

**KAIKOURA DISTRICT COUNCIL WORKS AND SERVICES  
COMMITTEE MEETING HELD ON WEDNESDAY 17  
FEBRUARY 2010 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 16/12/2009* *page 96*

*4. Minutes Action and Issues List Update*

<b>MEETING</b>	<b>ACTION REQUIRED</b>	<b>BY</b>	<b>DATE ACTIONED</b>
	<i>18 FEBRUARY 2009</i>		
Works & Services	Provide an update on Stock crossings	Asset Manger	Report included in agenda refer page 7

*5. Reports:*

- **Works and Services Report** *page 1*
- **Roading Report** *page 7*
- **Works and Services Budget Report** *page 18*

*6. Urgent Business*

# WORKS AND SERVICES REPORT

## 1.0 WATER SUPPLY

### *Urban Water*

#### Operations – Kaikoura Urban Supply

The Kaikoura Urban supply operated fairly well during the reporting months with no major problems.

#### Operations – Suburban Supply

There were no major operational problems with the Suburban supply during the reporting months.

#### Water Demand

Table 1 below shows the water demand for the reporting months measured from the Mackle's bore while figure 1 on page 5 shows the yearly cumulative water demand since 2006.

For the month of December 2009, the water demand totalled 124,698m<sup>3</sup> which was 17,955m<sup>3</sup> more than the water demand for November 2009 which totalled 106,743m<sup>3</sup>. The total water demand for January 2010 was 144,433m<sup>3</sup> or just over 20,000m<sup>3</sup> more than the demand for the month of December 2009.

It must be noted that the total water demand for 2009 was 139,399m<sup>3</sup> (381m<sup>3</sup>/day) less than in 2008.

<i>Water Demand (m<sup>3</sup>/day)</i>				
	<i>Min (m<sup>3</sup>)</i>	<i>Avg (m<sup>3</sup>)</i>	<i>Max (m<sup>3</sup>)</i>	<i>Total Demand (m<sup>3</sup>)</i>
<i>Nov 2009</i>	3027	3558	4281	106,743
<i>Dec 2009</i>	2938	4157	5267	124,698
<i>Jan 2010</i>	3684	4659	5635	144, 433

**Table 1: Water Demand for reporting period**

#### Kincaid Water Supply

There were no major operational problems during the reporting months for this water supply system.

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

Works funded by the Capital Assistance programme are underway.

1. **Fords Tank** – The work for the construction of this 1500m<sup>3</sup> storage tank is underway, the earthworks have been completed with the foundation yet to be constructed. The suppliers of the tank have indicated that the tank will arrive onsite mid March 2010.
2. **Peninsula Tank** – The works for the installation of this tank have not commenced as Council is still in the process of getting permission from the land owners regarding the selected site to erect the tank.
3. **Reticulation system** - Contract documents for the implementation of this work have been forwarded to the contractor for signing. Once the signed document is received at Council offices the works will be implemented. At the time of writing this we are also waiting for

Telecom to inform us if they will take the opportunity to lay ducting or carry out upgrade works in the areas where the water works will be carried out. MainPower Contracting Ltd is already on board and has given approval for their part of the works.

## 2.0 SEWER SYSTEM

Table 2 below shows the average sewage flows for the reporting months as measured at the Mill Road pumping station while figure 2 on page 6 shows the sewage generation to date (2009) in comparison to previous years.

The total flow for the month of December 2009 was approximately 43,846m<sup>3</sup> while the flow during the month of January 2010 was 49,370m<sup>3</sup>

<i>Sewage flows (m3/day) – Mill Rd</i>			
	<i>avg</i>	<i>max</i>	<i>Total Flow</i>
<i>Nov 2009</i>	1348	1615	41,801
<i>Dec 2009</i>	1414	1770	43,846
<i>Jan 2010</i>	1593	1842	49,370

**Table 2 : Sewage generated for reporting period**

The measured Dissolved Oxygen (DO) averaged 2.9 and 3.1mg/l for the reporting months of December 2009 and January 2010 respectively.

