

9.2.0

*CITY WATER  
& WASTE*



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

***Overall Triple Bottom Line Objectives***

- All of the Unit activities shall conform to the principles of The Natural Step

***Serving the Community By***

- Supplying water and disposing of waste in a manner that will achieve agreed and understood levels of service
- Complying with legislative requirements including those relating to public health
- Being a good employer by implementing best practice in human resources management through matters such as recruitment, remuneration, GVBV, EEO and training
- Inspiring community and business group ownership through partnerships, consultation and education on key issues
- Providing education to increase knowledge of key water and waste issues and to encourage behavioural change
- Maintaining cultural sensitivity recognising the special role of Tangata Whenua

***Sustaining the Environment By***

- Adopting an advocacy role outside our immediate community for survival of the planet
- Ensuring everything we do is based on sustainable best practices including conforming with the Natural Step principles.
- Developing partnerships with Central Government to further the goals of waste minimisation
- Mimicking and restoring natural ecosystems

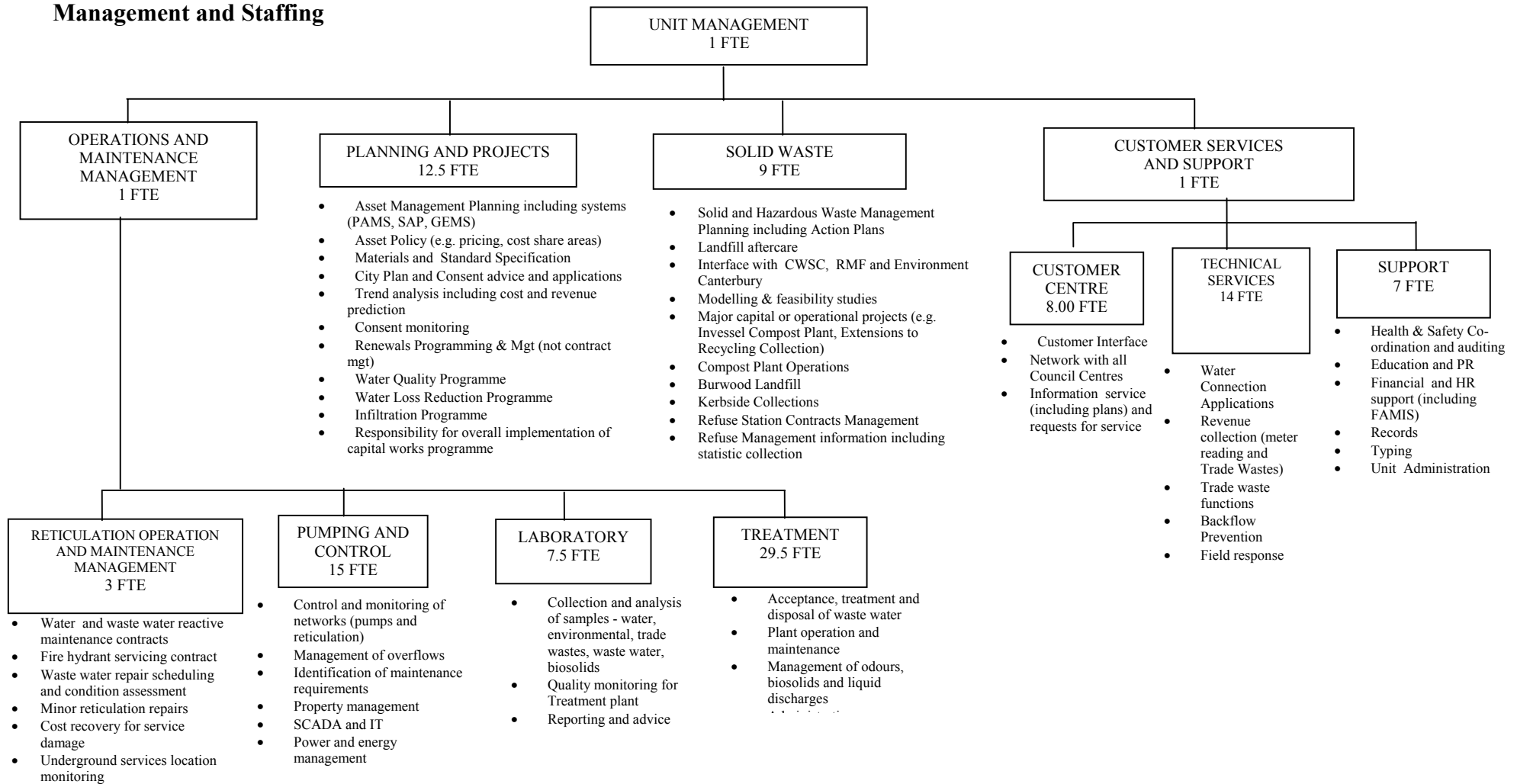
***Providing Economic Value By***

- Managing water and waste activities in accordance with sound accounting and financial practices
- Planning and operating activities on the basis of lowest total life costs
- Conducting regular reviews of our activities to ensure efficiency and cost effectiveness while maintaining levels of service

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### *Resources – Staff and Fixed Assets*

#### **Management and Staffing**



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### **Fixed Assets**

#### **Water**

- 53 primary pumping stations (sites with wells that abstract water) plus 33 secondary pumping stations (many, but not all are located at reservoirs).
- 1,300km water mains
- 2,000km water submains
- 111,606 connections
- 7 principal bulk storage reservoirs plus 29 secondary reservoirs
- Instrumentation and Control System
- Total replacement value \$310M, current depreciated value \$188M at June 2001

#### **Wastewater**

- 84 sewer pumping stations
- 1,562km of sewer mains in public roads
- 1,180km of sewer laterals in public roads (117,036 connections)
- 22,105 manholes
- 1,600 flushtanks
- 2 treatment plants
- reticulation assets with replacement value of \$582M, current depreciated value of \$291M at June 2000

#### **Solid Waste**

- 3 refuse stations
- 1 compost manufacturing plant and collection centres located at the refuse stations
- 3 recycling centres located at the refuse stations
- 1 landfill

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## **BUDGET STRUCTURE**

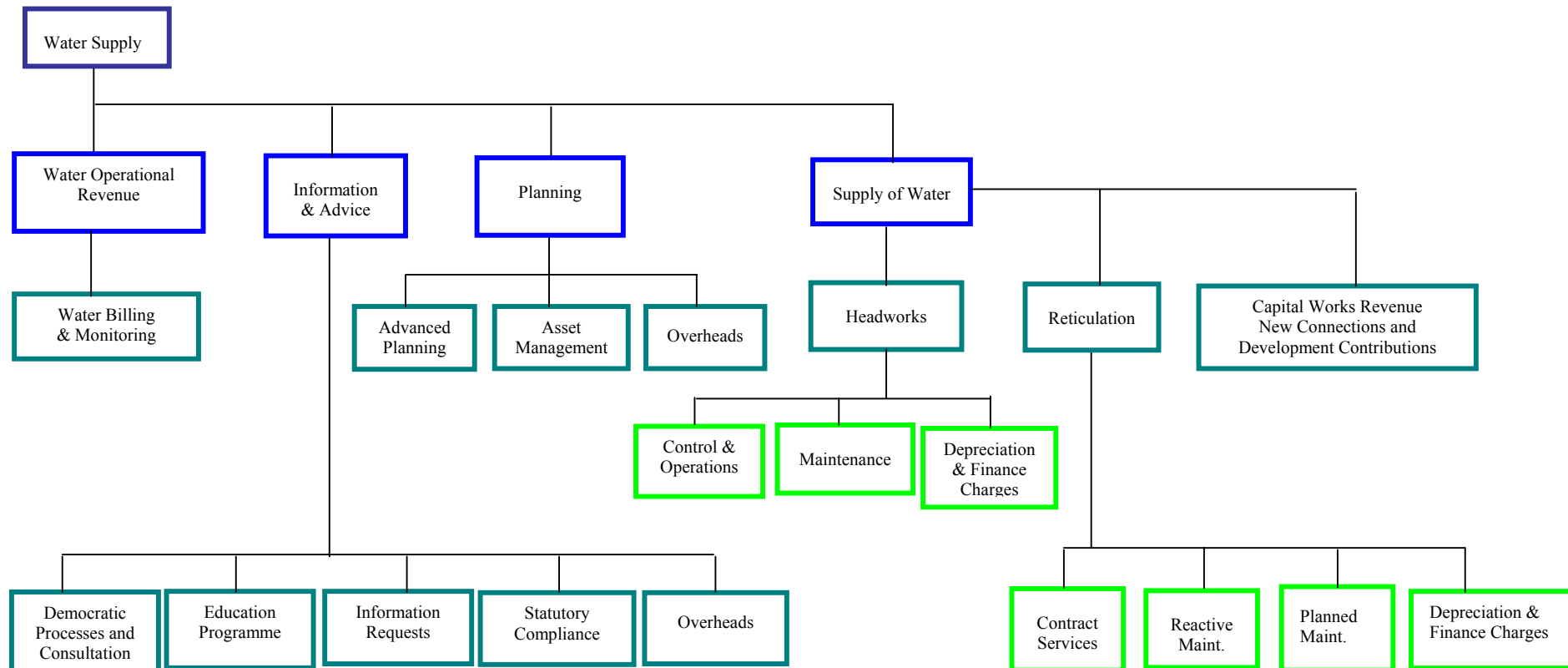
The 2001/02 budget was the first assembled after the wastewater, water supply and solid waste activities were combined into the new City Water and Waste Unit. It was prepared as the new management structure was still being implemented. Time constraints necessitated only a limited amount of consideration in respect to budget presentation and structure.

This 2002/03 budget has been prepared with the benefit of twelve months experience with the new arrangements and a number of structural changes have been implemented to improve the grouping of outputs and provide improved clarity in the presentation of the information. For comparison purposes the 2001/02 budget has been "re-shaped" into the new format, and as a result exact comparisons are not always possible in many areas.

The grouping of output classes and outputs for the Annual Plan are shown diagrammatically on the following pages.

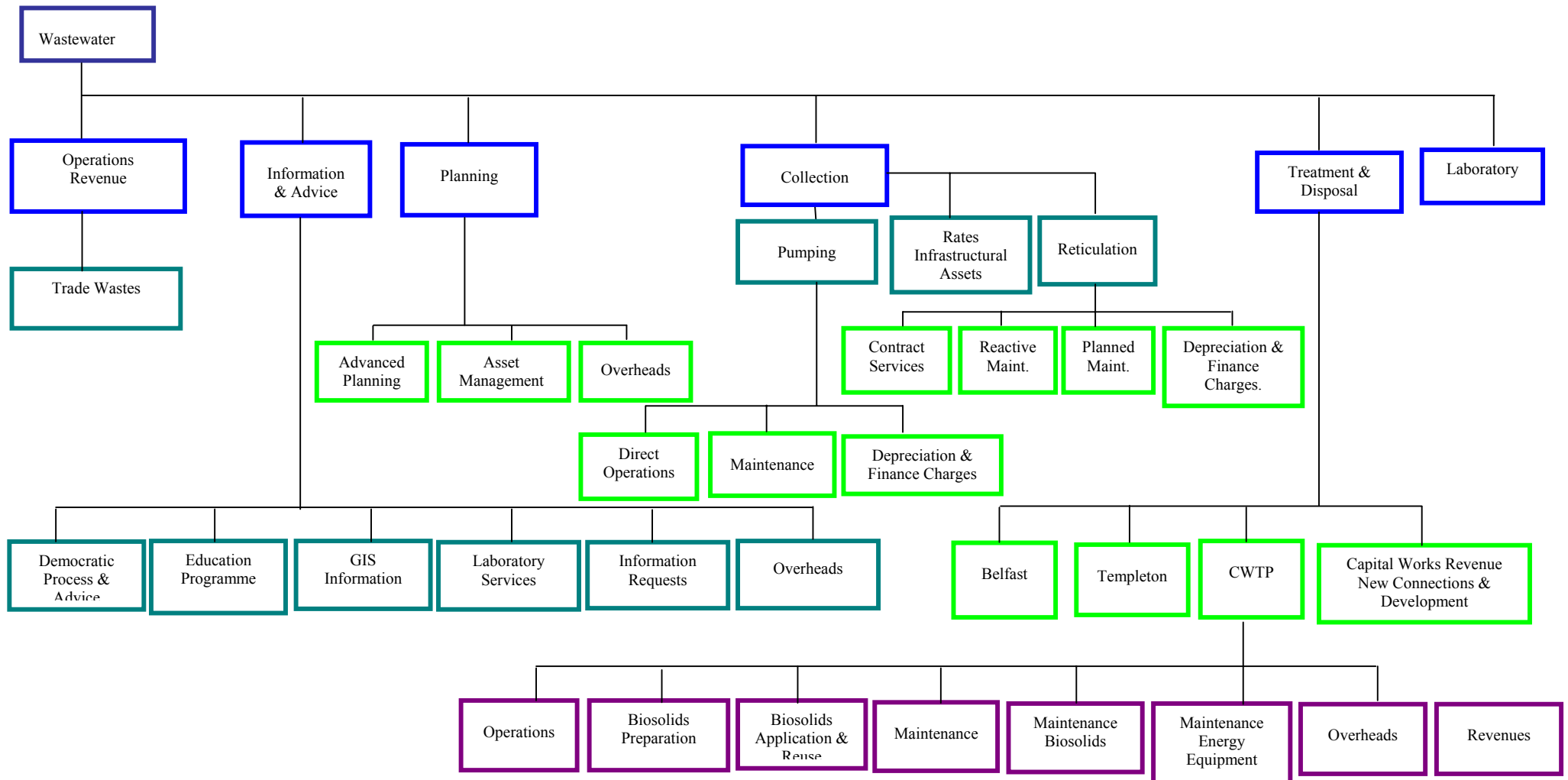
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## BUDGET STRUCTURE – WATER SUPPLY



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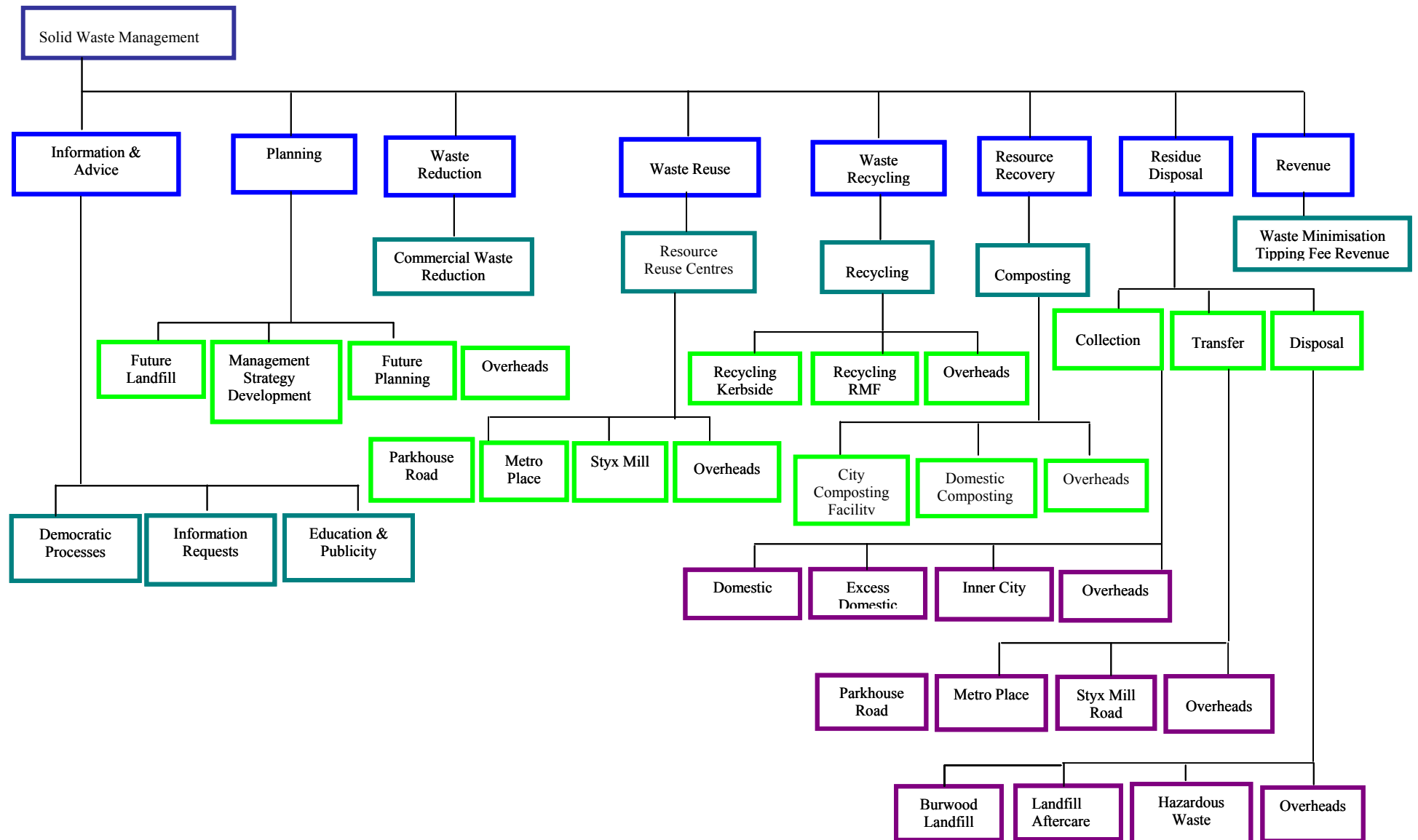
## BUDGET STRUCTURE – WASTEWATER





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## BUDGET STRUCTURE – SOLID WASTE



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***Budget Summary***

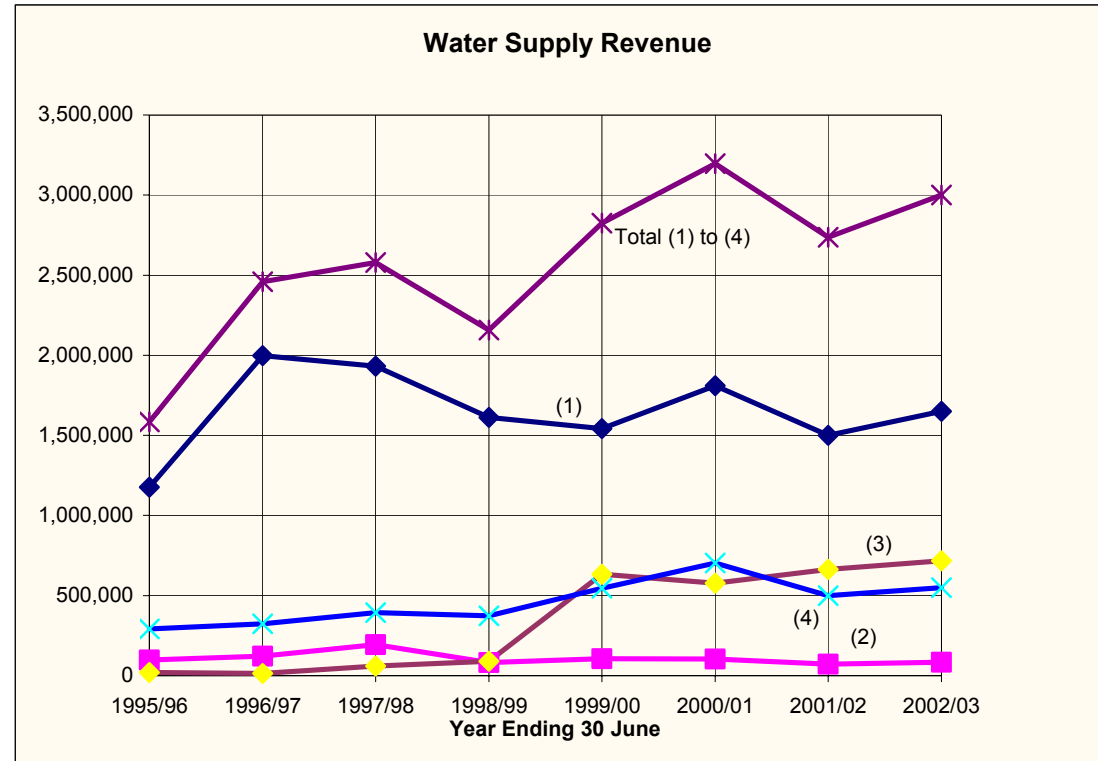
▪ Water Supply operational	gross cost \$13.9M	revenue \$3.0M	net cost (on rates) \$10.9M
▪ Water Supply capital	cost \$5.9M		
▪ Wastewater operational	gross cost \$19.0M	revenue \$3.1M	net cost (on rates) \$15.9M
▪ Wastewater capital	cost \$15.6M		
▪ Solid Waste operational	gross cost \$22.1M	revenue \$20.1M	net cost (on rates) \$2.0M
▪ Solid Waste capital	cost \$3.4M		

***Future Projections***

The Unit budget is based on future projections for costs and revenues. These in turn are based on best estimates of various key trends which are outlined below. If for some unforeseen reason (eg, an economic recession or upturn) trends vary from best estimates then the Unit end of year financial result will differ from budget either up or down.

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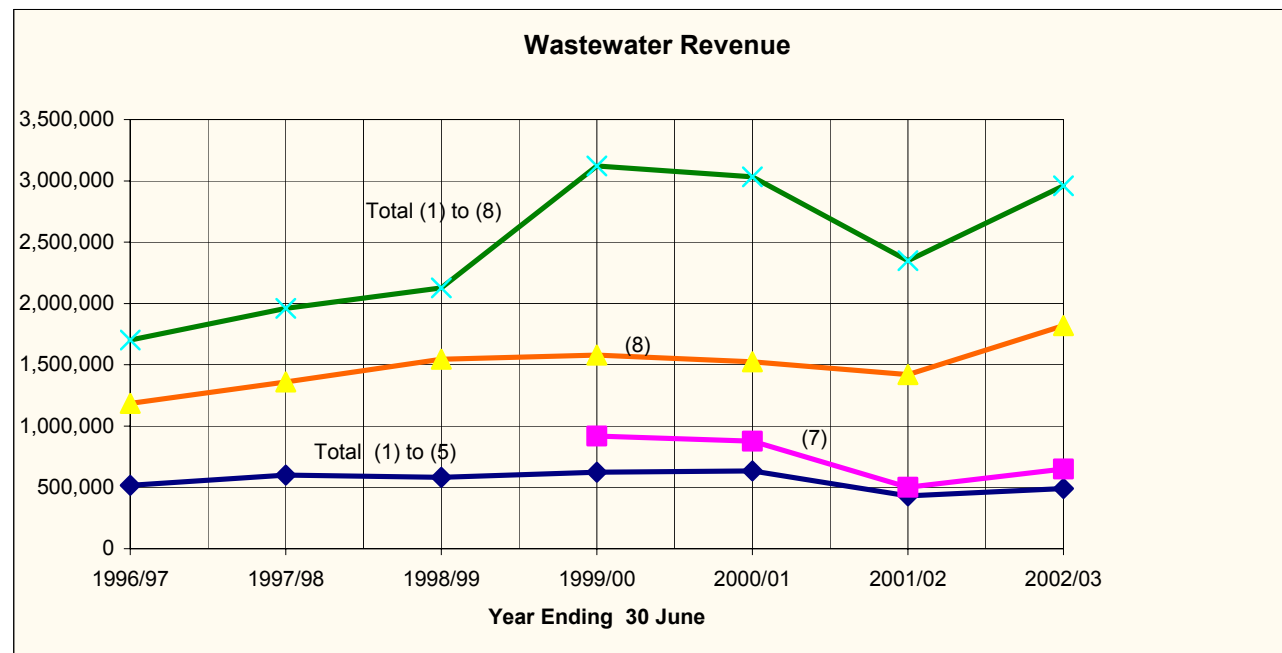
### Water Supply Revenue



Year to 30 June		Water Billing Revenues (1)	Reticulation Contract Services. Landsdowne, etc (2)	Capital Works Revenues (3)	Headworks Upgrade Contributions (4)	Total Revenues (1) to (4)
<b>1995/96</b>	Actual	1,177,024	97,088	20,340	290,669	1,585,121
<b>1996/97</b>	Actual	1,998,709	122,796	13,124	324,247	2,458,876
<b>1997/98</b>	Actual	1,932,242	194,443	59,954	392,819	2,579,458
<b>1998/99</b>	Actual	1,612,347	82,153	90,279	373,527	2,158,306
<b>1999/00</b>	Actual	1,541,961	105,215	632,422	545,526	2,825,124
<b>2000/01</b>	Actual	1,810,000	104,816	578,279	702,572	3,195,667
<b>2001/02</b>	Budgeted	1,500,000	72,000	664,000	500,000	2,736,000
<b>2002/03</b>	Projected	1,650,000	83,000	718,000	550,000	3,001,000

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### Wastewater Revenue

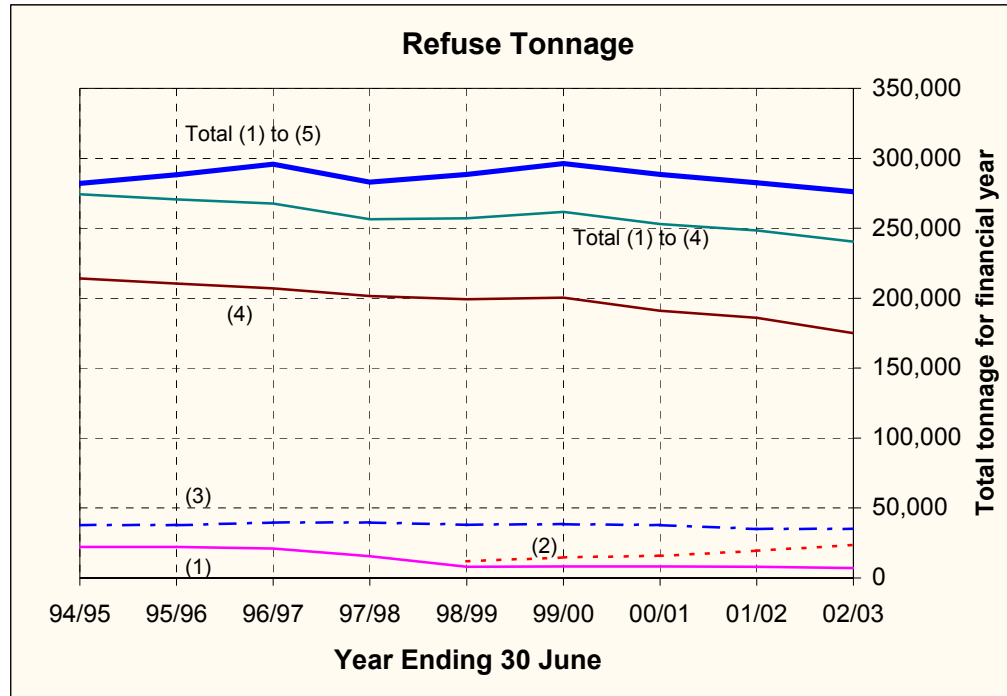


Year to 30 June		Energy Sales (1)	Tanker Waste & Airport (2)	Cross Boundary Recoveries (3)	Reticulation Recoveries (4)	Misc.- Laboratory, Scrap, Plans, etc (5)	Total (1) to (5)	CWTP Capacity Upgrade Revenue (7)	Trade Waste Revenue (8)	Total External Revenue (1) to (8)
1996/97	Actual	0	216,000	0	222,000	78,000	516,000	0	1,186,000	1,702,000
1997/98	Actual	205,000	252,000	2,000	54,000	86,000	599,000	0	1,361,000	1,960,000
1998/99	Actual	168,000	237,000	64,000	43,000	69,000	581,000	0	1,546,000	2,127,000
1999/00	Actual	240,000	213,000	98,000	49,000	25,000	625,000	919,000	1,578,000	3,122,000
2000/01	Actual	207,000	172,000	95,000	121,000	38,000	633,000	877,000	1,523,000	3,033,000
2001/02	Budgeted	50,000	180,000	96,000	37,000	66,300	429,300	500,000	1,420,000	2,349,300
2002/03	Predicted	132,000	205,000	96,000	37,000	20,600	490,600	650,000	1,820,000	2,960,600

**Notes:** (1) Reticulation Recoveries = Sewer Lateral Recoveries, Cost Sharing Contributions, Storm Water Inflow recoveries.

(2) Cross Boundary Recoveries = Prebbleton, Tai Tapu, Lincoln/Springston.

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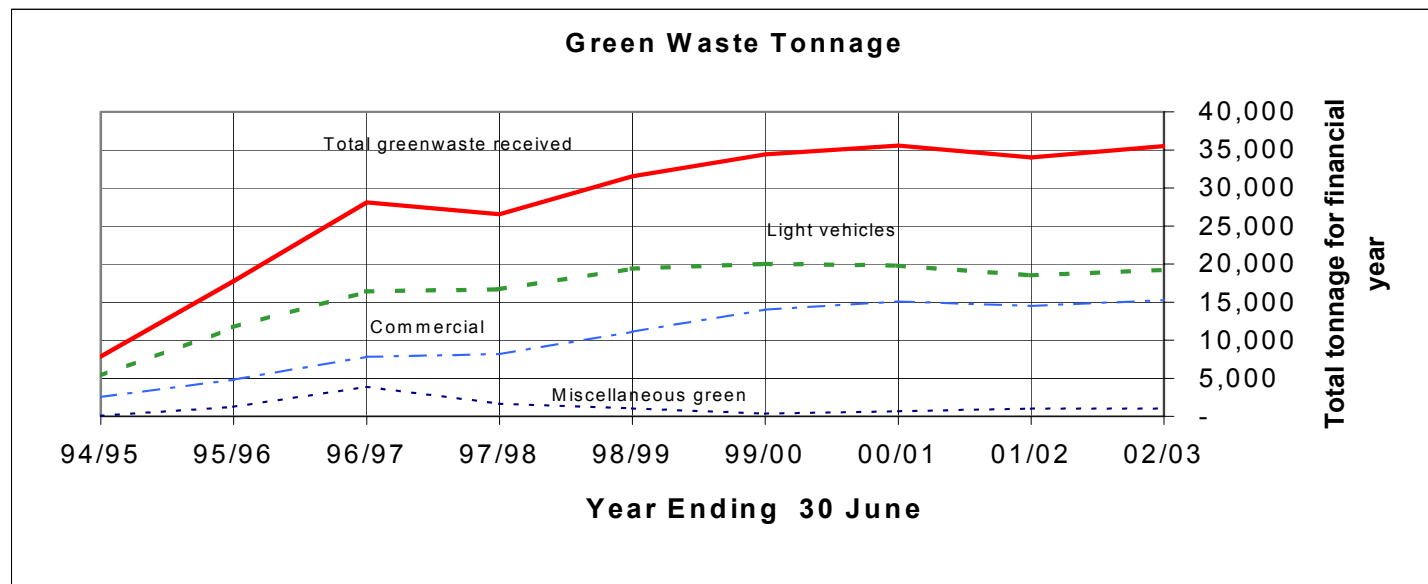
**Solid Waste***Refuse Tonnage*

Total		Hardfill to landfill (1)	Other Councils (2)	Black Bag Collection (3)	General Refuse including light vehicles (4)	Total Refuse and hardfill (1) to (4)	Total Green (5)	Total (incl green) (1) to (5)
1994/95	Actual	22,303		37,856	214,081	274,240	7,867	282,107
1995/96	Actual	22,242		37,849	210,464	270,555	17,745	288,301
1996/97	Actual	21,111		39,588	207,051	267,751	28,092	295,842
1997/98	Actual	15,447		39,525	201,561	256,533	26,524	283,057
1998/99	Actual	8,085	11,814	37,869	199,274	257,042	31,535	288,576
1999/00	Actual	8,283	14,537	38,547	200,475	261,752	34,393	296,145
2000/01	Actual	8,345	15,877	37,817	190,955	252,994	35,575	288,569
2001/02	Budgeted	8,000	19,500	35,000	186,000	248,500	34,000	282,500
2002/03	Predicted	7,000	23,500	35,000	175,000	240,500	35,500	276,000

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## Solid Waste

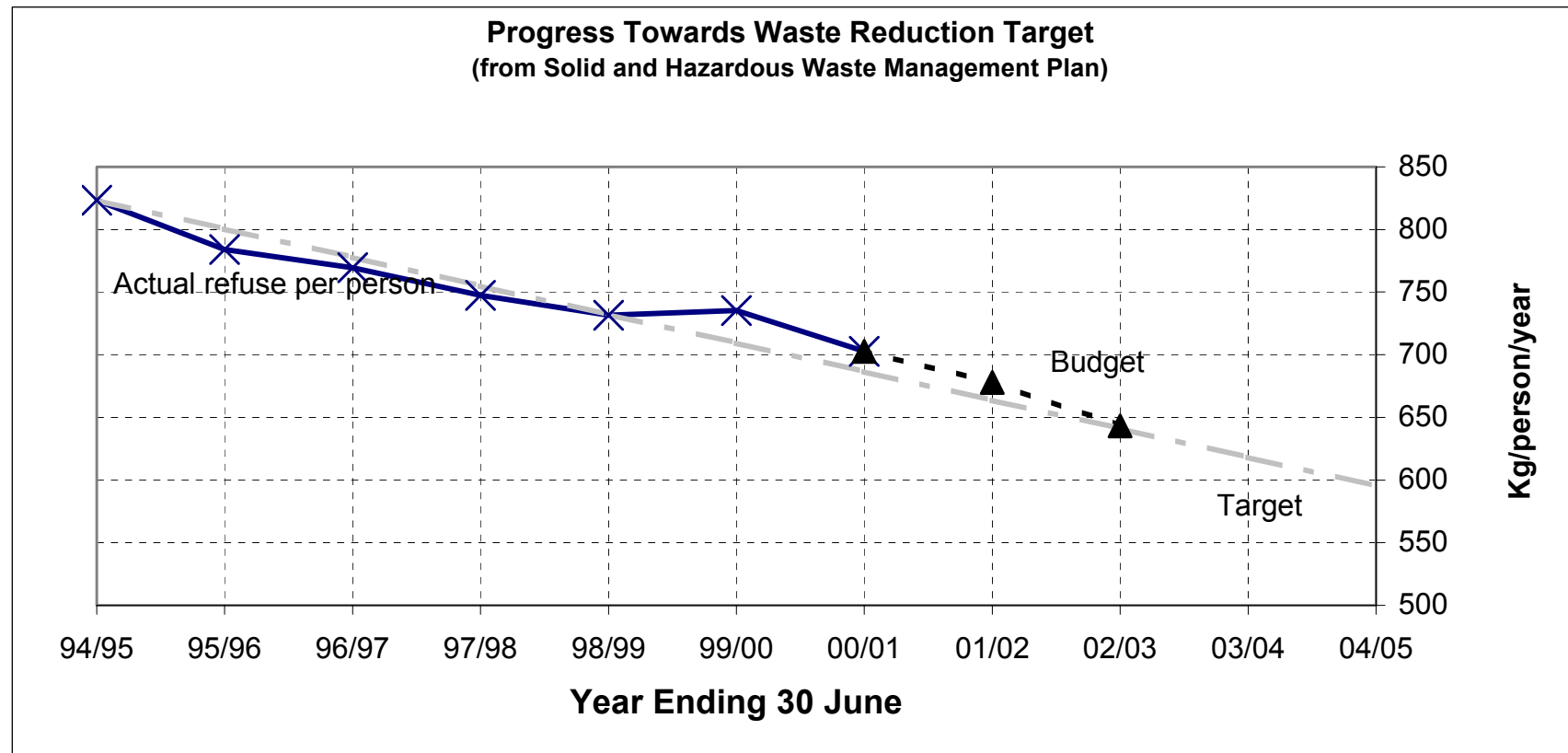
### Green Waste



Total		Miscellaneous Green	Commercial Green	Light Vehicles Green	Total Green
1994/95	Actual	63	2,513	5,291	7,867
1995/96	Actual	1,247	4,804	11,694	17,745
1996/97	Actual	3,860	7,820	16,412	28,092
1997/98	Actual	1,672	8,173	16,679	26,524
1998/99	Actual	1,025	11,099	19,411	31,535
1999/00	Actual	363	14,003	20,027	34,393
2000/01	Actual	670	15,103	19,807	35,575
2001/02	Budgeted	1,000	14,500	18,500	34,000
2002/03	Predicted	500	15,500	19,500	35,500

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### *Reduction Goals*



This graph is based on the refuse quantities in the preceding tables and on population figures from Statistics New Zealand Christchurch Quarterly Review.

