

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 Peketa. Of these water supplies, East Coast, Kincaid and Fernleigh are essentially supplies for stock and irrigation. The remainder service domestic households and commercial activities.

In 2005 Council has 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 will be connected to the reticulation system for the town, taking over the town supply from the current Waimangarara river intake gallery.

Sewerage

Currently only those properties within the urban area have access to a sewer reticulation system consisting of 19km of pipes and 8 pump stations. The sewage is treated in oxidation ponds before being discharged into ground.

Commencing in 2005, the oxidation ponds are being desludged, and a new sewer main is to be constructed from Churchill Street to Mill 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

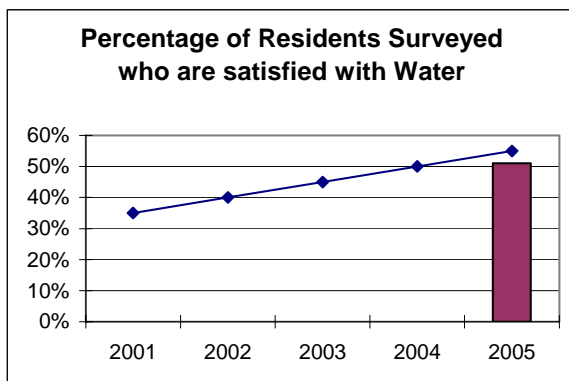
The following table highlights how Water and Wastewater Services contribute to the achievement of our Community Outcomes.

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)

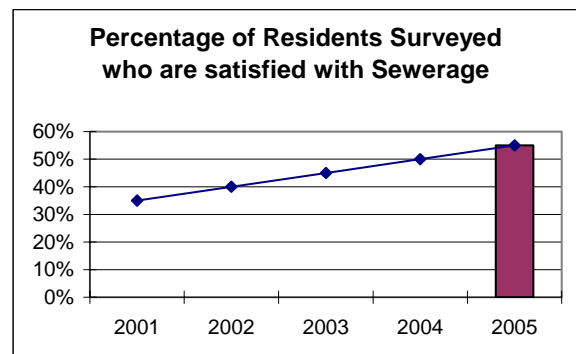
Community Outcome	How the Water and Wastewater Activity Contributes	Performance Measure
Affordable Access to Quality Community Facilities	Support the development of a combined sports complex by removing any unnecessary barriers to the facility's completion	Water and wastewater infrastructure is in place 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

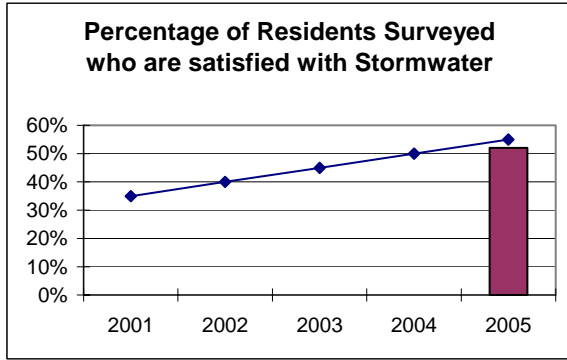
Performance Measure	Last Year	Target	Actual Result 2005
Drinking Water Standard grading	Kaikoura De, Other supplies not graded	Kaikoura Bb, Other supplies to meet expectations	Grading information not available.
Presence of flooding or slips following heavy rain.	Not officially recorded.	Reducing trend.	Several large slips occurred over the period on State Highway One, these are beyond Council control.
Water and Wastewater infrastructure is in place to service the combined sports complex.	Not yet required.	In place.	Not yet required.