### Sewer Renewals

Investigations have been undertaken regarding the renewal of the sewer line along Whitby Place, Takahanga Terrace and Deal Street.

From the preliminary investigations the following has been ascertained:

1. Of the five contractors that have viewed the routing of the line all five have concurred that the section that runs from Churchill Street along Whitby Place to Takahanga Terrace cannot be open trenched as a significant portion of the line has sheds and houses built over it limiting access to the pipe.

Three of the contractors have indicated that pipe bursting is not an option as their tools cannot cut through the re-bars within the concrete pipes.

2. Three contractors (2 with pricing) have provided council with an alternative to replace the line by pipe lining however the disadvantage of this is that it significantly reduces the pipe size from 150mm to 109mm internal diameter. Despite this, analysis has shown that the reduced pipe can accommodate the current flows excluding flows from the South Bay area.

This is a last resort option given that it is not best practice and secondly it would not allow full flows from South Bay to be diverted if a problem should occur at the Churchill Street Pumping Station.

3. Other alternatives that have been looked at are;

The installation of a pressurised sewer system, which includes the installation of separate small pumping stations within each property, served by the difficult section and laying a line along Churchill Street to connect to Churchill Street pumping station. With this option there would be a lot of social and financial issues that would need to be addressed investigated such as:

- Each system alone costs approximately \$10,000 which excludes installing the new line and also excludes replacement of the section that can be opened trenched. There are approximately 16 properties connected to this section.
- Would the property owners buy into the option?
- Who pays for the operation of the pumping system inclusive of electrical costs considering that they would be connected to the property owner supply?
- If Council takes ownership of the pumping system what would be the cost implications to create easements etc.

One North Island Based Contractor has offered a new technology to re-line the pipe. The proposal has significant tags associated with it which can significantly alter the contract price if there are variations to the contract etc.

Presently we are in the process of seeking proposals (which may include other technology) from other North Island contractors.

### **3.0 STORMWATER**

#### ***Urban Stormwater***

There were no major issues for the reporting months.

#### ***Rural Stormwater***

Council requested that an investigation be carried out into the responsibilities and management of the rural area stormwater system. This request was made as a result of a presentation in 2009 by a representative of Environment Canterbury.

On Wednesday January 20, 2010 Council staff had a meeting with two Environment Canterbury representatives (Ross Vessey and David Aires) to discuss a way forward in regards to the responsibilities and maintenance of the rural stormwater system.

Agreed at the meeting was that the first step is for Environment Canterbury to forward all their plans to Council so Council staff can identify all the gaps in terms of responsibilities. Once this is completed it will be a matter of working with Councillors and the communities involved to develop a rating system.

### **4.0 PARKS AND RESERVES**

The parks and reserve area are in fair condition, a few walkways (Annie Boyd and Whitby Place) require metalling as there are a few ruts in the walkway. Whitby Place is programmed to be completed end of February 2010 whereas Annie Boyd is programmed from mid March.

## **5.0 PUBLIC TOILETS**

During the month of December there were some malfunctions at the Gooches Beach toilets. The contractor had sent an email informing Council of the malfunctions however the offices were closed, the contractor made no further contact with Council regarding this matter.

There were also issues at South Bay where the facility ran out of toilet paper. Toilet rolls had to be taken there as the cleaner could not be located.

## **6.0 CCTV – West End**

Council had requested the cost be ascertained to facilitate an increase in the number of cameras within the West End. East Coast Security, without providing guidance on an approximate number of cameras that would be required, has provided some costing as listed below:

1. To supply each camera with housing and pole mounts - \$1,751.00 plus GST.
2. To provide a New Recording system 16 channel (this is required as the existing one will not accommodate any more cameras) cost - \$3,353.00 plus GST.
3. Labour to install each camera is approximately 2.5 hours at \$48.50 per hour plus GST.