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## **Solid Waste**

A brief comment on each of the solid waste streams and the proposed changes for these streams follows:

### ***Proposed Charges (including GST)***

#### ***Light Vehicles***

This stream terminates in 2000/01 because of the introduction of trailer weighing. This waste stream is now included in general refuse.

Refuse:	see commercial
Hardfill:	see commercial

#### ***General Refuse***

This stream increases suddenly in 2000/01 due to the inclusion of the light vehicle waste streams. A subsequent decrease is expected because of pricing incentives to separate refuse.

Refuse:	87.50/t
Hardfill:	35.80/t

#### ***Black Bag Collection***

Little change is anticipated after the decline in 2001/02 caused by additional kerbside recycling of paper.

Refuse:	87.50/t
(funded by rates)	

#### ***Other Councils***

Increases are expected due to the inclusion of refuse from Selwyn, Banks Peninsula, Ashburton District and possibly Hurunui. This is offset somewhat by kerbside recycling that is now operating in the Waimakariri District.

Refuse:	33.90/t
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#### ***Hardfill to Landfill***

Increased 'construction and demolition' waste sorting is expected due to rising waste fees which will reduce hardfill to landfill

Mixed:	35.80/t
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#### ***Green Waste***

The amount of green waste received is expected to marginally increase because of continued price incentives. However growth may continue to be suppressed somewhat due to the rejection of spray residue contaminated material.

#### ***Treated Hazardous Waste***

Tonnages are included in the General Refuse

110.00/t



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**KEY CHANGES OPERATIONAL**

The summary table below schedules the main items contributing to the difference between the 2001/02 and 2002/03 operating budget.

It is to be appreciated that with each of the Water Supply, Wastewater and Solid Waste budgets being very large in their own right it is impractical to itemise each and every change. For these reasons there are a large number of minor saving and committed cost increases that balance each other out that are not reported here. For example, saving in water supply operating practices to reduce energy costs are not shown here having been utilised to absorb greater than projected energy rises for this period which would otherwise need to be included in these key changes.

**Table of Committed Cost Differences between 2001/02 and 2002/03 Operational Budget (\$1000)**

<b>Net Operating Plan City Water &amp; Waste 2001/02</b>	<b>29,766</b>	<b>Note : ( ) = Saving or External Revenue Increase</b>
<b>Key Controllable Changes in 2002/03 Operating Plan</b>		
Total People and Vehicle Hire Cost Increases	479	as scheduled below
Water Supply Net Costs Savings/Revenue Increase	(229)	as scheduled below
Wastewater Net Cost Increases/Revenue Increase	(11)	as scheduled below
Solid Waste Net Cost Savings/Revenue Increase	(2,072)	as scheduled below
<b>Net Controllable Cost Savings/Revenue Increases</b>	<b>(1,833)</b>	
<b>Key Non-Controllable Changes in 2002/03 Operating Plan</b>		
Internal CCC Costs	398	Disposal and Landfill Fees, MIS, Geodata Services, Customer Services network costs
Corporate Overhead Allocation	148	Restructured allocation
CCC Rental Space	(208)	Reduction at Christchurch Wastewater Treatment Plant due to restructuring
CCC Debt Servicing Costs	85	Updated 2002/03 figures
Depreciation	492	
Internal Revenue	(334)	Waste Minimisation Fee, Council Black Bag Collection, Transfer Stations
People time allocation Operating vs Capital	123	Estimated increase in Operational activity vs Capital activity
<b>Net Non-Controllable Cost Increases/Revenue Increases</b>	<b>704</b>	
<b>Net Operating Plan City Water &amp; Waste 2002/03</b>	<b>28,637</b>	

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<b>Key Controllable Changes in 2002/03 Operating Plan</b>		
<b>People Related Costs</b>		
People Costs Increases	428	The 2001/02 people budget (mainly salary & wage costs) was compiled prior to the Water & Waste units being merged. The main assumption was for a lean amalgamation to be achieved which in hindsight was somewhat optimistic. Job sizing after the merger cost an additional 50. Shift wages were under estimated by approximately 80 in the 2001/02 budget. An increase in 1.3 FTE(2002/03 versus 2001/02) accounts for approximately 75. Remainder due to incorrect 2001/02 budget based on compilation prior to actual merger.
Vehicle Hire	44	Increase in vehicle rates.
Other Miscellaneous	7	
<b>Total Cost Centre Increases</b>	<b>479</b>	
<b>Water Supply Direct Expenses</b>		
Water Sales External Revenue Increase	(82)	60 decrease in overall External Revenue predicted last year in LTOP
Reticulation External Revenue Increase – Landsdowne Scheme	(6)	" " " " " " ' " " " "
Capital Works External Revenue Increase	(104)	" " " " " " ' " " " "
Regional Water Study	(15)	No funds required.
Asset Management Professional Fees	102	Merit review (\$50) + Public Health Risk Management (\$52)
Headworks – Controls & Operations	5	Minor adjustment
Water Loss Reduction Programme	(10)	Minor adjustment
Water Billing & Monitoring	(50)	Meter reading frequency reduction
Headworks - Maintenance	25	Minor adjustment
Headworks - Insurance	(23)	Reduction in LAPP levy
Reactive & Planned Maintenance	(207)	Fewer leak repairs required
Water Infrastructure Rates	61	Could/should be regarded as 'non-controllable' as enforced
Secure Groundwater	75	Confirmation as required by New Zealand Drinking Water Standards
<b>Net Costs Savings/Revenue Increase Water Supply</b>	<b>(229)</b>	

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<b>Wastewater Direct Expenses</b>		
Trade Waste External Revenue Increase	(400)	Increased Trade Waste volumes and charges
Education Programme	10	Minor adjustment
Advanced Planning Professional Fees	30	Shift of external professional resources from capital to operating
Asset Management Professional Fees	46	Increased requirements as a result of the Meritec review
Stormwater Infiltration Survey	(100)	Survey completed
Pumping - Electricity	50	Based on indicated price increase
Pumping - Maintenance/Other	9	Minor adjustment
Reticulation - Maintenance	54	Sewer lateral repairs increasing
Reticulation - Insurance	(36)	Reduction in LAPP levy
Wastewater Infrastructure Rates	100	Could/should be regarded as 'non-controllable' as enforced
Belfast Operations	25	Maintenance & consent monitoring
Templeton Decommissioning	13	Minor adjustment
<b>ChCh Treatment Plant Operations</b>		
Polymer Sludge	140	Unanticipated extra polymer required
Midge Control	30	Under budgeted in error in 2001/02
Disposal of Screenings & Grit	(16)	Minor adjustment
Sea Lettuce Trials	20	2002/03 trial in conjunction with Parks Unit
Imported Power	9	Based on indicated price increase
Diesel & Lube	20	More power generation, increased usage
Maintenance - Influent Structure & Screens	17	Additional equipment from upgrade
Maintenance - Clarifiers	22	Maintenance of equipment
Computer Leasing	(35)	Cost transferred to Cost Centre
Biosolids Preparation - Polymer Purchase (De-watering)	58	Under budgeted in error in 2001/02
Biosolids Preparation - Hire of Equipment	20	Hire of larger loader for biosolids loudout
Biosolids Reuse - Transport Plant Hire	70	Additional costs of forest application commencing
Biosolids Reuse - Transport & Application Labour	50	" " " " "
Biosolids Reuse - Forest Maintenance	20	" " " " "
Energy & Tanker Waste External Revenue	(103)	Increased peak power exported, increase tankered waste charges
CWTP Upgrade Connection External Revenue	(150)	Increased subdivision/development activity
Other Miscellaneous	16	
<b>Net Cost Increases/Revenue Increase Wastewater</b>	<b>11</b>	

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<b>Solid Waste Direct Expenses</b>		
Advanced Planning, Future Landfill, Community Participation Fund	(66)	Removed entirely from the 2002/03 budget
Commercial Waste Reduction	(39)	Redesigning conference only every 2 years
Reuse Management by Recovered Materials Foundation	(10)	Minor adjustment
Kerbside Recycling Collection Contract	182	1st full year of revised ONYX contract plus CPI and tonnage growth
RMF Funding	(300)	First of four progressive reductions per negotiated contract
RMF Business Development Fee	16	Tonnage based
City Composting Facility - City Care costs	172	Leasehold equipment replacement at higher cost, plus predicted tonnage increase
External Compost Sales & Tipping Fees	(330)	Increase in tipping charges
Community Garden Project	(50)	Budget transferred corporately in 2001/02 already
Domestic Composting Public Relations	(5)	Minor adjustment
Domestic Collection	37	Bag purchase increase
Bag Sales	(45)	Increase in bag charge
Hazardous Waste Charge	(120)	New charge to commercial operators (\$20/tonne)
Bag Collection - Inner City Costs	(7)	Minor adjustment
Bag Collection - Inner City Sales	(20)	Increase in bag charge
Parkhouse Transfer Station - Maintenance	47	Deferred maintenance
Parkhouse Transfer Station - External Revenue	86	Lower tonnage of waste
Metro Transfer Station - Maintenance	34	Deferred maintenance
Metro Transfer Station - External Revenue	45	Lower tonnage of waste
Styx Mill Transfer Station - Maintenance	7	Deferred maintenance
Styx Mill Transfer Station - External Revenue	72	Lower tonnage of waste
Waste Fee Increase	(1,747)	Increase in revenue
Other Miscellaneous	(31)	
<b>Net Cost Savings/Revenue Increase Solid Waste</b>	<b>(2,072)</b>	

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***Committed Costs (Operating) Approved by Council Subsequent to the Council Meeting of 12 July 2001***

- Nil

***Increased Costs due to Increased Demand***

**Water Supply**

- Nil

**Wastewater**

- Nil

**Solid Waste**

- Kerbside recycling collection, City growth and increasing popularity of service 83,500

***New Operating Initiatives and Matching Operating Substitutions or Efficiency Gains***

**Water Supply**

<b>New Operating Initiative</b>		<b>Matching Substitution</b>	
Confirm that Groundwater is secure as defined by New Zealand Drinking Water Standards.	75,000	Saving in Reticulation Reactive Maintenance due to reducing numbers of repairs and efficiency gains <b>(already reflected in 2002/03 budget)</b>	157,000
Professional assistance with preparing Public Health Risk Management Plans for Water Quality as required by the amended Ministry of Health regulations.	52,000		
Reduced effort with Water Loss Reduction resulting in delayed achievement of KPI target of 150 litres/connection/day.	-10,000		

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**Wastewater**

- Nil

**Solid Waste**

- Nil

***Fee Changes*****Water Supply**

- To date full cost recovery for the installation of new water connections has not occurred. The proposed increase in the new connection fee from 345 to 370 including GST should achieve this.

**Wastewater**

- Nil

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### Solid Waste

The increases in refuse charges shown in the table below were approved by the Council during the 2001/02 Annual Plan process. They are still relevant; accordingly the charges shown in the 2002/03 column have been included in the 2002/03 draft budget.

Waste Type	2000/01	2001/02	2002/03	2003/04
<b>1. Refuse</b>		<i>(Current)</i>		
Basic Charge	52.44	65.10	<b>77.75 (4)</b>	90.40
(a) <i>Refuse Stations</i>				
• Private 100% basic	52.44	65.10	<b>77.75</b>	90.40
• Commercial 100% basic	52.44	65.10	<b>77.75</b>	90.40
(b) <i>Landfill</i>				
• Private 100% basic	52.44	65.10	<b>77.75</b>	90.40
• Commercial 100% basic				
• Regional TLA's (Waimakariri, Ashburton, Banks Peninsula, Hurunui, Selwyn). See note (1)	30.13	30.13	<b>30.13</b>	-
<b>2. Hardfill &amp; Rubble – See note (2)</b>	31.82	31.82	<b>31.82</b>	31.82
<b>3. Green Waste</b>				
(a) <i>Into Compost Plant</i>		<i>approx</i>	<i>approx</i>	<i>approx</i>
• Private trailers 60% of basic refuse rate. See note (3)	6.22	6.22*	<b>7.56*</b>	8.89*
	<i>(fixed charge)</i>			
• Commercial 60% of basic refuse rate	16.89	39.06	<b>46.65</b>	54.24
<b>Notes:</b> (1) This is the rate the Christchurch City Council charges these TLA's to dump their refuse direct to Burwood Landfill and it covers the actual costs plus waste minimisation fees. (2) Hardfill and rubble charges will not be increased because these materials are forwarded on from our refuse stations to local Christchurch 'cleanfill' pits and are not at all likely to be sent to the joint venture regional landfill. (3) The *figures are 7.00, 8.50, 10.00 inclusive of GST. These figures are for an average green waste load of around 160kg. Actual cost varies as green waste is charged by weight. (4) The increase shown to \$77.75 will mean that the sale cost of additional black bags will rise from 90cents to \$1.00 per bag. Refer later for proposal to move to a "waster pays" approach for refuse bags.				

*It is proposed an additional increase of \$20/t (excl GST) be added to the tipping fee for special and treated hazardous waste to cover the additional costs the Council incurs in dealing with this material. It will also provide an appropriate incentive/disincentive to generators of this type of waste. The total (GST included) fee will be \$110/t.*

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The following notes explain the recent history of Christchurch waste fees, the situation that will arise with respect to fees when a new regional landfill is opened, and considers options to cope with this anticipated situation.

## **1. BACKGROUND**

### **(a) *New Regional Landfill Joint Venture and the Landfill Site***

Councillors will recall that our Council is part of a joint venture to establish a new regional landfill to replace various Canterbury landfills that are rapidly reaching their capacity. This Council is one of the six Councils that together make up the Canterbury Waste Subcommittee (CWSC). The CWSC is in partnership with two commercial waste companies (Waste Management Ltd and Envirowaste Services Ltd) who have formed a new company Canterbury Waste Services (CWS). The Canterbury Council's (ie CWSC) and Commercial Companies (ie CWS) each own 50% of the shares of the joint venture landfill company Transwaste Canterbury Ltd (TCL). TCL has contracted CWS to purchase a landfill site, consent, construct and operate it on behalf of the shareholders who will all dispose of their (controlled volume) refuse in this new regional landfill. It is now common knowledge that CWS has purchased a site east of Waipara adjacent to the coast (called Kate Valley). This is a very good site environmentally, as it has excellent geology (impervious underlying soils/rock all clear of earthquake fault lines), is downstream of local water supplies and is generally hidden from all view to the public.

Currently CWS is in the process of finalising a financial model for Kate Valley Landfill. This involves a rigorous process of establishing all input operational and capital costs for the new landfill. From these costs (including a fair and proper rate of return on shareholder's capital as agreed in the Company Memorandum of Understanding), a refuse station 'gate price' is established, ie \$/tonne paid at the refuse station gate for mixed waste (ie waste in Council collected black bags and commercially collected waste).

Following in depth analysis, CWS is of the considered opinion that the highest commercially viable gate price is around \$95/tonne inclusive of GST, ie around \$89/tonne excluding GST. If the gate price exceeds this figure, studies show that it could well be more economic for commercial collectors to ship their waste to another out of region landfill, for example to Dunedin instead of to Kate Valley. Note here that it could be argued that TCL could also do exactly that if it cannot contain costs to below \$95/tonne (including GST), ie ship waste elsewhere. However it is considered such a strategy is not really a viable option as the large volume of waste that TCL will handle per year (ie 215,000 tonnes at start-up) would quickly swamp any of the smaller out of region existing landfills. Also any new (out of region) landfill would have the same or higher gate prices as Kate Valley due to longer haul distances and identical high environmental construction and operating requirements.

### **(b) *Waste Minimisation Activities:***

This Council's Solid and Hazardous Waste Management Plan incorporates several waste minimisation targets including a global waste reduction target of 65% minimum and 100% maximum by 2020. Currently the Council engages in five principal waste minimisation activities to assist in reaching this target, namely commercial waste reduction (Target Zero) programmes, kerbside recycling, Recovered Materials Foundation partnering, Refuse Station recycling centres/supershed, and compost manufacture. To assist in funding these activities the Council previously agreed to phase in a waste minimisation levy starting in 1997/98 at \$3/tonne and progressively ramping to \$17/tonne over five years. This fee reached \$14/t in 2000/01 and was to top out at \$17/tonne in 2001/02. The fee has been somewhat overtaken by events in terms of the general increases in refuse fees agreed to by this Council in its 2001/02 Annual Plan, all in anticipation of the opening of Kate Valley Landfill, (ie general refuse increasing from \$52/tonne to \$90/tonne from 2000/01 to 2004/05 in three equal steps). Also it should be noted here that the fee of \$17/tonne was never going to be sufficient to cover the full cost of existing waste minimisation activities which currently cost around \$24.70/tonne (see Table 1 below). The make-up between \$17 and \$24.70 is funded from the remainder of the general refuse fee. This is an important point, as there has been a generally held misconception that the waste minimisation fee (especially at its fully developed level of \$15 + \$2 ie \$17/tonne) would be sufficient to fund all waste minimisation activities.



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## 2. WASTE MINIMISATION COSTS

Current waste minimisation activities and their costs are summarised in table 1 below for next year and then three years later when the new regional landfill opens, (ie for years 2001/02 and 2004/05). Note that activity costs are expressed as cost of the activity per tonne of total Christchurch City Council refuse disposed into landfill (excludes other regional TLA partners in the Kate Valley Landfill).

**Table 1:**

	<b>2001/02 total budgeted costs</b>	<b>2001/02 cost per tonne (229,000t)</b>	<b>2004/05 estimated total costs</b>	<b>2004/05 costs per tonne (203,867t)</b>
	<b>\$</b>	<b>\$/t</b>	<b>\$</b>	<b>\$/t</b>
Kerbside recycling collection	2,569,000	11.22	2,831,000	13.89
Recovered Materials Foundation	1,164,000	5.08	264,000	1.29
Business Development Fund	497,000	2.17	407,700	2.00
Commercial Waste Minimisation	557,000	2.43	557,000	2.73
Recycling Centres	169,000	0.74	169,000	0.83
Compost Plant	607,000	2.65	457,000	2.24
Planning	94,000	0.41	94,000	0.46
New Initiatives	0	0	0	0
<b>Total</b>	<b>5,657,000</b>	<b>24.70</b>	<b>4,779,700</b>	<b>23.44</b>

Principal factors that change the costs from 2001/02 to 2004/05 are as follows:

- for the RMF a reduction in funding from the Council of \$300,000/year over years 2002/03, 2003/04, 2004/05 (ie \$0.900m total) as RMF enhances its revenue from sale of recyclables.
- for compost an increase in costs for 15,000 tonnes of compost processed in the start-up in-vessel plant of approximately \$25/t less additional revenue of \$550,000 from increased tipping fee.
- for the other items a reduction in projected waste tonnage from 229,000t to 203,867t.

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### 3. REFUSE STATION FEE

The Council's 2001/02 forward budget (Annual Plan) makes an allowance for an increase in refuse fees plus funding for waste minimisation activities. However insufficient allowance has been made for both the new regional landfill gate fee and an amount to fully fund current waste minimisation activities. This has arisen because:

- it is now known that the Kate Valley Landfill site will be more expensive to construct than was anticipated earlier in 2001 when our 2001/02 budget was put together.
- current waste minimisation activities cost more than the revenue from the waste minimisation fee.

The current "realistic" costs for processing refuse through the refuse stations, transportation and landfilling at the new regional landfill site are shown in Table 2. Note that an allowance is also included for a Waste Minimisation Levy and continuation of the \$2.00 Business Development Fee.

**Table 2: Expected Activity Costs when Regional Landfill Opens (2004/05)**

Activity	\$/tonne
▪ Refuse Station costs	12.50
▪ Transport costs	18.75
▪ Landfill costs	44.80
▪ Waste Minimisation Levy	6.00
▪ Business Development Fee	2.00
Subtotal	84.05
GST	10.51
<b>Total fee</b>	<b>94.56</b>

This fee structure has been used for the draft 2002/03 forward operating budget. The \$8.00 per tonne (Waste Minimisation Levy plus Business Development Fee) will not generate sufficient funds to cover the cost of the waste minimisation activities, see Table 1.

Cost of Waste minimisation activities (see Table 1)	= \$4,779,700
Less Revenue from Waste Minimisation Levy and Business Development Fund (\$8 x 203,867)	= \$1,630,936
Shortfall	= \$3,148,764

The clear conclusion from this is that some of the following actions must be implemented.

- Kate Valley costs (ie some or all of the Refuse Station, transport and Landfill costs) must reduce.
- Some waste minimisation activities cease or reduce.
- Waste minimisation activities must be partially funded by a source other than a gate fee (e.g. Rates - see section 7 below).

All of these cost reducing options are examined below.

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#### **4. OPTIONS TO REDUCE KATE VALLEY AND ASSOCIATED COSTS**

##### **(a) *Close a Refuse Station***

*Comment:* The three existing Refuse Stations were intentionally located in the 1980s symmetrically around the City to provide a good service and reasonably equal travel distances for the public and commercial sectors to offload their refuse. Closing a station (probably Styx Mill) would distort this balance and also result in closing down costs (redundancies etc). This would need to be balanced against potential cost savings. It is recommended that a separate report on this possibility is produced by the Solid Waste Manager later in the year. It may be that if a station were to ever be closed to the public, then it could provide an opportunity to establish a waste sorting/minimisation/recycling facility there. Such a facility will become increasingly more viable on economic grounds as the cost of dumping refuse inevitably increases. One option here that could offer some advantages is a joint venture refuse sorting operation between this Council and a commercial collector(s) and or CWS. Indeed the TCL Memorandum Of Understanding allows for exactly that possibility in clauses (9) entitled "Alternatives to Landfilling" and "Waste Minimisation".

##### **(b) *Reduce Refuse Station Costs***

*Comment:* Currently refuse station costs are \$13.70/tonne. A target figure of \$10.00/tonne has been considered, but a recent examination of the operating costs with City Care has indicated this may be too ambitious. A figure of \$12.50 has therefore been allowed in this report. Note also that the Council will need to manage additional load inspection systems at the refuse stations as Transwaste will require all loads to the landfill to be guaranteed to comply with their acceptance criteria.

##### **(c) *Reduce Refuse Transport Costs:***

*Comment:* This operation is to be competitively tendered by CWS giving the lowest possible cost so potential savings here are possible.

##### **(d) *Reduce Landfill Costs***

*Comment:* TCL and CWS have thoroughly examined all cost estimates in great depth. Most of the work will be competitively priced in some form or another, for example almost all of the landfill construction costs, refuse transport costs will be tendered. In addition all elements of the costing model are being extensively peer reviewed by the TCL Directors including our own four nominated CWSC directors. Potential savings will be realised through the tendering for various elements as the work proceeds.

##### **(e) *Offset TCL costs with the shareholder dividend***

*Comment:* The dividend from Transwaste will likely be around \$800,000 per annum (the amount recorded in the current Annual Plan of \$180,000 in 2004/05 and \$365,000 in subsequent years is significantly underestimated), although this will be affected by the company's debt/equity ratio. (If the suggestion to increase debt and reduce equity, in order to reduce gate charges, is adopted, then the dividend will go down accordingly – although there would be a partial return of capital too). However to be conservative a dividend to Christchurch City Council of \$500,000 is suggested by the Chairman of Transwaste Canterbury Ltd. It is further suggested by the Chairman of Transwaste Canterbury Ltd that this dividend is invested in a hypothecated fund along with the waste minimisation levy (the 'Waste Minimisation Fund') from which the Council will finance its waste minimisation operations (see 6 below). This will negate the charge already being made by some people against the Council, that it is trying to profit unconscionably from the Transwaste investment

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## 5. OPTIONS TO REDUCE WASTE MINIMISATION ACTIVITIES

### (a) *Kerbside Recycling*

It is common knowledge in the waste minimisation business that the worst possible scenario in terms of community buy-in to recycling is to adopt stop/start collection services. In addition kerbside recycling is extremely popular with Christchurch residents with 86% in strong support (1999/00 residents survey) and a majority wanting to do more waste sorting at the kerbside. Also the Council has recently started collecting more paper (shiny magazines, milk cartons, advertising material etc) and mixed plastics (no 2). For these reasons it is not considered prudent or viable to reduce this service, in fact the reverse is true, we want/intend to increase it.

### (b) *Recovered Materials Foundation*

It is essential that kerbside recyclables are handled in a sustainable fashion. The RMF has established itself in a highly creditable fashion with the creation of 48 jobs (end June 2000), local recycling businesses, (e.g. glass blasting powder) and an increasing revenue stream. The RMF is an equal partner with the Council. It is unthinkable that the RMF would be downsized at this (or any) time.

### (c) *Business Development Fund (BDF)*

This fund is financed by a \$2/t Refuse Station gate levy and is the lifeblood of the RMF in terms of providing a source of finance to fund fledgling local recycling businesses. It is considered most unwise at this formative stage of recycling development activities to reduce the funding source for the BDF.

### (d) *Commercial Waste Minimisation*

The commercial waste minimisation programme is provided by staff of City Solutions. Its anchor point is the Target Zero Programme which comprises a network of businesses committed to work together to increase awareness of the financial and environmental benefits of reducing waste, together with energy and process efficiency enhancements. A wide variety of activities are undertaken including workshops, site visits to industry, advice/assistance, distribution of educational material and the like. The Council has an obligation to show leadership and act as a catalyst in this area and it is not considered at all advisable to reduce this activity. This is especially so given our commitment to the Redesigning Resources project that sprang from last years sustainability conference involving Paul Hawken and Ray Anderson et al.

### (e) *Recycling Centres*

The recycling centres operated at each Refuse Station together with the recently opened Supershed, provide the opportunity for the public to reduce their waste and dumping charges by offloading recyclable and reusable items as they enter the Refuse Stations. This activity is run by the RMF under contract to the Council. The RMF has done a very good job in containing and reducing costs with a \$25,000 return to the Council in 1999/00. The service is popular with the public in terms of giving them the ability to recycle old goods (at the Refuse Stations) and gain access to a well run second hand retail goods outlet (at the Supershed). It is considered that reducing this activity would be most unpopular.

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**(f) Compost Plant**

The Compost Plant was opened in 1994 and has progressively increased the amount of green waste diverted from the landfill and processed into compost. It currently processes 35,000t of green waste/year. When the proposed start-up in-vessel plant opens in 2003 with the ability to process putrescibles (and some bio-solids) diversion of organics from the landfill will increase. Compost production is one of the Council's major elements in its Solid & Hazardous Waste Management Plan designed to reduce the waste stream to landfill and it is not considered viable in any way to reduce activities here.

**6. OTHER OPTIONS TO FUND SHORTFALL**

**(a) General**

If the funding noted in item 4 (e) above is accepted the remaining shortfall to continue the Councils waste minimisation programme is 2,648,764 (ie 3,148,764 – 500,000). It is worth noting here again that just last year, amid considerable debate, the Council changed the primary target in its Waste Management Plan to "65% minimum of the waste stream overall, by 2020". At the time this was accepted, the Chairman of (the then) City Services Committee made it clear that the new target, while realistic, was not going to be easy to achieve, as is now apparent.

**(b) Licensing of Waste Operators**

Staff are currently studying the possibility of licensing all waste cartage companies, with the requirement that returns would be furnished to the Council on waste quantities and sources. Such information would enable commercial waste minimisation programmes to be more effectively targeted. The system would also potentially provide a mechanism to apply a waste minimisation levy to all the waste that is currently dumped in 'cleanfills'. It is estimated that the quantity of this material is at least 400,000t per annum. However this is a significant project and much has to be worked through, including consultation with the waste transport industry. It would therefore be imprudent to include funding from this source in the forward budget at this stage.

**(c) Rates**

Should the licensing project not be viable, the make up funding will need to come from rates, unless the decision is made to cut waste minimisation services.

**(d) Resident Funded Refuse Bags**

Another alternative to increasing rates to fund the shortfall in waste minimisation activities, is to move to a system of resident funded (ie "waster pays") for the domestic black bag refuse collection system. In this approach the public will directly purchase their "official" refuse bags from approved outlets (such as supermarkets, Service Centres and the like) as opposed to getting 52 "free" refuse bags under their general rates account. This will shift the method of payment for the service from rates to "waster pays". It is proposed to make the last delivery of 52 free bags (via the coupon system) in April 2003. Extra revenue from the proposed "waster pays" system will start to eventuate early in the 2004 calendar year when people run out of "free" bags and will have its full financial impact (ie more revenue) in the 2004/05 year. This will coincide with the opening of the new Regional Landfill in 2004 and help offset the Council's increased costs due to the new Landfill opening costs.

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## 7. DISTRIBUTION OF FUNDING TO WASTE MINIMISATION ACTIVITIES

Given the funding sources in section 6 above, the distribution of these sources to the discrete waste minimisation activities shown in table 1 (section 2 preceding) are shown in Table 3 for the first full year that the new regional landfill is open.

**Table 3**

Activity	Rates Funded	Waste Minimisation Levy plus TCL Dividend	Primary Benefit derived by	
			Ratepayers	Commerce
<b>(a) Services to the Community:</b>				
• Households – collection of kerbside recyclables	2,648,764	182,236	✓	
• Commercial Waste Minimisation – Target Zero programme etc		557,000		✓
<b>(b) Waste Minimisation Operations</b>				
• RMF		264,000		✓
• Business Development Fund (RMF)		407,700		✓
• Recycling Centres		169,000	✓	✓
• Composting		457,000	✓	✓
• New Initiatives				
<b>(c) Christchurch City Council Planning</b>		94,000	✓	✓
<b>Total</b>	<b>2,648,764</b>	<b>2,130,936</b>		

**Note:** If the Council moves to a "waster pays" approach for refuse bags then the items in the "Rates Funded" column above are likely to be no longer required to be funded by rates.

A persistent question has been asked by the commercial sector as to why they should pay a waste minimisation levy (fee) at the Refuse Station gate for which they perceive little (or even zero) benefit.

Table 3 above clearly shows that both business and the ratepayers derive benefit from activities that are funded by both rates and the Refuse Station gate levy. Whilst it is almost impossible to be more precise about the matter than the indication of multiple benefits shown in Table 3, the table nevertheless indicates that industry's complaint is unwarranted.

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## 8. POTENTIAL PROBLEMS

A potential problem with a continuing waste minimisation fee at the Council's Refuse Station gates is that other bordering Territorial Local Authorities (TLA's) (e.g. Waimakariri, Selwyn) who operate refuse transfer stations may choose not to charge such a levy. This could cause commercial waste collectors to take their refuse to over the border refuse stations so as to avoid the levy. Such an event could jeopardise the commercial viability of the TCL refuse disposal operations. This scenario seems unlikely as the extra travel distances are highly likely to offset any potential saving from a lower over the border dumping fee. However the scenario is nevertheless a real possibility and one that will need to be addressed through discussion by the TLA partners of CWSC (ie Christchurch, Waimakariri, Hurunui, Selwyn, Banks Peninsula, Ashburton). It is expected that a mutually acceptable agreement can be reached such as all partners charging the same levy so as to (partially at least) equalise gate fees at all regional refuse stations. Note here that there are likely to be Commerce Commission difficulties with any equalisation of the levy which will need to be resolved.

## 9. SUMMARY

This report backgrounds a commercially viable threshold fee for Transwaste Canterbury Ltd when the new Regional Landfill opens in 2004, this Council's waste minimisation activities and their cost. It also looks at a future waste minimisation refuse station gate fee in 2004 and the cost share for waste minimisation activities between the TCL dividend, the gate fee and Rates. The effect on future rates is also foreshadowed.

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*Efficiency Gains***Water Supply**

- Nil

**Waste Water**

- Nil

**Solid Waste**

- Reduction in RMF operating costs as set out in forward operating budget – refer summary table

**KEY CHANGES CAPITAL**

The summary table below schedules the changes that are included in the 10 year capital budget

**Summary Table of Changes Included in 10-year Operating Budget**

<b>Water Supply</b>	<b>2002/03 Year 1</b>	<b>2003/04 Year 2</b>	<b>2004/05 Year 3</b>	<b>2005/06 Year 4</b>	<b>2006/07 Year 5</b>	<b>2007/08 Year 6</b>	<b>2008/09 Year 7</b>	<b>2009/10 Year 8</b>	<b>2010/11 Year 9</b>
<b><u>Renewal and Replacement - Infrastructural</u></b>									
Replacement Mains (1)	-1,192,740	-500,000	-500,000	-500,000	-500,000	-500,000			
Diesel Generator Replacement	-104,000								
Increase in Equipment Replacements	34,200								
Increase in Control and Indication	180,000								
<b><u>Asset Improvements - Infrastructural</u></b>									
Well Discharge metering			-15,450	-15,450					
Increase in Energy efficiency measures	14,500								
Control and Indication				-229,500					
<b><u>New Assets - Infrastructural</u></b>									
Increase in New Mains	420,000								
<b>Annual Difference from 2001/02 budget</b>	<b>-648,040</b>	<b>-500,000</b>	<b>-515,450</b>	<b>-744,950</b>	<b>-500,000</b>	<b>-500,000</b>			
<b>Cumulative Difference</b>	<b>-648,040</b>	<b>-1,148,040</b>	<b>-1,663,490</b>	<b>-2,408,440</b>	<b>-2,908,440</b>	<b>-3,408,440</b>	<b>-3,408,440</b>	<b>-3,408,440</b>	<b>-3,408,440</b>

(1) Reduction may be possible in years 2, 3, 4, 5, also, to be decided as part of AMP review



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<b>Wastewater</b>	<b>2002/03</b>	<b>2003/04</b>	<b>2004/05</b>	<b>2005/06</b>	<b>2006/07</b>	<b>2007/08</b>	<b>2008/09</b>	<b>2009/10</b>	<b>2010/11</b>
<b><u>Renewal and Replacement - Infrastructural</u></b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>	<b>Year 7</b>	<b>Year 8</b>	<b>Year 9</b>
Sewer Renewals <sup>(1)</sup>			-600,000	-600,000	-600,000	-600,000	-600,000	-600,000	-600,000
D Panel Replacement	-79,000				79,000				
North Gallery Rewire	-21,000				21,000				
Dall Flow Measurement Meters		55,000							
Flow Monitoring	-200,000								
<b><u>Renewal and Replacement - Fixed Assets</u></b>									
Treatment Works: Other Plant Renewals					-100,000				
<b><u>Improvements - Infrastructural</u></b>									
P/stn No. 11 Pressure Main Upgrading	-1,000,000	1,000,000							
Belfast WWTP Upgrade				-1,590,000	-1,590,000	1,590,000	1,590,000		
<b><u>New Assets - Infrastructural</u></b>									
Reticulation Odour Control	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Subdivision Cost Share Contributions	50,000								
Composting Rag & Grit	250,000	182,000							
<b><u>New Assets - Fixed</u></b>									
Treatment Works Unallocated					-30,000				
Trade Waste - Samplers					30,000				
<b>Annual Difference from 2001/02 budget</b>	<b>-950,000</b>	<b>1,287,000</b>	<b>-550,000</b>	<b>-2,140,000</b>	<b>-2,140,000</b>	<b>1,040,000</b>	<b>1,040,000</b>	<b>-550,000</b>	<b>-550,000</b>
<b>Cumulative Difference</b>	<b>-950,000</b>	<b>337,000</b>	<b>-213,000</b>	<b>-2,353,000</b>	<b>-4,493,000</b>	<b>-3,453,000</b>	<b>-2,413,000</b>	<b>-2,963,000</b>	<b>-3,513,000</b>

(1) This is a transfer of the sewer grouting activity from Capital to Operational expenditure. This is required to conform to accepted accounting practices.

