

Water & Wastewater Services

Sub Activities:

Water Supplies

Sewerage

Stormwater

Goal

To provide a water and wastewater infrastructure that meets the needs of the community, ensures a healthy standard of living, and minimises effects on the environment.

Nature and Scope of Activity

Water Supplies

In the Kaikoura District, there are six public water supply systems, Kaikoura Urban, East Coast, Kincaid, Fernleigh, Oaro and Puketa. Of these water supplies, East Coast and Fernleigh are essentially supplies for stock and irrigation. Kincaid is becoming more and more a domestic supply, due to growth over that area. The remainder service domestic households and commercial activities.

In 2005 Council purchased a secure ground water source of exceptional water quality and reliable quantity, which should provide Kaikoura with sufficient water to meet expected demands for at least the next ten years. During the 2005/2006 year, this water source has been connected to the reticulation system for the town, and a new booster pump station and treatment plant have been constructed. This ground water source began supplying the town, taking over from the current Waimangarara river intake gallery, in September 2006.

Sewerage

Currently only those properties within the urban area have access to a sewer reticulation system consisting of 25km of pipes and 8 pump stations. The sewage is treated in oxidation ponds before being discharged into ground.

Major upgrading of the sewerage system commenced in 2005, with the replacement of the filtration beds at the oxidation ponds, and in 2006 further screening and dislodging was done at the oxidation ponds, and a new sewer main is under construction from Churchill Street to Ludstone Road, to provide for new developments in this area. This will increase the capacity of the ponds and the sewer reticulation in anticipation of a potential doubling of resident population within the next ten years.

Stormwater

The stormwater system consists of approximately 5km of pipe network, plus 40km of unpipied ditches.

Effects on the Community

The provision of quality water and wastewater services promotes the social, economic, environmental and cultural well-being of the community. It is fundamental to the health of everybody using these services, and ensures that Kaikoura can meet the expectations of its residents and tourists in providing a clean, pure water supply and sanitary wastewater treatment and disposal.