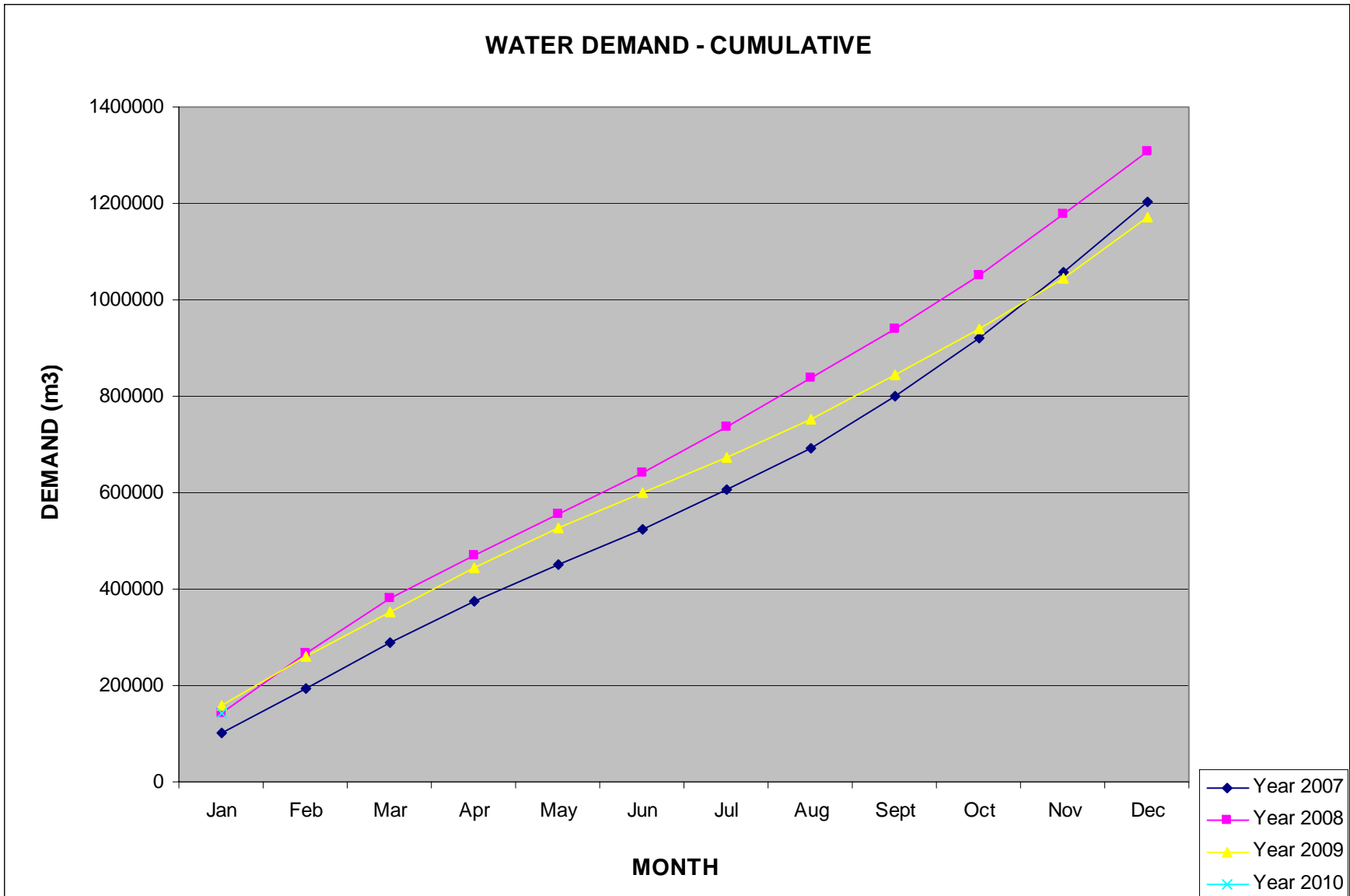


Figure 1: Yearly Cumulative Water demand

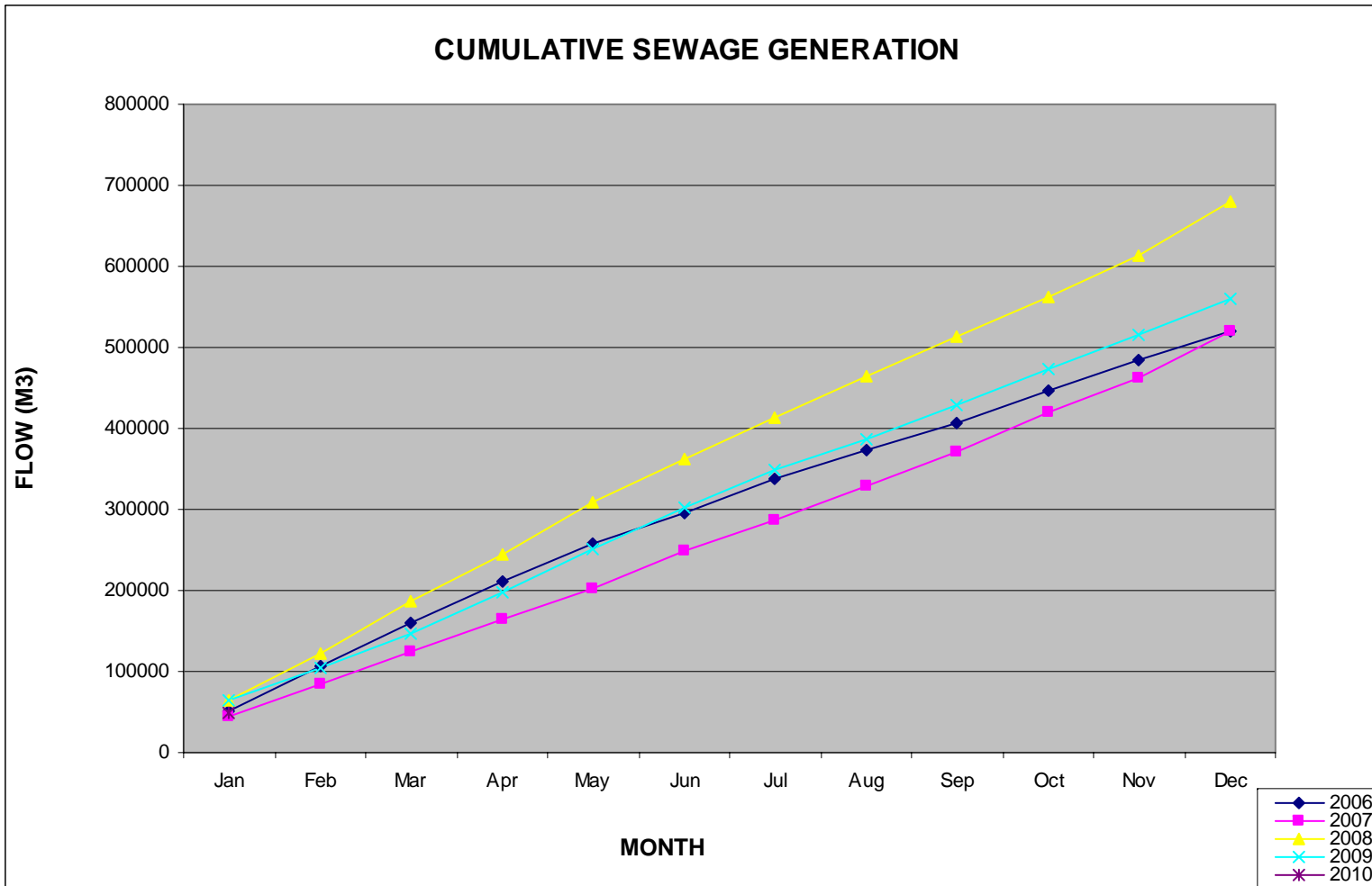


Figure 2: Yearly Sewage Generation

# ROADING REPORT

## 1.0 Reseal Contract

The resealing contract for 2009/10 is scheduled to commence between the 15<sup>th</sup> and the 22<sup>nd</sup> February. The due date for completion is March 12<sup>th</sup> 2010.