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<b>Solid Waste</b>	<b>2002/03</b>	<b>2003/04</b>	<b>2004/05</b>	<b>2005/06</b>	<b>2006/07</b>	<b>2007/08</b>	<b>2008/09</b>	<b>2009/10</b>	<b>2010/11</b>
<b><u>Improvements – Fixed Assets</u></b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>	<b>Year 7</b>	<b>Year 8</b>	<b>Year 9</b>
Refuse Station modifications to accommodate new vehicles (1)	300,000	300,000							
<b><u>New Assets - Fixed</u></b>									
New Canterbury Regional Landfill (2)	-764,900	-572,100							
Start-up In-vessel Compost Plant (3)	-2,450,000	293,500	2,393,500	500,000					
<b>Annual Difference from 2001/02 budget</b>	<b>-2,914,900</b>	<b>21,400</b>	<b>2,393,500</b>	<b>500,000</b>					
<b>Cumulative Budget</b>	<b>-2,914,900</b>	<b>-2,893,500</b>	<b>-500,000</b>						
<b>City Water &amp; Waste Total Difference from 2001/02 budget</b>	<b>-4,512,940</b>	<b>808,400</b>	<b>1,328,050</b>	<b>-2,384,950</b>	<b>-2,640,000</b>	<b>540,000</b>	<b>1,040,000</b>	<b>-550,000</b>	<b>-550,000</b>
<b>Cumulative Difference</b>	<b>-4,512,940</b>	<b>-3,704,540</b>	<b>-2,376,490</b>	<b>-4,761,440</b>	<b>-7,401,440</b>	<b>-6,861,440</b>	<b>-5,821,440</b>	<b>-6,371,440</b>	<b>-6,921,440</b>

(1) Refuse Station modifications may be underbudgeted

(2) Transwaste advice, later shareholder capital calls not likely to be required

(3) In-vessel compost plant underfunded

**KEY CHANGES CAPITAL WORKS 2002/03***Committed Costs (Capital) approved by the Council subsequent to the Council meeting of 12 July 2001***Water Supply**

- Nil

**Wastewater**

- Nil

**Solid Waste**

- Nil

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
ACTIVITY:	BUSINESS UNIT SUMMARY

### ***Capital Cost Increases > 2%***

#### **Water Supply**

The following items are listed as they exceed provisions in the current capital programme, however with the reductions scheduled below the total capital works in the draft budget is significantly less than the programme. (Increases are listed for Corporate Strategy Team consideration)

#### *Headworks Renewals and Replacements: Equipment Replacements*

- It is proposed to increase this item to 75,000. Of this, 25,000 is required to replace a brand of older motor starters, which the supplier has advised they will no longer support because of parts non-availability. Current work in condition assessment is revealing some additional work that will have benefits in terms of reliability and operating costs. Increase 34,200

#### *Headworks Renewals and Replacements: Control and indication*

- The 20 year old MEDCON control equipment installed in a number of facilities needs to be replaced to overcome reliability problems, simplify interconnected control systems, and to allow improvements to be made to security at the sites. This was originally planned to occur over a 5-year period but the total \$500,000 is now needed over a shorter period. \$155,000 is presently allowed for (\$35,000 from Control and Indication renewals, and \$120,000 from 'other renewals/replacements'). A further \$180,000 (making a total of \$335,000) is requested for 2002/03. The remaining required funds for the project will be reported in the Water Supply Asset Management Plan revision in April/May. Increase 180,000

#### *Asset Improvements – Infrastructural: Energy Efficiency measures (ex "Other Improvements")*

- Approximately 40,000 is required to complete this three-year optimisation project, with the remaining cost expected to be covered by funding from the Energy Efficiency and Conservation Authority. The 25,500 specified in "Other Improvements" in the current capital programme is included in this sum. Increase 14,500

#### *New Assets, Reticulation – New Mains Programme*

- Increased expenditure on new reticulation from the present to a total of \$1,251,208. \$350,000 extra is required for a new main to Templeton (population growth and risk management), and \$70,000 for development in the Ferrymead Park vicinity. Increase 420,000

**TOTAL: (Water Supply increases >2%) 648,700**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

**Wastewater***New Infrastructural Assets – Reticulation*

- Subdivision Cost Share contributions. This item covers the Council's contributions to assets installed by developers where the Council requires additional work not directly benefiting their development. The sum of 51,000 per annum has proved insufficient to provide the required additional work in recent years. (increases for Corporate Strategy Team consideration).

**TOTAL: (Wastewater increases 2%)****50,000****Solid Waste**

- Nil

*New Capital Initiatives and Matching Capital Substitutions***Water Supply**

- Nil

**Wastewater**

<b>Project</b>	<b>2002/03</b>	<b>Comments</b>
<b>New Capital Initiative</b>		
<i>New Assets - Reticulation</i> Odour Control	50,000	There is a need to continue this programme in order to manage reticulation odours.
<i>New Infrastructural Assets: Treatment Plant</i> Composting rag and grit	250,000 <sup>(1)</sup>	(A further \$182,000 was added to the 2003/04 budget. This reduced 2002/03 operating cost by \$30,000 and 2003/04 and subsequent years by a further \$20,000)
<b>Matching Substitution</b>		
<i>Renewals &amp; Replacements: Reticulation</i> Flow monitoring	(200,000)	This project is nearing completion and can be reduced from 420,000
<i>Renewals and Replacements: Treatment Plant</i>		
D Panel replacement	(79,000)	Item not now required to be replaced in 2002/03
North Gallery rewire	(21,000)	Item not now required to be replaced in 2002/03
<b>TOTAL</b>	<b>0</b>	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

Note (1) If this initiative does not proceed there will be an increase in the operating budget of 55,000/year for landfill disposal costs of rag and grit.

### **Solid Waste**

- See preceding substitution table.

### ***Works in Capital Programme Reduced or no Longer required***

### **Water Supply**

#### *Replacement Mains*

- The mains replacement strategy in the adopted asset management plan calls for 13.5km of watermain replacement for the 2002/03 year. The proposed Water Supply Asset Management Plan due to be reported to the Council in March 2002 will recommend a significant reduction in mains renewals with 7km proposed to be replaced in each of the next three years. Pending consideration of the proposed Asset Management Plan by the Council, it is considered appropriate to reduce replacement to 7km for the 2002/03 year.  
- Saving (1,192,740)

#### *Headworks Renewals and Replacements*

- Diesel Replacement – Sufficient funding for this renewal is available within the replacement for the Fitzgerald Pump Station  
- Saving (104,000)

### **Wastewater**

- Nil

### **Solid Waste**

- Nil

**TOTAL: Saving (1,296,740)**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

***Works delayed to Later Years*****Water Supply**

- Nil

**Wastewater**

- Infrastructural Improvements, Reticulation – Pump Station Number 11 Pressure Main Upgrading. It is not expected that this project can realistically be completed by June 2003, therefore 1,000,000 of the 2,213,000 budgeted for this projected has been delayed to the 2003/04 year.

**Decrease (transferred to year 2 of Capital Programme)****(1,000,000)****Solid Waste**

- Nil

***Summary***

The overall effect of the key changes outlined above is:

Water Supply	Savings = 1,296,740 – 648,700	<b>savings</b>	<b>(648,040)</b>
Wastewater	Additional works	<b>additional</b>	<b>50,000</b>
	Works delayed from 2002/03 to later years	<b>delayed</b>	<b>(1,000,000)</b>
Solid Waste			<b>nil</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

**KEY CHANGES TO CAPITAL WORKS, YEARS 2 TO 9****Water Supply**

See preceding table.

The Revised Asset Management Plan is expected to show modest decreased in expenditure for years two to five. The major factor in this overall decrease is a proposed decrease in expenditure on mains and submains, however this will be partly offset by a need to increase expenditure in other areas. In particular, expenditure on infrastructure needed as a result of the provisions of Environment Canterbury's Natural Resources Plan (which is likely to put limits on abstraction from groundwater, particularly in the Heathcote River Catchment) is likely to balance any reduced expenditure in the five to nine-year period. In the mean-time, inflation adjustment of 2% has been applied to 10-year programme line items, except for Reticulation Renewals (mains and submains).

**Wastewater**

See preceding table.

**Solid Waste**

See preceding table.

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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

**SCHEDULE OF CAPITAL 10 YEAR LINES THAT INCLUDE AN ITEM 0.5M OR GREATER**

The purpose of this table is to provide an overview of the major capital items included in the Unit's 10 year budget. It also provides an explanation of the reason the 10 year budget rollercoasts somewhat from year to year and will therefore be a useful tool if corporate capital smoothing is required.

	1	2	3	4	5	6	7	8	9	10	Totals
Item	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	
<b>Water Supply</b>											
Water Pipe Renewal	2.559	3.173	3.255	3.367	3.428	3.341	4.102	3.653	3.681	2.801	
Headworks Renewals	1.112	0.634	0.571	0.598	0.903	1.558	1.025	1.023	1.023	0.917	
Headworks New Assets	0.512	0.577	0.651	0.551	0.627	0.673	0.663	0.673	0.664	0.664	
Reticulation New Assets	0.831	0.387	0.354	0.355	0.436	0.439	0.441	0.444	0.456	3.000	
Ellesmere Pump Station										1.000	
West Zone Reservoir										1.300	
New Connections	0.623	0.533	0.497	0.497	0.633	0.705	0.709	0.714	0.714	0.714	
<b>Wastewater</b>											
Lifelines Brickbarrel Strengthening		1.060	1.060	1.060	1.060						
Sewer Grouting	0.600	0.600									
No 11 Pump Station Pressure Main Upgrade	1.213	1.000									
No 11 Pump Station Major Upgrade	0.504	0.494									
Major SW Sector Trunk Expansion		3.076	3.076	3.076	3.024	1.512	3.024	2.965	3.024	3.024	
Halswell Area Trunk Expansion	1.592					1.512					
Sewer Pipe Renewal City Wide	1.449	1.628	1.726	1.726	1.726	1.726	1.726	1.726	1.726	1.726	
National Engine Replacement Pumps		0.624	0.624								
Belt Press Replacement								0.743			
Allen Engine Replacement										1.600	
Belfast Treatment Plant Upgrade						1.592	1.592				
CWTP Equipment Renewals								1.956			
Aeration Blower Engine Room									0.520		
CWTP Expansion	7.546	0.065	1.000	1.595							
CWTP UV Sterilisation		7.959	7.959								
CWTP Pond Modifications	0.051	0.050	0.050	7.078	7.283						
CWTP 5th Digester										2.800	
CWTP 3rd Sludge Thickening Machine									0.408		
Sludge Lagoons Cover Replacement									1.035		
Motor Distribution Centre (Above Ground)								0.437			



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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

	1	2	3	4	5	6	7	8	9	10	Totals
Item	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	
<b>Solid Waste</b>											
New Canterbury Regional Landfill	0.400	0.400									
Refuse Station Modifications	2.329	2.329									
Strategic Land Purchase		0.500									
In-vessel Compost Plant	0.150	2.893	2.893	0.500							
<b>Total of Items Greater than 0.5m</b>	<b>21.471</b>	<b>27.982</b>	<b>23.716</b>	<b>20.403</b>	<b>19.120</b>	<b>13.055</b>	<b>13.292</b>	<b>13.655</b>	<b>13.251</b>	<b>19.546</b>	<b>185.491</b>
Variances year to year		6.511	-4.266	-3.313	-1.283	-6.065	0.237	0.363	-0.404	6.295	
<b>Total City Water &amp; Waste Unit Budget</b>	<b>24.882</b>	<b>30.540</b>	<b>26.563</b>	<b>22.367</b>	<b>21.285</b>	<b>15.600</b>	<b>15.533</b>	<b>17.123</b>	<b>17.077</b>	<b>22.822</b>	<b>213.792</b>
Variances year to year		5.658	-3.977	-4.196	-1.082	-5.685	-0.067	1.590	-0.046	5.745	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

### SUMMARY OF OBJECTIVES AND PERFORMANCE INDICATORS THAT TRANSFER TO THE FINANCIAL PLAN AND PROGRAMME

In later text a series of objectives and performance indicators are listed for water, wastewater and solid waste. Those objectives and indicators that are considered to be key for the Unit are italicised and bold. It is these that will be shown in the Council's Annual Plan document for public consultation. To provide a handy overview of these key objectives and indicators and also provide a 'liftout' ready for installation into the Annual Plan, they are summarised in the table below.

### Water Supply

Objectives for 2002/03			Performance Indicators		TBL Category
		<b>Operational</b>			
Overall	1.	<i>To provide the community with safe, convenient and efficient water supply services.</i>	1.1	<i>90% of customers are satisfied with the water supply service.</i>	Social
			1.2	<i>90% of customers are satisfied with the water quality/taste.</i>	Environmental
			1.3	<i>90% of customers are satisfied with value of water supply service.</i>	Financial
			1.4.	<i>Water supply cost per household, (target \$98 per household)</i>	Financial
	2.	<i>To develop and enhance partnerships with the community and with governing bodies to achieve desired outcomes.</i>	2.1	<i>Water used per person (litres per person per day on five year rolling average) is progressively reduced.</i>	Environmental
			2.2	<i>Public commitment to water conservation.</i>	Social
			2.3	<i>Business commitment to water conservation.</i>	Social
	3.	<i>To sustainably manage the water supply infrastructure and resource.</i>	3.	<i>Water supply infrastructure is designed and operated to obtain long term overall efficiency, (kwh of energy per cubic metre of water).</i>	Environmental
Information Requests	5.	<i>To respond to enquiries concerning water supply problems. Investigate and arrange action when Council's action is appropriate. Advise customer of an appropriate course of action when not a Council issue.</i>	5.	<i>Enquiries are responded to within one working day. If further action is required, investigations are commenced within three working days.</i>	
	6.	<i>To increase current resolution for requests for information by the Customer Centre to meet current corporate standards.</i>	6.	<i>Customer Centre staff resolve 80% of requests for information or service at first point of contact.</i>	Social
Headworks	2.	<i>To ensure headworks facilities are operated within the conditions set out in required consents.</i>	2.	<i>That all monitoring and reporting required by consents for the operation of the facilities is complied with, with no penalties or fines.</i>	Environmental
Planning	1.	<i>To ensure the sustainable management of water supply assets.</i>	1.1	<i>Council adoption and commitment to the Asset Management Plan.</i>	Environmental
			1.2	<i>That work as set out in the Improvement Plan of the Asset Management Plan is proceeded with on schedule.</i>	Financial
	4.	<i>To reasonably reduce water loss from pipework and to reduce demand on the underground water source.</i>	4.	<i>Unaccounted for water (leaks, fire fighting, flushing, illegal connections etc) is minimised (target 150 litres/day/connection by June 2006).</i>	Environmental
	5.	<i>To confirm that the water delivered to the community is potable.</i>	5.	<i>Water supplied to the community will meet or surpass the NZ Drinking Water Standards with no penalties or fines.</i>	Social
Reticulation	1.	<i>To ensure a reliable continuous supply of potable water is available to all customers at all times.</i>	1.	<i>That 95% of all reported leaks in the Council's reticulation are repaired within the following schedule: 'A' (major/urgent) contractor on site within one hour of leak being reported. 'B' (medium magnitude leaks) Leak repaired within one working day. 'C' (minor) Fault repaired within three working days.</i>	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

		<b>Capital</b>			
Infrastructure	1.	<i>To maintain the overall performance of the water supply system by undertaking a programme of Renewals and Replacements, Improvements and Extensions as set out in the Councils Asset Management Plan.</i>	1.	<i>The capital works programme as outlined in the Asset Management Plan is implemented to ensure the overall water supply infrastructure will continue to perform, and to meet city growth and development.</i>	Social Financial

## Wastewater

	Objectives for 2002/03		Performance Indicators		TBL Category
		<b>Operational</b>			
Overall	1.	<i>To provide the community with safe, convenient and efficient wastewater services.</i>	1.1	<i>90% of customers are satisfied with the wastewater service.</i>	Social
			1.2	<i>90% of customers are satisfied with the value of wastewater service.</i>	Financial
			1.3	<i>Wastewater cost per household, (target: \$126 per household).</i>	Financial
	2.	<i>To develop and enhance partnerships with the community and with governing bodies to achieve desired outcomes.</i>	2.1	<i>Wastewater treated per person is progressively reduced, (target: 400 litres per person per day on 5 year rolling average).</i>	Environmental
			2.2	<i>Business commitment to reducing wastewater volumes while improving quality. (Business Association Survey, to be benchmarked in 2001/02).</i>	Environmental
	3.	<i>To comply with or surpass legislative requirements and standards.</i>	3.1	<i>All activities to comply with relevant legislation (report exceptions).</i>	Environmental
			3.2	<i>Penalties or fines incurred. (Target Nil).</i>	Financial
Information Requests	4.	<i>To respond to enquiries concern wastewater problems. Investigate as appropriate and arrange action when the Council's action is appropriate. advise customer of an appropriate course of action when not a Council issue.</i>	4.	<i>Enquiries are responded to within one working day. If further action is required, investigations are commenced within three working days.</i>	Social
	5.	<i>To increase current resolution for requests for information by the customer centre to meet current corporate standards.</i>	5.	<i>Customer Services Centre staff resolve 80% of requests for information or service at first point of contact.</i>	Social
Planning	1.	<i>To ensure sustainable management of the wastewater assets.</i>	1.1	<i>Maintain an Asset Management Plan in accordance with national standards.</i>	Social
			1.2	<i>Council adoption and commitment to the Asset Management Plan.</i>	Environmental
			1.3	<i>That work as set out in the Improvement Plan of the Asset Management Plan is proceeded with on schedule.</i>	Financial
			1.4	<i>Complete Wastewater Strategic Management Plan by June 2003.</i>	Social
Reticulation	1.	<i>To ensure a reliable and continuous sewer service is available to all customers at all times.</i>	1.	<i>Number of overflows directly entering waterways or rivers.</i>	Social
Treatment	1.	<i>That wastewater is treated and discharged at acceptable environmental standards.</i>	1.	<i>The risk to wildlife from the treatment plant discharge is minimised (target pollutants in discharge reduced by 75% BOD and 75% suspended solids).</i>	Environmental
	2.	<i>To ensure the Treatment Plant is operated in an efficient manner.</i>	2.	<i>Methane emissions into the environment are minimised (target zero flaring of biogas at the Treatment Plant).</i>	Environmental
	3.	<i>To ensure the treatment facilities are operated within the conditions set out in required consents.</i>	3.	<i>Discharge air and wastewater quality meets Resource Consent conditions with nil penalties or fines (report by exception).</i>	Environmental
	4.	<i>To foster good relationships with neighbours of the Christchurch Wastewater Treatment Plant.</i>	4.	<i>Community engagement plan for Wastewater Treatment Plant is implemented.</i>	Social
		<b>Capital</b>			
Infrastructure	1.	<i>To maintain the overall performance of the wastewater system by undertaking a programme of renewals and replacements, improvements and extensions as set out in the Council's Asset Management Plan.</i>	1.	<i>The capital works programme as outlined in the Asset Management Plan is implemented to ensure the overall wastewater infrastructure will continue to perform, and to meet City growth and development.</i>	Social Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>BUSINESS UNIT SUMMARY</b>

## Solid Waste

	Objectives for 2002/03		Performance Indicators		TBL Category
		<b>Operational</b>			
Overall	1.	<i>To provide the community with safe, convenient and efficient waste management services.</i>	1.1 1.2 1.3 1.4 1.5	<i>90% of customers are satisfied with the recycling and black bag collection service. 80% of customers consider the recycling and black bag collection service delivers value for money. Average cost of waste management per property, (target: \$126 per household). Reported incidence of illegal dumping. Waste management services are provided within budget.</i>	Social Financial Financial Environmental Financial
	2.	<i>To work with the community to reduce the waste generated in Christchurch through reduction at source, reuse, recycling and composting.</i>	2.1 2.2 2.3 2.4 2.5	<i>Kilograms of waste sent to landfill per citizen reduced annually. Tonnes of waste sent to landfill annually Public commitment to waste minimisation initiatives. Amount spent on waste minimisation activities per citizen, (target: \$15 per person). Progress towards waste minimisation targets</i>	Environmental Environmental Social Financial Environmental
	3.	<i>To operate waste management facilities that comply with or surpass legislative requirements and standards.</i>	3.1 3.2	<i>Compliance with resource consent conditions as recorded by Environment Canterbury. (Target nil, report exceptions). Penalties or fines incurred, (Target nil).</i>	Environmental Financial
Information Requests	4.	<i>To respond to enquires concerning solid waste problems in an efficient, friendly and helpful manner, including arranging Council action where appropriate or providing customer advice when Council action is not required.</i>	4.	<i>Enquires are responded to within 1 working day. If further action is required, investigations are commenced within 3 working days.</i>	Social Environmental
	5.	<i>To increase the current resolution of requests for information by the Customer Information Centre to meet current corporate standards.</i>	5.	<i>Customer Information Centre resolves 80% of requests for information or service at first point of contact.</i>	Social
Planning	1.	<i>To ensure appropriate planning and community engagement is undertaken to adequately provide for the management of solid and hazardous waste.</i>	1.	<i>Successful community engagement and participation in the planning process (narrative).</i>	Social Environmental Financial
Commercial Waste Minimisation	1.	<i>To develop a commitment for positive environmental action by increasing awareness and priority of environmental issues among the leaders and staff of key businesses.</i>	1.	<i>Business commitment to waste minimisation progressively increases.</i>	Social
Disposal	2.	<i>To manage Council owned closed landfills in accordance with the Closed Landfill Management Strategy.</i>	2.	<i>Proportion of closed landfills with resource contents, (Target 100%).</i>	Environmental
Recycling	1.	<i>To deliver sorted uncontaminated kerbside recyclable materials to the Recovered Materials Foundation.</i>	1.	<i>Kilograms of kerbside recyclables collected/household/week, (target 2.4kg per household/week).</i>	Environmental
		<b>Capital</b>			
Infrastructure	1.	<i>To manage the solid waste management infrastructure in a sustainable way.</i>	1.1 1.2 1.3	<i>Maintain an Asset Management Plan in accordance with national standards. Council adoption and commitment to the Asset Management Plan. That the work set out in the Asset Management Plan proceeds on schedule.</i>	Social Environmental Social Financial

## 9.2.1

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>BUSINESS UNIT SUMMARY</b>

**NET COST SUMMARY**

		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
		<b>\$</b>	<b>\$</b>
<b>WATER SUPPLY</b>			
OPERATIONS REVENUE	Page 9.2.7	(597,765)	(830,138)
INFORMATION AND ADVICE	Page 9.2.8	796,824	604,395
PLANNING	Page 9.2.9	1,057,155	1,232,393
SUPPLY OF WATER	Page 9.2.10	9,882,730	9,716,207
		-----	-----
		11,138,943	10,722,857
<b>WASTEWATER</b>			
OPERATIONS REVENUE	Page 9.2.16	(1,414,701)	(1,688,433)
INFORMATION AND ADVICE	Page 9.2.17	149,615	147,710
PLANNING	Page 9.2.18	460,438	975,178
COLLECTION	Page 9.2.19	8,999,074	9,321,630
TREATMENT & DISPOSAL	Page 9.2.22	6,829,448	7,176,372
LABORATORY	Page 9.2.25	25,000	25,000
		-----	-----
		15,048,873	15,957,457
<b>SOLID WASTE</b>			
INFORMATION AND ADVICE	Page 9.2.34	41,903	290,385
PLANNING	Page 9.2.35	373,912	291,093
WASTE REDUCTION	Page 9.2.37	556,755	512,069
REUSE	Page 9.2.38	169,221	159,356
RECYCLING	Page 9.2.39	3,783,366	3,687,282
RESOURCE RECOVERY	Page 9.2.41	607,181	320,725
RESIDUE DISPOSAL	Page 9.2.43	5,339,834	5,850,739
WASTE MINIMISATION REVENUE	Page 9.2.49	(7,293,600)	(9,433,201)
		-----	-----
		3,578,571	1,678,447
<b>TOTAL NET COST</b>		-----	-----
		29,766,387	28,358,761
<b>COST OF CAPITAL EMPLOYED</b>		=====	=====
		32,403,335	34,639,721
<b>CAPITAL OUTPUTS</b>			
INFRASTRUCTURAL ASSETS	Page 9.2.50	16,842,187	20,970,401
FIXED ASSETS	Page 9.2.50	2,716,948	1,683,403
		-----	-----
		19,559,135	22,653,804
		=====	=====

## 9.2.2

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>BUSINESS UNIT SUMMARY</b>

<b>OUTPUT CLASS EXPENDITURE</b>		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
		<b>\$</b>	<b>\$</b>
<b>WATER SUPPLY</b>			
OPERATIONS REVENUE	Page 9.2.7	970,235	819,862
INFORMATION AND ADVICE	Page 9.2.8	796,824	604,395
PLANNING	Page 9.2.9	1,057,155	1,232,393
SUPPLY OF WATER	Page 9.2.10	11,148,730	11,097,207
		-----	-----
		13,972,943	13,753,857
<b>WASTEWATER</b>			
OPERATIONS REVENUE	Page 9.2.16	221,299	347,567
INFORMATION AND ADVICE	Page 9.2.17	169,615	167,710
PLANNING	Page 9.2.18	460,438	975,178
COLLECTION	Page 9.2.19	9,046,074	9,368,630
TREATMENT & DISPOSAL	Page 9.2.22	7,464,048	8,063,972
LABORATORY	Page 9.2.25	151,874	149,627
		-----	-----
		17,513,347	19,072,684
<b>SOLID WASTE</b>			
INFORMATION AND ADVICE	Page 9.2.34	41,903	290,385
PLANNING	Page 9.2.35	373,912	291,093
WASTE REDUCTION	Page 9.2.37	556,855	512,169
REUSE	Page 9.2.38	169,221	159,356
RECYCLING	Page 9.2.39	4,280,866	4,168,782
RESOURCE RECOVERY	Page 9.2.41	1,961,737	2,008,178
RESIDUE DISPOSAL	Page 9.2.43	13,977,187	14,484,094
WASTE MINIMISATION REVENUE	Page 9.2.49	0	0
		-----	-----
		21,361,680	21,914,056
		-----	-----
<b>TOTAL COST</b>		52,847,970	54,740,597
		=====	=====

## 9.2.3

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>BUSINESS UNIT SUMMARY</b>

<b>OUTPUT CLASS REVENUE</b>		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
<b>WATER SUPPLY</b>		<b>\$</b>	<b>\$</b>
OPERATIONS REVENUE	Page 9.2.7	1,568,000	1,650,000
INFORMATION AND ADVICE	Page 9.2.8	0	0
PLANNING	Page 9.2.9	0	0
SUPPLY OF WATER	Page 9.2.10	1,266,000	1,381,000
		-----	-----
		2,834,000	3,031,000
<b>WASTEWATER</b>			
OPERATIONS REVENUE	Page 9.2.16	1,636,000	2,036,000
INFORMATION AND ADVICE	Page 9.2.17	20,000	20,000
PLANNING	Page 9.2.18	0	0
COLLECTION	Page 9.2.19	47,000	47,000
TREATMENT & DISPOSAL	Page 9.2.22	634,600	887,600
LABORATORY	Page 9.2.25	126,874	124,627
		-----	-----
		2,464,474	3,115,227
<b>SOLID WASTE</b>			
INFORMATION AND ADVICE	Page 9.2.34	0	0
PLANNING	Page 9.2.35	0	0
WASTE REDUCTION	Page 9.2.37	100	100
REUSE	Page 9.2.38	0	0
RECYCLING	Page 9.2.39	497,500	481,500
RESOURCE RECOVERY	Page 9.2.41	1,354,556	1,687,453
RESIDUE DISPOSAL	Page 9.2.43	8,637,353	8,633,355
WASTE MINIMISATION REVENUE	Page 9.2.49	7,293,600	9,433,201
		-----	-----
		17,783,109	20,235,609
		-----	-----
<b>TOTAL REVENUE</b>		23,081,583	26,381,836
		=====	=====
<b>NET COST</b>		29,766,387	28,358,761
		=====	=====

Note: The provision in the 2002/2003 budget for the transfer to the Burwood Landfill Stage 2C Aftercare special fund is \$721,500 (refer Page 9.2.47).

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY – OUTPUT SUMMARY</b>

## NET COST SUMMARY - WATER SUPPLY

### OVERALL WATER SUPPLY

#### Description

The objectives in this section are those that are valid for the overall water supply activity that do not relate substantially to individual output classes.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To provide the community with safe, convenient and efficient water supply services.</i>	1.1	<i>90% of customers are satisfied with the water supply service.</i>	Social
		1.2	<i>90% of customers are satisfied with the water quality/taste.</i>	Environmental
		1.3	<i>90% of customers are satisfied with value of water supply service.</i>	Financial
		1.4	<i>Water supply cost per household (target \$98 per household)</i>	Financial
		1.5.	Water supply services are provided within budget.	Financial
2.	<i>To develop and enhance partnerships with the community and with governing bodies to achieve desired outcomes.</i>	2.1	<i>Water used per person (litres per person per day on five year rolling average) is progressively reduced.</i>	Environmental
		2.2	Successful engagement and participation in the planning process.	Social
		2.3	<i>Public commitment to water conservation.</i>	Social
		2.4	<i>Business commitment to water conservation.</i>	Social
3.	<i>To sustainably manage the water supply infrastructure and resource.</i>	3.	<i>Water supply infrastructure is designed and operated to obtain long term overall efficiency. (kwh of energy per cubic metre of water).</i>	Environmental



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OUTPUT SUMMARY</b>

<b>NET COST SUMMARY - WATER SUPPLY</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OPERATIONS REVENUE - WATER SUPPLY</b>			
Water Billing And Monitoring	Page 9.2.7	-597,765	-830,138
		-----	-----
		-597,765	-830,138
<b>INFORMATION AND ADVICE - WATER SUPPLY</b>			
Information And Advice	Page 9.2.8	796,824	604,395
		-----	-----
		796,824	604,395
<b>PLANNING - WATER SUPPLY</b>			
Planning	Page 9.2.9	1,057,155	1,232,393
		-----	-----
		1,057,155	1,232,393
<b>SUPPLY OF WATER - WATER SUPPLY</b>			
Headworks	Page 9.2.10	4,789,578	4,942,915
Reticulation	Page 9.2.11	6,257,152	6,041,291
Capital Works Revenue	Page 9.2.12	-1,164,000	-1,268,000
		-----	-----
		9,882,730	9,716,207
		-----	-----
<b>NET COST</b>		11,138,943	10,722,857
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OUTPUT SUMMARY</b>

<b>OUTPUT CLASS EXPENDITURE - WATER SUPPLY</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OPERATIONS REVENUE - WATER SUPPLY</b>			
Water Billing And Monitoring	Page 9.2.7	970,235	819,862
		-----	-----
		970,235	819,862
<b>INFORMATION AND ADVICE - WATER SUPPLY</b>			
Information And Advice	Page 9.2.8	796,824	604,395
		-----	-----
		796,824	604,395
<b>PLANNING - WATER SUPPLY</b>			
Planning	Page 9.2.9	1,057,155	1,232,393
		-----	-----
		1,057,155	1,232,393
<b>SUPPLY OF WATER - WATER SUPPLY</b>			
Headworks	Page 9.2.10	4,789,578	4,942,915
Reticulation	Page 9.2.11	6,359,152	6,154,291
Capital Works Revenue	Page 9.2.12		
		-----	-----
		11,148,730	11,097,207
<b>TOTAL EXPENDITURE - WATER SUPPLY</b>		-----	-----
		13,972,943	13,753,857
		-----	-----

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OUTPUT SUMMARY</b>

<b>OUTPUT CLASS RECOVERIES AND REVENUES - WATER SUPPLY</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OPERATIONS REVENUE - WATER SUPPLY</b>			
Water Billing And Monitoring	Page 9.2.7	1,568,000	1,650,000
		-----	-----
		1,568,000	1,650,000
<b>INFORMATION AND ADVICE - WATER SUPPLY</b>			
Information And Advice	Page 9.2.8	0	0
		-----	-----
		0	0
<b>PLANNING - WATER SUPPLY</b>			
Planning	Page 9.2.9		
		-----	-----
		0	0
<b>SUPPLY OF WATER - WATER SUPPLY</b>			
Headworks	Page 9.2.10	0	0
Reticulation	Page 9.2.11	102,000	113,000
Capital Works Revenue	Page 9.2.12	1,164,000	1,268,000
		-----	-----
		1,266,000	1,381,000
<b>TOTAL RECOVERIES AND REVENUE - WATER SUPPLY</b>		-----	-----
		2,834,000	3,031,000
<b>TOTAL NET EXPENDITURE - WATER SUPPLY</b>		-----	-----
		11,138,943	10,722,857
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
ACTIVITY:	<b>WATER SUPPLY – OPERATIONAL REVENUE</b>

## **OUTPUT : WATER BILLING & MONITORING**

### **Description**

All connections drawing water from the water supply system are fitted with meters. Council policy is not to charge domestic customers for water by volume, but it does charge non-residential properties by volume, when consumption exceeds a (calculated) water allowance based on the ratable value of the property. Also Council policy is to read domestic meters in order to identify high water users and to work with these owners/occupiers to assist them to reduce consumption where reasonable.

<b>Objective for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To regularly read the water meters and process data for planning purposes, targeting efficient water usage effort, and to collect revenue owing (non-residential).	1.1	That all meters are read annually in accordance with the schedule.	Financial
		1.2	That all premises on the high consumers list have their meter read three times per annum according to the schedule.	Financial
		1.3	That all water volume based revenue due, in accordance with Council policy, is identified and collected.	Financial
		1.4	That the 200 highest water using domestic premises are identified, contacted and actively encouraged to reduce water usage where reasonable.	Environmental

## 9.2.7

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WATER SUPPLY</b>

<b>OUTPUT : WATER BILLING AND MONITORING</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>DIRECT COSTS</b>		
Data Processing	7,000	7,000
	-----	-----
	7,000	7,000
<b>ALLOCATED COSTS</b>		
Alloc O/head - Financial Services	355,812	355,137
Transfer from Allocated Holding Accounts (6.85)% 5.66%	607,423	437,988
Alloc O/Head - Output Corporate Overheads Cost Centre	0	19,737
	-----	-----
<b>TOTAL ALLOCATED COSTS</b>	963,235	812,862
	-----	-----
<b>TOTAL COSTS</b>	970,235	819,862
<b>REVENUE</b>		
External Revenue	1,358,000	1,440,000
Internal Recoveries	210,000	210,000
	-----	-----
<b>TOTAL REVENUE - SALE OF WATER</b>	1,568,000	1,650,000
	-----	-----
<b>TOTAL NET COST - WATER BILLING AND MONITORING</b>	-597,765	-830,138
	=====	=====
<b>TOTAL NET COST OPERATIONS REVENUE - WATER SUPPLY</b>	-597,765	-830,138
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WATER SUPPLY</b>

**OUTPUT: WATER BILLING AND MONITORING**

**Description** Reading water meters for both conservation and billing the non private residential consumers

**Benefits** The whole water supply system benefits from monitoring and conservation measures and the billing process charges the commercial users to ensure efficient use of water.

