

**WORKS AND SERVICES COMMITTEE MEETING HELD ON  
WEDNESDAY 19 AUGUST 2015 AT MEMORIAL HALL SUPPER  
ROOM, ESPLANADE, KAIKOURA.**

***AGENDA***

***1. Apologies***

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

***3. Reports:***

- **Operations and Maintenance Manager's Report** *page 1*
- **Budget Report** *page 6*

***4. Minutes Action and Issues List Update***

<b>MEETING</b>	<b>ACTION REQUIRED</b>	<b>BY</b>	<b>DATE ACTIONED</b>
Works & Services	Arrange for a representative of NZTA to meet with Council regarding further plans for State Highway 1 through Kaikoura.	Operations Manager	In progress
Works & Services	Include a report on incorporating a cycle lane on the footpath on Beach Road in the Footpath report.	Operations Manager	In progress

***5. Urgent Business***

# OPERATIONS AND MAINTENANCE MANAGER'S REPORT

## 1.0 WATER SUPPLY

### 1.1 Urban Water

#### Operations – Kaikoura Urban Supply

This facility operated satisfactorily during the reporting month.

Significant Work planned for 2015 includes:

- South Bay pipe replacement: This project should be in a position to start in early October. A revision of costs will be required to ensure that funding is available. Any work unable to be completed due to funding will still be required.
- Upgrade of SCADA system.

The Canterbury District Health Board (CDHB) has removed the secure status from Mackles Bore as they disagree with the results from GNS on the age of the water. The Council's stance is that if the age was inconclusive then the previous results should stand. A meeting is to be held to with CDHB to request them to change this ruling.

#### Water Demand

Table 1 below shows the water demand for the reporting month measured from the Mackle's bore while Figure 1 shows the yearly cumulative water demand since 2009.

<b>Water Demand (m<sup>3</sup>/day)</b>				
	<b>Min</b>	<b>Avg</b>	<b>Max</b>	<b>Total Demand</b>
<b>January 2014</b>	1928	3002	3667	93,052
<b>February 2014</b>	2712	3339	3968	93,494
<b>March 2014</b>	1534	2510	3671	77,796
<b>April 2014</b>	1436	2609	3723	78,257
<b>May 2014</b>	1316	2639	3874	81,834
<b>June 2014</b>	2072	2710	3403	81,305
<b>July 2014</b>	1629	2166	2681	67,158
<b>August 2014</b>	1791	2271	2989	70,415
<b>September 2014</b>	1686	2546	3374	76,395
<b>October 2014</b>	1686	2252	3582	88,708
<b>November 2014</b>	2246	3259	4670	97,780
<b>December 2014</b>	2403	3444	4556	106,765
<b>January 2015</b>	3169	4327	5296	134,124
<b>February 2015</b>	3325	4353	5185	121,886
<b>March 2015</b>	2808	3500	4493	108,502
<b>April 2015</b>	2398	3119	4321	93,557
<b>May 2015</b>	1691	2519	3088	78,095
<b>June 2015</b>	1997	2470	3217	74,096
<b>July 2015</b>	1917	2450	3033	73,507
<b>August 2015</b>	1779	2412	3783	74,766

Table 1: Water Demand for reporting period

The Night Flow testing has been completed. Of the demand for Kaikoura urban in excess of 20,000 cubic metres per month appears to be leakage. This implies that 25% of Kaikoura's water and the energy to pump it is wasted. The total electricity cost was \$127,867 in 2014/15. The Fords 3 and Peninsula 2 Zones are marginal for a ten year return for the installation of meters to determine private leakage. In the first instance Council will check for obvious leakage in these areas.

Night Flow		l/hour	l/hr/property	
Zone	Connections	Aug-15		
<b>Kaikoura</b>	<b>1942</b>	<b>32312</b>	<b>16.64</b>	Summary
Rural	164	940	5.73	
Mill Road	476	4230	8.89	
Peninsula 1	442	2000	4.52	
Peninsula 2	98	3000	30.61	
South Bay	299	5000	16.72	
Fords 3	463	17142	37.02	
<b>Oaro at Shed</b>	<b>67</b>	<b>26</b>	<b>0.39</b>	Summary
Oaro North	13	0	0.00	
Oaro South	54	26	0.48	
Ocean Ridge	152	768	5.05	
<b>Waimangarara</b>	<b>258</b>	<b>0</b>	<b>0.00</b>	Summary
Kincaid	204	184	0.90	
Suburban	54	No result		
Peketa	18	97	5.39	
Fernleigh	60	No result		
East Coast	33	80	2.42	
TOTAL	2788	33878	12.15	
TOTAL		564.63333	l/min	
TOTAL		813.07	m3/day	
TOTAL		296,771.28	m3/yr	