## 2.0 Routine Bridge Inspections

The routine bridge repair works is in progress and is scheduled to be completed by the end of the financial year.

## 3.0 SHI - South Bay Footpath Link (Behind Racecourse)

The contractor Fulton Hogan was delayed in completing the construction of the footpath before the Christmas break. Work has since progressed and is expected to be complete by mid February.

## 4.0 Stock Crossings

Below is a table summarising the agreement reached with some of the farmers. Construction of the new concrete crossings will begin when a response from the remaining farmers is received.

Farmers Name	Description of what was gared
Grant Wareham	Responsible for 100 percent of the maintenance for the crossing on Ludstone Rd, once that section of road has been resealed. You will only be responsible for damage deemed to be caused by the movement from your cattle and not from other factors, including heavy vehicles.
Graham Collins	Will contribute 50 percent of the costs to form a concrete crossing at the first crossing east of Red Swamp Rd on Postmans Rd. The crossing shall be approximately 27m <sup>2</sup> of concrete.
	Will be responsible for 100 percent of the maintenance for the crossing over the junction of Red Swamp Rd and Postmans Rd. You will only be responsible for damage deemed to be caused by the movement from your cattle and not from other factors, including heavy vehicles causing edgebreaks when cutting corners.
	You will be responsible for 100 percent of the maintenance for the second crossing east of Red Swamp Rd on Postmans Rd.
Doug Eaton	Will contribute 50 percent of the costs to form a concrete crossing at the corner of Bay Paddock Rd and Grange Rd. The crossing shall be approximately 70m <sup>2</sup> of concrete.
Gary Boyd	Will contribute 50 percent of the costs to form a concrete crossing on Schoolhouse Rd, east of SH1. The crossing shall be approximately 33m <sup>2</sup> of concrete.
Mark Hislop	Signed form has not been returned to date
Noel Boyd	Still to contact
Cindy Boyd	Still to contact

## 5.0 Cycle Stand: West End

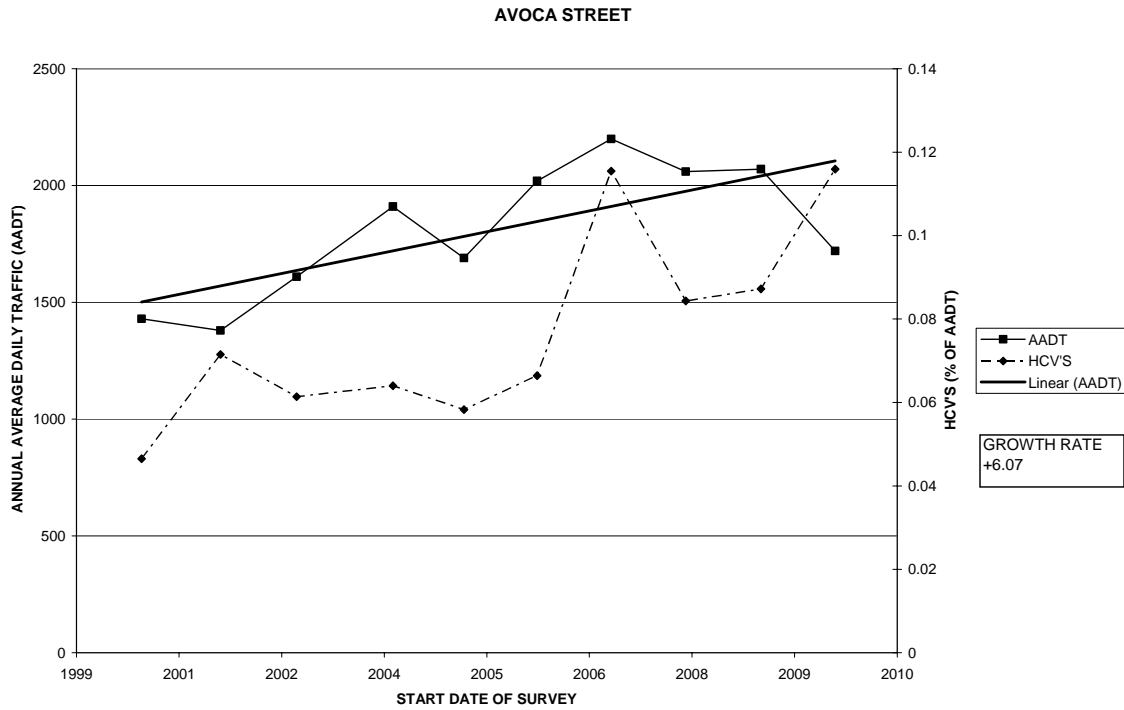
The fabrication of the bike stand is still delayed by the contractor Matt Novis. Due to the many unfulfilled promises from the contractor to complete the works, it is recommended that a temporary bike stand be installed at the site until a permanent stand reflecting Council's preference is sourced.