**Strategic Objectives** A3, C1, C4, C5, **CCC Policy** Water charges to commercial / residential properties  
E1, E3, G1, G2

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The general benefit arises from the monitoring of the whole system to ensure efficiency and conservation.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the billing function and therefore to user charges

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value, likewise any contribution from surpluses are credited to Water Rates

**Direct Benefits**

Direct Benefits shall be funded from user charges

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WATER SUPPLY</b>

**OUTPUT : WATER BILLING AND MONITORING**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	123,923	30,337	1,318	8,395		163,972 CapValWater
80.00% Direct Benefits	655,890	-	-	-	-		655,890 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	655,890	123,923	30,337	1,318	8,395	-	819,862
<i>Modifications</i>							
Transfer User Costs to Rating	994,110	(751,305)	(183,921)	(7,990)	(50,895)		0 CapValWater
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	994,110	(751,305)	(183,921)	(7,990)	(50,895)	-	0
<b>Total Costs and Modifications</b>	<b>1,650,000</b>	<b>(627,381)</b>	<b>(153,584)</b>	<b>(6,672)</b>	<b>(42,500)</b>	<b>-</b>	<b>819,862</b>

**Funded By**

201.25% User Charges	1,650,000						1,650,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
-101.25% Capital Value Rating	-	(627,381)	(153,584)	(6,672)	(42,500)	-	(830,138)
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>1,650,000</b>	<b>(627,381)</b>	<b>(153,584)</b>	<b>(6,672)</b>	<b>(42,500)</b>	<b>-</b>	<b>819,862</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - INFORMATION AND ADVICE</b>

## **OUTPUT : INFORMATION & ADVICE**

### **Description**

An extensive information system (both plan and text records) is maintained for water supply. Information and advice is supplied on demand to the public and other Council staff. The Essential Services Customer Information Centre handles the majority of these requests, but non-routine requests often involve site visits and follow up by specialist staff, to resolve. Effort is also expended to raise the awareness for the need to use water efficiently in order to safeguard the quality and quantity of water available in the underground aquifers.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To provide timely and innovative responses to elected members enquiries that are customer focused whilst providing clear policy elaboration.	1.	Number of serious negative responses received from elected members. Target nil.	Social
2.	To provide for both elected members and the public, the water supply section of the Annual Plan that meets corporate best practice objectives.	2.	Water Supply Section Annual Plan assessed by Directorate as reflecting corporate best practice.	Social
3.	To advance the water supply conservation, awareness and education programmes.	3.	That an annual programme, consistent with the long-term strategy and short-term needs, is prepared and actioned.	Environmental



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - INFORMATION AND ADVICE</b>

**OUTPUT : INFORMATION & ADVICE (CONTD)**

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
4.	To respond to requests for printed (plans, brochures etc) information and advice on water supply related matters in an efficient, friendly and helpful manner.	4.	That 99% of all requests for available printed information are actioned within four working hours.	Social
5.	<i>To respond to enquiries concerning water supply problems. Investigate and arrange action when Council's action is appropriate. Advise customer of an appropriate course of action when not a Council issue.</i>	5.1	That all reactive maintenance matters made known to Council are recorded and dispatched to Contractor within 15 minutes of receiving initial report. Target 98%.	Social Environmental
		5.2	<i>Enquiries are responded to within one working day. If further action is required, investigations are commenced within three working days.</i>	Social
6.	<i>To increase current resolution for requests for information by the Customer Centre to meet current corporate standards.</i>	6.1	<i>Customer Centre staff resolve 80% of requests for information or service at first point of contact.</i>	Social
		6.2	That 95% of calls to Customer Information Centre are answered.	Social
		6.3	That 80% of all calls are answered within 20 seconds.	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - INFORMATION AND ADVICE</b>

**OUTPUTS : INFORMATION AND ADVICE (CONTD)**

7.	To strengthen relationships between Customer Centre staff, Unit specialists and our customers and streamline the processes.	7.1	That Service Level Agreements between the Customer Centre and Unit teams are met.	Social
		7.2	The Customer Centre in conjunction with the Customer Centre Network participates in a monthly customer research programme to determine customer needs and satisfaction with the service, and implements customer driven changes to the service within current resources.	Social
		7.3	Processes identified by customer research, or by performance failures of the Service Level Agreements are reviewed and updated.	Social
8.	To correctly process applications for new water supply connections and have the connection installed in a timely manner.	8.1	That 99% of all valid applications received for new water supply connections are processed and forwarded to the installation contractor within three working days.	Social
		8.2	That 99% of all new water connections are installed within 15 working days of receipt of a valid application.	Social
9	To protect the public water supply from the risk of backflow contamination.	9.1	That the Council's policy on backflow prevention is being applied in respect to new connections.	Environmental
		9.2	That 20% of all premises with water connections 50mm or larger are surveyed this period for assessment of risk for backflow.	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WATER SUPPLY</b>

<b>OUTPUT : INFORMATION AND ADVICE</b>				<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
DIRECT COSTS					
Education Programme				165,000	165,000
Statutory Compliance (Bylaws)				95,000	92,000
				-----	-----
				260,000	257,000
ALLOCATED COSTS					
Transfer from Allocated Holding Accounts (6.05)% 4.27%				536,824	330,689
Alloc O/Head - Output Corporate Overheads Cost Centre				0	16,707
				-----	-----
TOTAL ALLOCATED COSTS				536,824	347,395
				-----	-----
TOTAL COSTS				796,824	604,395
REVENUE					
External Revenue					
Internal Recoveries					
				-----	-----
TOTAL REVENUE				0	0
				-----	-----
TOTAL NET COST - INFORMATION AND ADVICE				796,824	604,395
				=====	=====
<b>TOTAL NET COST INFORMATION AND ADVICE - WATER SUPPLY</b>				796,824	604,395
				=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WATER SUPPLY</b>

**OUTPUT: INFORMATION AND ADVICE**

**Description** Provide information about the water system to elected members and the public both on a planned and as requested basis. To process applications and implement Bylaws.

**Benefits** The whole water supply system benefits from responding to requests for information and developing the awareness of potable water issues.

**Strategic Objectives** A3, C1, C4, C5      **CCC Policy** City Plan, Seeking Community views

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The general benefit arises from increased sensible use of the potable water system and conservation.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the consumers of water.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Water rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WATER SUPPLY</b>

**OUTPUT : INFORMATION AND ADVICE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
80.00% General Benefits	-	365,420	89,456	3,886	24,754		483,516 CapValWater
20.00% Direct Benefits	120,879	-	-	-	-		120,879 TableC
0.00% Negative Effects	-	-	-	-	-		- TableC
<i>Total Costs</i>	120,879	365,420	89,456	3,886	24,754	-	604,395
<i>Modifications</i>							
Transfer User Costs to Rating	(120,879)	91,355	22,364	972	6,189		- CapValWater
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(120,879)	91,355	22,364	972	6,189	-	-
<b>Total Costs and Modifications</b>	-	456,775	111,820	4,858	30,943	-	604,395

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	456,775	111,820	4,858	30,943	-	604,395
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	-	456,775	111,820	4,858	30,943	-	604,395

9.2.text.9.i

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY – PLANNING</b>

**OUTPUT : PLANNING**

For text see page 9.2.text.9.ii.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - PLANNING</b>

## OUTPUT : PLANNING (CONTD)

### Description

This includes a broad range of activities aimed at ensuring the sustainable management of the City's water supply system while balancing the demand for water against physical and environmental constraints. Advanced Planning encompasses input into the City Plan, and Regional Plans, Growth and Demand Management Planning, as well as design standards. Asset Management encompasses Capital Expenditure Planning, Operational and Maintenance Planning, Information Systems, Condition Assessment, Water Quality Assurance, and Water Loss Reduction work.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To ensure the sustainable management of water supply assets.</i>	1.1	Maintain an Asset Management Plan in accordance with national standards.	Social
		1.2	<i>Council adoption and commitment to the Asset Management Plan.</i>	Environmental
		1.3	<i>That work as set out in the Improvement Plan of the Asset Management Plan is proceeded with on schedule.</i>	Financial
		1.4	To complete preparation of a Water Supply Strategic Management Plan by June 2003, assuming Ecan has finalised its Christchurch Groundwater Management Plan.	Social Environmental
2.	To ensure appropriate planning is undertaken to adequately provide the water supply needs for new development.	2.1	That scoping documents, design briefs, site procurements and other necessary actions are completed to enable the timely detail design and construction of works outlined in capex programmes to occur on schedule.	Social Environmental Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - PLANNING</b>

**OUTPUT : PLANNING (CONTD)**

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
		2.2	That 95% of subdivision and resource consents requiring water supply input (infrastructure to be vested to Council) are processed within 10 working days of receipt.	Social
3.	To ensure that the issues relating to the Council's requirements are appropriately communicated to Environment Canterbury during their regional planning processes.	3.	That input into ECAN's preparation of the Natural Resources Regional Plan (Water Chapter) relating to water supply is provided in a timely and appropriate manner.	Environmental
4.	<i>To reasonably reduce water loss from pipework and to reduce demand on the underground water source.</i>	4.	<i>Unaccounted for water (leaks, fire fighting, flushing, illegal connections etc) is minimised (target 150 litres/day/connection by June 2006).</i>	Environmental
5.	<i>To confirm that the water delivered to the community is potable.</i>	5.	<i>Water supplied to the community will meet or surpass the NZ Drinking Water Standards with no penalties or fines: Specifically:</i> <ul style="list-style-type: none"> <li>- That microbiological sampling conforms to the requirements of the NZ Drinking Water Standards.</li> <li>- That chemical sampling confirms that the water conforms to the NZ Drinking Water Standards in respect to Constituents of Health Significance.</li> <li>- That a Public Health Risk Management Plan is developed and implemented by 20 June 2003 that complies with the requirements of the proposed amendments to the Health Act (Water Supply Protection Regulations).</li> </ul>	Social Social Social Social
6.	To reconfirm that Christchurch's Water Sources are secure as defined by the NZ Drinking Water Standards. (This greatly affects the amount of water quality sampling required to meet the NZ standards).	6.	That the underground aquifers from which Christchurch draws its water are reconfirmed as secure to that satisfaction of the Ministry of Health by 30 June 2003.	Social



## 9.2.9

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WATER SUPPLY</b>

<b>OUTPUT : PLANNING</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
DIRECT COSTS		
Advanced Planning	156,000	108,000
Consents Internal	44,329	36,448
Regional Water Study	15,000	0
Asset Management - Professional Fees	0	152,000
Water loss reduction	130,000	120,000
Secure Groundwater	0	75,000
Water Supply Bench Marking	9,000	9,000
Other Costs	32,281	179,137
	-----	-----
	386,610	679,585
ALLOCATED COSTS		
Transfer from Allocated Holding Accounts (7.56)% 6.86%	670,545	531,004
Alloc O/Head - Output Corporate Overheads Cost Centre	0	21,804
	-----	-----
TOTAL ALLOCATED COSTS	670,545	552,808
	-----	-----
TOTAL COSTS	1,057,155	1,232,393
REVENUE		
	-----	-----
TOTAL NET COST - PLANNING	1,057,155	1,232,393
	=====	=====
<b>TOTAL NET COST PLANNING - WATER SUPPLY</b>	1,057,155	1,232,393
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WATER SUPPLY</b>

**OUTPUT: PLANNING**

**Description** Planning for the longterm sustainable management of the water supply system and translation of these plans into asset management plans.

**Benefits** This output provides an assurance to Council and the community that the water supply function is being managed & funded for the long term projections and use.

**Strategic Objectives** A3, C1, C4, C5, **CCC Policy** City Plan, Seeking Community views, Water Supply Asset Management Plan

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The general benefit accrue to the future water consumers and the community.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the consumers of water.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Water rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WATER SUPPLY</b>

**OUTPUT : PLANNING**

*Customer Residential Commercial Rural Institutions Grants Total Method*

**Costs and Modifications***Costs*

80.00% General Benefits	-	745,111	182,405	7,924	50,475		985,914 CapValWater
20.00% Direct Benefits	246,479	-	-	-	-		246,479 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<b>Total Costs</b>	<b>246,479</b>	<b>745,111</b>	<b>182,405</b>	<b>7,924</b>	<b>50,475</b>	<b>-</b>	<b>1,232,393</b>

*Modifications*

Transfer User Costs to Rating	(246,479)	186,278	45,601	1,981	12,619		- CapValWater
Non-Rateable	-	-	-	-	-		- 0

<b>Total Modifications</b>	<b>(246,479)</b>	<b>186,278</b>	<b>45,601</b>	<b>1,981</b>	<b>12,619</b>	<b>-</b>	<b>-</b>
----------------------------	------------------	----------------	---------------	--------------	---------------	----------	----------

<b>Total Costs and Modifications</b>	<b>-</b>	<b>931,388</b>	<b>228,006</b>	<b>9,905</b>	<b>63,094</b>	<b>-</b>	<b>1,232,393</b>
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**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	931,388	228,006	9,905	63,094	-	1,232,393
0.00% Uniform Annual Charge		-	-	-			-

<b>Total Funded By</b>	<b>-</b>	<b>931,388</b>	<b>228,006</b>	<b>9,905</b>	<b>63,094</b>	<b>-</b>	<b>1,232,393</b>
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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - SUPPLY OF WATER</b>

## OUTPUT : HEADWORKS

### Description

The primary focus of this is to operate and maintain the water supply pumping, storage facilities so as to balance the supply of water into the reticulation network with total customer demand, while maintaining reliability, quality and other levels of service.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	To ensure supply of suitable potable water into the reticulation is reliably and continuously matched at all times with total customer demand	1.1	Number of unplanned headworks shutdowns resulting in loss of supply to customers for longer than four hours. Target nil.	Social
		1.2	Number of incidents of unplanned headworks shutdowns resulting in loss of supply to customers of less than four hours. Target max 5 per annum.	Social
		1.3	Number of planned shutdowns per annum which result of loss of supply to customers. Target max 5.	Social
		1.4	That maintenance work s set out in the Asset Management Plan and other documents is undertaken.	Social Financial
		1.5	Number of incidents of unsatisfactory water quality as a result of substandard maintenance and operating practices. Target nil.	Social
2.	<i>To ensure headworks facilities are operated within the conditions set out in required consents.</i>	2.	<i>That all monitoring and reporting required by consents for the operation of the facilities is complied with, with no penalties or fines.</i>	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

<b>OUTPUT : HEADWORKS</b>				<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
				<b>\$</b>	<b>\$</b>
<b>DIRECT COSTS</b>					
Control & Operations				1,921,500	1,926,500
Maintenance				844,689	1,029,717
Insurance				132,569	109,221
				-----	-----
				2,898,758	3,065,438
<b>ALLOCATED COSTS</b>					
Transfer from Allocated Holding Accounts (9.54)% 8.78%				845,763	679,551
Alloc O/Head - Output Corporate Overheads Cost Centre				0	124,347
Depreciation				910,000	958,760
Asset Write offs Due To Replacement				130,000	100,000
Debt Servicing				5,057	14,819
				-----	-----
<b>TOTAL ALLOCATED COSTS</b>				1,890,820	1,877,477
				-----	-----
<b>TOTAL COSTS</b>				4,789,578	4,942,915
<b>EXTERNAL REVENUE</b>					
<b>INTERNAL RECOVERIES</b>					
				-----	-----
<b>TOTAL REVENUE</b>				0	0
				-----	-----
<b>TOTAL NET COST - HEADWORKS</b>				4,789,578	4,942,915
				=====	=====
<b>Cost of Capital Employed</b>				3,120,975	3,455,616

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT: HEADWORKS**

**Description** Potable water is abstracted from the underground aquifers and delivered to the reticulation through weels, pumpstations and reservoirs.

**Benefits** Plentiful potable water for domestic and commercial users.

**Strategic Objectives** A3, C1,C4, C5, **CCC Policy**  
E1, E3, G1, G2

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

These arise from the contributions a potable water supply makes to public health and reliability makes to fighting fires.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the consumers of water.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Water rates.

**Control Negative Effects**

## 9.2.funding.10

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT : HEADWORKS**

*Customer Residential Commercial Rural Institutions Grants Total Method*

**Costs and Modifications***Costs*

20.00% General Benefits	-	747,128	182,898	7,945	50,612		988,583 CapValWater
80.00% Direct Benefits	3,954,332	-	-	-	-		3,954,332 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	3,954,332	747,128	182,898	7,945	50,612	-	4,942,915

*Modifications*

Transfer User Costs to Rating	(3,954,332)	2,988,511	731,594	31,781	202,447		- CapValWater
Non-Rateable	-	-	-	-	-		- 0

<i>Total Modifications</i>	(3,954,332)	2,988,511	731,594	31,781	202,447	-	-
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Total Costs and Modifications	-	3,735,638	914,492	39,726	253,059	-	4,942,915
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**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	3,735,638	914,492	39,726	253,059	-	4,942,915
0.00% Uniform Annual Charge		-	-	-			-

Total Funded By	-	3,735,638	914,492	39,726	253,059	-	4,942,915
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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - SUPPLY OF WATER</b>

## OUTPUT : RETICULATION

### Description

The primary focus is to operate and maintain the water supply pipe distribution system so that all customers receive potable water reliably and continuously.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To ensure a reliable continuous supply of potable water is available to all customers at all times.</i>	1.1	Number of unplanned reticulation shutdowns resulting in loss of supply to customers for longer than four hours. Target max 12.	Social
		1.2	<i>That 95% of all reported leaks in the Council's reticulation are repaired within the following schedule:</i> <i>'A' (major/urgent) contractor on site within one hour of leak being reported.</i> <i>'B' (medium magnitude leaks) Leak repaired within one working day.</i> <i>'C' (minor) Fault repaired within three working days.</i>	Environmental
		1.3	That maintenance work as set out in the Asset Management Plan and other documents is undertaken.	Social Financial
		1.4	Number of incidents of unsatisfactory water quality as a result of substandard maintenance and operating practices. (Target nil).	Social
2.	To ensure that pipework damaged by third parties is repaired promptly and that cost of repairs is recovered.	2.1	That all repairs to pipework damaged by third parties are commenced within one hour.	Social
		2.2	That all reasonable endeavours are made to identify those responsible for the damage and to recoup the full cost of repair from them. (Contract Management Reports).	Financial



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

<b>OUTPUT : RETICULATION</b>	<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
	<b>\$</b>	<b>\$</b>
<b>DIRECT COSTS</b>		
Contract Services	65,000	70,000
Maintenance	1,716,850	1,510,000
Rates - Water Infrastructure	596,505	658,078
	-----	-----
<b>TOTAL DIRECT COSTS</b>	<b>2,378,355</b>	<b>2,238,078</b>
<b>ALLOCATED COSTS</b>		
Plan Update - Geodata Charges	11,365	9,344
Transfer from Allocated Holding Accounts (4.52)% 3.30%	400,824	255,186
Alloc O/Head - Output Corporate Overheads Cost Centre	0	173,892
Depreciation	2,935,000	3,138,500
Asset Write off Due to Replacement	620,000	300,000
Debt Servicing	13,608	39,291
	-----	-----
	<b>3,980,797</b>	<b>3,916,213</b>
	-----	-----
<b>TOTAL COSTS - RETICULATION</b>	<b>6,359,152</b>	<b>6,154,291</b>
<b>REVENUE</b>		
External Revenue	72,000	83,000
Internal Recoveries	30,000	30,000
	-----	-----
	<b>102,000</b>	<b>113,000</b>
	-----	-----
<b>TOTAL NET COST - RETICULATION</b>	<b>6,257,152</b>	<b>6,041,291</b>
	=====	=====
<b>Cost of Capital Employed</b>	<b>8,452,650</b>	<b>26,364,925</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT: RETICULATION**

**Description** Potable water is delivered to private property through the reticulation system.

**Benefits** Property owners enjoy a plentiful potable water supply

**Strategic Objectives** A3, C1,C4, C5, **CCC Policy** Water supply - Urban Water Area  
E1, E3, G1, G2

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

These arise from the contributions a potable water supply makes to public health and reliability makes to fighting fires.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the consumers of water.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Water rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT : RETICULATION**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	930,229	227,722	9,892	63,015		1,230,858 CapValWater
80.00% Direct Benefits	4,923,433	-	-	-	-		4,923,433 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	4,923,433	930,229	227,722	9,892	63,015	-	6,154,291
<i>Modifications</i>							
Transfer User Costs to Rating	(4,810,433)	3,635,514	889,982	38,661	246,276		- CapValWater
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(4,810,433)	3,635,514	889,982	38,661	246,276	-	-
<b>Total Costs and Modifications</b>	<b>113,000</b>	<b>4,565,743</b>	<b>1,117,704</b>	<b>48,554</b>	<b>309,292</b>	<b>-</b>	<b>6,154,291</b>

**Funded By**

1.84% User Charges	113,000						113,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
98.16% Capital Value Rating	-	4,565,743	1,117,704	48,554	309,292	-	6,041,291
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>113,000</b>	<b>4,565,743</b>	<b>1,117,704</b>	<b>48,554</b>	<b>309,292</b>	<b>-</b>	<b>6,154,291</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY - SUPPLY OF WATER REVENUE</b>

## **OUTPUT : CAPITAL WORKS REVENUE**

### **Description**

The focus for this is to identify and collect all revenue that is reasonably and legitimately owed to the Council to assist it to install and expand the water supply infrastructure. For accounting reasons this revenue must be accounted for as Operational Revenue and not directly offset against the Capital Expenditure for which the revenue is collected.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To process and collect all fees and charges due when new water connections are installed.	1.	That all standard fees and charges due when new connections are applied for and installed are collected.	Financial
2.	To collect all infrastructure contributions owed to the Council, as a result of private development.	2.	That all contributions (upgrading and cost share) due to the Council in accordance with its policy are identified and collected on schedule.	Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

<b>OUTPUT : CAPITAL WORKS REVENUE</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
EXTERNAL REVENUE		
Cost Share	41,000	95,000
New Connections	620,000	620,000
Development Contribution (System Upgrading) (Note: Transferred to Special Fund)	500,000	550,000
Miscellaneous Revenue	3,000	3,000
	-----	-----
TOTAL EXTERNAL REVENUE	1,164,000	1,268,000
	-----	-----
TOTAL REVENUE	1,164,000	1,268,000
	-----	-----
TOTAL NET COST - CAPITAL WORKS REVENUE	-1,164,000	-1,268,000
	=====	=====
<b>TOTAL NET COST SUPPLY OF WATER - WATER SUPPLY</b>	9,882,730	9,716,207
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT: CAPITAL WORKS REVENUE**

**Description** Revenues from connection charges and developers contributions are credited to revenue and could be matched to capital expenditure

**Benefits** The revenue is separately identified so that the gross costs to operate the wate system is disclosed.

**Strategic Objectives** A3, C1, C4, C5, **CCC Policy** City Plan, Seeking Community views, Urban water supply area.  
E1, E3, G1, G2

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

These are the benefits of the whole system, both Headworks and reticulation

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Water Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the consumers of water.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Water Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Water Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Water rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SUPPLY OF WATER - WATER SUPPLY</b>

**OUTPUT : CAPITAL WORKS REVENUE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
0.00% General Benefits	-	-	-	-	-		- CapValWater
0.00% Direct Benefits	-	-	-	-	-		- TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	-	-	-	-	-	-	-
<i>Modifications</i>							
Transfer User Costs to Rating	1,268,000	(958,299)	(234,594)	(10,191)	(64,917)		0 CapValWater
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	1,268,000	(958,299)	(234,594)	(10,191)	(64,917)	-	0
<b>Total Costs and Modifications</b>	<b>1,268,000</b>	<b>(958,299)</b>	<b>(234,594)</b>	<b>(10,191)</b>	<b>(64,917)</b>	<b>-</b>	<b>0</b>

**Funded By**

116181728 User Charges	1,268,000						1,268,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
- Capital Value Rating	-	(958,299)	(234,594)	(10,191)	(64,917)	-	(1,268,000)
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>1,268,000</b>	<b>(958,299)</b>	<b>(234,594)</b>	<b>(10,191)</b>	<b>(64,917)</b>	<b>-</b>	<b>0</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – SUMMARY</b>

## SUMMARY - WASTEWATER

### OVERALL WASTEWATER

#### Description

The objectives in this section are those that are valid for the overall wastewater activity that do not relate substantially to individual output classes.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To provide the community with safe, convenient and efficient wastewater services.</i>	1.1	<i>90% of customers are satisfied with the wastewater service.</i>	Social
		1.2	<i>90% of customers are satisfied with the value of wastewater service.</i>	Financial
		1.3	<i>Wastewater cost per household per year, (target: \$126 per household</i>	Financial
		1.4	<i>Wastewater services are provided within budget.</i>	Financial
2.	<i>To develop and enhance partnerships with the community and with governing bodies to achieve desired outcomes.</i>	2.1	<i>Wastewater treated per person (litres per person per day on 5 year rolling average is progressively reduced).</i>	Environmental
		2.2	<i>Business commitment to reducing wastewater volumes while improving quality. (Business Association Survey, to be benchmarked in 2001/02).</i>	Environmental
3.	<i>To comply with or surpass legislative requirements and standards.</i>	3.1	<i>All activities to comply with relevant legislation (report exceptions).</i>	Environmental
		3.2	<i>Penalties or fines incurred. (Target: Nil).</i>	Financial



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER SUMMARY</b>

<b>SUMMARY - WASTEWATER</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT CLASS NET COST</b>			
<b>OPERATIONS REVENUE - WASTEWATER</b>			
Tradewaste	Page 9.2.16	(1,414,701)	(1,688,433)
<b>INFORMATION AND ADVICE - WASTEWATER</b>			
Information And Advice	Page 9.2.17	149,615	147,710
<b>PLANNING - WASTEWATER</b>			
Planning	Page 9.2.18	460,438	975,178
<b>COLLECTION - WASTEWATER</b>			
Pumping	Page 9.2.19	2,546,299	2,640,461
Reticulation	Page 9.2.20	5,184,799	5,280,712
Rates - Infrastructural Assets	Page 9.2.21	1,267,976	1,400,457
		-----	-----
		8,999,074	9,321,630
<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>			
Belfast Operations & Maintenance	Page 9.2.22	55,467	81,068
Templeton Operations & Maintenance	Page 9.2.22	110,379	124,227
Christchurch Waste Water Treatment Plant	Page 9.2.23	7,183,602	7,641,077
Capital Works Revenue	Page 9.2.24	(520,000)	(670,000)
		-----	-----
		6,829,448	7,176,372
<b>LABORATORY - WASTEWATER</b>			
Laboratory Services	Page 9.2.25	25,000	25,000
<b>NET RESULT - WASTEWATER</b>		-----	-----
		15,048,873	15,957,457
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER SUMMARY</b>

<b>SUMMARY - WASTEWATER</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT CLASS EXPENDITURE</b>			
<b>OPERATIONS REVENUE - WASTEWATER</b>			
Tradewaste	Page 9.2.16	221,299	347,567
<b>INFORMATION AND ADVICE - WASTEWATER</b>			
Information And Advice	Page 9.2.17	169,615	167,710
<b>PLANNING - WASTEWATER</b>			
Planning	Page 9.2.18	460,438	975,178
<b>COLLECTION - WASTEWATER</b>			
Pumping	Page 9.2.19	2,546,299	2,640,461
Reticulation	Page 9.2.20	5,231,799	5,327,712
Rates - Infrastructural Assets	Page 9.2.21	1,267,976	1,400,457
		-----	-----
		9,046,074	9,368,630
<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>			
Belfast Operations & Maintenance	Page 9.2.22	55,467	81,068
Templeton Operations & Maintenance	Page 9.2.22	110,379	124,227
Christchurch Waste Water Treatment Plant	Page 9.2.23	7,298,202	7,858,677
Capital Works Revenue	Page 9.2.24		
		-----	-----
		7,464,048	8,063,972
<b>LABORATORY - WASTEWATER</b>			
Laboratory Services	Page 9.2.25	151,874	149,627
		-----	-----
<b>TOTAL EXPENDITURE - WASTEWATER</b>		17,513,347	19,072,684
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER SUMMARY</b>

<b>SUMMARY WASTEWATER</b>		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
		<b>\$</b>	<b>\$</b>
<b>OUTPUT CLASS REVENUE</b>			
<b>OPERATIONS REVENUE - WASTEWATER</b>			
Tradewaste	Page 9.2.16	1,636,000	2,036,000
<b>INFORMATION AND ADVICE - WASTEWATER</b>			
Information And Advice	Page 9.2.17	20,000	20,000
<b>PLANNING - WASTEWATER</b>			
Planning	Page 9.2.18	0	0
<b>COLLECTION - WASTEWATER</b>			
Pumping	Page 9.2.19	0	0
Reticulation	Page 9.2.20	47,000	47,000
Rates - Infrastructural Assets	Page 9.2.21	0	0
		-----	-----
		47,000	47,000
<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>			
Belfast Operations & Maintenance	Page 9.2.22		
Templeton Operations & Maintenance	Page 9.2.22		
Christchurch Waste Water Treatment Plant	Page 9.2.23	114,600	217,600
Capital Works Revenue	Page 9.2.24	520,000	670,000
		-----	-----
		634,600	887,600
<b>LABORATORY - WASTEWATER</b>			
Laboratory Services	Page 9.2.25	126,874	124,627
		-----	-----
<b>TOTAL REVENUE - WASTEWATER</b>		2,464,474	3,115,227
		=====	=====
<b>NET RESULT - WASTEWATER</b>		15,048,873	15,957,457
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – OPERATIONS REVENUE</b>

## **OUTPUT : TRADEWASTE**

### **Description**

Identified wastewater connections with discharges containing non-standard constituents that impose additional loading on the treatment of wastewater are regularly monitored. The producers of these effluents are charged additional fees calculated to enable the Council to recover the additional reasonable costs imposed on the system by these customers.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To regularly identify and monitor properties discharging trade waste. Collect, analyse, and process the data required for planning purposes, targeting improving discharge quality and reducing volumes, and to collect revenue owing.	1.1	That all trade waste discharges are monitored in accordance with the schedule.	Financial
		1.2	That all trade waste based revenue due, in accordance with Council policy, is identified and collected.	Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WASTEWATER</b>

	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT : TRADEWASTE</b>		
DIRECT COSTS		
TOTAL DIRECT COSTS	0	0
ALLOCATED COSTS		
Transfer from Allocated Holding Accounts	221,299	341,562
Alloc O/Head - Output Corporate Overheads Cost Centre	0	6,005
TOTAL ALLOCATED COSTS	221,299	347,567
TOTAL COSTS : TRADEWASTE	221,299	347,567
REVENUE		
External Revenue	1,636,000	2,036,000
Internal Revenue	0	0
TOTAL REVENUE : TRADEWASTE	1,636,000	2,036,000
NET RESULT : TRADEWASTE	(1,414,701)	(1,688,433)
Cost of Capital Employed	2,947	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WASTEWATER</b>

**OUTPUT: TRADEWASTE**

*Description* Metering and charging for Industrial liquid waste.

*Benefits* User pays for those who use the service for extraordinary discharge

*Strategic Objectives* A3, B2, C1, C3, *CCC Policy* Tradewaste Charges  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)******General Benefits (Section 112F(b))***

None. All benefits accrue to identifiable users.

*Nature and Distribution of General Benefits****Direct Benefits (Section 112F(c))***

Direct benefits accrue to those trade establishments connected to the system.

***Control Negative Effects (Section 112F(d))******Modifications Pursuant to Section 12***

It is Council policy to moderate the level of direct charging. Costs not collected from users shall be allocated to ratepaying sectors on the basis of capital value.

***Funding of Expenditure Needs Pursuant to Section 122E(1)(c)******General Benefits******Direct Benefits***

Most costs are funded by direct users. The balance shall be funded by capital value rating on properties liable for the sewerage rate.

***Control Negative Effects***

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>OPERATIONS REVENUE - WASTEWATER</b>

**OUTPUT :    TRADEWASTE**

*Customer   Residential   Commercial           Rural   Institutions           Grants           Total Method*

**Costs and Modifications***Costs*

0.00% General Benefits	-	-	-	-	-	-	- 0
100.00% Direct Benefits	347,567	-	-	-	-	-	347,567 TableC
0.00% Negative Effects	-	-	-	-	-	-	- 0
<i>Total Costs</i>	347,567	-	-	-	-	-	347,567

*Modifications*

Transfer User Costs to Rating	1,688,433	(1,269,831)	(326,633)	(6,556)	(85,414)	-	- CapValSewer
Non-Rateable	-	-	-	-	-	-	- 0
<i>Total Modifications</i>	1,688,433	(1,269,831)	(326,633)	(6,556)	(85,414)	-	-

Total Costs and Modifications	2,036,000	(1,269,831)	(326,633)	(6,556)	(85,414)	-	347,567
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**Funded By**

585.79% User Charges	2,036,000						2,036,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
-485.79% Capital Value Rating	-	(1,269,831)	(326,633)	(6,556)	(85,414)	-	(1,688,433)
0.00% Uniform Annual Charge		-	-	-			-

Total Funded By	2,036,000	(1,269,831)	(326,633)	(6,556)	(85,414)	-	347,567
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9.2.text.17.i

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – INFORMATION AND ADVICE</b>

**OUTPUT : INFORMATION AND ADVICE**

For text see page 9.2.text.17.ii.



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – INFORMATION AND ADVICE</b>

## **OUTPUT : INFORMATION AND ADVICE (CONTD)**

### **Description**

An extensive information system (both plans and text) is maintained for wastewater. Information, and advice, is supplied on demand to the public and other Council staff. The Essential Services Customer Information Centre handles the majority of these requests, but non-routine requests often involve site visits and follow up by specialist staff, to resolve.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To provide timely and innovative responses to elected members enquiries, that are customer focused whilst providing clear policy elaboration.	1.	Number of serious negative responses received from elected members. Target nil.	Social
2.	To provide for both elected members and the public, the wastewater section of the Annual Plan that meets corporate best practice objectives.	2.	Wastewater section Annual Plan assessed by Directorate as reflecting corporate best practice.	Social
3.	To respond to requests for printed (plan, brochures etc) information and advice on wastewater related matters in an efficient, friendly and helpful manner.	3.	That 99% of all requests for available printed information are actioned within four working hours.	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – INFORMATION AND ADVICE</b>

**OUTPUT : INFORMATION AND ADVICE (CONTD)**

4.	<i>To respond to enquiries concern wastewater problems. Investigate as appropriate and arrange action when the Council's action is appropriate. advise customer of an appropriate course of action when not a Council issue.</i>	4.1	That all reactive maintenance matters made known to Council are recorded and dispatched to the contractor within 15 minutes of receiving initial report. (Target 98%).	Social Environmental
		4.2	<i>Enquiries are responded to within one working day. If further action is required, investigations are commenced within three working days.</i>	Social
5.	<i>To increase current resolution for requests for information by the customer centre to meet current corporate standards.</i>	5.1	<i>Customer Services Centre staff resolve 80% of requests for information or service at first point of contact.</i>	Social
		5.2	That 95% of calls to Customer Service Centre answered.	Social
		5.3	That 80% of all calls are answered within 20 seconds.	Social
6.	To strengthen relationships between Customer Centre staff, Unit specialists and the community, as well as streamlining processes.	6.1	That Service Level Agreements between the Customer Centre and Unit teams are met.	Social
		6.2	The Customer Centre in conjunction with the Customer Centre Network participates in a monthly customer research programme to determine customer needs and satisfaction with the service, and implements customer driven changes to the service within current resources.	Social
		6.3	Processes identified by customer research, or by performance failures of the Service Level Agreements are reviewed and updated. (Management Report Records).	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WASTEWATER</b>

<b>OUTPUT : INFORMATION AND ADVICE</b>			<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
DIRECT COSTS				
Education Programme			10,000	20,000
TOTAL DIRECT COSTS			10,000	20,000
ALLOCATED COSTS				
Transfer from Allocated Holding Accounts	(1.80)%	1.85%	159,615	143,566
Alloc O/Head - Output Corporate Overheads Cost Centre			0	4,144
TOTAL ALLOCATED COSTS			159,615	147,710
TOTAL COSTS : INFORMATION AND ADVICE			169,615	167,710
REVENUE				
External Revenue			20,000	20,000
Internal Revenue				
TOTAL REVENUE : INFORMATION AND ADVICE			20,000	20,000
NET RESULT : INFORMATION AND ADVICE			149,615	147,710

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WASTEWATER</b>

**OUTPUT: INFORMATION AND ADVICE**

**Description** Provide information about the wastewater system to elected members and the public both on a planned and as requested basis. To process applications and implement Bylaws.

**Benefits** The whole wastewater system benefits from responding to requests for information and developing the awareness of issues.