Community Outcomes

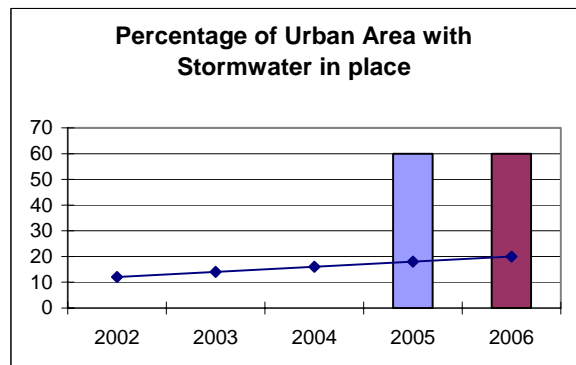
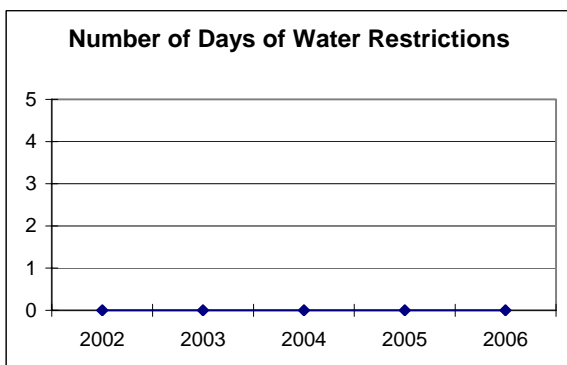
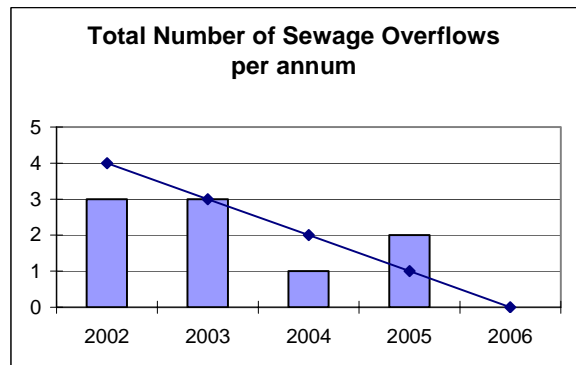
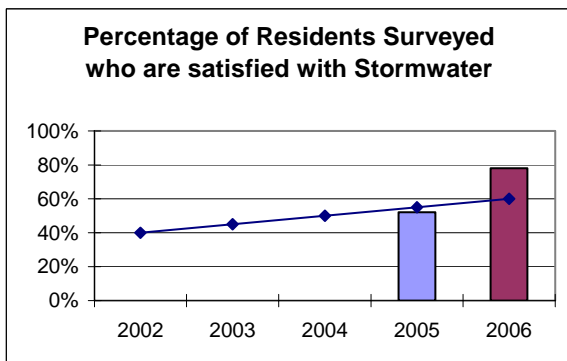
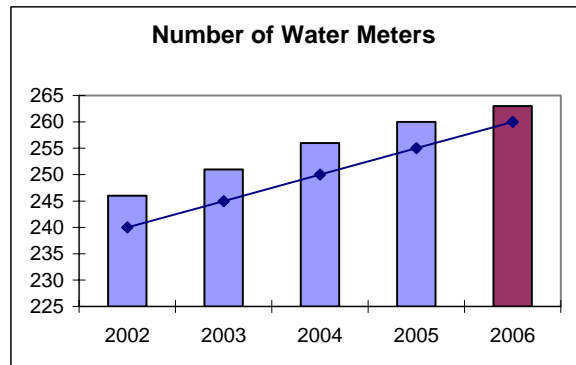
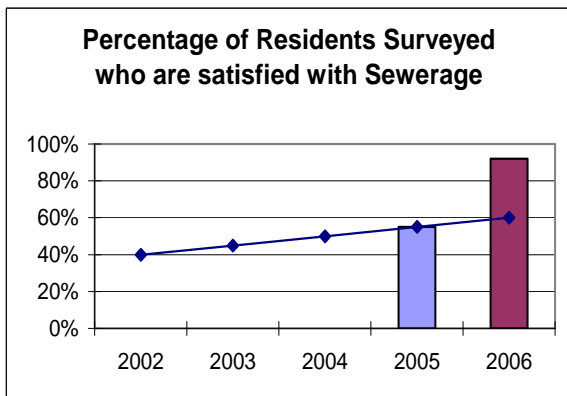
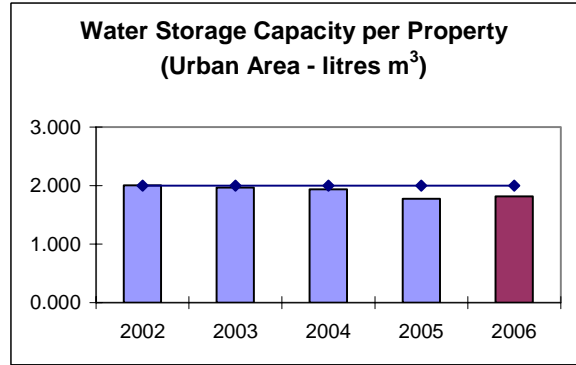
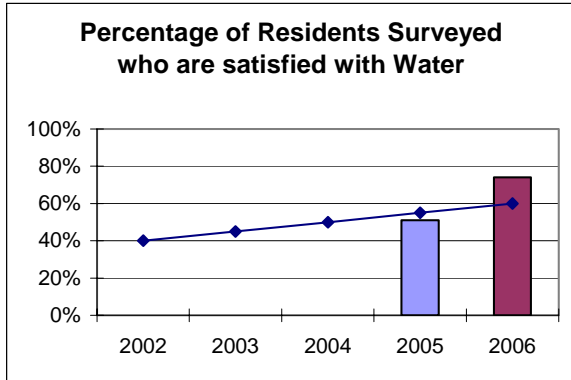
The following table highlights how Water and Wastewater Services contribute to the achievement of our Community Outcomes.