## 6.0 Traffic Count

Traffic Count for the month of January 2010 included the following roads:

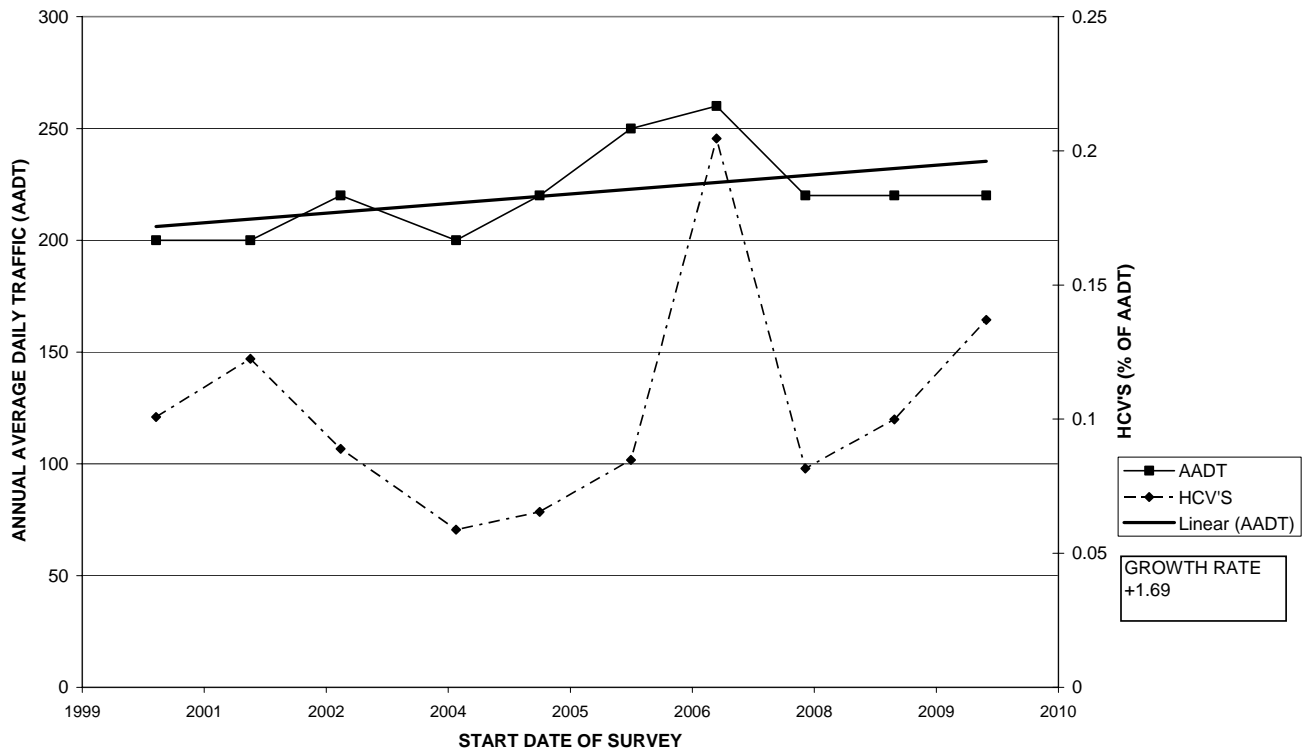
Mount Fyffe Road (bore)      232 Vehicles Per Day (vpd)  
 Avoca Street                      1672 Vehicles Per Day (vpd)

