

**KAIKOURA DISTRICT COUNCIL WORKS AND SERVICES
COMMITTEE MEETING HELD ON WEDNESDAY 15 JUNE
2011 IN MEMORIAL HALL SUPPER ROOM, ESPLANADE,
KAIKOURA.**

AGENDA

1. Apologies

2. Matters of Importance to be raised as Urgent Business.

3. Matters Arising from Report of 18/05/2011 *page 64*

4. Reports:

- **Works and Services Report** *page 1*
- **Roading Report** *page 10*
- **Works and Services Budget Report** *page 23*

5. Urgent Business

6. Works & Services Public Excluded Session

Moved, seconded that the public be excluded from the following parts of the proceedings of this meeting, namely

a) Confirmation of Minutes 18/05/2011

The general subject matter to be considered while the public is excluded, the reason for passing this resolution in relation to each matter, and the specific grounds under Section 48(1) and 7 of the Local Government Information and Meetings Act 1987 for the passing of this resolution are as follows:

General subject of each to be considered	Reason for passing this resolution in relation to each matter	Grounds of the Act under which this resolution is made
Confirmation of Minutes 18/05/2011	The exclusion of the public from the whole or the relevant part of the proceedings of the meeting is necessary to protect information where making available of the information would be likely to prejudice the commercial position of the person who supplied or who is the subject of the information.	Section 48(1)(a) and 7(2)(b)(ii)

WORKS AND SERVICES REPORT

1.0 WATER SUPPLY

Urban Water

Operations – Kaikoura Urban Supply

The Kaikoura Urban supply operated fairly well during the reporting month.

Operations – Suburban Supply

There were no major problems with this system during the reporting month.

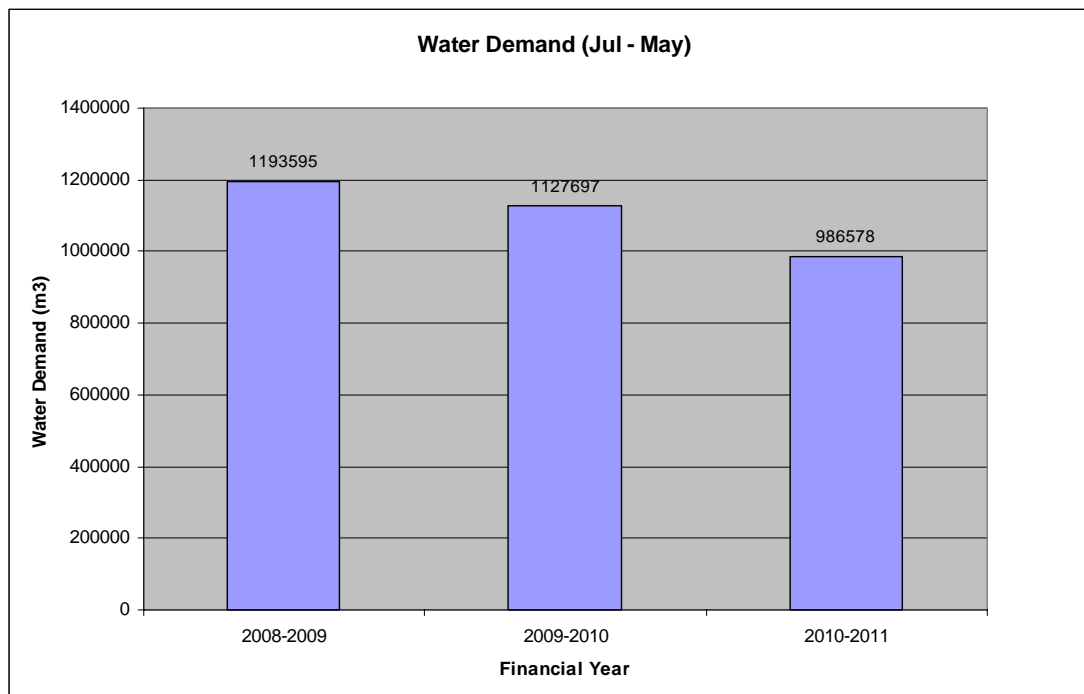
Water Demand

Table 1 below shows the water demand for the reporting month measured from the Mackles bore while figure 1 on page 8 shows the yearly cumulative water demand since 2007.

<i>Water Demand (m³/day)</i>				
	<i>Min (m³)</i>	<i>Avg (m³)</i>	<i>Max (m³)</i>	<i>Total Demand (m³)</i>
<i>Mar 2011</i>	2312	2839	3567	88,009
<i>April 2011</i>	2184	2525	2921	75615
<i>May 2011</i>	1980	2219	2465	68782

Table 1: Water Demand for reporting period

Based on the financial year calendar, the cumulative water usage (demand) to date is shown in fig 1 below.



Kincaid Water Supply

There were no major issues with the Kincaid supply during the reporting month.

Work for the construction of the new shed to house the treatment system is almost completed. The treatment system will be installed during month of June. It is anticipated that the treatment system will be up and running by June 30th, 2011.

