Programme

Items	Network	Project Description	2020 - 2021 Capital works Program	ICC Allocation	Regional Allocation	Comments	Method	Completed by
1	Water	Emergency Water Supply investigation	No	\$300,000		This work is to carry out test bores to identify a source of water that could be used as an alternative emergency source of water for the Invercargill City.	Council to engage with suitable external consultant and drilling contractors to identify sites within the Awarua area that may be suitable. then to carry out a number of test hole bores (these may be up to 250 m in depth) to identify a suitable water source as in quality and volume.	External consultants / Contractors
2	Water	Branxholme trunk main renewal	Yes	\$1,500,000	\$2,240,000	This work is to replace 10.2 km of 600 dia pipe including 2 river crossings at an estimated cost of \$10M. The contract is currently scheduled to take 3 years starting in 2020. The Proposed Crown infrastructure funding will allow some of this work to be advanced	This is currently under design by Council Engineers, plans and specification being developed and expected to be tendered out in the 20-21 financial year	Council Engineers / Contractors
3	Water	Earthquake Strengthen - filtered water channel Portals Clarifier	No	\$50,000		This work is an improvement included in the Council Water Safety Plan to reduce the health risk. The seismic assessment identified that the existing channels required extra bracing	To review the initial structural design, provide options, plans and document to enable a contractor to complete the work to a LEVEL 4 design standard	External consultants / Contractors
4	Water	Earthquake Strengthen Infilco Accelerator	No	\$150,000		This work is an improvement included in the Council Water Safety Plan to reduce the health risk. This work is required to reduce the likely hood of the collapse due to an earthquake	To review initial structural design, provide options, plans document to enable a contractor to complete the work to a LEVEL 4 design standard	External consultants / Contractors
5	Water	Branxholme WTP - Redesign and install new transfer pump manifold	No	\$250,000		This work is an improvement included in the Council Water Safety Plan to reduce the health risk. This work is to install a secondary manifold to allow each supply line to run independently of each other	Carry out design work to produce mechanical drawing and specification so that a second manifold can be installed. This would allow both Supply lines to run independently of each other and have resilience in the network	Council Engineers / Contractors
6	Water	Water Pipe Network - hydraulic model	No	\$50,000		This work is an enhancement included in the Council Water Safety Plan to reduce the health risk. This work is to develop our trunk model into a full water model.	This work include extending our current trunk network to include all pipes. This would require validation of the current information and may require site investigation to obtain missing data as and when required. The building of the model will be off site by external consultants	External consultants / Council Engineers
7	Water	Online Fluoride Meter	No		\$30,000	This work is an enhancement included in the Council Water Safety Plan to reduce the health risk. It will be used to monitor the fluoride in the reticulation network	Council staff to identify suitable meter and locations for installation. His work will also include putting the data on to the Council SCADA system for monitoring	Council Engineers / Contractors
8	Sewer	Sewer Asset monitoring -CCTV & cleaning	No		\$650,000	This will increase the amount of CCTV inspection from approximately 8 % to 25% of the sewer system and allow a more accurate indication of the condition of the network	Council Engineers would engage with local cleaning and CCTV inspections contractor. This data would be used to further enhance our current condition assessment data.	Council Engineers / Contractors
9	Sewer	Flow meters at all sewer pump stations	No	\$250,000	\$50,000	This work of install flow meter on all the sewer pump station discharge pipe will provide accurate flow monitoring and condition information on our pumps	Council Engineers would investigate the existing sewerage pumps station to evaluate how they could be installed. Working with our maintenance contractor for the physical installation and them linking this data onto the Council SCADA system	Council Engineers / Contractors
10	Water	Additional pressure and flow instruments on the Water systems	No	\$100,000	\$30,000	Setting up additional pressure and flow sensor on the reticulation network to allow the system to be monitored and control more accurately	The Council Engineers would review the network to determine the number of pressure sites required. It would include pressure sensor and flow meters linked into the Council SCADA system. This work would be used not only to monitor but provide information for our on going leak detection program	Council Engineers / Contractors
11	Water	Branxholme trunk main: replace dall tubes with mag flow meters	No	\$50,000		This work included replacing the existing Dall Tube meters at the Waikiwi Reservoir site with Mag Flow meters that provide more accurate data over the full flow range	Council Engineers would review existing requirement and where possible install them in the existing structures. This work would be carried out by our maintenance contractor	Council Engineers / Contractors
12	Sewer	Preston Street trunk main Duplicate - crossing under Waihopai River	No	\$200,000		This work would be to duplicate the existing 450 dia pumping line (160 m) across the Waihopai River at the same time as the Branxholme Water main work (as noted above) is being done. This would provide cost saving to Council compared to if the work was done at a later date	Council engineers would confirm the size and length to get under the Waihopai river and would seal it off until it was required	Council Engineers / Contractors
13	Sewer	Sewer full hydraulic model	No	\$100,000		This work is to extend our trunk model to a full network model	This work include extending our current trunk network to include all pipes. This would require validation of the current information and may require site investigation to obtain missing data as and when required. The building of the model will be off site by external consultants	External consultants / Council Engineers

Total \$3,000,000 \$3,000,000