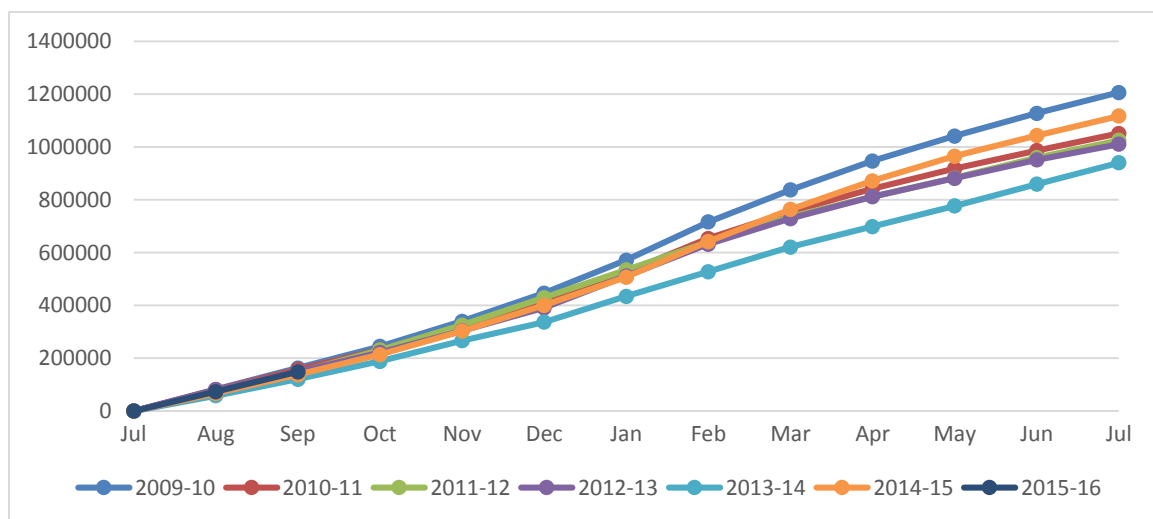


Figure 2: Cumulative Water Demand in cubic metres

11 days data was not received due to the failed repeater. The average for August has been used for these days.

### 1.2 Suburban Water Supply

There were no issues with this system during the reporting month.

### 1.3 Kincaid Water Supply

There were no issues with this system during the reporting month.

### 1.4 Oaro Water Supply

There were no issues with this system during the reporting month.

### 1.5 Fernleigh Water Supply

There were no issues with this system during the reporting month.

### 1.6 Ocean Ridge Water Supply

There were no issues with this system during the reporting month.

### 1.7 Peketa Water Supply

There were no issues with this system during the reporting month.

### 1.8 East Coast Water Supply

The Canterbury District Health Board has removed the secure status from this supply requiring more intensive testing on the basis of two transgressions. This is being questioned as the results are within the margin of error and do not affect the water coming from the bore.