**Strategic Objectives** A3, C1, C4, C5, **CCC Policy** City Plan, Seeking Community views

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The general benefit arises from increased sensible use of the wastewater system and conservation.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the wastewater Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the users of the wastewater system.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the WasteWater Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from WasteWater Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and wasteWater rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>INFORMATION AND ADVICE - WASTEWATER</b>

**OUTPUT : INFORMATION AND ADVICE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
80.00% General Benefits	-	97,477	26,581	3,576	6,535		134,168 CapValAll
20.00% Direct Benefits	33,542	-	-	-	-		33,542 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	33,542	97,477	26,581	3,576	6,535	-	167,710
<i>Modifications</i>							
Transfer User Costs to Rating	(13,542)	10,185	2,620	53	685		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(13,542)	10,185	2,620	53	685	-	-
<b>Total Costs and Modifications</b>	<b>20,000</b>	<b>107,662</b>	<b>29,201</b>	<b>3,628</b>	<b>7,220</b>	<b>-</b>	<b>167,710</b>

**Funded By**

11.93% User Charges	20,000						20,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
88.07% Capital Value Rating	-	107,662	29,201	3,628	7,220	-	147,710
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>20,000</b>	<b>107,662</b>	<b>29,201</b>	<b>3,628</b>	<b>7,220</b>	<b>-</b>	<b>167,710</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – PLANNING</b>

## OUTPUT : PLANNING

### Description

This includes a broad range of activities aimed at ensuring sustainable management of the City's wastewater system. Advanced Planning encompasses input into the City Plan, Regional Plans, Growth and Demand Management Planning, as well as design standards. Asset Management encompasses Capital Expenditure Planning, Operational & Maintenance Planning, Information Systems, condition assessment, and water inflow reduction work.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To ensure sustainable management of the wastewater assets.</i>	1.1	<i>Maintain an Asset Management Plan in accordance with national standards.</i>	Social
		1.2	<i>Council adoption and commitment to the Asset Management Plan.</i>	Environmental
		1.3	<i>That work as set out in the Improvement Plan of the Asset Management Plan is proceeded with on schedule.</i>	Financial
		1.4	<i>Complete Wastewater Strategic Management Plan by June 2003.</i>	Social
2.	To ensure appropriate planning is undertaken to adequately provide the wastewater needs for new development.	2.1	That scoping documents, design briefs, site procurements and other necessary actions are completed to enable the timely detail design and construction of works outlined in capex programmes to occur on schedule.	Social Environmental Financial
		2.2	That 95% of subdivision and resource consents requiring wastewater input (infrastructure to be vested to Council) are processed within 10 working days of receipt.	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WASTEWATER</b>

<b>OUTPUT : PLANNING</b>			<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
			<b>\$</b>	<b>\$</b>
<b>DIRECT COSTS</b>				
Advanced Planning			40,000	73,000
Asset Management			213,500	426,812
<b>TOTAL DIRECT COSTS</b>			253,500	499,812
<b>ALLOCATED COSTS</b>				
Transfer from Allocated Holding Accounts	(2.00)%	5.79%	176,938	447,974
Alloc O/Head - Output Corporate Overheads Cost Centre			0	5,892
Investigation - City Solutions Charges			15,000	6,500
Property Unit Advice			15,000	15,000
<b>TOTAL ALLOCATED COSTS</b>			206,938	475,366
<b>TOTAL COSTS : PLANNING</b>			460,438	975,178
<b>REVENUE</b>				
External Revenue				
Internal Revenue				
<b>TOTAL REVENUE : PLANNING</b>			0	0
<b>NET RESULT : PLANNING</b>			460,438	975,178

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WASTEWATER</b>

**OUTPUT: PLANNING**

**Description** Planning for the longterm sustainable management of the waste water system and translation of these plans into asset management plans.

**Benefits** This output provides an assurance to Council and the community that the water supply function is being managed & funded for the long term projections and use.

**Strategic Objectives** A3, C1, C4, C5, **CCC Policy** City Plan, Seeking Community views, Wastewater Asset Management Plan

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The general benefit accrue to the future users of the WasteWater system.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

**Direct Benefits (Section 112F(c))**

These accrue from the services to the users of the wastewater service.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the wastewater Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Wastewater Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and Wastewater rates.

**Control Negative Effects**



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>PLANNING - WASTEWATER</b>

**OUTPUT : PLANNING**

*Customer Residential Commercial Rural Institutions Grants Total Method*

**Costs and Modifications***Costs*

80.00% General Benefits	-	586,727	150,921	3,029	39,465		780,143 CapValSewer
20.00% Direct Benefits	195,036	-	-	-	-		195,036 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<b>Total Costs</b>	<b>195,036</b>	<b>586,727</b>	<b>150,921</b>	<b>3,029</b>	<b>39,465</b>	<b>-</b>	<b>975,178</b>

*Modifications*

Transfer User Costs to Rating	(195,036)	146,682	37,730	757	9,866		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0

<b>Total Modifications</b>	<b>(195,036)</b>	<b>146,682</b>	<b>37,730</b>	<b>757</b>	<b>9,866</b>	<b>-</b>	<b>-</b>
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<b>Total Costs and Modifications</b>	<b>-</b>	<b>733,409</b>	<b>188,652</b>	<b>3,786</b>	<b>49,332</b>	<b>-</b>	<b>975,178</b>
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**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	733,409	188,652	3,786	49,332	-	975,178
0.00% Uniform Annual Charge		-	-	-			-

<b>Total Funded By</b>	<b>-</b>	<b>733,409</b>	<b>188,652</b>	<b>3,786</b>	<b>49,332</b>	<b>-</b>	<b>975,178</b>
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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER - COLLECTION</b>

## **OUTPUT : PUMPING**

### **Description**

The primary focus of this is to operate and maintain the wastewater pumping facilities so as to ensure the efficient transportation of wastewater to the Treatment Plants.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To ensure wastewater is suitably transported to the Treatment Plants.	1.1	Number of unplanned shutdowns resulting in overflows, (target nil).	Environmental
		1.2	Number of planned shutdowns per annum result in overflows, (target nil).	Environmental
		1.3	That maintenance work as set out in the Asset Management Plan and other documents is undertaken.	Social Financial
2.	To ensure pumping facilities are operated within the conditions set out in required consents.	2.	That all monitoring and reporting required by consents for the operation of the facilities is complied with.	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

<b>OUTPUT : PUMPING</b>			<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
			<b>\$</b>	<b>\$</b>
DIRECT COSTS				
Control & Operations			501,050	551,200
Maintenance			1,121,000	1,130,000
Depreciation & Finance Charges			9,300	18,110
TOTAL DIRECT COSTS			1,631,350	1,699,310
ALLOCATED COSTS				
Transfer from Allocated Holding Accounts	(5.25)%	5.28%	465,458	408,461
Alloc O/Head - Output Corporate Overheads Cost Centre			0	66,107
Depreciation			398,340	413,340
Asset Write offs Due To Replacement			50,000	50,000
Debt Servicing			1,151	3,243
TOTAL ALLOCATED COSTS			914,949	941,151
TOTAL COSTS : PUMPING			2,546,299	2,640,461
REVENUE				
External Revenue				
Internal Revenue				
TOTAL REVENUE : PUMPING			0	0
NET RESULT : PUMPING			2,546,299	2,640,461
Cost of Capital Employed			681,584	756,180

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT: PUMPING**

*Description* Wastewater is collected and on pumped to the treatment plant

*Benefits* The wastewater system is supplimented with an efficient pumping system.

*Strategic Objectives* A3, B2, C1, C3, *CCC Policy* Asset Management Plan  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)******General Benefits (Section 112F(b))***

These arise from the contributions a wastewater supply makes to public health.

***Nature and Distribution of General Benefits***

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

***Direct Benefits (Section 112F(c))***

These accrue from the services provided to the users of the wastewater service.

***Control Negative Effects (Section 112F(d))******Modifications Pursuant to Section 12***

Allocated to those who pay the wastewater Rate by Capital Value as they are the stakeholders of this function.

***Funding of Expenditure Needs Pursuant to Section 122E(1)(c)******General Benefits***

General Benefits shall be funded from wastewater Rates by Capital Value

***Direct Benefits***

Direct Benefits shall be funded from user charges and wastewater rates.

***Control Negative Effects***

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT : PUMPING**

*Customer Residential Commercial Rural Institutions Grants Total Method*

**Costs and Modifications***Costs*

20.00% General Benefits	-	397,166	102,161	2,050	26,715		528,092 CapValSewer
80.00% Direct Benefits	2,112,369	-	-	-	-		2,112,369 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<b>Total Costs</b>	<b>2,112,369</b>	<b>397,166</b>	<b>102,161</b>	<b>2,050</b>	<b>26,715</b>	<b>-</b>	<b>2,640,461</b>

*Modifications*

Transfer User Costs to Rating	(2,112,369)	1,588,663	408,645	8,202	106,859		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0

<b>Total Modifications</b>	<b>(2,112,369)</b>	<b>1,588,663</b>	<b>408,645</b>	<b>8,202</b>	<b>106,859</b>	<b>-</b>	<b>-</b>
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<b>Total Costs and Modifications</b>	<b>-</b>	<b>1,985,829</b>	<b>510,806</b>	<b>10,252</b>	<b>133,574</b>	<b>-</b>	<b>2,640,461</b>
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**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	1,985,829	510,806	10,252	133,574	-	2,640,461
0.00% Uniform Annual Charge		-	-	-			-

<b>Total Funded By</b>	<b>-</b>	<b>1,985,829</b>	<b>510,806</b>	<b>10,252</b>	<b>133,574</b>	<b>-</b>	<b>2,640,461</b>
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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER - COLLECTION</b>

## OUTPUT : RETICULATION

### Description

The primary focus of this is to operate and maintain the wastewater network system so that all customers receive a wastewater service to the required standards

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To ensure a reliable and continuous sewer service is available to all customers at all times.</i>	1.1	Number of reticulation blockages attended to, (compared with five year rolling average).	Social
		1.2	That maintenance work as set out in the Asset Management Plan and other documents is undertaken.	Social
		1.3	Number of incidents of unsatisfactory odours from collection system, (comparison with three year rolling average).	Social Financial
		1.4	<i>Number of overflows directly entering the waterways or rivers.</i>	Social
2.	To ensure that pipework damaged by third parties is repaired promptly and that cost of repairs is recovered.	2.1	That all repairs to pipework damaged by third parties are commenced within one hour.	Social
		2.2	That all reasonable endeavours are made to identify those responsible for the damage and to recoup the full cost of repair from them (Contract Management Reports).	Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

<b>OUTPUT : RETICULATION</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>DIRECT COSTS</b>			
Contract Services		1,000	1,000
Reactive Maintenance		1,043,000	616,000
Planned Maintenance		293,975	775,220
Depreciation & Finance Charges		170,711	134,388
		-----	-----
<b>TOTAL DIRECT COSTS</b>		<b>1,508,686</b>	<b>1,526,608</b>
<b>ALLOCATED COSTS</b>			
Transfer from Allocated Holding Accounts	(3.66)% 3.71%	324,605	286,928
Alloc O/Head - Output Corporate Overheads Cost Centre		0	141,111
Depreciation		2,461,500	2,490,800
Asset Write offs Due To Replacement		300,000	650,000
Debt Servicing		31,787	73,775
Geodata Internal Charges		571,604	143,989
Subdivision Supervision (City Solutions Charge)		33,617	14,500
		-----	-----
<b>TOTAL ALLOCATED COSTS</b>		<b>3,723,113</b>	<b>3,801,104</b>
		-----	-----
<b>TOTAL COSTS : RETICULATION</b>		<b>5,231,799</b>	<b>5,327,712</b>
<b>REVENUE</b>			
External Revenue		17,000	17,000
Internal Revenue		30,000	30,000
		-----	-----
<b>TOTAL REVENUE : RETICULATION</b>		<b>47,000</b>	<b>47,000</b>
		-----	-----
<b>NET RESULT : RETICULATION</b>		<b>5,184,799</b>	<b>5,280,712</b>
		=====	=====
Cost of Capital Employed		19,635,086	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT: RETICULATION**

*Description* Wastewater is removed from private property by the reticulation system.

*Benefits* Connected properties are provided with a liquid waste disposal system which complies with legal & health standards.

*Strategic Objectives* A3, B2, C1, C3, **CCC Policy** Asset Management Plan  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)******General Benefits (Section 112F(b))***

These arise from the contributions a wastewater disposal system makes to public health .

***Nature and Distribution of General Benefits***

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

***Direct Benefits (Section 112F(c))***

Direct benefits accrue to those connected to the system

***Control Negative Effects (Section 112F(d))******Modifications Pursuant to Section 12***

Allocated to those who pay the Wastewater Rate by Capital Value as they are the stakeholders of this function.

***Funding of Expenditure Needs Pursuant to Section 122E(1)(c)******General Benefits***

General Benefits shall be funded from Wastewater Rates by Capital Value

***Direct Benefits***

Direct Benefits shall be funded from user charges and wastewater rates.

***Control Negative Effects***



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT : RETICULATION**

*Customer Residential Commercial Rural Institutions Grants Total Method*

**Costs and Modifications***Costs*

20.00% General Benefits	-	801,369	206,133	4,137	53,903		1,065,542 CapValSewer
80.00% Direct Benefits	4,262,169	-	-	-	-		4,262,169 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<b>Total Costs</b>	<b>4,262,169</b>	<b>801,369</b>	<b>206,133</b>	<b>4,137</b>	<b>53,903</b>	<b>-</b>	<b>5,327,712</b>

*Modifications*

Transfer User Costs to Rating	(4,215,169)	3,170,130	815,439	16,366	213,235		(0) CapValSewer
Non-Rateable	-	-	-	-	-		- 0

<b>Total Modifications</b>	<b>(4,215,169)</b>	<b>3,170,130</b>	<b>815,439</b>	<b>16,366</b>	<b>213,235</b>	<b>-</b>	<b>(0)</b>
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<b>Total Costs and Modifications</b>	<b>47,000</b>	<b>3,971,499</b>	<b>1,021,572</b>	<b>20,503</b>	<b>267,138</b>	<b>-</b>	<b>5,327,712</b>
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**Funded By**

0.88% User Charges	47,000						47,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
99.12% Capital Value Rating	-	3,971,499	1,021,572	20,503	267,138	-	5,280,712
0.00% Uniform Annual Charge		-	-	-			-

<b>Total Funded By</b>	<b>47,000</b>	<b>3,971,499</b>	<b>1,021,572</b>	<b>20,503</b>	<b>267,138</b>	<b>-</b>	<b>5,327,712</b>
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9.2.text.21

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER - COLLECTION</b>

**OUTPUT : RATES – INFRASTRUCTURAL ASSETS**

For text see pages 9.2.text.19 and 9.2.text.20.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT : RATES - INFRASTRUCTURAL ASSETS</b>		
DIRECT COSTS		
Rates - Wastewater Infrastructure	1,267,976	1,367,538
	-----	-----
TOTAL DIRECT COSTS	1,267,976	1,367,538
ALLOCATED COSTS		
Alloc O/Head - Output Corporate Overheads Cost Centre	0	32,919
	-----	-----
TOTAL ALLOCATED COSTS	0	32,919
	-----	-----
TOTAL COSTS : RATES - INFRASTRUCTURAL ASSETS	1,267,976	1,400,457
REVENUE		
External Revenue		
Internal Revenue		
	-----	-----
TOTAL REVENUE : RATES - INFRASTRUCTURAL ASSETS	0	0
	-----	-----
NET RESULT : RATES - INFRASTRUCTURAL ASSETS	1,267,976	1,400,457
	=====	=====
<b>NET RESULT - COLLECTION - WASTEWATER</b>		
	-----	-----
	8,999,074	9,321,630
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT: RATES - INFRASTRUCTURAL ASSETS**

**Description** This output discloses the CCC and CRC Rates on the reticulation system

**Benefits** Same as for the Reticulation system

**Strategic Objectives** Part of **CCC Policy** Same as for the Reticulation system  
Reticulation  
output.

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

Same as for Sewerage Reticulation.

**Nature and Distribution of General Benefits**

Same as for Sewerage Reticulation.

**Direct Benefits (Section 112F(c))**

Same as for Sewerage Reticulation.

**Control Negative Effects (Section 112F(d))**

Same as for Sewerage Reticulation.

**Modifications Pursuant to Section 12**

Same as for Sewerage Reticulation.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

Same as for Sewerage Reticulation.

**Direct Benefits**

Same as for Sewerage Reticulation.

**Control Negative Effects**

Same as for Sewerage Reticulation.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>COLLECTION - WASTEWATER</b>

**OUTPUT : RATES - INFRASTRUCTURAL ASSETS**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	210,650	54,185	1,087	14,169		280,091 CapValSewer
80.00% Direct Benefits	1,120,366	-	-	-	-		1,120,366 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	1,120,366	210,650	54,185	1,087	14,169	-	1,400,457
<i>Modifications</i>							
Transfer User Costs to Rating	(1,120,366)	842,601	216,739	4,350	56,676		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(1,120,366)	842,601	216,739	4,350	56,676	-	-
<b>Total Costs and Modifications</b>	<b>-</b>	<b>1,053,251</b>	<b>270,923</b>	<b>5,437</b>	<b>70,846</b>	<b>-</b>	<b>1,400,457</b>

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	1,053,251	270,923	5,437	70,846	-	1,400,457
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>-</b>	<b>1,053,251</b>	<b>270,923</b>	<b>5,437</b>	<b>70,846</b>	<b>-</b>	<b>1,400,457</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – TREATMENT AND DISPOSAL</b>

## OUTPUTS

- **BELFAST OPERATIONS AND MAINTENANCE**
- **TEMPLETON OPERATIONS AND MAINTENANCE**
- **CHRISTCHURCH WASTEWATER TREATMENT PLANT**
- **CAPITAL WORKS REVENUE**

## Description

One very substantial Wastewater Treatment Plant (Bromley), and one smaller plant, (Belfast), receive and treat all wastewater before it is released to the environment. The purpose of this output is to ensure that the treatment occurs to the required standards.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>That wastewater is treated and discharged at acceptable environmental standards.</i>	1.1	<i>The risk to wildlife from the treatment plant discharge is minimised (target pollutants in discharge reduced by 75% BOD and 75% suspended solids).</i>	Environmental
		1.2	The treatment plant discharge meets Resource Consent requirements, (Water Quality Standards).	Environmental
2.	<i>To ensure the Treatment Plant is operated in an efficient manner.</i>	2.1	That maintenance work as set out in the Asset Management Plan and other documents is undertaken.	Social Financial
		2.2	<i>Methane emissions into the environment are minimised (target zero flaring of biogas at the Treatment Plant).</i>	Environmental
3.	<i>To ensure the treatment facilities are operated within the conditions set out in required consents.</i>	3.	<i>Discharge air and wastewater quality meets Resource Consent conditions with nil penalties or fines (report by exception).</i>	Environmental
4.	<i>To foster good relationships with neighbours of the Christchurch Wastewater Treatment Plant.</i>	4.	<i>Community engagement plan for Wastewater Treatment Plant is implemented.</i>	Social
5.	To collect all infrastructures contributions owed to the Council as a result of private development.	5.	That all contributions (upgrading and cost share) due to the Council in accordance to its policy are identified and collected on schedule.	Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

				<b>2001/2002</b>	<b>2002/2003</b>
				<b>BUDGET</b>	<b>BUDGET</b>
				<b>\$</b>	<b>\$</b>
<b>OUTPUT : BELFAST OPERATIONS &amp; MAINTENANCE</b>					
DIRECT COSTS					
Plant Site and Grounds Maintenance				20,900	46,500
TOTAL DIRECT COSTS				20,900	46,500
ALLOCATED COSTS					
Transfer from Allocated Holding Accounts (0.39)% 0.43%				34,567	33,128
Alloc O/Head - Output Corporate Overheads Cost Centre				0	1,440
TOTAL ALLOCATED COSTS				34,567	34,568
NET RESULT : BELFAST OPERATIONS & MAINTENANCE				55,467	81,068
<b>OUTPUT : TEMPLETON OPERATIONS &amp; MAINTENANCE</b>					
DIRECT COSTS					
Plant Site and Grounds Maintenance				87,300	0
Plant DeCommission				0	100,000
TOTAL DIRECT COSTS				87,300	100,000
ALLOCATED COSTS					
Rent (Property Unit)				15,996	15,996
Transfer from Allocated Holding Accounts (0.08)% 0.07%				7,083	5,365
Alloc O/Head - Output Corporate Overheads Cost Centre				0	2,866
TOTAL ALLOCATED COSTS				23,079	24,227
NET RESULT : TEMPLETON OPERATIONS & MAINTENANCE				110,379	124,227

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT: BELFAST OPERATIONS & MAINTENANCE**

**Description** Operation of the Belfast treatment plant. Wastewater is treated to an acceptable environmental quality and then discharged.

**Benefits** Users of the service and the community are provided with a environmentally safe service.

**Strategic Objectives** A3, B2, C1, C3, CCC Policy Asset Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

These arise from the contributions a wastewater disposal system makes to public health and protecting the environment.

**Nature and Distribution of General Benefits**

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to those connected to the system.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Allocated to those who pay the Wastewater Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General Benefits shall be funded from Wastewater Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and wastewater rates.

**Control Negative Effects**



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT : BELFAST OPERATIONS & MAINTENANCE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	12,194	3,137	63	820		16,214 CapValSewer
80.00% Direct Benefits	64,855	-	-	-	-		64,855 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	64,855	12,194	3,137	63	820	-	81,068
<i>Modifications</i>							
Transfer User Costs to Rating	(64,855)	48,776	12,546	252	3,281		(0) CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(64,855)	48,776	12,546	252	3,281	-	(0)
<b>Total Costs and Modifications</b>	-	60,970	15,683	315	4,101	-	81,068

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	60,970	15,683	315	4,101	-	81,068
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	-	60,970	15,683	315	4,101	-	81,068

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT: TEMPLETON OPERATIONS & MAINTENANCE**

**Description** Operation of the Templeton treatment plant.. Wastewater is treated to an acceptable environmental quality and then discharged.

**Benefits** Users of the service and the community are provided with a environmentally safe service.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Asset Management Plan  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)***

***General Benefits (Section 112F(b))***

These arise from the contributions a wastewater disposal system makes to public health and protecting the environment.

***Nature and Distribution of General Benefits***

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

***Direct Benefits (Section 112F(c))***

Direct benefits accrue to those connected to the system.

***Control Negative Effects (Section 112F(d))***

***Modifications Pursuant to Section 12***

Allocated to those who pay the Wastewater Rate by Capital Value as they are the stakeholders of this function.

***Funding of Expenditure Needs Pursuant to Section 122E(1)(c)***

***General Benefits***

General Benefits shall be funded from Wastewater Rates by Capital Value

***Direct Benefits***

Direct Benefits shall be funded from user charges and wastewater rates.

***Control Negative Effects***

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT :    TEMPLETON OPERATIONS & MAINTENANCE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	18,686	4,806	96	1,257		24,845 CapValSewer
80.00% Direct Benefits	99,381	-	-	-	-		99,381 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	99,381	18,686	4,806	96	1,257	-	124,227
<i>Modifications</i>							
Transfer User Costs to Rating	(99,381)	74,742	19,226	386	5,027		(0) CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(99,381)	74,742	19,226	386	5,027	-	(0)
Total Costs and Modifications	-	93,428	24,032	482	6,284	-	124,227

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	93,428	24,032	482	6,284	-	124,227
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	-	93,428	24,032	482	6,284	-	124,227

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – TREATMENT AND DISPOSAL</b>

**OUTPUTS (CONTD)**

- **BELFAST OPERATIONS AND MAINTENANCE**
- **TEMPLETON OPERATIONS AND MAINTENANCE**
- **CHRISTCHURCH WASTEWATER TREATMENT PLANT**
- **CAPITAL WORKS REVENUE**

For text see page 9.2.text.22.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

<b>OUTPUT : CHRISTCHURCH WASTE WATER TREATMENT PLANT</b>			<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
			<b>\$</b>	<b>\$</b>
<b>DIRECT COSTS</b>				
Operations			347,889	531,000
Biosolids Preparation			142,183	221,000
Biosolids Application & Reuse			650,000	779,713
Maintenance			401,866	441,026
Biosolids Maintenance			26,174	27,000
Maintenance - Energy Equip			92,463	98,300
Output Overheads			58,150	26,000
<b>TOTAL DIRECT COSTS</b>			<b>1,718,725</b>	<b>2,124,039</b>
<b>ALLOCATED COSTS</b>				
Transfer from Allocated Holding Accounts	(27.82)%	32.11%	2,466,372	2,485,771
Alloc O/Head - Output Corporate Overheads Cost Centre			0	189,476
Rent			210,600	144,540
Depreciation			2,804,750	2,808,750
Asset Write offs Due To Replacement			90,000	90,000
Debt Servicing			7,755	16,101
<b>TOTAL ALLOCATED COSTS</b>			<b>5,579,477</b>	<b>5,734,638</b>
<b>TOTAL COSTS : CHRISTCHURCH WASTE WATER TREATMENT PLANT</b>			<b>7,298,202</b>	<b>7,858,677</b>
<b>REVENUE</b>				
External Revenue			114,600	217,600
Internal Revenue			0	0
<b>TOTAL REVENUE : CHRISTCHURCH WASTE WATER TREATMENT PLANT</b>			<b>114,600</b>	<b>217,600</b>
<b>NET RESULT : CHRISTCHURCH WASTE WATER TREATMENT PLANT</b>			<b>7,183,602</b>	<b>7,641,077</b>
<b>Cost of Capital Employed</b>			<b>352,286</b>	<b>3,754,499</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT: CHRISTCHURCH WASTE WATER TREATMENT PLANT**

**Description** Operation of the Bromley treatment plant. Wastewater is treated to an acceptable environmental quality and then discharged.

**Benefits** Users of the service and the community are provided with a environmentally safe service.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Asset Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)**

**General Benefits (Section 112F(b))**

These arise from the contributions a wastewater disposal system makes to public health and protecting the environment.

*Nature and Distribution of General Benefits*

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to those connected to the system.

**Control Negative Effects (Section 112F(d))**

**Modifications Pursuant to Section 12**

Allocated to those who pay the Wastewater Rate by Capital Value as they are the stakeholders of this function.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)**

**General Benefits**

General Benefits shall be funded from Wastewater Rates by Capital Value

**Direct Benefits**

Direct Benefits shall be funded from user charges and wastewater rates.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT : CHRISTCHURCH WASTE WATER TREATMENT PLANT**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	1,182,065	304,058	6,102	79,510		1,571,735 CapValSewer
80.00% Direct Benefits	6,286,942	-	-	-	-		6,286,942 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	6,286,942	1,182,065	304,058	6,102	79,510	-	7,858,677
<i>Modifications</i>							
Transfer User Costs to Rating	(6,069,342)	4,564,609	1,174,135	23,565	307,033		(0) CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	(6,069,342)	4,564,609	1,174,135	23,565	307,033	-	(0)
<b>Total Costs and Modifications</b>	<b>217,600</b>	<b>5,746,675</b>	<b>1,478,192</b>	<b>29,667</b>	<b>386,543</b>	<b>-</b>	<b>7,858,677</b>

**Funded By**

2.77% User Charges	217,600						217,600
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
97.23% Capital Value Rating	-	5,746,675	1,478,192	29,667	386,543	-	7,641,077
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>217,600</b>	<b>5,746,675</b>	<b>1,478,192</b>	<b>29,667</b>	<b>386,543</b>	<b>-</b>	<b>7,858,677</b>

9.2.text.24

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – TREATMENT AND DISPOSAL</b>

**OUTPUT : CAPITAL WORKS REVENUE**

For text see page 9.2.text.22.



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

<b>OUTPUT : CAPITAL WORKS REVENUE</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
REVENUE		
External Revenue		
- CWTP Capacity Upgrade Connection Charge (1200 new connections @ \$540 each)	500,000	650,000
- Cost Sharing Contributions	20,000	20,000
Internal Revenue		
	-----	-----
<b>TOTAL REVENUE : CAPITAL WORKS REVENUE</b>	<b>520,000</b>	<b>670,000</b>
	-----	-----
<b>NET RESULT : CAPITAL WORKS REVENUE</b>	<b>(520,000)</b>	<b>(670,000)</b>
	=====	=====
	=====	=====
<b>NET RESULT - TREATMENT &amp; DISPOSAL - WASTEWATER</b>	<b>6,829,448</b>	<b>7,176,372</b>
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT: CAPITAL WORKS REVENUE**

**Description** This is revenue earned from developers from 'connection fees' charged. The purpose is to ensure adequate system capacity to cater for present and future urban growth.

**Benefits** Developers are charged their fair share of future costs as a result of introducing more connections.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Asset Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))***Nature and Distribution of General Benefits*

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City as reflected by those who pay general rates.

**Direct Benefits (Section 112F(c))****Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12****Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

The accounting standards require that all revenues including those matched to capital expenditure shall be treated as income. The 'benefits' are therefore 'funded' by capital value rating on properties liable for General rates, as capital value best represents stakeholder interest.

**Direct Benefits****Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>TREATMENT &amp; DISPOSAL - WASTEWATER</b>

**OUTPUT : CAPITAL WORKS REVENUE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
0.00% General Benefits	-	-	-	-	-		- CapValSewer
0.00% Direct Benefits	-	-	-	-	-		- 0
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	-	-	-	-	-	-	-
<i>Modifications</i>							
Transfer User Costs to Rating	670,000	(503,891)	(129,614)	(2,601)	(33,894)		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0
<i>Total Modifications</i>	670,000	(503,891)	(129,614)	(2,601)	(33,894)	-	-
<b>Total Costs and Modifications</b>	<b>670,000</b>	<b>(503,891)</b>	<b>(129,614)</b>	<b>(2,601)</b>	<b>(33,894)</b>	<b>-</b>	<b>-</b>

**Funded By**

0.00% User Charges	670,000						670,000
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
0.00% Capital Value Rating	-	(503,891)	(129,614)	(2,601)	(33,894)	-	(670,000)
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>670,000</b>	<b>(503,891)</b>	<b>(129,614)</b>	<b>(2,601)</b>	<b>(33,894)</b>	<b>-</b>	<b>-</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – LABORATORY SERVICES</b>

## **OUTPUT : LABORATORY SERVICES**

### **Description**

The focus for this is to undertake a range of scientific testing and monitoring tasks, primarily to support the Christchurch Wastewater Treatment Plant operations, but also for a number of other Council activities such as water supply quality testing, river water monitoring and discharge consent monitoring.

<b>Objective for 2002/03</b>		<b>Performance Indicator</b>		<b>TBL Category</b>
1.	To provide scientific support services to the wastewater treatment plants and other Council activities.	1.	Information and advice required supplied in a timely and appropriate manner, (measure number of serious complaints with target nil).	Environmental Social Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>LABORATORY - WASTEWATER</b>

<b>OUTPUT : LABORATORY SERVICES</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
DIRECT COSTS		
Administration Costs	25,000	25,000
TOTAL DIRECT COSTS	25,000	25,000
ALLOCATED COSTS		
Transfer from Allocated Holding Accounts (1.43)% 1.59%	126,874	122,894
Alloc O/Head - Output Corporate Overheads Cost Centre	0	1,733
TOTAL ALLOCATED COSTS	126,874	124,627
TOTAL COSTS : LABORATORY SERVICES	151,874	149,627
REVENUE		
External Revenue	41,747	41,008
Internal Recoveries	85,127	83,619
TOTAL REVENUE : LABORATORY SERVICES	126,874	124,627
NET RESULT : LABORATORY SERVICES	25,000	25,000
Cost of Capital Employed	11,696	
NET RESULT - WASTEWATER	15,048,873	15,957,457

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>LABORATORY - WASTEWATER</b>

**OUTPUT: LABORATORY SERVICES**

*Description* Undertakes analysis of waste water and other samples

*Benefits* Helps to ensure treatment plant is operating to required standards.

*Strategic Objectives* A3, B2, C1, C3, *CCC Policy*  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)******General Benefits (Section 112F(b))***

These arise from the contributions a wastewater disposal system makes to public health and protecting the environment.

***Nature and Distribution of General Benefits***

These accrue to those who are within the serviced area and are therefore liable to the Wastewater Rate

***Direct Benefits (Section 112F(c))***

Direct benefits accrue to those connected to the system

***Control Negative Effects (Section 112F(d))******Modifications Pursuant to Section 12***

Allocated to those who pay the Wastewater Rate by Capital Value as they are the stakeholders of this function.

***Funding of Expenditure Needs Pursuant to Section 122E(1)(c)******General Benefits***

General Benefits shall be funded from Wastewater Rates by Capital Value

***Direct Benefits***

Direct Benefits shall be funded from user charges and wastewater rates.

***Control Negative Effects***

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>LABORATORY - WASTEWATER</b>

**OUTPUT :    LABORATORY SERVICES**

*Customer   Residential   Commercial           Rural   Institutions           Grants           Total Method*

**Costs and Modifications***Costs*

20.00% General Benefits	-	22,506	5,789	116	1,514		29,925 CapValSewer
80.00% Direct Benefits	119,702	-	-	-	-		119,702 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	119,702	22,506	5,789	116	1,514	-	149,627

*Modifications*

Transfer User Costs to Rating	4,925	(3,704)	(953)	(19)	(249)		- CapValSewer
Non-Rateable	-	-	-	-	-		- 0

<i>Total Modifications</i>	4,925	(3,704)	(953)	(19)	(249)	-	-
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Total Costs and Modifications	124,627	18,802	4,836	97	1,265	-	149,627
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**Funded By**

83.29% User Charges	124,627						124,627
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
16.71% Capital Value Rating	-	18,802	4,836	97	1,265	-	25,000
0.00% Uniform Annual Charge		-	-	-			-

Total Funded By	124,627	18,802	4,836	97	1,265	-	149,627
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RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE – SUMMARY</b>

## SOLID WASTE SUMMARY

### OVERALL SOLID WASTE

#### Description

The objectives in this section are those that are valid for the overall solid waste management activity and that do not align within an individual output class.