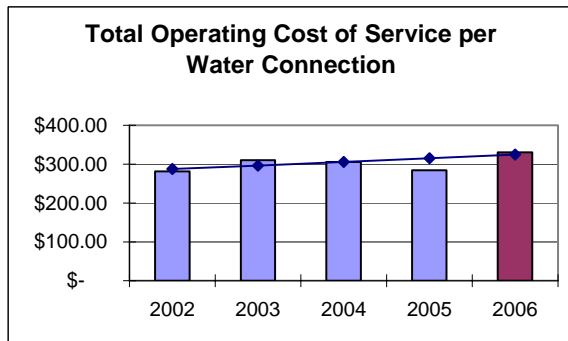
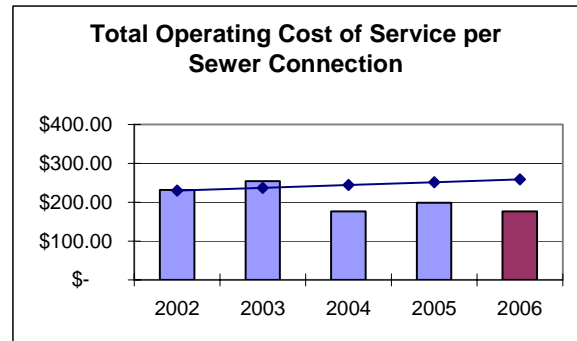
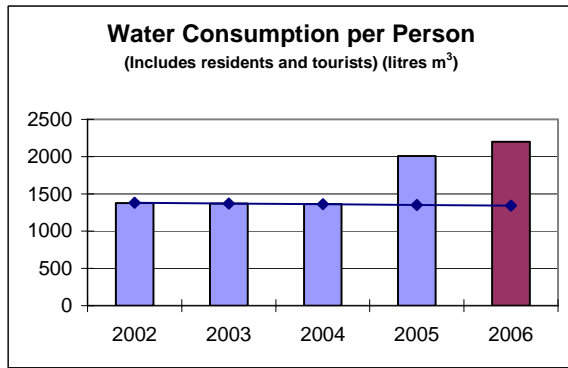
Community Outcome	How the Water and Wastewater Activity Contributes	Performance Measure
Sustainable Development	By providing adequate water and wastewater infrastructure, appropriately funded to meet future development needs.	Percentage of residents surveyed who are satisfied with water, sewerage, and stormwater.
Quality Water and Wastewater Services	Improve water supply quality to meet the desired level of service and improve reliability, improving alternate supply sources, increasing storage capacity in the urban area, and installing water meters for large volume users.	Drinking Water Standard grading Number of days of imposed water restrictions Total storage capacity (m ³) per property Number of water meters (total)
	Ensure that sewage is disposed of effectively, with minimal environmental impact.	Number of sewage overflows per annum.
	Provide for further stormwater development throughout the urban area, with particular focus on Beach Road and South Bay.	Percentage of the urban area with stormwater infrastructure in place.
Environmental Protection and Enhancement	Provide adequate drainage to protect surrounding land.	Presence of flooding or slips following heavy rain.
	Ensure the sustainable management of resources by promoting water conservation	Water consumption per annum (cubic metres used by each resident and tourist over the whole district)

Community Outcome	How the Water and Wastewater Activity Contributes	Performance Measure
Affordable Access to Quality Community Facilities	Support the development of a combined sports complex by removing any unnecessary barriers to the facility's completion	Water and wastewater infrastructure is in place to service the complex
Quality Standard of Affordable Housing	Ensure that new dwellings have access to a potable water supply, which is provided at an affordable cost.	Total operating cost of service per connection (Kaikoura Urban).
	Ensure that all urban properties have access to a sewerage system that is efficient and affordable.	Total operating cost of service per connection (Kaikoura Urban).

Report on Performance

Performance Measure	Last Year	Target	Actual Result 2006
Drinking Water Standard grading	Grading information not available	Kaikoura Bb, Other supplies to meet expectations	There is no grading information available from the Ministry of Health. Council is working with the Ministry for provisional grading.
Presence of flooding or slips following heavy rain.	There were no incidents of floods or slips on Council roads.	Reducing trend.	There were two incidents of flooding, and eight slips on Council roads. Slips on the State Highway are not recorded as these are outside Council control.
Water and Wastewater infrastructure is in place to service the combined sports complex.	Not yet required.	In place.	Not yet required.