## 2.0 SEWER SYSTEM

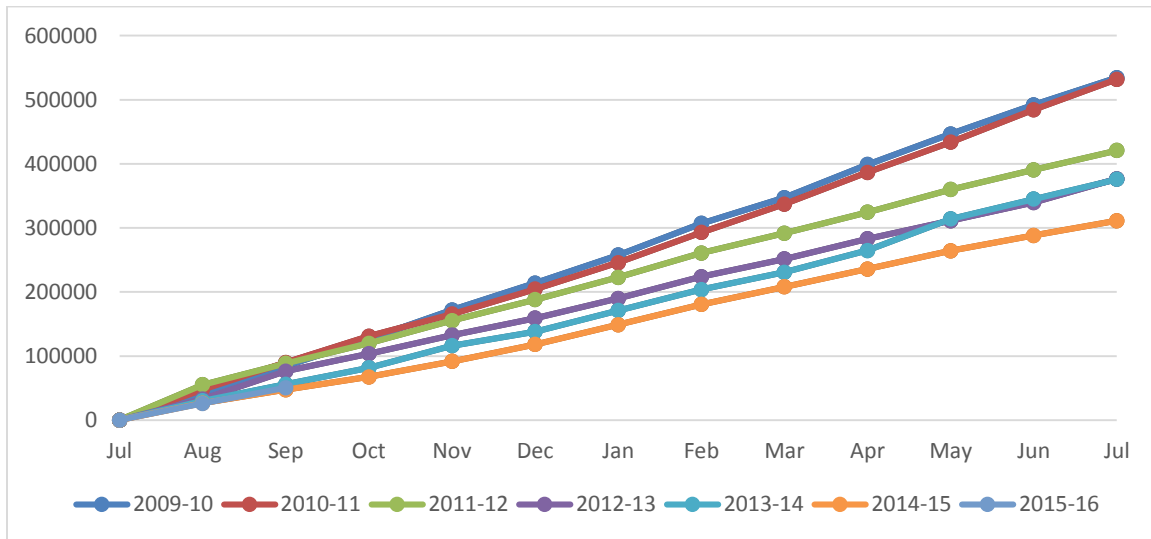
<i>Sewage flows (m3/day)</i>			
	<i>avg</i>	<i>Max*</i>	<i>Total Flow**</i>
<i>January 2014</i>	868	1839	32,823
<i>February 2014</i>	957	1139	26,802
<i>March 2014</i>	1095	2357	33,938
<i>April 2014</i>	1642	2516	49,247
<i>May 2014</i>	1004	1927	31,141
<i>June 2014</i>	1028	2500	30,830
<i>July 2014</i>	857	2500	26,571
<i>August 2014</i>	677	860	20,975
<i>September 2014</i>	668	1233	20,052
<i>October 2014</i>	775	1321	24,025
<i>November 2014</i>	888	1537	26,641
<i>December 2014</i>	986	1266	30,557
<i>January 2015</i>	1029	1318	31,901
<i>February 2015</i>	981	1183	27,478

<b>March 2015</b>	892	1025	27,662
<b>April 2015</b>	945	1284	28,361
<b>May 2015</b>	776	909	24,046
<b>June 2015</b>	764	986	22,934
<b>July 2015</b>	871	1442	26,120
<b>August 2015</b>	784	919	24,307

**Table 3 : Sewage generated for reporting period**

\*The asterisk figure represents daily flows during heavy rainfall events.

\*\*The double asterisk figure has not been adjusted to reflect inflows from storm-water.



**Figure 2: Cumulative Sewerage Discharge from Oxidation Ponds in cubic metres**

11 days data was not received due to the failed repeater. The average for August has been used for these days.

The fan on Hawthorne Road is still to be completed.

### 3.0 STORMWATER

The consent for the Kaikoura Urban Area is still being processed by Environment Canterbury.

### 4.0 PARKS AND RESERVES

The parks and reserves were satisfactorily maintained during the reporting month.

### 5.0 BUILDINGS

Significant Work planned for 2015 include:

- Replacement of existing light bulbs and miscellaneous fittings.

### 6.0 AIRPORT

The floor tiling has been completed.

### 7.0 SWIMMING POOL

The swimming pool is now closed for the winter with minor works to occur.

## **8.0 PUBLIC TOILETS**

West End toilets are to have the urinals reconnected to prevent further blockages.

## **9.0 ROADING**

Significant work underway:

- Metalling of Valley Rd in Goose Bay, Blunts Rd, Postmans Rd, Chapmans Rd, Red Swamp Rd, Topline Rd, Mt Fyffe Rd, Pooles Rd, Hapuku Rd, Kowhai Ford Rd.
- Rehabilitation of road to Coast Guard in South Bay.

Significant work planned for 2015:

- The lights have been ordered for South Bay,
- Kerb and Channel on Margate, Ramsgate and Torquay.

Tenders for the roading maintenance contract close on 18 September.

## **10.0 FOOTPATHS**

Significant work planned for 2015:

- Footpath programme and policy to be developed.

***Recommendation: That this report be received.***

Author: Operations and Maintenance Manager  
Endorsed by the Chief Executive Officer

# Works & Services Budget Report