Water Upgrades /Renewal Projects - Capital Assistance Programme (CAP)

Peninsula Tank

Since our last contact with Chorus we have not received any feed back regarding progress on acquiring the land for the Peninsula Tank.

We are also awaiting a response from the Ministry of Health regarding our request for an extension of time to complete the works.

2.0 SEWER SYSTEM

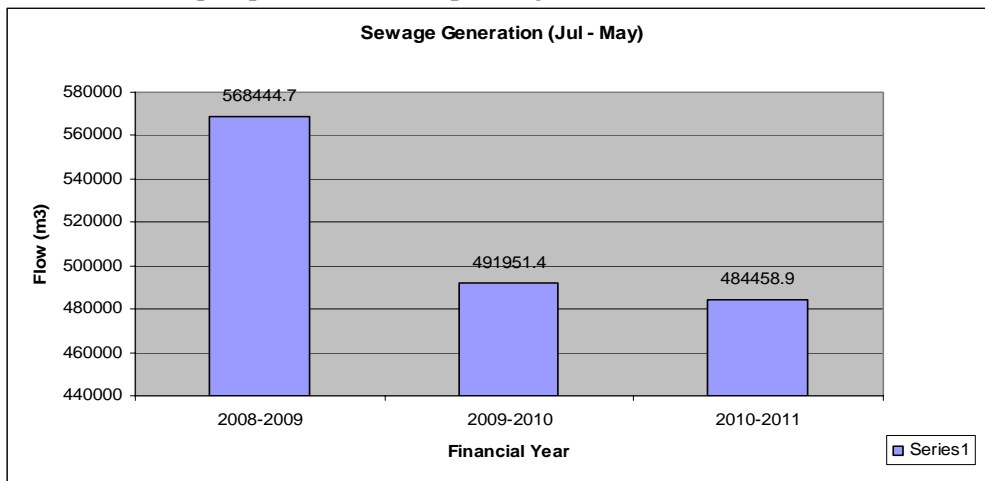
Table 3 below shows the average sewage flows for the reporting month as measured at the Mill Road pumping station while figure 2 on page 9 shows the sewage generation to date in comparison to previous years.

The total flow for the month of April 2011 was approximately 47,301m³

<i>Sewage flows (m3/day) – Mill Rd</i>			
	<i>avg</i>	<i>max</i>	<i>Total Flow</i>
<i>Feb 2011</i>	1572	2093	44004
<i>Mar 2011</i>	1598	2820*	49535
<i>April 2011</i>	1526	2043*	47301

Table 2 : Sewage generated for reporting period

The measured Dissolved Oxygen (DO) averaged 1.2mg/l for the reporting month. The DO was low as a result of continuous pumping from the anaerobic lagoon due to a pump malfunction. During the period of the pump malfunction the level in the pond was high and once the pump was reinstated it was pumped down to its operating level.



We are still awaiting the supply of the new pump for the South Bay pumping station.

2.1 Sewer Renewals

A newsletter in the form of a booklet was delivered to each business within the West End. To date we have had only two enquires from the following:

1. Coopers Catch regarding concerns about delivery to their site etc. They were asked to email us with information of dates and time of delivery so that we can forward it to the contractor for them to take this into consideration during the construction period.
2. Adelphi – Wanting to know the contractors details so that they can contact them regarding any arrangement for meals etc.

2.2 Aerated Lagoon

The civil works for this new asset are progressing. At the time of writing this report the liner has been installed however there are some remedial works to be carried out on the pond.

The contractor who is installing the blowers is due in Kaikoura on Tuesday June 6th, 2011 which will be followed by the installation of the air distribution pipes and diffusers. We anticipate that all the works will be completed by June 30th, 2011.

KDC Trunk Sewer Main Assessment – Hawthorne Road to Mill Road

Background

Kaikoura District Council applied for and received funding of approximately NZ\$1.6million dollars from the Ministry of Tourism in 2006 towards the implementation of upgrading works for the sewer network.

The upgrade works identified were to increase the capacity of the network up to year 2025. A summary of the identified works and work progress is shown in the table below.

Pump Station and Rising Main Stage 1	\$1,106,820.55	
Professional Fees and Resource Consent	\$20,000.00	Completed
Gravity Main To Ludstone Road	\$246,215.55	Completed
Gravity Main To Ludstone Road MHN - MHQ	\$40,605.00	Completed
Ludstone Road Pump Station and Rising Main	\$800,000.00	Completed
TREATMENT FACILITY - STAGE 1	\$905,206.44	
Professional Fees and Resource Consent	\$90,260.00	Completed
Build 4 New Infiltration Beds + Pump Station	\$344,946.44	Completed
Install Screen	\$120,000.00	Completed
Desludge Pond	\$350,000.00	Completed
TREATMENT FACILITY - STAGE 2	\$670,000.00	
Professional Fees and Resource Consent	\$60,000.00	Completed
Partition Pond	\$100,000.00	Completed
Install Additional aerators	\$150,000.00	Completed
Build Aerated Lagoon	\$360,000.00	In Progress