KEY: The line in each graph indicates the Councils desired trend, and for 2006 the Actual Target

Level of Achievement

Council has essentially achieved or exceeded all of the targets set in 2005/2006, with the exception of water consumption per person, which continues to increase. A leak detection programme has recently been conducted, and as a result of this several large leaks have been found and parts of the reticulation network have been replaced. Further less severe leaks will progressively be repaired within the next 12 months.

Most pleasing is community satisfaction with water supply, sewerage and stormwater infrastructures, which reflects the investment Council has made, and continues to make, in upgrading these services.

Cost of Service Statement: Water & Wastewater Services

FOR THE YEAR ENDED 30 JUNE 2006

	2006 BUDGET \$	2006 ACTUAL \$	2005 ACTUAL \$
Operating Expenses			
<u>Kaikoura Urban Water Supply</u>			
Operations	285,178	287,236	226,286
Loan Interest	53,893	46,708	42,617
Depreciation	146,048	156,677	134,981
	485,119	490,621	403,884
<u>Rural Water Supplies</u>			
East Coast	53,979	61,977	67,815
Kincaid	43,961	34,149	34,957
Fernleigh	17,170	20,696	20,814
Oaro	22,539	19,228	20,528
Puketa	3,941	7,240	4,674
	141,592	143,290	148,788
<u>Wastewater</u>			
Operations	186,961	194,857	227,653
Loan Interest	34,905	26,953	25,362
Depreciation	127,750	120,357	119,184
	349,615	342,167	372,199
<u>Stormwater</u>			
Operations	47,045	49,002	44,835
Loan Interest	10,004	10,228	10,397
Depreciation	19,370	27,774	27,217
	76,420	87,004	82,449
Total Operating Expenses	1,052,746	1,063,082	1,007,320
Funded by:			
Targeted Rates & Charges	876,825	876,687	816,845
Water Meter Charges	131,000	118,054	110,929
User Fees & Charges	37,420	31,095	29,987
Financial/Development Contributions	863,000	793,175	701,458
	1,908,245	1,819,011	1,659,219
Operating Surplus/(Deficit)	855,499	755,929	651,899

	2006 BUDGET	2006 ACTUAL	2005 ACTUAL
	\$	\$	\$
Capital Expenditure			
Kaikoura Urban Water Supply	293,624	886,125	328,959
Rural Water Supplies	21,265	25,283	80,664
Wastewater	1,214,000	506,627	341,229
Stormwater	10,000	30,991	8,275
Loan Principal	74,298	80,116	99,123
	<hr/> 1,613,187	<hr/> 1,529,142	<hr/> 858,250
Other Revenue			
Reserves	(13,000)	91,269	(149,845)
Loans	433,327	300,000	-
	<hr/> 420,327	<hr/> 391,269	<hr/> (149,845)
Balance (Depreciation)	(337,361)	(381,944)	(356,196)

Capital Expenditure: Acquisition of Assets

The Kaikoura Township residents now benefit from a new secure ground water source, providing water of exceptional quality to the urban area. As part of the development to change to this new source, Council has installed a booster pump station at Fords reservoir, plus a treatment station at the source itself. While tests have indicated that the water at the new source is pure and does not need treatment, chlorination is still required to eliminate residual contaminants within the reticulation network.

Once the ground water source is fully operational, Kincaid water supply will have access to additional water from the Waimangarara River intake, and a telemetry system has been installed at the Kincaid water supply in preparation for this.

The establishment of the Kaikoura township water source was originally budgeted for in the 2004/2005 financial year, however progress had been delayed while the transfer of ownership of the ground water bore was negotiated.

The capacity of the sewerage system has been increased over the last two years by replacing the filtration beds and carrying out screening and desludging of the ponds.

A new sewer trunk main is in the process of being installed from Churchill St to Ludstone Road, in response to significant urban development in the Seaview and Ocean Ridge subdivisions. This work is still in progress, and much of this budget will be carried forward to 2006/2007.