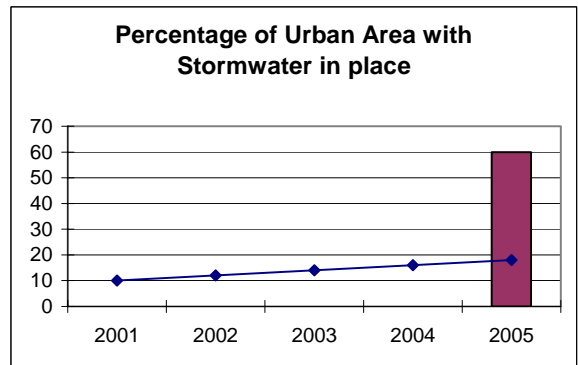
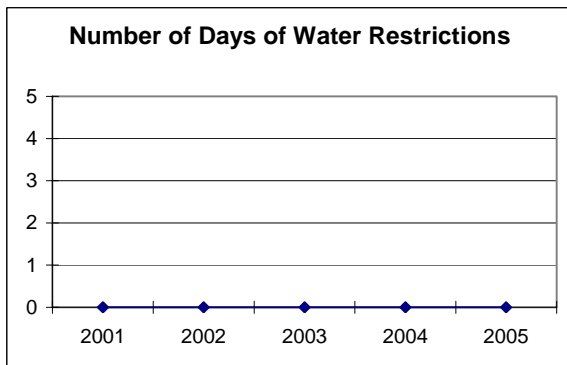
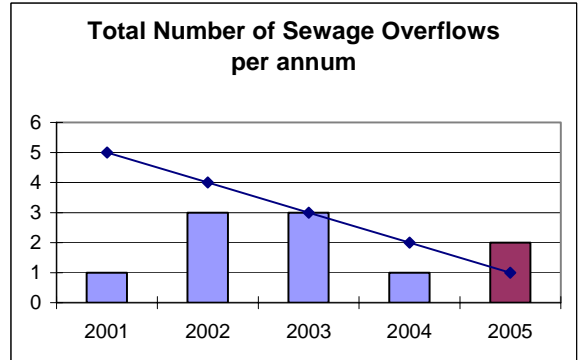
Not asked in surveys prior to 2005



Not asked in surveys prior to 2005

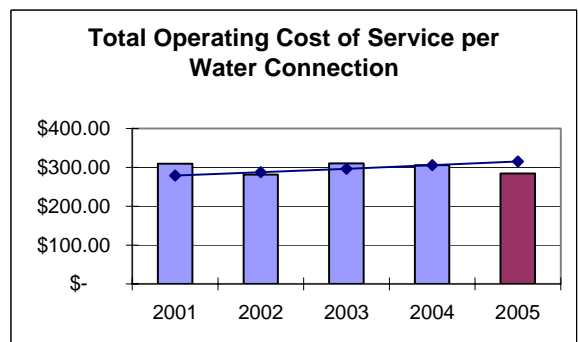
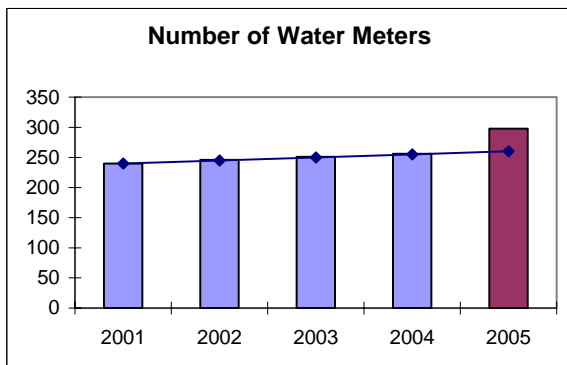
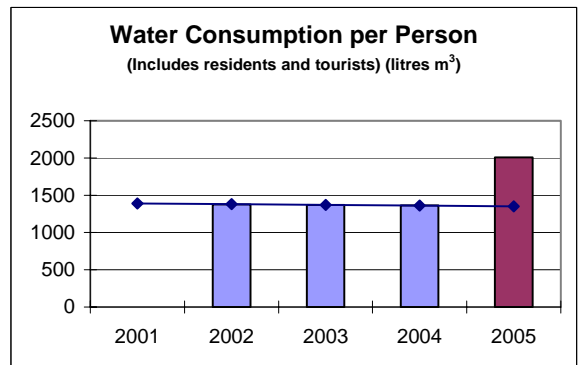
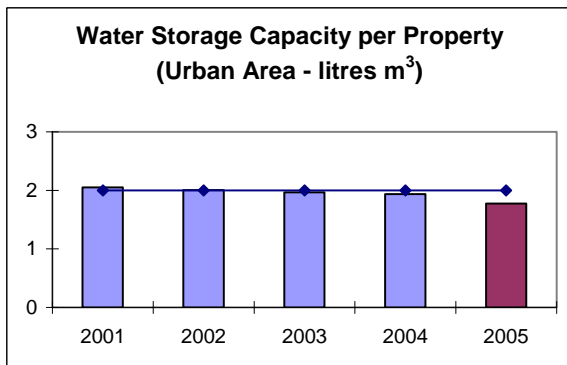