Pump Station and Reticulation Stage 2	\$2,250,000.00	
Churchill Street Pump Station	\$175,000.00	Completed
Churchill Rising Main	\$75,000.00	Completed
Professional Fees and Resource Consent	\$100,000.00	Not Started
Land Purchase, Legal and Survey	\$100,000.00	Not Started
Trunk Main Hawthorne To Mill Road	\$1,000,000.00	Not Started
Trunk Main Mill Road To Pond	\$800,000.00	Not Started

As can be seen from the table above the only works outstanding to fulfil our agreement with the Ministry is for the work to lay a parallel main from Hawthorne Road to Mill Road and upgrading of the rising main to the Oxidation Pond. The total estimated cost for this work is approximately \$2,000,000.

It was recognized that more investigation was required to confirm the capacity of the sewer mains between Hawthorne Road and Mill Road and the rising main from Mill Road to the oxidation pond prior to the implementation of a parallel main. The idea of a parallel main was recommended based on previous investigations which considered the initial sizing of the pipes based on future peak flow calculations rather than detailed modelling analysis work by the then consultant.

As such Kaikoura District Council commissioned Pattle Delamore Partners Ltd to carryout a review into the sewer network. The main objective of the review exercise was to:

- Confirm the need to duplicate the trunk main between Hawthorne Road PS to Gillings Lane PS and to Mill Road PS to accommodate future flows.
- Determine whether or not it is necessary to duplicate the trunk main and assess what planning horizon the upgrade needs to be implemented.
- Consider alternative options to replace or offset the need for the duplicate main, including up-grading of the pumps.
- Confirm the need to duplicate or upsize the rising main between Mill Road PS to the Oxidation Pond to accommodate future flows.

The report from Pattle Delamore concluded that the existing sewer system has sufficient capacity to meet the average dry weather flows for the next 10 years and also meets the current Environment Canterbury requirements to satisfy condition WQL40 of the Natural Regional Resource Plan (NRRP).

It was identified that the bottleneck within the system is at the Gillings Lane Pump Station and the Mill Road Pump Station where additional pumping capacity is required. This additional pumping capacity can be achieved by increasing the size of these pumps.

As the capacity of the gravity trunk mains exceeds that of the pumping mains it is therefore concluded that if growth and development rates remain at their low rates and that Council continue to control and eliminate storm inflows and infiltrations then it is not considered necessary to upgrade the gravity trunk sewers at this stage. However in the immediate term, it is recommended that the trunk sewer upgrades consist of upgrading of the capacity of the pumping stations.

Pattle Delamore have identified and estimated the cost for a list of projects required to increase the sewer system capacity to meet the demand for the next 10 to 15 years. The total estimated cost for this option is \$710,000.

Recommendation

It is recommended that Council accept the conclusions and recommendations of the Pattle Delamore report and request a variation to the agreement with the Ministry of Tourism to implement the pump station upgrade works as outlined in the proposal from Pattle Delamore instead of laying the initially proposed parallel trunk mains.

3.0 STORMWATER

Urban Stormwater

There were no major issues for the reporting month.

Sullivan's Gully Stormwater system upgrade is completed as per the schedule with tidying up of the area remaining.

4.0 PARKS AND RESERVES

The parks and reserve sites are in fair condition. During the month we received two complaints regarding the condition of the lower section of Toms Track. This section has been identified for track works within the next financial year however for now the contractor will be raking the washed out chips back onto the path to reduce the slippery state and will also be reinstating the dislodged steps.

5.0 PUBLIC TOILETS

The toilets are in fair condition.

The new camera to replace the one that was stolen has now been installed.

6.0 Natural Burials

Gilbert Haymes and Associates have carried out the surveying works to ascertain the areas within the cemetery.

From the plans submitted (please refer to attached plan) the following was gathered;

1. Approximately 940m² are remaining in the RSA sections.
2. 7345m² is available next to the existing Catholic section – If we assume that majority of the burials within the used area occupying 3890m² occurred within the last 20years we can fairly assume that the area occupying 7345m² will last another 37 years if the rate of uptake remains the same.

From information on file there has been 60 ashes plot burials between 2004 and 2010 at an average of approximately 9 per year whereas for lawn burial there have been 97 at an average of 14 per year.

3. Approximately 5070m² of sloping land which will not be adequate for normal burial. It must be noted that there are plantings within this area that were carried out by Trees for Travellers. We are not sure of the adequacy of this rolling section for natural burials.

In general, the cemetery occupies 4.7568 hectares which means only approximately 17% or 0.8285 hectares remains that can be used for “standard burial”. If the 0.8285 hectares is to be used solely for “standard burials”, then approximately 0.5070 hectares which lies on a steep area is the only remaining area that could be used for natural burials once it has been established that the existing slope can accommodate this type of burial.