Objectives for 2002/03		Performance Indicators		TBL category
1.	<i>To provide the community with safe, convenient and efficient waste management services.</i>	1.1	<i>90% of customers are satisfied with the recycling and black bag collection service.</i>	Social
		1.2	<i>80% of customers consider the recycling and black bag collection service delivers value for money.</i>	Financial
		1.3	<i>Average cost of waste management per property, (target: \$126 per household).</i>	Financial
		1.4	<i>Reported incidence of illegal dumping.</i>	Environmental
		1.5	Waste management service delivers value for money.	Financial
		1.6	<i>Waste management services are provided within budget.</i>	Financial
2.	<i>To work with the community to reduce the waste generated in Christchurch through reduction at source, reuse, recycling and composting.</i>	2.1	<i>Kilograms of waste sent to landfill per citizen reduced annually.</i>	Environmental
		2.2	<i>Tonnes of waste sent to landfill annually</i>	Environmental
		2.3	<i>Public commitment to waste minimisation initiatives.</i>	Social
		2.4	<i>Amount spent on waste minimisation activities per citizen, (target: \$15 per person).</i>	Financial
		2.5	<i>Progress towards waste minimisation targets</i>	Environmental
3.	<i>To operate waste management facilities that comply with or surpass legislative requirements and standards.</i>	3.1	<i>Compliance with resource consent conditions as recorded by Environment Canterbury. (Target nil, report exceptions).</i>	Environmental
		3.2	<i>Penalties or fines incurred (Target nil).</i>	Financial



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

<b>NET COST SUMMARY - SOLID WASTE</b>		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>INFORMATION AND ADVICE</b>			
INFORMATION AND ADVICE	Page 9.2.34	41,903	290,385
		-----	-----
		41,903	290,385
<b>PLANNING</b>			
ADVANCED PLANNING			
Future Landfill Investigations	Page 9.2.35	215,206	112,820
Management Strategy	Page 9.2.36	64,567	50,520
Future Planning	Page 9.2.36	94,138	127,752
		-----	-----
		373,912	291,093
<b>WASTE REDUCTION</b>			
COMMERCIAL WASTE REDUCTION	Page 9.2.37	556,755	512,069
		-----	-----
		556,755	512,069
<b>REUSE</b>			
RESOURCE REUSE CENTRES	Page 9.2.38	169,221	159,356
		-----	-----
		169,221	159,356
<b>RECYCLING</b>			
RECYCLING			
Kerbside Recycling Development	Page 9.2.39	2,569,038	2,785,530
RMF	Page 9.2.40	1,214,327	901,752
		-----	-----
		3,783,366	3,687,282

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**NET COST SUMMARY - SOLID WASTE**

		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>RESOURCE RECOVERY</b>			
COMPOST			
City Compost Facility	Page 9.2.41	486,604	271,999
Domestic Composting	Page 9.2.42	120,577	48,726
		-----	-----
		607,181	320,725
<b>RESIDUE DISPOSAL</b>			
COLLECTION OPERATIONS	Page 9.2.43	4,941,767	5,401,787
TRANSFER OPERATIONS			
Metro Place	Page 9.2.44	(211,427)	(233,579)
Parkhouse Road	Page 9.2.45	(99,383)	2,977
Styx Mill	Page 9.2.46	141,420	157,159
DISPOSAL			
Burwood - Non-Hazardous	Page 9.2.47	83,121	175,849
Landfill Aftercare	Page 9.2.48	197,379	176,949
Hazardous Waste Operations	Page 9.2.48	286,956	169,597
		-----	-----
		5,339,834	5,850,739
<b>WASTE MINIMISATION FEE</b>			
WASTE MINIMISATION TIPPING FEE REVENUE	Page 9.2.49	(7,293,600)	(9,433,201)
		-----	-----
		(7,293,600)	(9,433,201)
		-----	-----
<b>TOTAL NET COST SOLID WASTE</b>		<b>3,578,571</b>	<b>1,678,447</b>
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**SOLID WASTE SUMMARY**

		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT CLASS EXPENDITURE INFORMATION AND ADVICE</b>			
INFORMATION AND ADVICE	Page 9.2.34	41,903	290,385
		41,903	290,385
<b>PLANNING</b>			
ADVANCED PLANNING			
Future Landfill Investigations	Page 9.2.35	215,206	112,820
Management Strategy	Page 9.2.36	64,567	50,520
Future Planning	Page 9.2.36	94,138	127,752
		373,912	291,093
<b>WASTE REDUCTION</b>			
COMMERCIAL WASTE REDUCTION	Page 9.2.37	556,855	512,169
		556,855	512,169
<b>REUSE</b>			
RESOURCE REUSE CENTRES	Page 9.2.38	169,221	159,356
		169,221	159,356
<b>RECYCLING</b>			
RECYCLING			
Kerbside Recycling Development	Page 9.2.39	2,569,538	2,786,030
RMF	Page 9.2.40	1,711,327	1,382,752
		4,280,866	4,168,782

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**EXPENDITURE SUMMARY SOLID WASTE**

		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>RESOURCE RECOVERY</b>			
COMPOST			
City Compost Facility	Page 9.2.41	1,840,660	1,958,952
Domestic Composting	Page 9.2.42	121,077	49,226
		-----	-----
		1,961,737	2,008,178
<b>RESIDUE DISPOSAL</b>			
COLLECTION OPERATIONS	Page 9.2.43	5,541,817	6,066,837
TRANSFER OPERATIONS			
Metro Place	Page 9.2.44	1,574,585	1,496,086
Parkhouse Road	Page 9.2.45	2,396,947	2,480,050
Styx Mill	Page 9.2.46	1,324,632	1,263,154
DISPOSAL			
Burwood - Non-Hazardous	Page 9.2.47	2,654,870	2,711,421
Landfill Aftercare	Page 9.2.48	197,379	176,949
Hazardous Waste Operations	Page 9.2.48	286,956	289,597
		-----	-----
		13,977,187	14,484,094
<b>WASTE MINIMISATION FEE</b>			
WASTE MINIMISATION TIPPING FEE REVENUE	Page 9.2.49	0	0
		-----	-----
		0	0
		-----	-----
<b>TOTAL EXPENDITURE SOLID WASTE</b>		<b>21,361,680</b>	<b>21,914,056</b>
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**SOLID WASTE SUMMARY**

**2001/2002  
BUDGET**  
\$

**2002/2003  
BUDGET**  
\$

**OUTPUT CLASS REVENUE****WASTE REDUCTION**

COMMERCIAL WASTE REDUCTION

Page 9.2.37

100

100

-----  
100-----  
100**REUSE**

RESOURCE REUSE CENTRES

Page 9.2.38

0

0

-----  
0-----  
0**RECYCLING**

RECYCLING

Kerbside Recycling Development

Page 9.2.39

500

500

*RMF*

Page 9.2.40

497,000

481,000

-----  
497,500-----  
481,500**RESOURCE RECOVERY**

COMPOST

City Compost Facility

Page 9.2.41

1,354,056

1,686,953

Domestic Composting

Page 9.2.42

500

500

-----  
1,354,556-----  
1,687,453

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**REVENUE SUMMARY SOLID WASTE**Notes**2001/2002  
BUDGET  
\$****2002/2003  
BUDGET  
\$****RESIDUE DISPOSAL**

## COLLECTION OPERATIONS

Page 9.2.43

600,050

665,050

## TRANSFER OPERATIONS

Metro Place

Page 9.2.44

1,786,012

1,729,665

Parkhouse Road

Page 9.2.45

2,496,330

2,477,073

Styx Mill

Page 9.2.46

1,183,212

1,105,995

## DISPOSAL

Burwood - Non-Hazardous

Page 9.2.47

**(1)**

2,571,749

2,535,572

Landfill Aftercare

Page 9.2.48

0

0

Hazardous Waste Operations

Page 9.2.48

0

120,000

-----  
8,637,353-----  
8,633,355

For Notes see page Page 9.2.32

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

<b>REVENUE SUMMARY SOLID WASTE</b>		<u>Notes</u>	<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
<b>WASTE MINIMISATION FEE</b>			<b>\$</b>	<b>\$</b>
WASTE MINIMISATION TIPPING FEE REVENUE	Page 9.2.49	(2)	7,293,600	9,433,201
			-----	-----
			7,293,600	9,433,201
			-----	-----
TOTAL REVENUE SOLID WASTE			17,783,109	20,235,609
			-----	-----
TOTAL NET COST SOLID WASTE			3,578,571	1,678,447
			=====	=====

**(1) Burwood Landfill Stage 2C Aftercare Special Fund**

The Council has a \$14m financial liability for closed landfill aftercare. This is shown in the Councils financial plan and programme document but not in City Water & Waste budget other than the amounts noted on Page 9.2.47 & Page 9.2.48 all as resolved by the Council in 26 April 1999 budget meeting.

**(2) Waste Minimisation and Sustainability Fund**

The proposed ramping up of tipping fees over the next three years so as to smooth the increase required for the new landfill will generate surplus funds. These funds are being utilised for waste minimisation projects both operating and Capital in nature.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE SUMMARY</b>

**SPECIAL FUND TRANSFERS - SOLID WASTE**

**2001/2002**  
**BUDGET**  
**\$**

**2002/2003**  
**BUDGET**  
**\$**

**Burwood Landfill Aftercare Stage 2C Special Fund**

## APPROPRIATIONS (TRANSFERS TO)

Burwood Landfill After Care Reserve

(745,500)

(721,500)

TOTAL REVENUE

(745,500)

(721,500)

## FINANCE PROVIDED (TRANSFERS FROM)

TOTAL EXPENDITURE

0

0

TOTAL NET TRANSFERS BURWOOD LANDFILL AFTERCARE STAGE 2C SPECIAL FUND

(745,500)

(721,500)



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE – INFORMATION &amp; ADVICE</b>

## OUTPUT : INFORMATION AND ADVICE

### Description

An extensive range of solid waste related information is maintained and supplied to the public and other council staff. The Essential Services Customer Information Centre handles the majority of these requests, but resolving non-routine requests often involves follow up by specialist staff. Effort is also expended to raise waste minimisation awareness to achieve social, environmental and economic goals.

Democratic Processes and Consultation embodies the provision of information to elected members. Includes committee reporting, preparing and reporting on the Annual Plan, and consultation with stakeholders and partners.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	To provide elected members with timely and innovative reporting and responses that are customer focused whilst providing clear policy elaboration.	1.	Number of elected member responses received with a target of nil serious negative reports.	Social
2.	To provide for both elected members and the public, the waste management section of the Annual Plan that meets corporate best practice objectives.	2.	Waste management section Annual Plan assessed by directorate as reflecting corporate best practice.	Social
3.	To respond to requests for printed information (e.g. brochures, plans) and advice on solid waste related matters in an efficient, friendly and helpful manner.	3.	That 99% of all requests for available printed information are actioned within 4 working hours.	Social
4.	<i>To respond to enquires concerning solid waste problems in an efficient, friendly and helpful manner, including arranging Council action where appropriate or providing customer advice when Council action is not required.</i>	4.	<i>Enquires are responded to within 1 working day. If further action is required, investigations are commenced within 3 working days.</i>	Social Environmental
5.	<i>To increase the current resolution of requests for information by the Customer Information Centre to meet current corporate standards.</i>	5.1	<i>Customer Information Centre resolves 80% of requests for information or service at first point of contact.</i>	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE – INFORMATION &amp; ADVICE</b>

**OUTPUT : INFORMATION AND ADVICE (CONTD)**

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
		5.2	95% of calls to Customer Information Centre are answered.	Social
		5.3	80% of all calls are answered with 20 seconds.	Social
6.	To strengthen relationships between the Customer Information Centre staff, unit specialists, and the community, as well as streamlining processes.	6.1 6.2 6.3	That Service Level Agreements between the Customer Centre and Unit teams are met. The Customer Centre in conjunction with the Customer Centre Network participates in a monthly customer research programme to determine customer needs and satisfaction with the service, and implements customer driven changes to the service within current resources. Processes identified by customer research, or by performance failures of the Service Level Agreements are reviewed and updated.	Social Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE INFORMATION AND ADVICE</b>

**OUTPUT : INFORMATION AND ADVICE****2001/2002  
BUDGET****2002/2003  
BUDGET**

## DIRECT COSTS

General Promotion

20,000

20,000

-----  
20,000-----  
20,000

## ALLOCATED COSTS

Transfer from Allocated Holding Accounts

(0.25)%

3.49%

21,903

270,385

-----  
21,903-----  
270,385

## TOTAL COST

-----  
41,903-----  
290,385

## REVENUE

## TOTAL NET COST INFORMATION AND ADVICE

-----  
41,903-----  
290,385**TOTAL NET COST INFORMATION AND ADVICE**

=====

=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE INFORMATION AND ADVICE</b>

**OUTPUT: INFORMATION AND ADVICE**

**Description** Provide information and advice to the public and the organisation about Solid Waste collection and disposal including recycling promotion.

**Benefits** The serviced community is provided with advice on solid waste matters and the public generally are advised on waste minimisation issues.

**Strategic Objectives** A3, B2, C1, C3, C4, D3, E1, E3, G1  
**CCC Policy** Seeking Community Views Policy

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

Council has a statutory obligation to provide solid waste services and as such the community requires information both on the services supplied and waste minimisation issues. These are seen as general benefits.

**Nature and Distribution of General Benefits**

General benefits accrue to all ratepayers.

**Direct Benefits (Section 112F(c))**

Waste collection services are a direct benefit to serviced properties.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

It is council policy to fund the net cost of the solid waste function from capital value rating. The information and advice is but one component.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General benefits shall be funded by capital value rating on properties liable for general rates as capital value best represents stakeholder interest in the city.

**Direct Benefits**

Most of the requests are by telephone and/or require but a brief response. Charging is not practical. Direct benefits shall therefore be funded by capital value rates on properties liable for the General Rate.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE INFORMATION AND ADVICE</b>

**OUTPUT : INFORMATION AND ADVICE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
80.00% General Benefits	-	168,779	46,024	6,191	11,314		232,308 CapValAll
20.00% Direct Benefits	58,077	-	-	-	-		58,077 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	58,077	168,779	46,024	6,191	11,314	-	290,385
<i>Modifications</i>							
Transfer User Costs to Rating	(58,077)	42,195	11,506	1,548	2,829		0 CapValAll
Non-Rateable	-	10,801	2,945	396	(14,143)		- CapValGen
<i>Total Modifications</i>	(58,077)	52,996	14,451	1,944	(11,314)	-	0
Total Costs and Modifications	-	221,775	60,475	8,135	-	-	290,385

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	221,775	60,475	8,135	-	-	290,385
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	-	221,775	60,475	8,135	-	-	290,385

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE –PLANNING</b>

## OUTPUT : ADVANCED PLANNING

### Description

This output encompasses the development and maintenance of strategies, policy and plans related to the management of solid and hazardous waste including:

- The maintenance of an overarching Solid and Hazardous Waste Management Plan Parts 1 & 2, promoting source reduction, reuse, recycling, resource recovery and environmentally safe residue disposal.
- Developing annual action plans to achieve objectives in the Waste Management Plan.
- Conducting waste composition analyses regularly to measure progress.
- Comment on City and Regional Plans as required.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To ensure appropriate planning and community engagement is undertaken to adequately provide for the management of solid and hazardous waste.</i>	1.1	<i>Successful community engagement and participation in the planning process (narrative).</i>	Social Environmental Financial
		1.2	Part 1 of the Solid and Hazardous Waste Management Plan is reviewed every 3-5 years.	
		1.3	Part 2 of the Solid & Hazardous Waste Management Plan is reviewed annually.	
2.	To provide direction to and coordinate solid waste communication initiatives carried out by the Council.	2.	To finalise and start implementing a comprehensive Solid Waste Management Communication Strategy.	Social
3.	Positive contributions are made towards regional waste minimisation initiatives.	3.	Total waste production in the Canterbury Region (Tonnes of waste to landfill per person).	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE PLANNING</b>

**OUTPUT : ADVANCED PLANNING****Sub Output : Canterbury Waste Sub-Committee Support****DIRECT COSTS**

Professional Fees

75,700

50,000

Community Participation Fund

75,700

0

Host Support Fund (Hurunui)

20,000

30,000

**TOTAL DIRECT COSTS**

171,400

80,000

**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts (0.49)%

0.30%

43,806

23,112

Alloc O/Head - Output Corporate Overheads Cost Centre

0

9,708

**TOTAL ALLOCATED COSTS**

43,806

32,820

**TOTAL NET COST FUTURE LANDFILL INVESTIGATIONS**

215,206

112,820

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE –PLANNING</b>

**OUTPUT : ADVANCED PLANNING (CONTD)**

For text see page 9.2.text.35.



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE PLANNING</b>

**OUTPUT : ADVANCED PLANNING**

**2001/2002**  
**BUDGET**  
**\$**

**2002/2003**  
**BUDGET**  
**\$**

**Sub Output : Management Strategy Development****DIRECT COSTS**

Operating Costs

12,000	12,000
--------	--------

**TOTAL DIRECT COSTS**

12,000	12,000
--------	--------

**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts (0.59)% 0.50%

52,567	38,520
--------	--------

**TOTAL NET COST MANAGEMENT STRATEGY DEVELOPMENT**

64,567	50,520
--------	--------

**Sub Output : Future Planning****DIRECT COSTS**

Operating Costs

35,000	38,000
--------	--------

**TOTAL DIRECT COSTS**

35,000	38,000
--------	--------

**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts (0.67)% 1.16%

59,138	89,752
--------	--------

**TOTAL ALLOCATED COSTS**

59,138	89,752
--------	--------

**TOTAL NET COST FUTURE PLANNING**

94,138	127,752
--------	---------

**TOTAL NET COST ADVANCED PLANNING**

373,912	291,093
---------	---------

**TOTAL NET COST PLANNING**

373,912	291,093
---------	---------

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE PLANNING</b>

**OUTPUT: ADVANCED PLANNING**

**Description** Development of long term strategies, including planning for future land fill sites and maintenance of a waste management plan.

**Benefits** Provides for future planning for solid waste management to meet the city's ongoing needs.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

Such planning is of general benefit to the whole City. The entire benefit is assessed as general.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))****Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12****Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

These shall be funded by capital value rating on properties liable for the general rate as capital value best represents stakeholder interest.

**Direct Benefits****Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE PLANNING</b>

**OUTPUT :    ADVANCED PLANNING**

*Customer   Residential   Commercial           Rural   Institutions           Grants           Total Method*

**Costs and Modifications***Costs*

100.00% General Benefits	-	211,488	57,670	7,758	14,177		291,093 CapValAll
0.00% Direct Benefits	-	-	-	-	-		- 0
0.00% Negative Effects	-	-	-	-	-		- 0

<i>Total Costs</i>	-	211,488	57,670	7,758	14,177	-	291,093
--------------------	---	---------	--------	-------	--------	---	---------

*Modifications*

Transfer User Costs to Rating	-	-	-	-	-		- 0
Non-Rateable	-	10,828	2,953	397	(14,177)		- CapValGen

<i>Total Modifications</i>	-	10,828	2,953	397	(14,177)	-	-
----------------------------	---	--------	-------	-----	----------	---	---

Total Costs and Modifications	-	222,315	60,622	8,155	-	-	291,093
-------------------------------	---	---------	--------	-------	---	---	---------

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	222,315	60,622	8,155	-	-	291,093
0.00% Uniform Annual Charge		-	-	-			-

Total Funded By	-	222,315	60,622	8,155	-	-	291,093
-----------------	---	---------	--------	-------	---	---	---------

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE – REDUCTION</b>

## **OUTPUT : COMMERCIAL WASTE REDUCTION**

### **Description**

Target Zero is a waste minimisation initiative working with businesses to reduce environmental impacts through resource, energy and process efficiency; waste minimisation; and environmental management and risk reduction. Target Zero is an ongoing programme including waste reduction demonstration programmes, information/support to encourage businesses to reduce waste and the development of networks to support this programme and distribute information.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To develop a commitment for positive environmental action by increasing the awareness and priority of environmental issues among the leaders and staff of key businesses.	1.1	Business commitment to waste minimisation progressively increases.	Social
		1.2	Tonnes of waste sent to landfill from Christchurch businesses.	Environmental
2.	To create a demand for and supply of skills, technologies and services that reduce the environmental impact of businesses through: <ul style="list-style-type: none"> <li>• Resource, energy and process efficiency;</li> <li>• Waste minimisation; and</li> <li>• Environmental management and risk reduction.</li> </ul>	2.	Proportion of Target Zero income from commercial sources.  Reduction in outputs (waste to landfill and sewer). Reductions in inputs (raw materials energy and water consumption).	Financial
3.	To advocate policy, legislation, requirements and controls that improves the environmental performance of business.	3.	Target Zero involvement in advocacy events and projects (Narrative).	Social Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REDUCTION</b>

**OUTPUT : COMMERCIAL WASTE REDUCTION**

		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
<b>DIRECT COSTS</b>			
Reduce Environmental Impact of Businesses		0	293,000
Shaping the Future		0	74,000
Commercial Waste Minimisation Programme		145,000	0
Target Zero Project		40,000	0
Increase Business Awareness & Commitment		0	98,000
Programme Evaluation, Planning & Reporting		4,000	20,000
Redesigning Resources Conference		25,000	0
		-----	-----
		214,000	485,000
<b>ALLOCATED COSTS</b>			
Transfer from Allocated Holding Accounts	(0.37)% 0.16%	32,855	12,712
Alloc O/Head - Output Corporate Overheads Cost Centre		0	14,457
Allocated O/Head - City Solutions		310,000	0
		-----	-----
		342,855	27,169
		-----	-----
<b>TOTAL COST</b>		556,855	512,169
<b>REVENUE</b>			
External Revenue		100	100
		-----	-----
<b>TOTAL NET COMMERCIAL WASTE REDUCTION</b>		556,755	512,069
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REDUCTION</b>

**OUTPUT: COMMERCIAL WASTE REDUCTION**

**Description** Working with the commercial sector to reduce amounts of solid waste dumped.

**Benefits** Reduced waste to landfill and more efficient use of waste stream from participating businesses with more sustainable use of resources.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The amenity of the City is enhanced, and the ultimate costs of land fill to all users decreased by the reduction of volumes in the waste stream. The net general benefit is assessed at 50%.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to businesses which participate in the programme.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Charging commercial premises would be a dis-incentive to participate in the programme. Funds for the programme come from the Waste Minimisation Levy payable on all refuse.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits****Direct Benefits**

Costs of direct benefits are to ratepaying sectors on the basis of capital value.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REDUCTION</b>

**OUTPUT : COMMERCIAL WASTE REDUCTION**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
50.00% General Benefits	-	186,053	50,734	6,825	12,472		256,084 CapValAll
50.00% Direct Benefits	256,084	-	-	-	-		256,084 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	256,084	186,053	50,734	6,825	12,472	-	512,169
<i>Modifications</i>							
Transfer User Costs to Rating	(255,984)	185,981	50,714	6,822	12,467		- CapValAll
Non-Rateable	-	19,047	5,194	699	(24,940)		- CapValGen
<i>Total Modifications</i>	(255,984)	205,028	55,908	7,521	(12,472)	-	-
Total Costs and Modifications	100	391,081	106,643	14,345	-	-	512,169

**Funded By**

0.02% User Charges	100						100
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
99.98% Capital Value Rating	-	391,081	106,643	14,345	-	-	512,069
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	100	391,081	106,643	14,345	-	-	512,169

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REUSE</b>

## **OUTPUT : RESOURCE REUSE CENTRES**

### **Description**

Recycling centres for dropping off any household items/materials that can be reused are provided at Parkhouse Road, Metro Place and Styx Mill Road. Materials are then resold at a separate facility at Pages Road. The recycling centres are operated in conjunction with the refuse stations to allow diversion of reusable items/materials from the waste stream arriving at the refuse stations. The Recovered Materials Foundation manages both the recycling centres and selling facility.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To uplift, sort, pack and transport to Supershed for sale, recyclable and reusable materials from domestic vehicles.	1.1	Tonnage of material taken to Supershed.	Environmental
		1.2	Gross sales levels at Supershed.	Financial
		1.3	Tonnage of reject material returned to refuse stations	Environmental
2.	The Supershed offers a shopping experience that gives value for money, and creates a completely new appreciation of reuse by the public.	2.	80% of Supershed customers are satisfied with its value for money and service.	Social Environmental
3.	To create local employment opportunities through increasing value added products and processes.	3.	Number of employees at Supershed.	Social



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REUSE</b>

**OUTPUT : RESOURCE REUSE CENTRES**

		<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
DIRECT COSTS			
Management by RMF (Net Cost)		162,650	152,651
ALLOCATED COSTS			
Transfer from Allocated Holding Accounts	(0.07)% 0.03%	6,571	2,311
Alloc O/Head - Output Corporate Overheads Cost Centre		0	4,393
		-----	-----
TOTAL COSTS		169,221	159,356
REVENUE			
External Revenue		0	0
		-----	-----
TOTAL NET COST RESOURCE REUSE CENTRES		169,221	159,356
		=====	=====
		-----	-----
<b>TOTAL NET COST RESOURCE REUSE CENTRES</b>		169,221	159,356
		=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REUSE</b>

**OUTPUT: RESOURCE REUSE CENTRES**

**Description** Providing support to the Recovered Materials Foundation to manage the recovery of resources from the rubbish stream at the transfer stations. This is the net cost of RMF.

**Benefits** Reduced waste to landfill and more sustainable use of resources.

**Strategic Objectives** A3, B2, C1, C3, C4, D3, E1, E3, G1  
**CCC Policy** Solid Waste Management Plan

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The cost of the service is considered to be general benefit, in that the city as a whole benefits from a reduced rubbish stream.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))****Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

None necessary.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

These shall be funded by capital value rating on properties liable for the general rate as capital value best represents stakeholder interest.

**Direct Benefits**

These shall be funded by sales of materials.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REUSE</b>

**OUTPUT :    RESOURCE REUSE CENTRES**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
100.00% General Benefits	-	115,777	31,571	4,247	7,761		159,356 CapValAll
0.00% Direct Benefits	-	-	-	-	-		- 0
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	-	115,777	31,571	4,247	7,761	-	159,356
<i>Modifications</i>							
Transfer User Costs to Rating	-	-	-	-	-		- 0
Non-Rateable	-	5,927	1,616	217	(7,761)		- CapValGen
<i>Total Modifications</i>	-	5,927	1,616	217	(7,761)	-	-
Total Costs and Modifications	-	121,704	33,187	4,464	-	-	159,356

**Funded By**

0.00% User Charges	-						-
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
100.00% Capital Value Rating	-	121,704	33,187	4,464	-	-	159,356
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	-	121,704	33,187	4,464	-	-	159,356

9.2.text.39

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE REUSE</b>

**OUTPUT : RECYCLING (KERBSIDE AND RMF)**

For text see page 9.2.text.40.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RECYCLING</b>

**OUTPUT : RECYCLING (KERBSIDE AND RMF)**

**2001/2002**  
**BUDGET**  
**\$**

**2002/2003**  
**BUDGET**  
**\$**

**Sub Output : Kerbside Recycling Collection****DIRECT COSTS**

Contract Operations (Net cost)

2,303,000

2,524,249

Promotion and Instruction

85,000

85,000

Replacement and Extra Bins

27,000

33,000

Solid - Kerbside Collection of Domestic Putrescibles (Trial)

45,000

0

**TOTAL DIRECT COSTS**

2,460,000

2,642,249

**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts (1.24)%

0.45%

109,538

34,668

Alloc O/Head - Output Corporate Overheads Cost Centre

0

109,112

109,538

143,781

**TOTAL COSTS RECYCLING COLLECTION**

2,569,538

2,786,030

**REVENUE**

External Revenue

500

500

**TOTAL NET COST KERBSIDE RECYCLING COLLECTION**

2,569,038

2,785,530

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RECYCLING</b>

### **OUTPUT : RECYCLING (KERBSIDE AND RMF)**

#### **Description –Kerbside:**

Recycling operations including a kerbside recycling collection service for the domestic sector (including residents in the Central Business District), recycling centres at the three refuse stations (managed by the Recovered Materials Foundation) and funding and support of the Recovered Materials Foundation.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	<i>To deliver sorted uncontaminated kerbside recyclable materials to the Recovered Materials Foundation.</i>	1.1	The number of quality related complaints made by the Recovered Materials Foundation on receiving kerbside recycled materials (target less than 12).	Financial
		1.2	<i>Kilograms of kerbside recyclables collected/household/week, (target: 2.4kg per household/week).</i>	Environmental

#### **Description - Recovered Materials Foundation (RMF)**

The Recovered Materials Foundation accepts delivery of recyclable materials collected from the kerbside and either sells them into the market place or adds value, in which instance employment opportunities are created, in partnership with industry. The funding provided by the Council is the net operating cost for this operation. Site Operations include material processing costs and expected sales revenue. Consultants and industry liaison includes international linkage costs. The Materials Equalisation and Retained Reserve is as per the operating contract between the Council and Recovered Materials Foundation.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To accept delivery of, process, and market the materials from the Council Kerbside Recycling Scheme.	1.1	Total gross sales for the year.	Financial
		1.2	Tonnage of materials sold.	Environmental
2.	To increase utilisation of the waste exchange service.	2.1	Number of successful contacts made through waste exchange service.	Social
		2.2	Number of material types accepted by the waste exchange service.	Environmental
3.	To create local employment opportunities through development of new markets and processes.	3.	Number of people employed in Recovered Materials Foundation related activities.	Social

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RECYCLING</b>

**OUTPUT : RECYCLING (KERBSIDE AND RMF)****2001/2002  
BUDGET****2002/2003  
BUDGET****Sub Output : Recovered Materials Foundation (RMF)****DIRECT COSTS**

RMF Operating

1,147,900

847,900

Business Development Fund

497,000

481,000

Regional Waste Minimisation Initiative

50,000

50,000

-----  
1,694,900-----  
1,378,900**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts

(0.19)%

0.05%

16,427

3,852

**TOTAL DIRECT COSTS**-----  
1,711,327-----  
1,382,752**REVENUE**

External Revenue -Business Development Funding

427,000

411,000

Internal Revenue - Business Development Funding

70,000

70,000

**TOTAL NET COST RMF**-----  
1,214,327-----  
901,752

=====

**TOTAL NET COST RECYCLING**-----  
3,783,366-----  
3,687,282

=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RECYCLING</b>

**OUTPUT: RECYCLING**

**Description** Kerbside recycling service and includes collection and delivery of materials to the Recovered Materials Foundation (RMF) , and processing ,sale of goods, research and development of local markets carried out by the RMF.

**Benefits** Reduced waste to landfill and more sustainable use of resources. Provides some employment.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

General benefits accrue to the community by minimising the waste stream, and directing that which can be extracted to alternative uses. Direct benefits accrue to those who deposit rubbish at the transfer station as contained in other outputs. The balance of the cost of the service is considered to be general benefit, in that the city as a whole benefits from a reduced rubbish stream.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to those who purchase materials from the waste stream.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

None necessary.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

These shall be funded by the waste minimisation levy payable on all refuse received. At Councils refuse stations. Any residual is funded by capital value rating on properties liable for the general rate as capital value best represents stakeholder interest.

**Direct Benefits**

These shall be funded by sales of materials.

**Control Negative Effects**



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RECYCLING</b>

**OUTPUT : RECYCLING**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
50.00% General Benefits	-	1,514,375	412,949	55,548	101,518		2,084,391 CapValAll
50.00% Direct Benefits	2,084,391	-	-	-	-		2,084,391 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	2,084,391	1,514,375	412,949	55,548	101,518	-	4,168,782
<i>Modifications</i>							
Transfer User Costs to Rating	(1,602,891)	1,164,550	317,557	42,717	78,067		0 CapValAll
Non-Rateable	-	137,154	37,400	5,031	(179,585)		- CapValGen
<i>Total Modifications</i>	(1,602,891)	1,301,704	354,957	47,748	(101,518)	-	0
Total Costs and Modifications	481,500	2,816,079	767,907	103,296	-	-	4,168,782

**Funded By**

11.55% User Charges	481,500						481,500
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
88.45% Capital Value Rating	-	2,816,079	767,907	103,296	-	-	3,687,282
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	481,500	2,816,079	767,907	103,296	-	-	4,168,782

9.2.text.41

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

**OUTPUT : COMPOSTING**

For text see page 9.2.text.42.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

**OUTPUT : COMPOSTING**

		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
		<b>\$</b>	<b>\$</b>
<b>Sub Output : City Compost Facility</b>			
<b>DIRECT COSTS</b>			
Operating Costs		1,502,496	1,674,810
		-----	-----
		1,502,496	1,674,810
<b>ALLOCATED COSTS</b>			
Transfer from Allocated Holding Accounts	(3.09)% 2.32%	273,789	179,505
Alloc O/Head - Output Corporate Overheads Cost Centre		0	49,762
Alloc O/head - Rent		49,200	49,200
Depreciation		15,000	5,500
Debt Servicing		175	175
		-----	-----
<b>TOTAL ALLOCATED COSTS</b>		338,164	284,142
		-----	-----
<b>TOTAL COSTS</b>		1,840,660	1,958,952
<b>REVENUE</b>			
External Revenue		1,309,056	1,639,253
Internal Recoveries		45,000	47,700
		-----	-----
<b>TOTAL REVENUE</b>		1,354,056	1,686,953
		-----	-----
<b>TOTAL NET COST CITY COMPOST FACILITY</b>		486,604	271,999
		=====	=====
<b>Cost of Capital Employed</b>		8,515	24,048

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

## OUTPUT : COMPOSTING

### Description

This output includes the operation of the composting facility at Metro Place and the organic collection facilities at Parkhouse Road and Styx Mill road. Education, promotion and research of composting techniques and equipment are also undertaken.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	To achieve or surpass the organics reduction targets contained in the Solid and Hazardous Waste Management Plan.	1.	Tonnage of organic matter received at the refuse stations for composting (target 38,000 tonnes by 30 June).	Environmental
2.	To increase public participation in composting.	2.1	The proportion of households regularly home composting (includes worm-composting, and novel composting processes). (Annual Residents Survey to be benchmarked in 2001/02).	Social
		2.2	Number of schools and groups participating in Council run composting education programmes. (Education and Promotion Records)	Social
3.	To manage the Compost Plant in accordance with management plans and resource consents.	3.1	Number of complaints received by Environment Canterbury about the Compost Plant (target nil complaints resulting in a breach of consent conditions).	Environmental
		3.2	Spray residue in the compost product is minimised (target less than 0.02 mg/kg dry weight).	Environmental
		3.3	Yield of the Compost Plant (target 0.9m <sup>3</sup> unscreened compost/tonne of garden organic).	Financial

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

**OUTPUT : COMPOSTING**

			<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Sub Output : Domestic Composting</b>				
DIRECT COSTS				
Domestic Composting			85,500	30,500
ALLOCATED COSTS				
Transfer from Allocated Holding Accounts	(0.40)%	0.24%	35,577	18,726
TOTAL ALLOCATED COSTS			----- 35,577	----- 18,726
TOTAL COST COMPOSTING			----- 121,077	----- 49,226
REVENUE				
External Revenue			500	500
TOTAL NET COST DOMESTIC COMPOSTING			----- 120,577 =====	----- 48,726 =====
<b>TOTAL NET COST RESOURCE RECOVERY</b>			----- 607,181 =====	----- 320,725 =====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

**OUTPUT: COMPOSTING**

**Description** Operating the composting plant and sell the resulting compost. This is the net cost after the dumping fee.

**Benefits** Reusable green waste is separated from the main waste stream thus reducing waste to landfill and allowing value to be added so that it can be resold as a valuable garden product. This is a sustainable use of resources.

**Strategic Objectives** A3, B2, C1, C3, C4, D3, E1, E3, G1  
**CCC Policy** Solid Waste Management Plan

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

General benefit accrues to the community through reduced demand on the land fill.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to the purchasers of the compost.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

None necessary.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General benefits shall be funded in part by surplus of user charges over direct benefits, by the waste minimisation levy charged on all refuse dumped, and any residual by capital value rating on properties liable for the general rate.

**Direct Benefits**

The service shall be priced considering market conditions and Council's objectives in reducing the waste stream.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESOURCE RECOVERY</b>

**OUTPUT : COMPOSTING**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
50.00% General Benefits	-	729,502	198,925	26,759	48,903		1,004,089 CapValAll
50.00% Direct Benefits	1,004,089	-	-	-	-		1,004,089 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	1,004,089	729,502	198,925	26,759	48,903	-	2,008,178
<i>Modifications</i>							
Transfer User Costs to Rating	683,364	(496,485)	(135,385)	(18,211)	(33,283)		- CapValAll
Non-Rateable	-	11,930	3,253	438	(15,621)		- CapValGen
<i>Total Modifications</i>	683,364	(484,555)	(132,132)	(17,774)	(48,903)	-	-
<b>Total Costs and Modifications</b>	<b>1,687,453</b>	<b>244,947</b>	<b>66,794</b>	<b>8,985</b>	<b>-</b>	<b>-</b>	<b>2,008,178</b>

**Funded By**

84.03% User Charges	1,687,453						1,687,453
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
15.97% Capital Value Rating	-	244,947	66,794	8,985	-	-	320,725
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>1,687,453</b>	<b>244,947</b>	<b>66,794</b>	<b>8,985</b>	<b>-</b>	<b>-</b>	<b>2,008,178</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

## **OUTPUT : COLLECTION OPERATIONS**

### **Description**

A collection service of residual refuse from the City's households and businesses is provided by way of the weekly black bag.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To manage the refuse collection contract to ensure operations are in accordance with current operational and management plans.	1.	Achievement of full compliance with refuse collection contract key performance indicators. (Report by exception).	Social Financial Environmental
2.	The allocation of black bags to Christchurch properties is effective and convenient.	2.	Public satisfaction with the method of bag allocation (target 80% satisfaction)	Social
3.	Collection operations are energy efficient.	3.	Total fuel consumption (number of truck equivalents travelling 20,000km at 100km per hour).	Environmental



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

<b>OUTPUT : COLLECTION OPERATIONS</b>				<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
				<b>\$</b>	<b>\$</b>
DIRECT COSTS					
Collection				2,186,096	2,200,602
Bag Purchase				860,000	910,000
Bag Deliveries				120,000	100,000
Publicity				36,000	24,000
Disposal				2,213,778	2,644,445
ALLOCATED COSTS					
Transfer from Allocated Holding Accounts		(1.42)%	0.57%	125,943	43,913
Alloc O/Head - Output Corporate Overheads Cost Centre				0	143,877
TOTAL COSTS				----- 5,541,817	----- 6,066,837
REVENUE					
External Revenue				600,050	665,050
TOTAL NET COST EXCESS DOMESTIC				----- 4,941,767	----- 5,401,787
				=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT: COLLECTION OPERATIONS**

**Description** Collecting household and commercial refuse, managed so as not to compromise waste minimisation objectives.

**Benefits** Benefits accrue to the individuals who have their refuse collected and to the whole community from the improvement in environmental health.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

It is considered that the wider community receives a public health benefit, along with the benefits of dissuading burning rubbish, burying privately and the like. This has been allocated to the ratepaying sectors on the basis of their usage of the service.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))**

Direct benefit accrues to those who have their rubbish collected.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

The Council believes it is interest of the community for rubbish to be collected regardless of ability to pay, whether payments for contract services are up to date, etc. For this reason, the costs of the direct benefit for a basic level of service are allocated to ratepaying sectors on the basis of the number of properties as a surrogate for likely usage.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

These shall be funded by capital value rating on properties liable for the general rate as capital value best represents stakeholder interest.