Vehicle movement on Avoca Street has been steadily decreasing since 2007. The overall growth rate since 2000 is 6.07%. 38% of traffic was travelling above 50kph



The average daily count for Mount Fyffe Rd (Alternate Bore) for 2010 has been steady at 220 AADT since 2007, and the overall AADT growth rate for traffic is 1.69% since 2000. 6.5% of vehicles were recorded as travelling at more than 100 kph.

### MT FYFFE ROAD- BY ALTERNATIVE BORE



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

### 7.0 Quality

There were no quality issues during December 09 and January 2010.

### 8.0 Environmental

There were no environmental issues in December 09 and January 2010.

### 9.0 Traffic Control

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

### 10.0 Vegetation Control

Several complaints were received regarding high grass on some of the rural road shoulders and intersections. As a result Blue Duck Valley Road, Puhī Puhī Road and some intersections were re-mowed.

### 11.0 Emergency Work

Nothing of significance to note.

### 12.0 Inspections

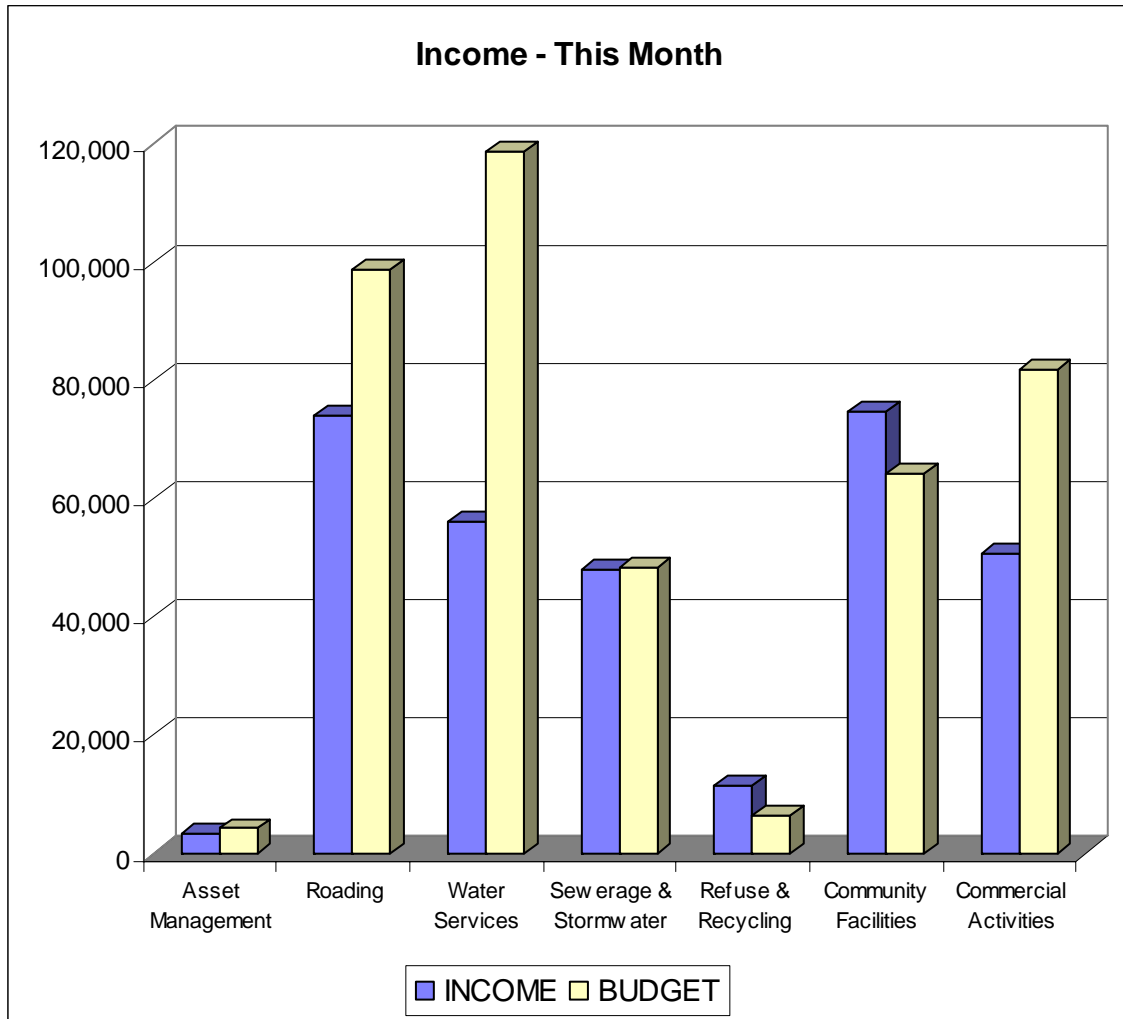
The monthly roading inspection is being carried out as specified.