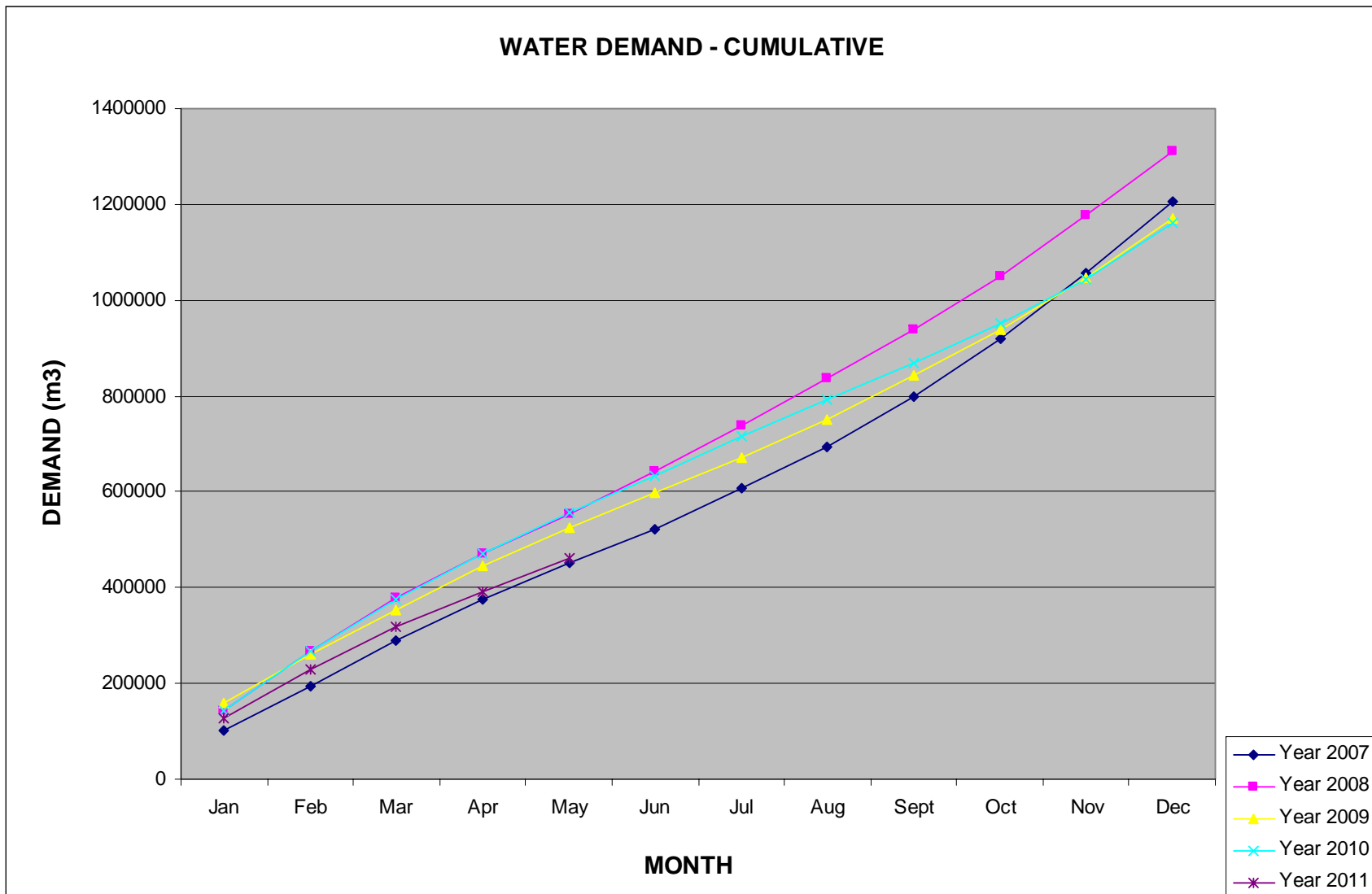


Figure 1: Yearly Cumulative Water demand

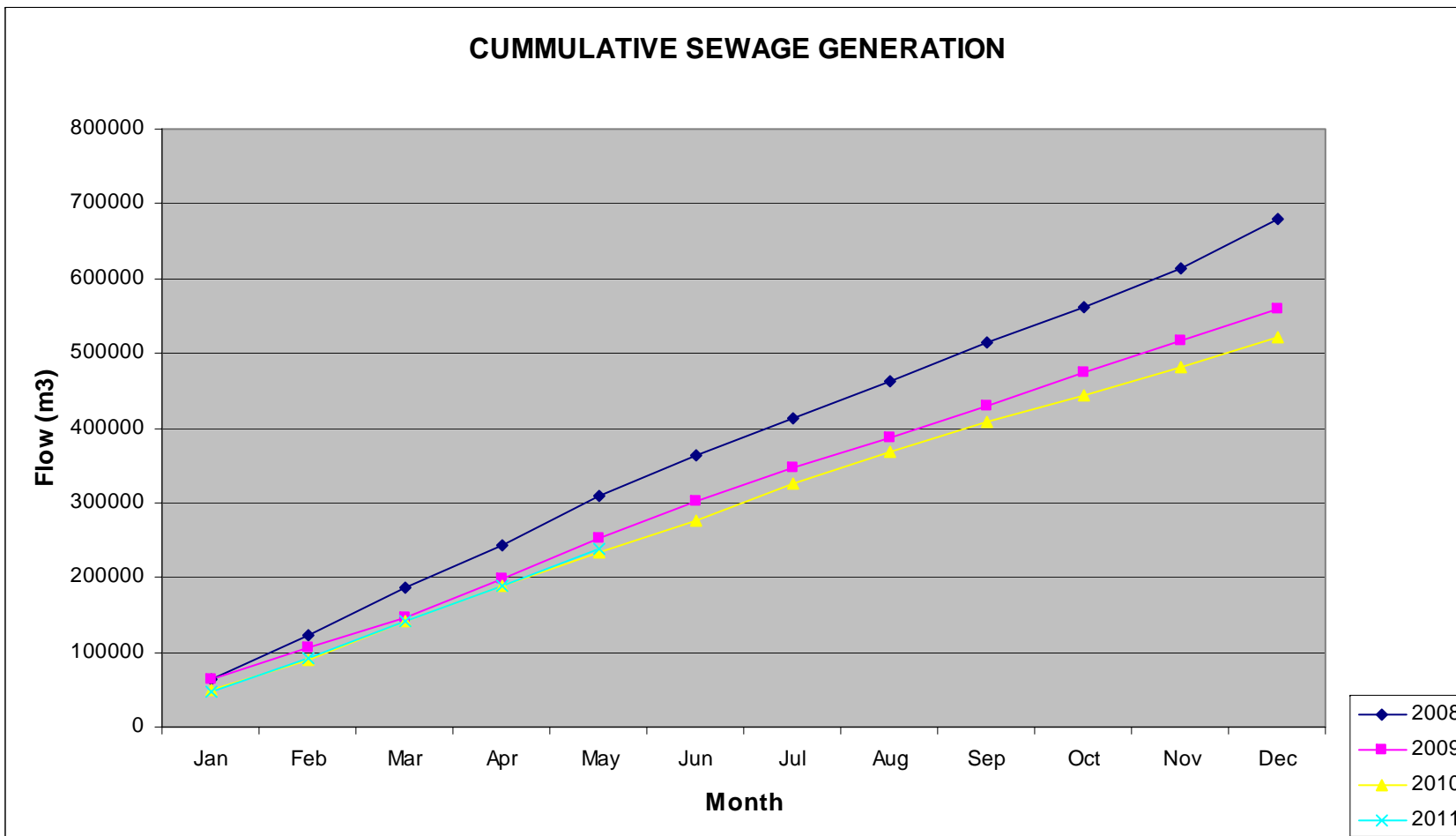


Figure 2: Yearly Sewage Generation

ROADING REPORT

1.0 Blue Duck Valley Road

A site visit was carried out with Environment Canterbury (ECAN) representatives on the 16th May 2011 regarding the disposal of the slip material from the site. ECAN have agreed for us to carefully place the material (i.e. using a digger) over the bank adjacent to the existing spill material and working up the road provided a minimum of a 15m buffer from the base of the spilled material to the waterway is maintained.

2.0 Hawthorne Rd – Upper Section

This section of road is heavily used by trucks overnight causing serious edge breaks and potholes on the road and the residence driveways. We have tidied up the damaged areas including all the driveways within the section.

3.0 Work Completed –

In addition to other routine maintenance work the following roads were graded during the month of May