**Direct Benefits**

The costs of direct benefits for the basic service shall be recovered from a uniform charge on properties liable for the general rate. Costs of direct benefits above the basic shall be funded by the users through the purchase of rubbish bags beyond those provided by the Council.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : COLLECTION OPERATIONS**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
20.00% General Benefits	-	881,549	240,387	32,336	59,096		1,213,367 CapValAll
80.00% Direct Benefits	2,426,735	2,140,380	245,100	41,254	-		4,853,470 TableGC32
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	2,426,735	3,021,929	485,487	73,590	59,096	-	6,066,837
<i>Modifications</i>							
Transfer User Costs to Rating	(1,761,685)	1,582,077	145,257	22,737	11,613		(0) NrProps
Non-Rateable	-	54,002	14,726	1,981	(70,709)		- CapValGen
<i>Total Modifications</i>	(1,761,685)	1,636,080	159,982	24,718	(59,096)	-	(0)
Total Costs and Modifications	665,050	4,658,009	645,469	98,309	-	-	6,066,837

**Funded By**

10.96% User Charges	665,050						665,050
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
89.04% Capital Value Rating	-	4,658,009	645,469	98,309	-	-	5,401,787
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	665,050	4,658,009	645,469	98,309	-	-	6,066,837

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

## **OUTPUT : TRANSFER OPERATIONS**

### **Description**

Public utilities for the acceptance and transfer for disposal of residual refuse are provided at the Parkhouse Road, Metro Place, and Styx Mill Road Refuse Stations. These utilities are operated in conjunction with on-site recycling centres and a green waste composting facility (Metro Place). The recycling centres and composting facility extract reusable/recyclable material and green waste from the City's waste stream. A further service is provided at the refuse stations for the acceptance of household hazardous waste for reuse, recycling, or disposal.

<b>Objectives for 2002/03</b>		<b>Performance Indicators</b>		<b>TBL Category</b>
1.	To manage the City Care contract to ensure that the refuse stations are operated in accordance with current operational and management plans.	1.	Achievement of full compliance with City Care contract key performance indicators.	Social Financial Environmental
2.	Refuse stations are planned, developed and operated to maximise the recovery of resources from the waste stream.	2.	Tonnage of material recovered at the refuse stations (excluding RMF recovered materials).	Environmental
3.	Plan for changes to refuse stations required by the forthcoming regional landfill.	3.	Plans completed, and contract ready to let.	Social
4.	To minimise the household hazardous waste going to landfill untreated.	4.	Tonnage by class of household hazardous waste being collected at the drop-off centres.	Environmental

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT & UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	SOLID WASTE RESIDUE DISPOSAL

**OUTPUT : TRANSFER OPERATIONS**

			2001/2002 BUDGET \$	2002/2003 BUDGET \$
<b>Sub Output : Metro Place</b>				
<b>DIRECT COSTS</b>				
Administration Costs			51,330	60,330
Plant Costs			16,600	15,000
Maintenance Grounds and Building			73,450	98,748
City Care - Fixed Fee			141,120	146,880
City Care - Variable Fee			148,851	146,484
City Care - Refuse Transfer			365,300	361,914
City Care - Rubble Transfer			22,755	19,629
Hardfill			6,000	10,200
Landfill Charges			402,578	375,293
			-----	-----
			1,227,984	1,234,478
<b>ALLOCATED COSTS</b>				
Transfer from Allocated Holding Accounts	(0.60)%	0.20%	53,259	15,408
Allocated Overhead - Rent			247,200	229,200
Depreciation			45,500	17,000
Debt Servicing			642	0
			-----	-----
			346,601	261,608
			-----	-----
<b>TOTAL COSTS</b>			1,574,585	1,496,086
<b>REVENUE</b>				
External Revenue			1,453,621	1,408,834
Internal Recoveries			332,391	320,831
			-----	-----
<b>TOTAL REVENUE</b>			1,786,012	1,729,665
			-----	-----
<b>TOTAL NET COST METRO PLACE</b>			(211,427)	(233,579)
			=====	=====
Cost of Capital Employed			5,062	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : TRANSFER OPERATIONS**

	<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
	<b>\$</b>	<b>\$</b>
<b>Sub Output : Parkhouse Rd</b>		
<b>DIRECT COSTS</b>		
Administration Costs	47,670	56,235
Plant Costs	66,000	25,000
Maintenance Grounds and Building	70,300	131,370
Hardfill	6,000	12,000
City Care - Fixed Fee	322,224	335,376
City Care - Variable Fee	162,050	162,469
City Care - Refuse Transfer	636,300	633,494
City Care - Rubble Transfer	5,848	7,160
Landfill Charges	561,867	542,796
	-----	-----
	1,878,259	1,905,900
<b>ALLOCATED COSTS</b>		
Transfer from Allocated Holding Accounts (0.63)% 0.18%	55,450	13,867
Alloc O/Head - Output Corporate Overheads Cost Centre	0	113,049
Allocated Overhead - Rent	422,400	399,600
Depreciation	40,529	47,634
Debt Servicing	309	0
	-----	-----
	518,688	574,150
<b>TOTAL COSTS</b>	-----	-----
	2,396,947	2,480,050
<b>REVENUE</b>		
External Revenue	2,125,160	2,039,576
Internal Recoveries	371,170	437,497
	-----	-----
<b>TOTAL REVENUE</b>	2,496,330	2,477,073
<b>TOTAL NET COST PARKHOUSE ROAD</b>	-----	-----
	(99,383)	2,977
	=====	=====
<b>Cost of Capital Employed</b>	4,074	

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : TRANSFER OPERATIONS****Sub Output : Styx Mill****DIRECT COSTS**

Operating Costs

Maintenance Grounds and Building

Hardfill

Landfill Charges

**2001/2002  
BUDGET  
\$****2002/2003  
BUDGET  
\$**

689,512

683,607

47,400

59,180

6,000

7,800

266,933

239,804

1,009,845

990,391

**ALLOCATED COSTS**

Transfer from Allocated Holding Accounts

(0.59)%

0.18%

52,164

13,867

Allocated Overhead - Rent

219,600

166,800

Asset Write off - Compactor

0

22,000

Depreciation

42,600

69,816

Debt Servicing

423

280

314,787

272,763

**TOTAL COSTS**

1,324,632

1,263,154

**REVENUE**

External Revenue

944,998

872,663

Internal Recoveries

238,214

233,332

**TOTAL REVENUE**

1,183,212

1,105,995

**TOTAL NET COST STYX MILL ROAD**

141,420

157,159

Cost of Capital Employed

7,328

71,402

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT: TRANSFER OPERATIONS**

*Description* Operation of the transfer stations

*Benefits* Supplies a safe and environmentally sound disposal of solid waste at 3 locations convenient to the public.

*Strategic Objectives* A3, B2, C1, C3, *CCC Policy* Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

***Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)******General Benefits (Section 112F(b))****Nature and Distribution of General Benefits****Direct Benefits (Section 112F(c))***

Direct benefits accrue to the users of the stations.

***Control Negative Effects (Section 112F(d))******Modifications Pursuant to Section 12******Funding of Expenditure Needs Pursuant to Section 122E(1)(c)******General Benefits******Direct Benefits***

Transfer stations shall be fully self-funding with a small surplus.

***Control Negative Effects***



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT :    TRANSFER OPERATIONS**

*Customer   Residential   Commercial           Rural   Institutions           Grants           Total Method*

**Costs and Modifications***Costs*

0.00% General Benefits	-	-	-	-	-	-	- 0
100.00% Direct Benefits	5,239,291	-	-	-	-	-	5,239,291 TableC
0.00% Negative Effects	-	-	-	-	-	-	- 0
<i>Total Costs</i>	5,239,291	-	-	-	-	-	5,239,291

*Modifications*

Transfer User Costs to Rating	73,442	(53,358)	(14,550)	(1,957)	(3,577)		(0) CapValAll
Non-Rateable	-	(2,732)	(745)	(100)	3,577		- CapValGen
<i>Total Modifications</i>	73,442	(56,090)	(15,295)	(2,057)	-	-	(0)

Total Costs and Modifications	5,312,733	(56,090)	(15,295)	(2,057)	-	-	5,239,291
-------------------------------	-----------	----------	----------	---------	---	---	-----------

**Funded By**

101.40% User Charges	5,312,733						5,312,733
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
-1.40% Capital Value Rating	-	(56,090)	(15,295)	(2,057)	-	-	(73,442)
0.00% Uniform Annual Charge		-	-	-			-
Total Funded By	5,312,733	(56,090)	(15,295)	(2,057)	-	-	5,239,291

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

## OUTPUT : DISPOSAL

### Description

A landfill is operated at Burwood for the disposal of residual refuse from Christchurch, Ashburton District, Waimakariri District, parts of Selwyn District, Hurunui and Banks Peninsula. Special/hazardous wastes are also accepted, and administered through the “Manifest” system, which assures appropriate treatment and tracking of these wastes. A new regional landfill is programmed to open in mid 2004 when Burwood will close. Council owned closed landfills are monitored under the Closed Landfill Management Strategy.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	To operate Burwood Landfill in accordance with all consents and bylaws.	1.	Consent and bylaw violation recorded for Burwood by Environment Canterbury (target no significant violations).	Social Environmental
2.	<i>To manage Council owned closed landfills in accordance with the Closed Landfill Management Strategy.</i>	2.	<i>Proportion of closed landfills with resource consents (Target 100%).</i>	Environmental
3.	To manage hazardous waste entering the landfill through the manifest system.	3.	Hazardous waste type and quantity entering the landfill.	Environmental

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : DISPOSAL**

		<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
		<b>\$</b>	<b>\$</b>
<b>Sub Output : Burwood - Landfill</b>			
<b>DIRECT COSTS</b>			
Operating Costs (includes Burwood Stage 1, 2A, 2B aftercare, refer below)		1,791,204	1,837,031
<b>ALLOCATED COSTS</b>			
Transfer from Allocated Holding Accounts (1.24)% 1.29%		109,515	100,153
Provision for Aftercare Liability (Stage 2C)		745,500	721,500
Alloc O/Head - Output Corporate Overheads Cost Centre		0	46,086
Depreciation		8,000	6,000
Debt Servicing		651	651
		-----	-----
		863,666	874,390
		-----	-----
<b>TOTAL COST</b>		2,654,870	2,711,421
<b>REVENUE</b>			
External Revenue		431,983	477,958
External Revenue - Landfill Aftercare Fee (for Stage 2C)		640,500	616,500
External Revenue - Other Local Authorities		135,189	149,055
Internal Recoveries (Transfer Stations)		1,259,077	1,187,059
Internal Revenue - Landfill Aftercare Fee (for Stage 2C)		105,000	105,000
		-----	-----
<b>TOTAL REVENUE BURWOOD - LANDFILL</b>		2,571,749	2,535,572
		-----	-----
<b>TOTAL NET COST BURWOOD - LANDFILL</b>		83,121	175,849
		=====	=====
Cost of Capital Employed		31,708	45,756
<b>FINANCING TRANSFER</b>			
Appropriation to Burwood Landfill Stage 2C Aftercare Special Fund		745,500	721,500

Note: The provision in the 2002/2003 budget for the transfer to the Burwood Landfill Stage 2C Aftercare special fund is \$721,500 (refer Page 9.2.47). In addition the Council has a financial liability for aftercare of the closed stages of Burwood (ie. Stage 1, 2A, 2B) and other smaller closed City landfills (of which there are around 114). For 2001/02 the amount budgeted for aftercare is \$765,000 for Burwood Stages 1, 2A, 2B, and \$160,000 for all other closed landfills - refer Page 9.2.48. When Burwood Landfill Stage 2C is finally closed the financial liability will be progressively reduced by any subsequent aftercare expenditure. (refer also, note at end of solid waste summary)

9.2.text.48

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : DISPOSAL**

For text see page 9.2.text.47.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : DISPOSAL**

			<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Sub Output : Landfill Aftercare</b>				
DIRECT COSTS				
Landfill Aftercare			170,000	160,000
ALLOCATED COSTS				
Transfer from Allocated Holding Accounts	(0.31)%	0.22%	27,379	16,949
			-----	-----
			27,379	16,949
			-----	-----
TOTAL NET COST LANDFILL AFTERCARE			197,379	176,949
			=====	=====
<b>Sub Output : Hazardous Waste Operation</b>				
DIRECT COSTS				
Direct Operating Costs			188,800	197,000
ALLOCATED COSTS				
Transfer from Allocated Holding Accounts	(1.11)%	1.20%	98,156	92,597
			-----	-----
TOTAL COST			286,956	289,597
REVENUE				
External Revenue			0	120,000
			-----	-----
TOTAL NET COSTS HAZARDOUS WASTE OPERATION			286,956	169,597
			=====	=====
			-----	-----
<b>TOTAL NET COST RESIDUE DISPOSAL</b>			5,339,834	5,850,739
			=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT: DISPOSAL**

**Description** Burwood land fill, land fill aftercare, hazardous waste management.

**Benefits** Provides a centralised controlled safe disposal of the city's solid waste.

**Strategic Objectives** A3, B2, C1, C3, C4, D3, E1, E3, G1  
**CCC Policy** Solid Waste Management Plan

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))**

The allocation is based on budgeted figures:  
 Burwood 90% direct / 10% general,  
 Aftercare 10% general, Hazardous 10% general. The net general benefit is assessed as 28%.

**Nature and Distribution of General Benefits**

General benefits are considered to accrue in the same proportion as stakeholders' interests in the City.

**Direct Benefits (Section 112F(c))**

Direct benefits accrue to the users of the Burwood land fill.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

None necessary.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits**

General benefits shall be funded by the surplus from user charges.

**Direct Benefits**

Users shall fund all direct benefits, plus the general benefits, plus sufficient to cover an increasing share of the costs of the waste minimisation programme.

**Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE RESIDUE DISPOSAL</b>

**OUTPUT : DISPOSAL**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
28.00% General Benefits	-	646,490	176,289	23,714	43,338		889,831 CapValAll
72.00% Direct Benefits	2,288,136	-	-	-	-		2,288,136 TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	2,288,136	646,490	176,289	23,714	43,338	-	3,177,967
<i>Modifications</i>							
Transfer User Costs to Rating	367,436	(266,954)	(72,795)	(9,792)	(17,896)		- CapValAll
Non-Rateable	-	19,431	5,299	713	(25,443)		- CapValGen
<i>Total Modifications</i>	367,436	(247,522)	(67,496)	(9,079)	(43,338)	-	-
<b>Total Costs and Modifications</b>	<b>2,655,572</b>	<b>398,967</b>	<b>108,793</b>	<b>14,634</b>	<b>-</b>	<b>-</b>	<b>3,177,967</b>

**Funded By**

83.56% User Charges	2,655,572						2,655,572
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
16.44% Capital Value Rating	-	398,967	108,793	14,634	-	-	522,395
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>2,655,572</b>	<b>398,967</b>	<b>108,793</b>	<b>14,634</b>	<b>-</b>	<b>-</b>	<b>3,177,967</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE WASTE MINIMISATION FEE</b>

## **OUTPUT : WASTE MINIMISATION TIPPING FEE REVENUE**

### **Description**

The tipping fees for disposal of refuse at the Council's Refuse Station and Landfill include a sum designated as a Waste Minimisation Fee. This revenue stream provides funds for the Council's waste minimisation activities such as commercial waste minimisation, Resource Reuse Centres, the Recovered Materials Foundation, compost operations and the kerbside recyclables collection.

### **Objective for 2002/03**

1. *To receive the 'Waste Minimisation Fee' for each tonne of refuse accepted, at the rate fixed during the annual plan process.*

### **Performance Indicator**

1. *Receipt of amounts budgeted.*



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE WASTE MINIMISATION FEE</b>

	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT : WASTE MINIMISATION TIPPING FEE REVENUE</b>		
DIRECT COSTS		
	0	0
	-----	-----
	0	0
ALLOCATED COSTS		
	0	0
	-----	-----
	0	0
TOTAL COSTS		
REVENUE		
External Revenue	6,233,100	7,980,701
Internal Revenue	1,060,500	1,452,500
	-----	-----
TOTAL REVENUE	7,293,600	9,433,201
	-----	-----
TOTAL NET COST WASTE MINIMISATION TIPPING FEE REVENUE	(7,293,600)	(9,433,201)
	=====	=====
 <b>TOTAL NET COST SOLID WASTE</b>	 3,578,571	 1,678,447
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE WASTE MINIMISATION FEE</b>

**OUTPUT: WASTE MINIMISATION TIPPING FEE REVENUE**

**Description** The tipping fees for disposal of refuse at the Council's Refuse Station and Landfill include a sum designated as a Waste Minimisation Fee.

**Benefits** An accurate record is kept of the funds received from the Waste Minimisation Fee.

**Strategic Objectives** A3, B2, C1, C3, **CCC Policy** Solid Waste Management Plan  
C4, D3, E1, E3,  
G1

**Allocation of Costs of Benefits Pursuant to Section 122E(1)(a)****General Benefits (Section 112F(b))***Nature and Distribution of General Benefits***Direct Benefits (Section 112F(c))**

The fee is levied on users however the purpose is to provide funds for the whole benefit of the waste collection and disposal process. The targeted outcome is sustainable waste management, and as such could be argued as General Benefits.

**Control Negative Effects (Section 112F(d))****Modifications Pursuant to Section 12**

Transfer user revenue based on capital value rating on properties liable for the general rate as capital value best represents stakeholder interest.

**Funding of Expenditure Needs Pursuant to Section 122E(1)(c)****General Benefits****Direct Benefits****Control Negative Effects**

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE WASTE MINIMISATION FEE</b>

**OUTPUT : WASTE MINIMISATION TIPPING FEE REVENUE**

	<i>Customer</i>	<i>Residential</i>	<i>Commercial</i>	<i>Rural</i>	<i>Institutions</i>	<i>Grants</i>	<i>Total Method</i>
<b>Costs and Modifications</b>							
<i>Costs</i>							
0.00% General Benefits	-	-	-	-	-		- 0
0.00% Direct Benefits	-	-	-	-	-		- TableC
0.00% Negative Effects	-	-	-	-	-		- 0
<i>Total Costs</i>	-	-	-	-	-	-	-
<i>Modifications</i>							
Transfer User Costs to Rating	9,433,201	(6,853,514)	(1,868,860)	(251,392)	(459,434)		(0) CapValAll
Non-Rateable	-	(350,883)	(95,681)	(12,871)	459,434		- CapValGen
<i>Total Modifications</i>	9,433,201	(7,204,397)	(1,964,541)	(264,263)	-	-	(0)
<b>Total Costs and Modifications</b>	<b>9,433,201</b>	<b>(7,204,397)</b>	<b>(1,964,541)</b>	<b>(264,263)</b>	<b>-</b>	<b>-</b>	<b>(0)</b>

**Funded By**

- User Charges	9,433,201						9,433,201
0.00% Grants and Subsidies		-	-	-	-		- 0
0.00% Net Corporate Revenues		-	-	-	-		- 0
202576448 Capital Value Rating	-	(7,204,397)	(1,964,541)	(264,263)	-	-	(9,433,201)
0.00% Uniform Annual Charge		-	-	-			-
<b>Total Funded By</b>	<b>9,433,201</b>	<b>(7,204,397)</b>	<b>(1,964,541)</b>	<b>(264,263)</b>	<b>-</b>	<b>-</b>	<b>(0)</b>



9.2.text.50.i

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY – INFRASTRUCTURE</b>

## **OUTPUTS**

- **RENEWALS AND REPLACEMENTS**
- **ASSET IMPROVEMENTS**
- **NEW ASSETS**

For text see pages 9.2.text.50.ii, 9.2.text.50.iii and 9.2.text.50.iv.

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WATER SUPPLY – INFRASTRUCTURE</b>

## OUTPUTS

- **RENEWALS AND REPLACEMENTS**
- **ASSET IMPROVEMENTS**
- **NEW ASSETS**

## Description

The City's water system comprises 1,300km of mains (plus approx 2,000km of small supply pipe), 53 primary and 33 secondary pumping stations, as well as seven (7) bulk storage, and 29 local reservoirs. The system must be maintained and extended as Christchurch grows. The current depreciated value of assets is \$188m (replacement cost \$310m). In addition, sufficient fire hydrants must be provided to reasonably protect the community.

Objective for 2002/03		Performance Indicator		TBL Category
1.	<i>To maintain the overall performance of the water supply system by undertaking a programme of Renewals and Replacements, Improvements and Extensions as set out in the Councils Asset Management Plan.</i>	1.	<p><i>The capital works programme as outlined in the Asset Management Plan is implemented to ensure the overall water supply infrastructure will continue to perform, and to meet city growth and development.</i></p> <p>Specifically completion within budget by 30 June 2003 of:</p> <ul style="list-style-type: none"> <li>(a) the replacement of 7km of watermain (2000/01=7km)</li> <li>(b) the replacement of 20km of submain (2000/01=20km)</li> <li>I the new mains installation programme</li> <li>(d) the general headworks Capex programme including: <ul style="list-style-type: none"> <li>(i) renewal of Riccarton Pump Station</li> <li>(ii) completion of new Styx Mill Pump Station</li> </ul> </li> </ul>	<p>Social Financial</p> <p>Social Financial</p>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>WASTEWATER – INFRASTRUCTURE</b>

## OUTPUTS

- **RENEWALS AND REPLACEMENTS**
- **ASSET IMPROVEMENTS**
- **NEW ASSETS**

## Description

The City's wastewater system comprises, 1,560km of mains (plus approximately 1,180km of privately owned laterals), 84 pumping stations, and two treatment plants. The system must be maintained and extended as Christchurch grows. The current depreciated value of assets is \$280m (replacement cost \$570m).

Objective for 2002/03		Performance Indicator	TBL Category
1.	<i>To maintain the overall performance of the wastewater system by undertaking a programme of renewals and replacements, improvements and extensions as set out in the Council's Asset Management Plan.</i>	<p>1. <i>The capital works programme as outlined in the Asset Management Plan is implemented to ensure the overall wastewater infrastructure will continue to perform, and to meet City growth and development.</i></p> <p>Specifically completion within budget by 30 June 2003 of:</p> <ul style="list-style-type: none"> <li>(a) Stage 1 of Halswell area trunk main upgrade</li> <li>(b) Stage 1 of Bromley Treatment Plant upgrade</li> <li>(c) Annual reticulation renewal programme</li> <li>(d) On schedule to complete No.11 Pump Station upgrade by 30 June 2004</li> <li>(e) Installation of No.11 Pump Station rising main by 30 June 2004.</li> </ul>	<p>Social Financial</p> <p>Social Financial</p>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>SOLID WASTE – INFRASTRUCTURE</b>

## OUTPUT : SOLID WASTE

- **RENEWALS AND REPLACEMENTS**
- **ASSET IMPROVEMENTS**
- **NEW ASSETS**

### Description

The City's refuse disposal is handled through three refuse stations, three recycling collection stations, one landfill and one compost manufacturing plant with collection centres at each of the refuse stations.

Objectives for 2002/03		Performance Indicators		TBL Category
1.	<i>To manage the solid waste management infrastructure in a sustainable way.</i>	1.1	<i>Maintain an Asset Management Plan in accordance with national standards.</i>	Social Environmental Social  Financial
		1.2	<i>Council adoption and commitment to the Asset Management Plan.</i>	
		1.3	<i>That the work set out in the Asset Management Plan proceeds on schedule.</i>	
2.	To co-operate with Canterbury Waste Services to meet the programmed opening date of the new regional landfill.	2.	Completion within budget by 30 June 2002 of planned capital expenditure for new regional landfill.	Financial
3.	To commence construction of the pilot plant for the processing of mixed organic material.	3.	Projected capital expenditure on new mixed organic materials plant spent within budget.	Financial



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**SUMMARY****INFRASTRUCTURAL ASSETS**

**2001/2002**  
**BUDGET**  
\$

**2002/2003**  
**BUDGET**  
\$

**OUTPUT : RENEWALS AND REPLACEMENTS**

Water Supply

4,194,226

3,670,756

Wastewater

2,573,176

2,666,227

-----  
6,767,402-----  
6,336,983**OUTPUT : ASSET IMPROVEMENTS**

Water Supply

357,039

243,829

Wastewater

6,082,662

11,349,579

-----  
6,439,702-----  
11,593,408**OUTPUT : NEW ASSETS**

Water Supply

2,403,727

1,966,880

Wastewater

1,231,357

1,073,129

-----  
3,635,084-----  
3,040,009**TOTAL CAPITAL OUTPUTS - INFRASTRUCTURAL**

16,842,187

20,970,401

=====

**TOTAL INFRASTRUCTURAL ASSETS**

WATER SUPPLY

9,887,196

15,088,935

WASTEWATER

6,954,992

5,881,466

-----  
16,842,187-----  
20,970,401**FIXED ASSETS**

RENEWALS AND REPLACEMENTS

555,480

575,200

ASSET IMPROVEMENTS

95,600

228,600

NEW ASSETS

2,065,868

879,604

-----  
2,716,948-----  
1,683,403

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>TOTAL CITY WATER AND WASTE SUMMARY</b>		
<b>OUTPUT : RENEWALS &amp; REPLACEMENTS</b>		
Water Supply	4,194,226	3,670,756
Wastewater	2,870,656	3,133,427
Solid Waste	258,000	108,000
	-----	-----
	7,322,882	6,912,183
<b>OUTPUT : ASSET IMPROVEMENTS</b>		
Water Supply	357,039	243,829
Wastewater	6,127,662	11,395,579
Solid Waste	50,600	182,600
	-----	-----
	6,535,302	11,822,008
<b>OUTPUT : NEW ASSETS</b>		
Water Supply	2,537,149	1,966,880
Wastewater	1,281,357	1,107,629
Solid Waste	1,882,446	845,104
	-----	-----
	5,700,952	3,919,613
	-----	-----
	19,559,135	22,653,804
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**INFRASTRUCTURAL ASSETS****2001/2002  
BUDGET****2002/2003  
BUDGET****OUTPUT : RENEWALS AND REPLACEMENTS**

\$

\$

**Water Supply****MAINS**

Mains Renewals

1,700,000

1,254,500

Leak Location/Reduction

0

0

Safety Audit overview

4,500

0

Incidental Mains renewals

50,000

0

Transfer ex Director of Information

0

0

Transfer ex Geodata Services

85,649

70,421

Project Management - Alloc O/Head - Cost Centre

158,378

82,183

Sub Total

1,998,527

1,407,104

**SUBMAINS**

750,000

943,000

Incidental sub-mains renewals

40,000

0

Meter Renewals

145,000

151,000

Transfer ex Director of Information

0

0

Transfer ex Geodata Services

32,137

26,423

Project Management - Alloc O/Head - Cost Centre

76,037

31,696

Sub Total

1,043,174

1,152,119

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : RENEWALS AND REPLACEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>HEADWORKS</b>		
Well Renewals	0	104,000
Fuel Tanks	17,500	17,500
Riccarton P/S	750,000	0
Fitzgerald P/S	200,000	438,600
Primary Switchboard	0	35,000
Secondary Switchboard	0	15,600
Grassmere Switchboard	30,000	0
Equipment Replacements	50,000	75,000
Control & Indication	35,000	335,000
Diesel Controllers	0	20,000
Denton Variable Speed	0	12,000
Diesel Replacement	0	0
Transfer ex Geodata Services	1,580	1,300
Project Management - Alloc O/Head - Cost Centre	68,445	57,533
Sub Total	1,152,525	1,111,533
<b>SUBTOTAL - WATER SUPPLY - INFRASTRUCTURAL ASSETS</b>	<b>4,194,226</b>	<b>3,670,756</b>

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>OUTPUT : RENEWALS AND REPLACEMENTS</b>		
<b>Wastewater</b>		
<b>Reticulation</b>		
Project Management - Alloc O/Head - Cost Centre	31,519	29,087
Ex City Solutions - Contract Supervision	43,900	19,000
Ex City Solutions - Data Collection	53,400	23,000
Flow Monitoring	200,000	220,000
Flow Investigation	0	0
City wide Identified Sewer Renewals as per below	1,300,000	1,449,000
Sewer Grouting Contract	600,000	600,000
No 60 Rising Main Renewal	176,159	0
	-----	-----
SubTotal	2,404,978	2,340,087

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : RENEWALS AND REPLACEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Pumping</b>		
P/stn Wiring & Switchgear Renewal	51,000	53,000
P/Stn Upgrades	81,600	159,000
Project Management - Alloc O/Head - Cost Centre	0	9,696
	-----	-----
SubTotal	132,600	221,696
<b>Treatment Works</b>		
Project Management - Alloc O/Head - Cost Centre	31,519	14,544
Sludge Pipe Replacement	0	5,400
Channel Control Gates Replacement	0	32,000
D Panel Replacement	0	0
North Gallery replacement	0	0
Dall Flow Measurement Meters	0	52,500
Water pipe replacement	4,080	0
	-----	-----
Sub Total	35,599	104,444
	-----	-----
SUBTOTAL - WASTEWATER - INFRASTRUCTURAL ASSETS	2,573,176	2,666,227
	-----	-----
SUBTOTAL - INFRASTRUCUTRAL ASSETS	6,767,402	6,336,983

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**FIXED ASSETS**

**2001/2002**  
**BUDGET**  
\$

**2002/2003**  
**BUDGET**  
\$

**OUTPUT : RENEWALS AND REPLACEMENTS****Water Supply**

Sub Total

-----  
0 0

**Wastewater****Pumping**

P/Stn Control System

P/Stn Alarm Systems

30,600

32,000

15,300

16,000

Sub Total

-----  
45,900 48,000

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : RENEWALS AND REPLACEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Treatment Works</b>		
Workshop Equipment	20,400	0
Air Compressor	0	106,000
Circuit breaker	0	10,500
Programmable Logic Controllers Replacement	0	107,000
Air Conditioner Replacements	12,240	0
Portable Pumps	12,240	0
Control Room Controllers	30,600	0
Portable Gas Detector Replacement	6,120	0
Airdryer	6,120	0
Portable Pumps - Lagoons	0	0
Sludge Circ P/P Replacement	0	85,700
Sub Total	87,720	309,200
<b>Trade Waste</b>	0	0
Sub Total	0	0



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : RENEWALS AND REPLACEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Laboratory</b>		
Laboratory Testing & Measuring Equipment	0	35,000
Digester	8,160	0
Gas Chromotograph	35,700	0
UV/VIS Spectrometer	20,000	0
	-----	-----
Sub Total	63,860	35,000
<b>Solid Waste</b>		
Minor Replacements	10,000	10,000
Glass Crusher (RMF)	248,000	98,000
	-----	-----
Sub Total	258,000	108,000
<b>Contracts:</b>	0	0
	-----	-----
Sub Total	0	0
<b>Business</b>		
Equipment & Computer Software	100,000	75,000
	-----	-----
Sub Total	100,000	75,000
	-----	-----
SUBTOTAL - FIXED ASSETS	555,480	575,200
	-----	-----
<b>TOTAL RENEWALS &amp; REPLACEMENTS</b>	<b>7,322,882</b>	<b>6,912,183</b>
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**INFRASTRUCTURAL ASSETS****2001/2002****2002/2003****BUDGET****BUDGET****OUTPUT : ASSET IMPROVEMENTS****\$****\$****Water Supply**

Energy Efficiency Measures

100,000

0

Minor Improvements

20,000

20,800

Worsley Reservoir-Earthquake

0

0

Control &amp; Indication

25,000

26,000

Life Lines Mitigating Measures

100,000

93,600

Noise Control (Diesel Running)

15,000

15,800

Chlorine Injection Pump

18,000

0

Energy Efficiency Measures

0

40,000

Transfer ex Geodata Services

527

433

Project Management - Alloc O/Head - Cost Centre

78,512

47,196

Sub Total

357,039

243,829

SUBTOTAL - WATER SUPPLY - INFRASTRUCTURAL ASSETS

357,039

243,829

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : ASSET IMPROVEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Infrastructural Assets</b>		
<b>Wastewater</b>		
<b>Reticulation</b>		
Project Management - Alloc O/Head - Cost Centre	82,222	48,479
Ex City Solutions - Contract Supervision	12,000	5,400
Ex City Solutions - Data Collection	13,300	5,700
P/stn No. 11 Pressure Main Upgrading	100,000	1,213,000
P/Stn No 20 Pressure Main Upgrading	612,000	0
Halswell Area Trunk Expansion	0	1,592,000
Lifelines - Ferry Road & Pages Road Bridge Inv.	0	116,700
Unallocated	0	0
	-----	-----
Sub Total	819,522	2,981,279
 <b>Pumping</b>		
P/stn Paperlerss Recorders	7,140	7,300
Lifelines - Flexible Couplings & Waterproofing	306,000	0
P/Stn 20 Major Upgrade	487,000	0
P/stn 11 Major Upgrade	51,000	504,000
	-----	-----
Sub Total	851,140	511,300

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : ASSET IMPROVEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Treatment Works</b>		
Expand Wastewater Treatment Plant	4,112,000	7,546,000
CWTP Pond Modifications - (Green Edge)	50,000	51,000
Liquid - Stage 2b Investigation	250,000	260,000
	-----	-----
Sub Total	4,412,000	7,857,000
	-----	-----
SUBTOTAL - WASTEWATER - INFRASTRUCTURAL ASSETS	6,082,662	11,349,579
	-----	-----
SUBTOTAL INFRASTRUCTURAL ASSETS	6,439,702	11,593,408

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**FIXED ASSETS**

**2001/2002**  
**BUDGET**  
\$

**2002/2003**  
**BUDGET**  
\$

**OUTPUT : ASSET IMPROVEMENTS****Water Supply**

Sub Total

-----  
0 0

**Wastewater  
Pumping**

0 0

Sub Total

-----  
0 0

**Treatment Works**

Trickling Filter - Cover Painting

0 21,000

Sub Total

-----  
0 21,000

**Trade Waste**

0 0

Sub Total

-----  
0 0

**Laboratory**

0 0

Sub Total

-----  
0 0

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : ASSET IMPROVEMENTS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Solid Waste</b>		
Resource Recovery Centres Upgrade (RMF Managed)	30,600	10,400
Refuse Stations Modifications to accommodate new vehicles	0	100,000
Project Management - Refuse Station Improvements - Transfer from Cost Centre(s)	0	52,200
Minor Improvements	20,000	20,000
	-----	-----
Sub Total	50,600	182,600
<b>Contracts</b>	0	0
	-----	-----
Sub Total	0	0
<b>Business</b>		
Equipment & Computer Software	45,000	25,000
	-----	-----
Sub Total	45,000	25,000
	-----	-----
SUB TOTAL FIXED ASSETS	95,600	228,600
	-----	-----
<b>TOTAL ASSET IMPROVEMENTS</b>	6,535,302	11,822,008
	=====	=====

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**INFRASTRUCTURAL ASSETS****2001/2002****2002/2003****BUDGET****BUDGET****OUTPUT : NEW ASSETS****\$****\$****Water Supply****HEADWORKS & SCHEMES**

New Pump Station - Belfast

374,000

0

Mt Pleasant Improvements (Cost Share)

230,000

130,000

Worsley Spur (Cost Share)

360,000

0

Standby Diesel

0

130,000

Land Purchase for Pump Station

200,000

0

New Wells For Growth

0

156,000

Other Works - Development &amp; Growth

0

57,700

Transfer ex Geodata Services

526

433

Transfer from Suspense Accounts

55,427

38,142

Sub Total

-----  
1,219,953-----  
512,275

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : NEW ASSETS</b>	<b>2001/2002 BUDGET</b>	<b>2002/2003 BUDGET</b>
<b>Water Supply</b>	<b>\$</b>	<b>\$</b>
<b>RETICULATION</b>		
Universal water Metering	5,000	0
Unspecified New Mains	246,000	616,800
Mt Pleasant New Mains	0	112,300
QE@ Drive - Marshlands to Travis	150,000	0
Additional infrastructure required for developments	50,000	52,000
Submains	30,000	20,800
Transfer ex Geodata Services	23,859	19,616
Project Management - Alloc O/Head - Cost Centre	13,019	9,696
	-----	-----
Sub Total	517,878	831,212
 <b>NEW INFRA ASSETS (Recoverable)</b>		
New C/Ns (Schedule) -13mm	425,000	405,000
New C/Ns (Schedule) -19mm	5,000	5,100
Invoiced Connections	75,000	96,900
Rural Restricted C/Ns	5,000	5,100
Mains	3,000	3,100
Submains	1,000	1,020
Transfer ex Geodata Services	48,695	40,037
Project Management - Alloc O/Head - Cost Centre	103,201	67,137
	-----	-----
Sub Total	665,896	623,394
	-----	-----
<b>SUBTOTAL - WATER SUPPLY - INFRASTRUCTURAL ASSETS</b>	<b>2,403,727</b>	<b>1,966,880</b>



RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : NEW ASSETS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Wastewater</b>		
<b>Reticulation</b>		
Project Management - Alloc O/Head - Cost Centre	138,437	105,229
Reticulation Odour Control	40,800	50,000
McSaveney's Road	0	107,700
Subdivisions Sewer Costs Share Contributions	50,000	101,000
Islington	414,120	429,200
	-----	-----
Sub Total	643,357	793,129
 <b>Pumping</b>		
PS 15 Rising Main Launcher	0	0
	-----	-----
Sub Total	0	0
 <b>Treatment Works</b>		
Composting Rag & Grit	150,000	250,000
Sludge Dewatering - 2nd press	408,000	0
Minor Plant	30,000	30,000
	-----	-----
Sub Total	588,000	280,000
	-----	-----
SUBTOTAL - WASTEWATER - INFRASTRUCTURAL ASSETS	1,231,357	1,073,129
	-----	-----
SUBTOTAL INFRASTRUCTURAL ASSETS	3,635,084	3,040,009

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

**FIXED ASSETS****2001/2002  
BUDGET****2002/2003  
BUDGET****OUTPUT : NEW ASSETS**

\$

\$

**Water Supply**

Transfer ex Director of Information

0

0

PAMS Database (Transfer ex Geo Data Services)

87,385

0

Transfer from Suspense Account 1

0

0

Network Model - Ex Planning Cost Centre

26,037

0

Network Model Planning Software

20,000

0

Sub Total

133,422

0

**Wastewater  
Pumping**

Sub Total

0

0

**Treatment Works**

Sub Total

0

0

RESPONSIBLE COMMITTEE:	<b>SUSTAINABLE TRANSPORT &amp; UTILITIES COMMITTEE</b>
BUSINESS UNIT:	<b>CITY WATER AND WASTE</b>
OUTPUT CLASS:	<b>CAPITAL OUTPUTS</b>

<b>OUTPUT : NEW ASSETS</b>	<b>2001/2002 BUDGET \$</b>	<b>2002/2003 BUDGET \$</b>
<b>Trade Waste</b>	0	0
Isco sampling Machine (Additional)	0	8,500
	-----	-----
Sub Total	0	8,500
<b>Laboratory</b>	0	0
Sub Total	0	0
<b>Solid Waste</b>		
New Canterbury Regional Landfill	1,071,000	400,000
RMF	102,000	200,000
Kerbside Recycling (Bins for population growth 10%)	13,668	13,900
New Initiatives (eg MRF)	30,000	30,000
Start Up Compost In vessel Plant	100,000	150,000
Strategic Land Purchase Reserve	500,000	0
Project Management - In vessel Compost Plant - Transfer from Cost Centre(s)	65,778	51,204
	-----	-----
Sub Total	1,882,446	845,104
<b>Contracts</b>	0	0
	-----	-----
Sub Total	0	0
<b>Business</b>		
Equipment & Computer Software	50,000	26,000
	-----	-----
Sub Total	50,000	26,000
	-----	-----
<b>SUBTOTAL FIXED ASSETS</b>	2,065,868	879,604
	-----	-----
<b>TOTAL NEW ASSETS</b>	5,700,952	3,919,613
	=====	=====



RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003	2003/2004	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10

## RENEWAL AND REPLACEMENT

### Infrastructural Assets

#### Water Supply

##### Reticulation

Project Management Mains - City Solutions, Geodata & CW&W	152,604	152,604	152,604	152,604	152,604	152,604	152,604	152,604	152,604	152,604
Replacement Mains	1,254,500	1,527,236	1,508,836	1,771,036	1,482,236	1,494,436	1,855,636	1,856,835	1,884,835	2,252,396
Project Management Sub-Mains - City Solutions, Geodata & CW&W	58,119	58,119	58,119	58,119	58,119	58,119	58,119	58,119	58,119	58,119
Replacement Submains	943,000	884,881	884,881	884,881	884,881	884,881	884,881	884,881	884,881	691,881
Replacement Meters	151,000	151,000	151,000	151,000	151,000	151,000	151,000	151,000	151,000	151,000
<b>Sub Total</b>	2,559,223	2,773,840	2,755,440	3,017,640	2,728,840	2,741,040	3,102,240	3,103,439	3,131,439	3,306,000

Note: above estimates include engineering & Geodata Services

##### Headworks

Replacement Wells	104,000		106,000	212,000	106,000	212,000	214,500	212,000	212,000	106,000
Fuel Tanks	17,500									
Fitzgerald P/S	438,600	457,800								
Primary Switchboard	35,000	35,700		35,700	35,700					
Secondary Switchboard	15,600	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900	15,900
Mays RdP/S Repl			218,500							
Diesel Controllers	20,000									
Denton Variable Speed	12,000									
Grassmere Switchboard	0									
Diesel Replacements	0		106,000		106,000		106,000		106,000	
Westmoreland 2 Reservoir Replacement				210,000						
Cashmere Reservoir Replacement					515,000	535,000				
Equipment Replacements	75,000	50,000	50,000	50,000	50,000					
Control & Indication	335,000	35,700	35,700	35,700	35,700					
Other Renewals / Replacements						760,200	654,000	760,200	654,000	760,200
Geodata Services	1,300	4,100	4,100	4,100	4,100					
Project Management	57,533	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
<b>Sub Total</b>	1,111,533	634,200	571,200	598,400	903,400	1,558,100	1,025,400	1,023,100	1,022,900	917,100
<b>TOTAL - WATER SUPPLY</b>	3,670,756	3,408,040	3,326,640	3,616,040	3,632,240	4,299,140	4,127,640	4,126,539	4,154,339	4,223,100

## 9.2.70

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Wastewater</b>										
<b>Reticulation</b>										
Project Management	29,087	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Ex City Solutions - Contract Supervision	19,000	19,000	19,000	19,000	19,000	19,000	19,000	19,000	19,000	19,000
Ex City Solutions - Data Collection	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000
Sewer Renewal - City Wide	1,449,000	1,628,000	1,726,000	1,726,000	1,726,000	1,726,000	1,726,000	1,726,000	1,726,000	1,726,000
Flow Monitoring	220,000									
Sewer Grouting Contract	600,000	600,000	0	0	0	0	0	0	0	0
Lifelines, Brickbarrel Renewals		1,060,000	1,060,000	1,060,000	1,060,000					
<b>Pumping</b>										
Project Management	9,696	9,696	9,696	9,696	9,696	9,696	9,696	9,696	9,696	9,696
P/stn Wiring & Switchgear Renewal	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000	53,000
P/Stn Upgrades	159,000	159,000	159,000	159,000	159,000	159,000	159,000	159,000	159,000	159,000
<b>Treatment</b>										
Project Management	14,544	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Channel Control Gates Replacement	32,000					75,000				100,000
D Panel Replacement	0				79,000					100,000
Estuary Front Stabilisation			53,500					52,000		
North Gallery Rewire	0				21,000				10,500	10,000
Sludge Pipe Replacement	5,400		5,400		5,400		5,400	4,200		5,000
Water pipe replacement	0	4,200		4,200		4,200			104,000	
Dall Flow Measurement Meters	52,500	55,000	0						53,000	
Density Meters (2)		55,000								
Unallocated								106,000	106,000	106,000
<b>TOTAL - WASTEWATER</b>	<b>2,666,227</b>	<b>3,730,896</b>	<b>3,173,596</b>	<b>3,118,896</b>	<b>3,220,096</b>	<b>2,133,896</b>	<b>2,060,096</b>	<b>2,216,896</b>	<b>2,328,196</b>	<b>2,375,696</b>
<b>TOTAL INFRASTRUCTURAL ASSETS</b>	<b>6,336,983</b>	<b>7,138,936</b>	<b>6,500,236</b>	<b>6,734,936</b>	<b>6,852,336</b>	<b>6,433,036</b>	<b>6,187,736</b>	<b>6,343,435</b>	<b>6,482,535</b>	<b>6,598,796</b>

## 9.2.71

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Fixed Assets</b>										
<b>Water Supply</b>										
<b>Wastewater</b>										
<b>Pumping</b>										
P/s control systems	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
P/Stn Alarm Systems	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000
Scada System							200,000	286,500	286,500	
<b>Treatment Works</b>										
Air Conditioner Replacements			12,600			12,800			12,800	
Boundary Fence						10,500				
Portable Pumps			12,600			12,800			12,800	
Workshop Equipment						32,000		10,500		
Filter Bearing			30,900	31,500						61,000
Channel Covers								21,000		
Electrical Test Equipment				10,500					10,500	
Air Compressor	106,000									51,000
Circuit breaker	10,500					53,000				51,000
Programmable Logic Controllers Replacement	107,000								154,500	
National Engine Replacement		624,000	624,000							
Portable Gas Detector Replacement			6,300			6,400			6,400	
Airdryer			6,300			6,400			6,400	
Portable Pumps - Lagoons			12,800					12,800		
Sludge Circ P/P Replacement	85,700	104,000								100,000
Sed Tank Mechanical Equipment			190,000			212,000			212,000	
Brick Building Repairs		15,600								
Upgrade gas control system										50,000
Kelly Lewis Pump - Replacement		124,800	127,000						268,000	
"A' Panel & Large Display Screen		31,500								
Raw Sludge P/P Replacement		156,000								
Belt Press Replacement								743,000		

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
Pre-Aeration Blower Replacement								191,000		
BioSolids Auger								90,000		
FGR Bearings / Overhaul								106,000	106,000	
Clarifiers Scrapers								106,000		
Contact Tanks								212,000		
Sludge Thickening								106,000		
Soil Filter Relay								106,000		
Han Shin Gas Compressor								106,000	104,000	
Gas Compressor H. P.								106,000		
Air-compressor Replacements								52,000		
Circ Pump Replacements								105,000		
Gas Central Monitor								52,000		
U.V. Sterilisation								106,000		
Software (In Touch)								6,500		
Electrical Upgrades								32,000	33,000	
Engine Gas Blowers								159,000		
Aeration Pipeline to Contact Tanks								212,000		
Flow Measurement								63,500		
Bio-Solids Feedpump								19,000		
Potable Diesel Pump								57,000		
CommunicationNetwork Upgrade									52,000	50,000
Security Camera Upgrade									52,000	20,000
Aeration Blower Engine Room									520,000	
Allen Engine Central System									104,000	200,000
Allen Engine Replacement										1,600,000
Other Plant Renewals		50,000	50,000	50,000	150,000	250,000	250,000	250,000	250,000	250,000
Trade Waste										
Isco Auto Sampler Replacement		8,500								



## 9.2.73

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Laboratory</b>										
Airconditioner Replacements								5,200		
Atomic Absorbtion Spectrophotometer						87,300				
Gas Chromotograph			40,000				42,000			
Graphite Furnace AA					166,400					
Kjeldahl Digester				45,000				30,000		
Microscope								30,000		
GC			40,000							
Laboratory Testing & Measuring Equipment	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
<b>Solid Waste</b>										
Minor Replacements	10,000	10,000	10,000	10,000	50,000	50,000	50,000	50,000	50,000	50,000
Glass Crusher (RMF)	98,000									
<b>Support</b>										
Equipment & Computer Software	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
<b>TOTAL FIXED ASSETS</b>	575,200	1,282,400	1,320,500	305,000	524,400	891,200	700,000	3,590,000	2,398,900	2,641,000
<b>TOTAL RENEWALS &amp; REPLACEMENTS</b>	6,912,183	8,421,336	7,820,736	7,039,936	7,376,736	7,324,236	6,887,736	9,933,435	8,881,435	9,239,796

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>ASSET IMPROVEMENTS</b>										
<u>Infrastructural Assets</u>										
<u>Water Supply</u>										
Minor Improvements	20,800	20,800	20,800	20,800	20,800					
Control & Indication	26,000	26,000	26,000	26,000	26,000					
Life Lines Mitigating Measure	93,600	104,000	104,000	42,000	57,000					
Noise Control (diesel running)	15,800	15,800								
Other Improvements	0	25,500	25,500	25,500	25,500					
Energy Efficiency Measures	40,000									
Project Management	47,629	50,000	50,000	50,000	50,000					
Unallocated						209,000	209,000	209,000	209,000	209,000
<b>TOTAL - WATER SUPPLY</b>	<b>243,829</b>	<b>242,100</b>	<b>226,300</b>	<b>164,300</b>	<b>179,300</b>	<b>209,000</b>	<b>209,000</b>	<b>209,000</b>	<b>209,000</b>	<b>209,000</b>

## 9.2.75

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Wastewater</b>										
<b>Reticulation</b>										
Project Management	48,479	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Contract Supervision (Ex City Solutions)	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	5,400	12,000
Data Collection (Ex City Solutions)	5,700	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,300	13,000
P/stn No. 11 Pressure Main Upgrading	1,213,000	1,000,000								
P/Stn No 20 Pressure Main Upgrading	0									
Major Trunk Expansion ( Inc. SW Sector Expansion		3,076,000	3,076,000	3,076,000	3,024,000	1,512,000	3,024,000	2,965,000	3,024,000	3,024,000
Halswell Area Trunk Expansion	1,592,000					1,512,000				
Lifelines - Ferry Road & Pages Road Bridge Inv.	116,700									
Unallocated	0	0	0	0	51,000	51,000	51,000	51,000	51,000	51,000
<b>Pumping</b>										
P/stn 20 Major Upgrade	0									
P/stn 11 Major Upgrade	504,000	494,200								
P/Stn paperless Recorders	7,300									
Lifelines, waterproofing, standby power	0									
<b>Treatment Works</b>										
Belfast WWTP Upgrade				0	0	1,592,000	1,592,000			
Pump Station B										50,000
Expansion of Christchurch Wastewater Treatment Plant	7,546,000	65,000	1,000,000	1,595,000						
Waste Water Treatment Plant UV Sterilisation		7,959,000	7,959,000							
CWTP Pond Modifications - (Green Edge)	51,000	50,000	50,000	7,078,000	7,283,000					
Header Manifold - Modifications			265,000							
Cover Sludge Lagoons/Replacement									1,035,000	
Liquid - Stage 2b Investigation	260,000	260,000	260,000							
Filter Pump Switchgear									104,000	104,000
Motor Distribution Centre (Above Ground)								437,000		
<b>TOTAL - WASTEWATER</b>	<b>11,349,579</b>	<b>12,982,900</b>	<b>12,688,700</b>	<b>11,827,700</b>	<b>10,436,700</b>	<b>4,745,700</b>	<b>4,745,700</b>	<b>3,531,700</b>	<b>4,292,700</b>	<b>3,314,000</b>
<b>TOTAL INFRASTRUCTURAL</b>	<b>11,593,408</b>	<b>13,225,000</b>	<b>12,915,000</b>	<b>11,992,000</b>	<b>10,616,000</b>	<b>4,954,700</b>	<b>4,954,700</b>	<b>3,740,700</b>	<b>4,501,700</b>	<b>3,523,000</b>

## 9.2.76

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Fixed Assets</b>										
<b>Water Supply</b>										
<b>Wastewater</b>										
<b>Pumping</b>										
<b>Treatment Works</b>										
Software (Scada)		5,300						10,400		
Trickling Filter - Cover Painting	21,000	20,800					53,000			
<b>Trade Waste</b>										
<b>Laboratory</b>										
<b>Solid Waste</b>										
Resource Recovery Centres Upgrade (RMF Managed)	10,400	10,600								
Refuse Stations Modifications to accommodate new vehicle	100,000	3,668,000	889,400							
Project Management	52,200	52,200	26,100							
Minor Improvements	20,000	20,400	20,400	20,400	51,000	51,000	51,000	51,000	51,000	51,000
<b>Support</b>										
Equipment & Computer Software	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
<b>TOTAL FIXED ASSETS</b>	<b>228,600</b>	<b>3,802,300</b>	<b>960,900</b>	<b>45,400</b>	<b>76,000</b>	<b>76,000</b>	<b>76,000</b>	<b>129,000</b>	<b>86,400</b>	<b>76,000</b>
<b>TOTAL ASSET IMPROVEMENTS</b>	<b>11,822,008</b>	<b>17,027,300</b>	<b>13,875,900</b>	<b>12,037,400</b>	<b>10,692,000</b>	<b>5,030,700</b>	<b>5,030,700</b>	<b>3,869,700</b>	<b>4,588,100</b>	<b>3,599,000</b>

## 9.2.77

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>NEW ASSETS</b>										
<u>Infrastructural Assets</u>										
<u>Water Supply</u>										
<b>Reticulation</b>										
Submains	20,800	20,800	20,800	20,800	20,800					
Additional infrastructure required for developments	52,000	52,000	52,000	52,000	52,000					
New Mains Programme	646,112	314,500	262,500	177,900	344,300					
Mt Pleasant New Mains	112,300		18,900	104,000	18,900					
Ellesmere Trunk Main										3,000,000
Unallocated						439,000	441,000	444,200	455,800	
<b>Sub Total</b>	831,212	387,300	354,200	354,700	436,000	439,000	441,000	444,200	455,800	3,000,000
Note: figures include Geodata Services and Project Management										
<b>Headworks</b>										
Standby Diesels	130,000									
Land Purchase for Pump Station	0									
Bottle Lake Pump Station	0									
New wells for growth	156,000	156,000	156,000	156,000	156,000					
Mt Pleasant New Reservoir & Pumps	130,000	130,000	130,000	30,900	20,600	10,400				
Worsley Spur Cost Share Area	0									
Ellesmere Pump Station										1,000,000
West Zone Reservoir										1,300,000
Other Works - growth and development	57,700	245,500	320,300	170,000	105,000					
New Pump Station Northern Area				150,000	300,000					
Project Management-Design & Supervision	38,575	45,000	45,000	45,000	45,000					
Unallocated						659,600	673,200	663,700	663,700	663,700
<b>Sub Total</b>	512,275	576,500	651,300	551,900	626,600	670,000	673,200	663,700	663,700	2,963,700

## 9.2.78

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>New Assets (Recoverable)</b>										
New C/Ns (Schedule) - 13mm	405,000	306,000	275,400	275,400	411,080					
New C/Ns (Schedule) - 19mm	5,100	5,100	5,100	5,100	5,100					
Invoiced Connections	96,900	96,900	91,800	91,800	91,800					
Rural Restricted C/ns	5,100	5,100	5,100	5,100	5,100					
Mains	3,100	3,100	3,100	3,100	3,100					
Submains	1,020	1,020	1,020	1,020	1,020					
Geodata Services	40,037	40,800	40,800	40,800	40,800					
New Connection Administration - Geodata	67,137	75,000	75,000	75,000	75,000					
Unallocated						705,000	709,400	713,800	713,800	713,800
<b>Sub Total</b>	623,394	533,020	497,320	497,320	633,000	705,000	709,400	713,800	713,800	713,800
<b>TOTAL - WATER SUPPLY</b>	1,966,880	1,496,820	1,502,820	1,403,920	1,695,600	1,814,000	1,823,600	1,821,700	1,833,300	6,677,500

## 9.2.79

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Wastewater</b>										
<b>Reticulation</b>										
Project Management	48,479	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Contract Supervision (Ex City Solutions)	50,950	50,950	50,950	50,950	50,950	50,950	50,950	50,950	50,950	50,950
Data Collection (Ex City Solutions)	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800	5,800
McSaveney's Road	107,700									
Chaney's Rural Industrial Zone			106,000	297,000						
Islington	429,200									
Reticulation Odour Control	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
New Mains Programme	0	106,000	106,000	106,000	106,000	106,000	106,000	106,000	106,000	106,000
Subdivisions Sewer Cost Share Contributions	101,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000	52,000
<b>Pumping</b>										
<b>Treatment Works</b>										
Composting Rag & Grit	250,000	182,000								
Sludge Dewatering - 2nd press	0									100,000
5th Digester										2,800,000
Minor Plant	30,000	30,000	30,000	30,000	52,000	52,000	52,000	52,000	52,000	52,000
TOTAL - WASTEWATER	1,073,129	526,750	450,750	641,750	366,750	366,750	366,750	366,750	366,750	3,266,750
TOTAL INFRASTRUCTURAL ASSETS	3,040,009	2,023,570	1,953,570	2,045,670	2,062,350	2,180,750	2,190,350	2,188,450	2,200,050	9,944,250

9.2.80

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003	2003/2004	2004/2005	2005/2006	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011	2011/2012
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Assets</b>										
<b>Water Supply</b>										
Water Supply - Network Model (Project Management)	0	40,000				40,000				40,000
Water Supply - Network Model (PAMs Interaction)	0									
<b>Wastewater</b>										
<b>Pumping</b>										
<b>Treatment Works</b>										
Biosolids Feed Pump									25,500	
Waukesha Cylinder Head								16,700		
Emergency Pump								20,800		
Pond Data Collection								62,600		
Crane (Portable)								41,700		
Third Sludge Thickening Machine									408,000	
Thickened Sludge Transfer Pump										80,000
Unallocated					30,000	30,000	30,000	30,000	30,000	30,000
<b>Trade Waste</b>										
Flow Recording Data Logger			15,600					15,600		
Isco sampling Machine (Additional)	8,500									
Trade Waste Samplers					30,000					
<b>Laboratory</b>										



## 9.2.81

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>Solid Waste</b>										
New Canterbury Regional Landfill	400,000	400,000								
Recovered Materials Foundation (RMF)	200,000	104,000	104,000	104,000	104,000	104,000	104,000	104,000	104,000	104,000
Kerbside Recycling (Bins for population growth - note 1)	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900
New Initiatives (eg MRF)	30,000	30,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
Start up Invessel Compost Plant	150,000	2,893,500	2,893,500	500,000						
Strategic Land Purchase Reserve	0	500,000								
Project management - Invessel Compost Plant	51,204									
<b>Support</b>										
Equipment & Computer Software	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000	26,000
TOTAL FIXED ASSETS	879,604	4,007,400	3,303,000	893,900	453,900	463,900	423,900	581,300	857,400	543,900
TOTAL NEW ASSETS	3,919,613	6,030,970	5,256,570	2,939,570	2,516,250	2,644,650	2,614,250	2,769,750	3,057,450	10,488,150

RESPONSIBLE COMMITTEE:	SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE
BUSINESS UNIT:	CITY WATER AND WASTE
OUTPUT CLASS:	CAPITAL OUTPUTS

Description	2002/2003 Year 1	2003/2004 Year 2	2004/2005 Year 3	2005/2006 Year 4	2006/2007 Year 5	2007/2008 Year 6	2008/2009 Year 7	2009/2010 Year 8	2010/2011 Year 9	2011/2012 Year 10
<b>SUMMARY</b>										
RENEWALS & REPLACEMENTS	6,912,183	8,421,336	7,820,736	7,039,936	7,376,736	7,324,236	6,887,736	9,933,435	8,881,435	9,239,796
ASSET IMPROVEMENTS	11,822,008	17,027,300	13,875,900	12,037,400	10,692,000	5,030,700	5,030,700	3,869,700	4,588,100	3,599,000
NEW ASSETS	3,919,613	6,030,970	5,256,570	2,939,570	2,516,250	2,644,650	2,614,250	2,769,750	3,057,450	10,488,150
<b>TOTAL CITY WATER &amp; WASTE</b>	<b>22,653,804</b>	<b>31,479,605</b>	<b>26,953,206</b>	<b>22,016,906</b>	<b>20,584,986</b>	<b>14,999,586</b>	<b>14,532,686</b>	<b>16,572,885</b>	<b>16,526,985</b>	<b>23,326,946</b>
<b>Annual Plan 2001/2002</b>	19,456,117	29,494,946	29,741,560	25,363,910	25,014,425	23,917,190	14,548,840	14,475,890	17,597,779	17,546,139
<i>Variance</i>	-6,841,142	1,738,045	1,589,296	-2,997,519	-3,332,204	450,746	56,796	-1,024,894	-1,019,154	
<i>Cumulative Variance</i>	-6,841,142	-5,103,096	-3,513,801	-6,511,320	-9,843,524	-9,392,778	-9,335,983	-10,360,877	-11,380,031	
<b>SUMMARY - INFRASTRUCTURAL ASSETS / FIXED ASSETS</b>										
<b>Water Supply</b>										
RENEWALS & REPLACEMENTS	3,670,756	3,408,040	3,326,640	3,616,040	3,632,240	4,299,140	4,127,640	4,126,539	4,154,339	4,223,100
ASSET IMPROVEMENTS	243,829	242,100	226,300	164,300	179,300	209,000	209,000	209,000	209,000	209,000
NEW ASSETS	1,966,880	1,496,820	1,502,820	1,403,920	1,695,600	1,814,000	1,823,600	1,821,700	1,833,300	6,677,500
Total - Water Supply	5,881,466	5,146,960	5,055,760	5,184,260	5,507,140	6,322,140	6,160,240	6,157,239	6,196,639	11,109,600
<b>Wastewater</b>										
RENEWALS & REPLACEMENTS	2,666,227	3,730,896	3,173,596	3,118,896	3,220,096	2,133,896	2,060,096	2,216,896	2,328,196	2,375,696
ASSET IMPROVEMENTS	11,349,579	12,982,900	12,688,700	11,827,700	10,436,700	4,745,700	4,745,700	3,531,700	4,292,700	3,314,000
NEW ASSETS	1,073,129	526,750	450,750	641,750	366,750	366,750	366,750	366,750	366,750	3,266,750
Total - Wastewater	15,088,935	17,240,546	16,313,046	15,588,346	14,023,546	7,246,346	7,172,546	6,115,346	6,987,646	8,956,446
<b>TOTAL INFRASTRUCTURAL ASSETS</b>	<b>20,970,401</b>	<b>22,387,506</b>	<b>21,368,806</b>	<b>20,772,606</b>	<b>19,530,686</b>	<b>13,568,486</b>	<b>13,332,786</b>	<b>12,272,585</b>	<b>13,184,285</b>	<b>20,066,046</b>
<b>TOTAL FIXED ASSETS</b>	<b>1,683,403</b>	<b>9,092,100</b>	<b>5,584,400</b>	<b>1,244,300</b>	<b>1,054,300</b>	<b>1,431,100</b>	<b>1,199,900</b>	<b>4,300,300</b>	<b>3,342,700</b>	<b>3,260,900</b>
<b>TOTAL CITY WATER &amp; WASTE</b>	<b>22,653,804</b>	<b>31,479,605</b>	<b>26,953,206</b>	<b>22,016,906</b>	<b>20,584,986</b>	<b>14,999,586</b>	<b>14,532,686</b>	<b>16,572,885</b>	<b>16,526,985</b>	<b>23,326,946</b>

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2001/2002 Present Charge  (Inc. GST)	2001/2002 Ext Revenue from Present Charge  (Excl GST)	2002/2003 Proposed Charge  (Incl GST)	2002/2003 Projected Ext Revenue From Proposed Charge (Excl GST)	2002/2003 Projected Ext Revenue as a percentage of Total Cost	Notes
<b>WATER SUPPLY</b>						
<b>Water Applications</b>						
Water Supply Connection Fees & charges - standard domestic	\$345	\$535,000	\$370	\$500,000	100.0%	
Commercial & Industrial Connection - Administration & Engineering fees	\$67.50 per conn	\$10,000	\$67.50 per conn	\$10,000	100.0%	
<b>Supply Of Water</b>						
Rural Restricted Water Supply - see note (1)	\$65 per Unit/annum	\$6,000	\$65 per Unit/annum	\$6,000	100.0%	
Water Consumption Charges	Pre-paid allowance based on one cubic metre for every 27c of water rate levied		Pre-paid allowance based on one cubic metre for every 27c of water rate levied		100.0%	
	Water used above allowance charged at 33c per Cu/M	\$1,290,000	Water used above allowance charged at 33c per Cu/M	\$1,372,000		
	Consumers not paying a water rate 33c /Cu/M Flat		Consumers not paying a water rate 33c /Cu/M Flat			
Supply of Bulk Water ex Fire Hydrant	\$70/hr	\$5,000	\$70/hr	\$5,000	100.0%	
Non Metered Fire Fighting Connection	\$100/pa.	\$45,000	\$100/pa.	\$45,000		
Landsdowne - Sale of Water	\$0.60 per Cu/M	\$12,000	\$0.60 per Cu/M	\$12,000	100.0%	
					100.0%	

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2001/2002 Present Charge  (Inc. GST)	2001/2002 Ext Revenue from Present Charge  (Excl GST)	2002/2003 Proposed Charge  (Incl GST)	2002/2003 Projected Ext Revenue From Proposed Charge (Excl GST)	2002/2003 Projected Ext Revenue as a percentage of Total Cost	Notes
<b>RECOVERABLE EXPENDITURE</b>						
New Sub-Mains/Connections - Cost Share		\$44,000		\$98,000		
Damage Recoveries		\$47,000		\$48,000		
Miscellaneous		\$5,000		\$5,000		
Upgrading Contributions		\$500,000		\$550,000		
Landsdowne Scheme		\$20,000		\$30,000		
Commercial/Industrial Connections		\$75,000		\$110,000		
<b>TOTAL WATER SUPPLY</b>		<b>\$2,594,000</b>		<b>\$2,791,000</b>		

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2001/2002 Present Charge  (Inc. GST)	2001/2002 Ext Revenue from Present Charge  (Excl GST)	2002/2003 Proposed Charge  (Incl GST)	2002/2003 Projected Ext Revenue From Proposed Charge (Excl GST)	2002/2003 Projected Ext Revenue as a percentage of Total Cost	Notes
<b>WASTEWATER</b>						
<b>Trade Wastes</b>						
Annual Charges - for flow rate up to 5m <sup>3</sup> / day	Varies from \$130.50 p.a. to \$515.25 p.a.	\$200,000	Varies from \$135.00 p.a. to \$397.13 p.a.			
Quarterly Charges - for flow rate over 5m <sup>3</sup> / day				\$1,800,000		
Volume	\$0.32974/m3		\$0.36113/m3			
Suspended Solids	\$0.22793/kg	\$1,200,000	\$0.21431/kg		100%	
BOD	\$0.18405/kg		\$0.17910/kg			
Tanker Registrations	\$10/tanker p.a. \$13.50/m3	\$60,000	\$18.00/m3	\$85,000	100.0% 100.0%	
Application Fees	actual costs	\$10,000	actual costs	\$10,000	100.0%	
Trade Waste Discharge Analysis	actual costs	\$10,000	actual costs	\$10,000	100.0%	
<b>Other Charges</b>						
Sale of Energy	Varies according to tarriff	\$50,000	Varies according to tarriff	\$132,000	100.0%	
Miscellaneous Sales (Scrap etc)	varies	\$5,600	varies	\$5,600	N/A	
Sewer Lateral Recoveries		\$10,000		\$10,000	100.0%	
Acceptance of Airport Sewage		\$120,000		\$120,000	100.0%	
Acceptance of Selwyn District Sewage		\$96,000		\$96,000		
CWTP Capacity Upgrade Charge - Connection Fee	\$607.50 per connection	\$500,000	\$607.50 per connection	\$650,000	100.0%	
Cost Sharing Contributions		\$20,000		\$20,000		
Laboratory Services	Varies	\$41,747	Varies	\$41,008	100.00%	
Hire of Equipment	Varies	\$4,000		\$0	100.00%	
Stormwater Inflow Recoveries		\$2,000		\$2,000		
Geodata - Sale of Plans	\$10.00/ A4 sheet	\$20,000	\$10.00/ A4 sheet	\$20,000	100.0%	
<b>TOTAL WASTEWATER</b>		<b>\$2,349,347</b>		<b>\$3,001,608</b>		

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2001/2002 Present Charge  (Inc. GST)	2001/2002 Ext Revenue from Present Charge  (Excl GST)	2002/2003 Proposed Charge  (Incl GST)	2002/2003 Projected Ext Revenue From Proposed Charge (Excl GST)	2002/2003 Projected Ext Revenue as a percentage of Total Cost	Notes
<b>SOLID WASTE</b>						
<b>Refuse Bag &amp; Other Charges</b>						
Plastic Bags	\$0.90/bag	\$600,050	\$1.00	\$665,050	100%	
Trailer Nets and Other	varies	\$3,000	varies	\$3,000		
<b>Refuse Stations</b>						
<b>General Refuse - See note (2)</b>						
All vehicles(both private & commercial) charged by weight at the same rate and classified as "General Refuse"						
General Refuse (Refuse Stations and Landfill)	\$73.25/tonne	\$10,325,578	\$87.50/tonne	\$11,356,782	100%	(a)
Private vehicles -Rubble (charged by weight)	\$35.80/tonne	\$175,020	\$35.80/tonne	\$159,109	100%	
All vehicles minimum charge	\$5.00/load		\$5.00/load			
<b>Landfill Direct</b>						
Hardfill	\$35.80/tonne	\$254,575	\$35.80/tonne	\$222,753	100%	
General Refuse	\$73.25/tonne	\$1,045,788	\$87.50/tonne	\$1,052,484		
Special and Treated Hazardous Waste (01/02 included in Regional (Waimakariri DC)	\$73.25/tonne		\$110.00/tonne	\$573,999		
Regional (Waimakariri DC)	\$33.90/tonne	\$391,726	\$33.90/tonne	\$391,726	100%	
Regional (Ashburton DC)	\$33.90/tonne	\$195,863	\$33.90/tonne	\$195,863	100%	
Regional (Banks Peninsula DC)	\$33.90/tonne	included in General Refuse	\$33.90/tonne	\$15,066		
Regional (Hurunui DC)	\$0.00	\$0	\$33.90/tonne	\$60,266		
Regional (Selwyn DC)	\$33.90/tonne	included in General Refuse	\$33.90/tonne	\$45,199		
All vehicles Minimum Charge	\$5.00/load		\$5.00/load			

RESPONSIBLE COMMITTEE:		SUSTAINABLE TRANSPORT AND UTILITIES COMMITTEE				
BUSINESS UNIT:		CITY WATER AND WASTE				
ACTIVITY:		FEES SCHEDULE				
Fees Description	2001/2002 Present Charge  (Inc. GST)	2001/2002 Ext Revenue from Present Charge  (Excl GST)	2002/2003 Proposed Charge  (Incl GST)	2002/2003 Projected Ext Revenue From Proposed Charge (Excl GST)	2002/2003 Projected Ext Revenue as a percentage of Total Cost	Note
<b>Green Waste - See note (4)</b>						
Organic Waste	\$44.00/tonne	} \$1,256,807	\$52.50/tonne	} \$1,589,293		
Minimum Charge - cars/station wagons	\$3.00/load		\$3.00/load			
- all other vehicles (including trailers)	\$4.00/load		\$4.00/load			
Mixed Load green / refuse (more than 50% green)	\$60/tonne		\$71.50/tonne			
Mixed Load green / rubble (more than 50% rubble)	\$40/tonne		\$55.00/tonne			
Minimum charge (mixed load)	\$5/load		\$5.00/load			
Compost Sales	\$2.50/cu m Bulk Sale	\$52,250		\$50,000	75.6%	
<b>Recycling</b>						
Commercial Waste Reduction		\$100		\$100		
Domestic Composting		\$500		\$500		
Kerbside Recycling Crate Sales	\$8.50/crate	\$500	\$8.50/crate	\$500	100.0%	
<b>TOTAL SOLID WASTE</b>		<b>\$14,301,757</b>		<b>\$16,381,690</b>		
<b>TOTAL CITY WATER &amp; WASTE</b>		<b>\$19,245,104</b>		<b>\$22,174,298</b>		

Note (1) A unit is an amount of water flowing through a restrictor that allows a flow of up to 1 cubic metre per day.

Note (2) In 2000 the Council resolved to increase the general refuse rate in 3 equal steps over the years 2001/02, 2002/03 and 2003/04 up to the level required when the new Canterbury Regional Landfill opens. The 2002/03 general refuse rate is the second of these three steps. At the same time that the Council resolved to increase the refuse fees it also resolved to fix the greenwaste rate at 60% of the general refuse rate to strike a balance between the need to offer an incentive to the public to recycle greenwaste and the need to (partially) cover the greenwaste processing cost.

Note (3) The \$20/tonne relates only to Commercial Operators.

Note (4) All greenwaste vehicles (both private & Commercial) now charged by weight at the same rate and classified as "Organic Waste" (rate = 60% of refuse).