### 13.0 Monthly Performance Report

	Performance Indicators Jan 2010	Type	Response	Number	Within Period	% Acceptable
3	Surfacing	Strategic	6 Weeks			
4	Surfacing	Local	8 Weeks			
5	Digouts	Strategic	6 Weeks			
6	Digouts	Local	8 Weeks			
7	Depressions	Strategic	6 Weeks			
8	Depressions	Local	8 Weeks			
9	Edge Break	Strategic	6 Weeks			
10	Edge Break	Local	8 Weeks			
11	Shoulder Maintenance	Strategic	6 Weeks			
12	Shoulder Maintenance	Local	8 Weeks			
13	Potholes	Strategic	2 Days			
14	Potholes	Local	7 Days	2	2	100%
15	Detritus & Slip Removal	Strategic	2 Days	2	2	100%
16	Detritus & Slip Removal	Local	7 Days	2	2	100%
17	Drainage	All	12 Hours			
18	Unsealed Pavement Potholes	Local	7 Days	5	4	80%
19	Unsealed Pavement Digouts	Local	6 Weeks			
20	Edge Marker Post	All	7 Days			
21	Signs and Chevrons	All	24 Hours	1	1	100%
22	Sight Rails and End Markers	All	48 Hours			

	Performance Indicators Dec 2009	Type	Response	Number	Within Period	% Acceptable
3	Surfacing	Strategic	6 Weeks			
4	Surfacing	Local	8 Weeks			
5	Digouts	Strategic	6 Weeks			
6	Digouts	Local	8 Weeks			
7	Depressions	Strategic	6 Weeks			
8	Depressions	Local	8 Weeks			
9	Edge Break	Strategic	6 Weeks			
10	Edge Break	Local	8 Weeks			
11	Shoulder Maintenance	Strategic	6 Weeks			
12	Shoulder Maintenance	Local	8 Weeks			
13	Potholes	Strategic	2 Days			
14	Potholes	Local	7 Days	390	390	100%
15	Detritus & Slip Removal	Strategic	2 Days			
16	Detritus & Slip Removal	Local	7 Days	1	1	100%
17	Drainage	All	12 Hours			
18	Unsealed Pavement Potholes	Local	7 Days			
19	Unsealed Pavement Digouts	Local	6 Weeks			
20	Edge Marker Post	All	7 Days			
21	Signs and Chevrons	All	24 Hours	2	2	100%
22	Sight Rails and End Markers	All	48 Hours	1	1	100%

# Works and Services Budget Report



### Expenditure - This Month