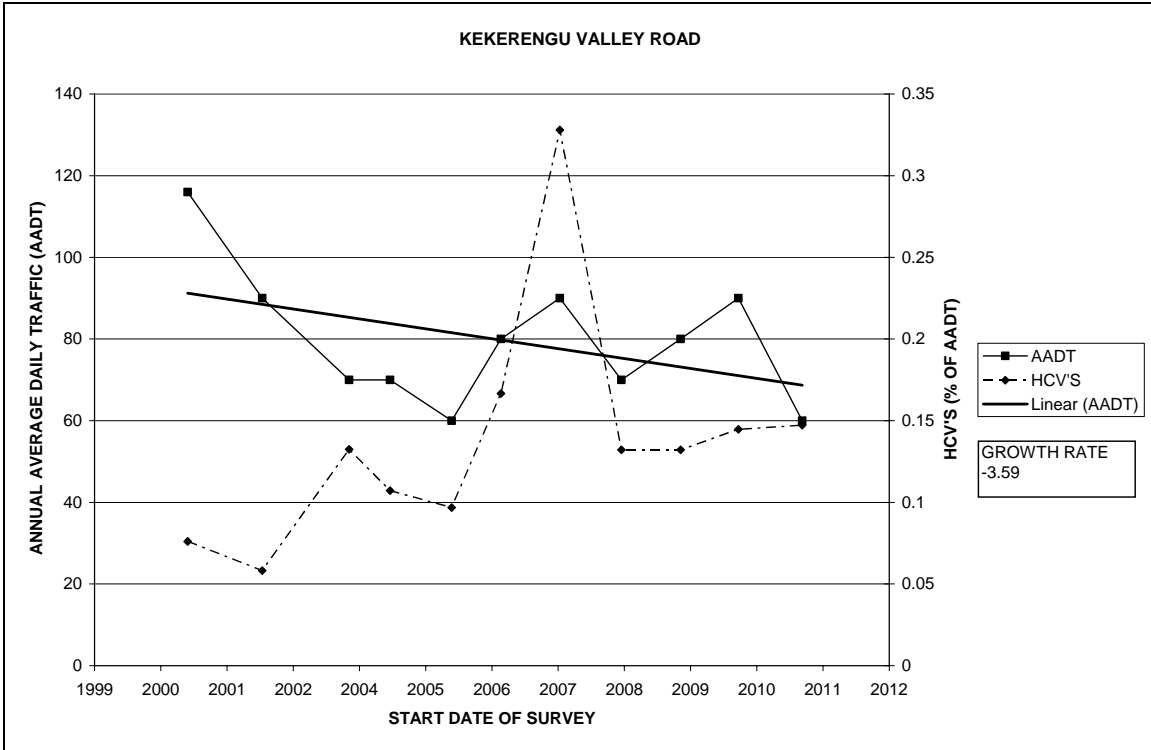
Clarence Valley Road
Grange Road
Green Lane
Kiwa Road
Harris Lane
Kowhai Ford Road
Matariki Road
Red Swamp Road
Silverspring Road
Waiautoa Road
Waipapa Road
Skevingtons Road

4.0 Traffic Count

Traffic Count for the month of April 2011 was on Kekerengu Valley Road, Killarney Street and Inland Road.

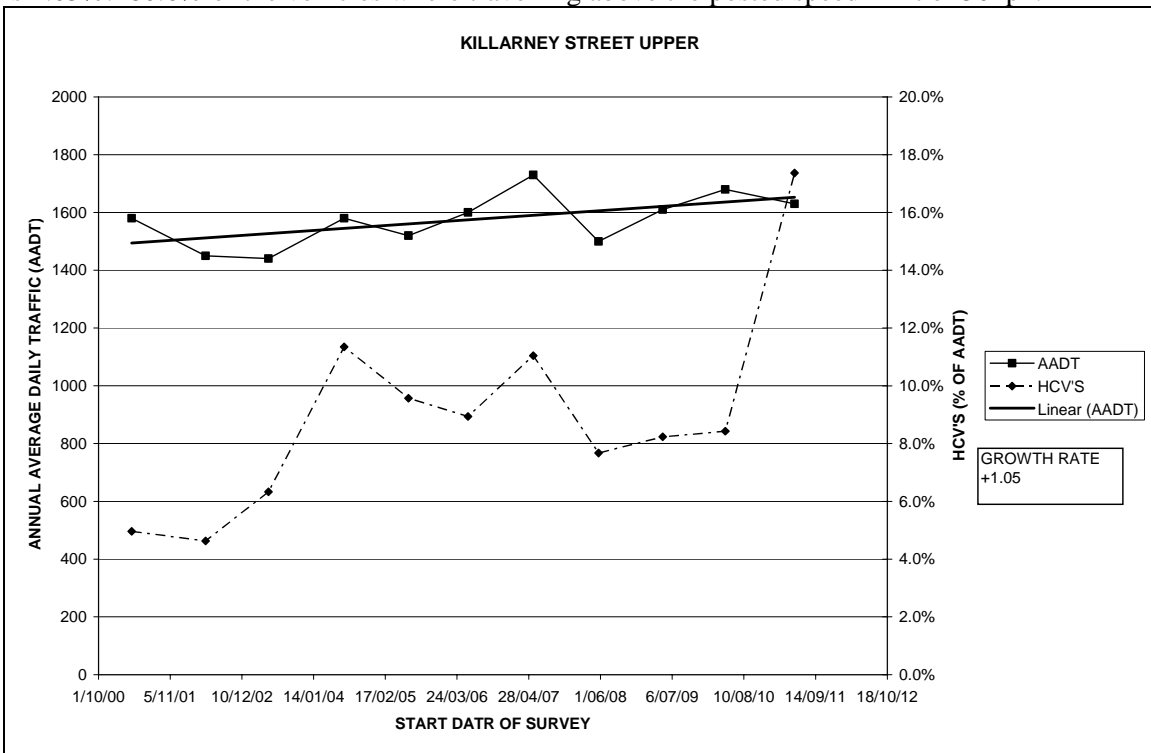
Kekerengu Valley Road– 65 Vehicles per Day (vpd)

The average annual daily count is 60 and the overall AADT growth rate since 2001 is -3.59%. 64.2% of the vehicles were travelling above the posted speed limit of 50kph