Not asked in surveys prior to 2005

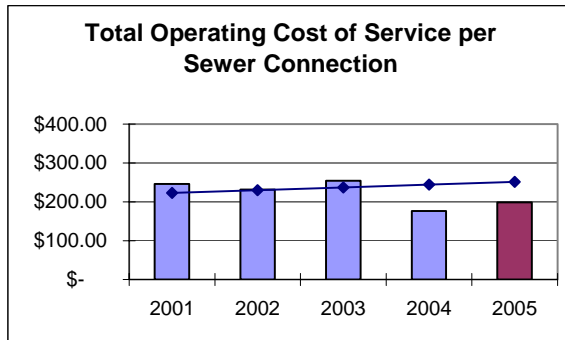


Not recorded in previous years

Whilst "Conserve Water" notices were issued, no actual water restrictions were imposed.



KEY: The line in each graph indicates the Councils desired trend, and for 2005 the Actual Target



Level of Achievement

Council has essentially achieved or exceeded all of the targets set in 2004/2005, with the exception of water consumption per person, which has significantly increased. 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.

An assessment of water and sanitary services as required by the Local Govt Act 2002 is progressing, and should be available by the end of October 2005.

Cost of Service Statement: Water & Wastewater Services

FOR THE YEAR ENDED 30 JUNE 2005

	2005 BUDGET \$	2005 ACTUAL \$	2004 ACTUAL \$
Operating Expenses			
<u>Kaikoura Urban Water Supply</u>			
Operations	246,990	226,286	246,105
Loan Interest	42,890	42,617	40,891
Depreciation	130,781	134,981	111,517
	420,662	403,884	398,513
<u>Rural Water Supplies</u>			
East Coast	52,361	67,815	42,906
Kincaid	40,121	34,957	29,694
Fernleigh	16,591	20,814	10,710
Oaro	21,947	20,528	20,953
Peketa	3,923	4,674	3,777
	134,944	148,788	108,040
<u>Wastewater</u>			
Operations	211,143	227,653	211,635
Loan Interest	25,293	25,362	32,268
Depreciation	123,309	119,184	93,727
	359,745	372,199	337,630
<u>Stormwater</u>			
Operations	42,002	44,835	41,676
Loan Interest	11,050	10,397	11,997
Depreciation	19,195	27,217	17,672
	72,247	82,449	71,345
Total Operating Expenses	987,598	1,007,320	915,528
Funded by:			
Targeted Rates & Charges	821,220	816,845	805,596
Water Meter Charges	120,000	110,929	93,761
User Fees & Charges	32,000	29,987	9,992
Financial Contributions	747,500	701,458	192,703
	1,720,720	1,659,219	1,102,052
Operating Surplus/(Deficit)	733,122	651,899	186,524

	2005 BUDGET	2005 ACTUAL	2004 ACTUAL
	\$	\$	\$
Capital Expenditure			
Kaikoura Urban Water Supply	761,558	328,959	130,471
Rural Water Supplies	105,560	80,664	9,901
Wastewater	702,409	341,229	110,850
Stormwater	13,500	8,275	4,000
Loan Principal	64,135	99,123	99,068
	1,647,162	858,250	354,290
Other Revenue			
Reserves	204,500	(149,845)	(99,885)
Loans	395,000	-	-
	599,500	(149,845)	(99,885)
Balance	(314,540)	(356,196)	(267,651)

Capital Expenditure: Acquisition of Assets

Council has secured a ground water source with exceptional water quality; this is expected to provide sufficient water to meet demands for at least ten years. Some renewal work was also required on major pipes, notably Avoca Street and Athelney Road.

The Fernleigh Rural Water Supply has new reservoirs in place; the contractor will be installing telemetry systems at these reservoirs once access into the remote locations is more secure.

Capital works this year included an upgrade of the oxidation pond, which involved significant earthworks and desludging, then construction of a pump station and pipe work, at a cost of just over \$190,000. This work has been undertaken not only to relieve pressure on the pond, which has been at capacity for some time, but also to provide for growth in the district, which is expected to double over the next ten years.

The remainder of capital expenditure largely relates to consultancy fees, as the urban area is facing many issues relating to the servicing of new subdivisions and the transition to a ground water source.

All of this expenditure has been provided for in Council's 2004-2014 Community Plan. That Plan had also provided for the ground water source and new mainline to be in place and fully operational by June 2005. Due to ongoing negotiations with the landowner, this work was delayed and has been carried forward to 2005/2006. Similarly, further upgrading of the oxidation ponds has been carried forward due to timing constraints.