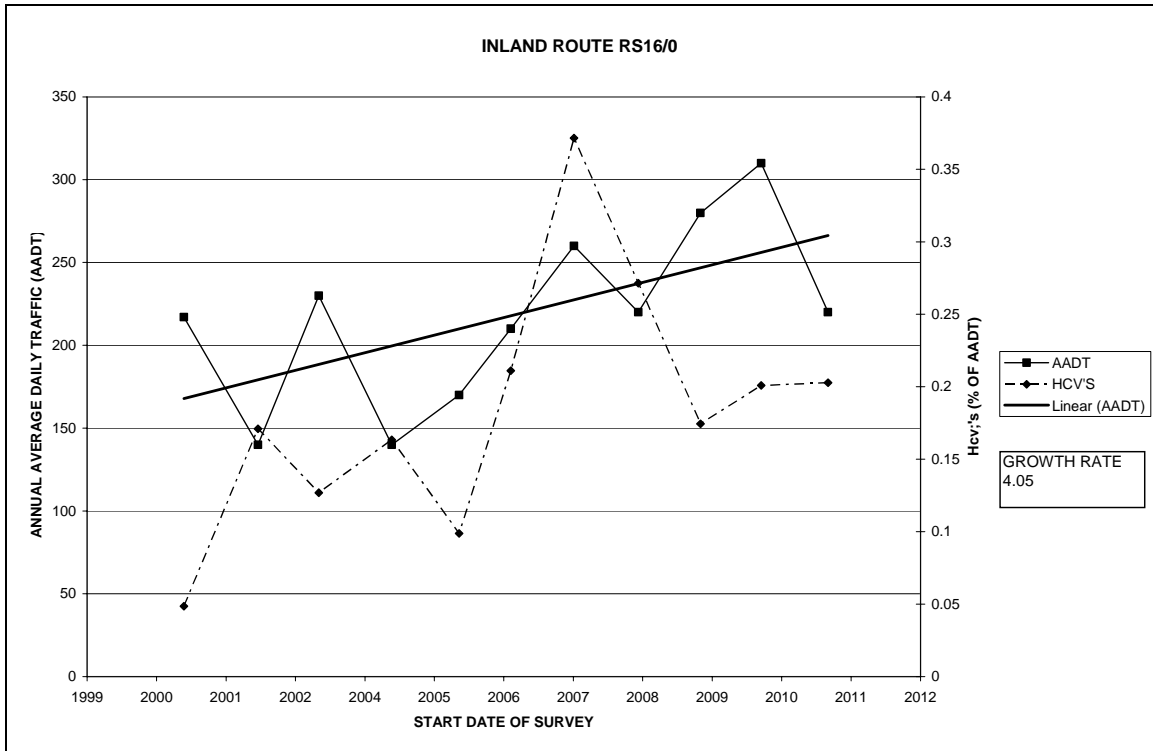
Killarney Street– 1546 Vehicles per Day (vpd)

The average annual daily count from 2011 is 1546 and the overall AADT growth rate since 2001 is 1.05%. 80.6% of the vehicles were travelling above the posted speed limit of 50kph.



Inland Road RS 16/00 - 209 Vehicles per Day (vpd)

The average annual daily count for 2011 is 220 and the overall AADT growth rate since 2001 is 4.31%. 31.4% of the vehicles were travelling above the posted speed limit of 100kph. 19.9% of these were travelling between 100 and 110kph.



Copies of the traffic count reports are sent to the Kaikoura Police for their information.

5.0 Quality

There were no quality issues during May 2011

6.0 Environmental

There were no environmental issues during this reporting period.

7.0 Traffic Control

There were no traffic control issues to report for the period.

8.0 Monthly Performance Report – May 2011

Performance Indicators	Type	Response	Response	Number	Outside Period	% Acceptable
Surfacing	Strategic	6 Weeks	42	0	0	
Surfacing	Local	8 Weeks	56	1	0	100%
Potholes	Strategic	2 Days	2	4	0	100%
Potholes	Local	7 Days	7	1	0	100%
Detritus & Slip Removal	Strategic	2 Days	2	0	0	
Detritus & Slip Removal	Local	7 Days	7	3	0	100%
Drainage	All	12 Hours	1	4	1	75%
Unsealed Pavement Potholes	Local	7 Days	7	696	0	100%
Unsealed Pavement Digouts	Local	6 Weeks	42	0	0	
Edge Marker Post	All	7 Days	7	0	0	
Signs and Chevrons	All	24 Hours	1	3	0	100%
Sight Rails and End Markers	All	48 Hours	2	0	0	

9.0 Inspections

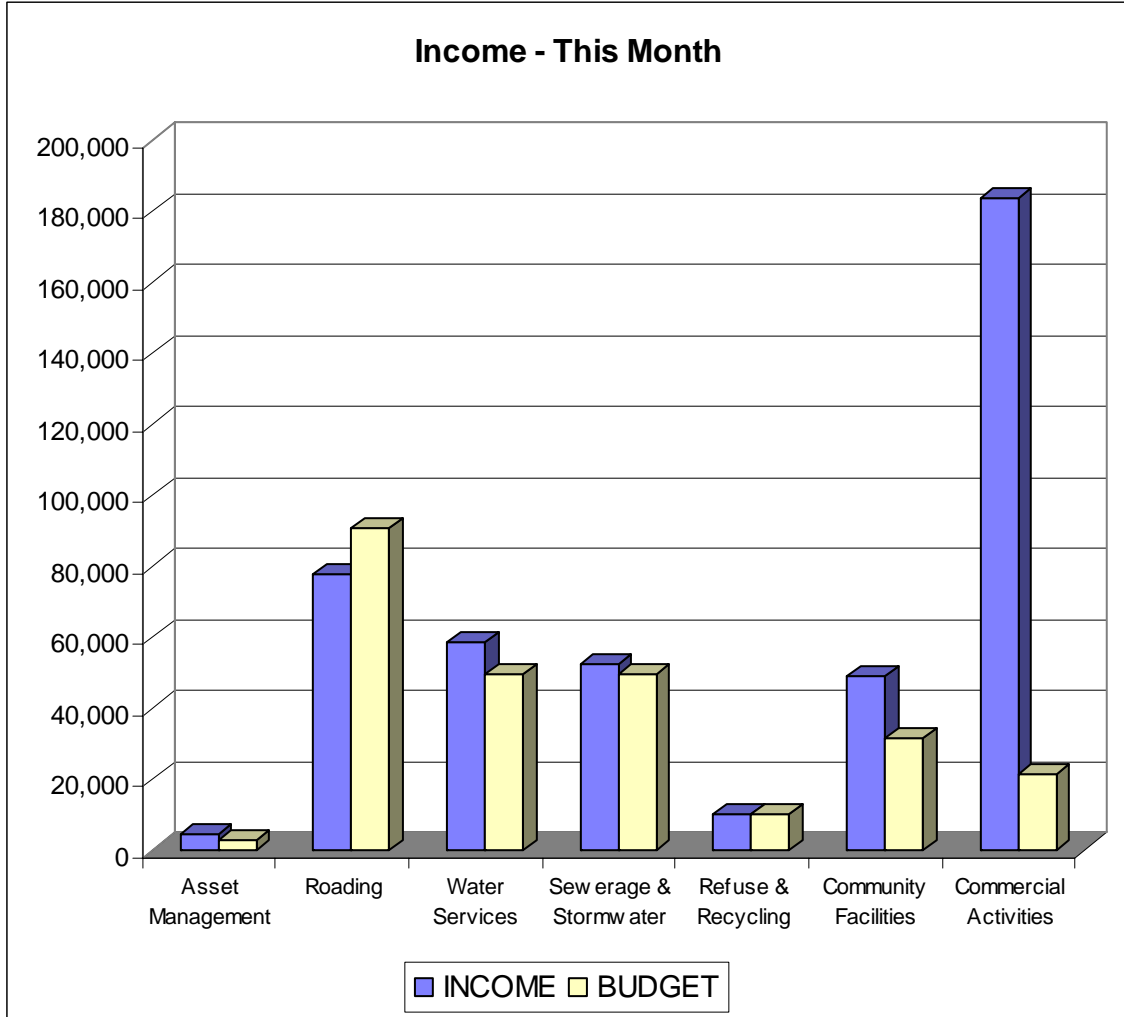
The monthly roading inspection is being carried out as specified.

10.0 Summary of Work Completed in May

									centre line
HARRIS LANE			Graded						
HAWTHORN RD EAST				Sweep road					
INLAND ROUTE RS00/0	3 potholes repaired				Grade off shoulders - rebuild new drains - K Boyd				
INLAND ROUTE RS16/0	1 pothole repaired	2nd coat sealing							
KILLARNEY STREET UPPER							25k curve sign knocked over		
KIWA ROAD			Graded						
KOWHAI FORD ROAD			Graded						
MATARIKI ROAD			Graded						
MCINNES ROAD	22 potholes repaired								
MOUNT FYFFE ROAD	46 potholes repaired								
POOLES ROAD	17 potholes repaired								
POSTMANS ROAD	17 potholes repaired								

PUHI PUHI ROAD	325 potholes repaired								
RED SWAMP ROAD	79 potholes repaired		Graded						
SCARBOROUGH STREET					Lower W/T			Beam mowed	
SCOTTS ROAD	104 potholes repaired								
SILVER SPRINGS ROAD			Graded						
SKEVINGTONS ROAD			Graded						
TOPLINE ROAD	76 potholes repaired								
TORQUAY STREET					Kerb & Channel 112 Torquay St				
WAIAUTOA ROAD			Graded						
WAIPAPA ROAD			Graded						
WAITANE ROAD								Road name sign knocked over	
WHALEWAY STATION ROAD								Car park sign knocked over	

Works and Services Budget Report



Expenditure - This Month

