

## STAFF REPORT

**TO:** Chairman and Members, Engineering Services Committee  
**FROM:** Utilities Manager, Jeff Cuthbertson  
**DATE:** 13 June 2007  
**SUBJECT:** UTILITIES MANAGEMENT REPORT

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### 1 GENERAL

In general the maintenance contract works have continued to be carried out in an excellent manner and most operational issues have been kept well under control. The contractor has undertaken a number of reactive repairs promptly and efficiently and within the appropriate standards. The remaining portion of work to complete before the end of June is progressing well. Solid progress has recently been made in the electrical upgrades of a number of wastewater pumpstations with similar upgrades of water facilities also underway.

#### **Contact 508A/Contract 688: Utilities Operations and Maintenance Contracts**

We would like to take this opportunity to thank Works Infrastructure for all of the work they and their team have undertaken as Operations and Maintenance contractors for Councils Infrastructure under Contract 508A. Works have been Council's maintenance contractors for the past six years. Their current contract expires at midnight on 30 June 2007. From 1 July 2007, contract 688 commences. Continuity with the contract will be assured Works Infrastructure continue the new operations and maintenance through contract 688. We look forward to the ongoing improvement of Council's Utility Assets and continuing an excellent working relationship.

### 2 WATER

#### 2.1 General

The demands on all water supplies have reduced significantly, as expected, in the period since the last meeting. The regular periods of steady rain have helped to reduce the pressure on the supplies, in particular the rural schemes, and typical daily volumes are now trending toward expected rates for the time of year.

#### 2.2 Appleby Well Upgrade

Works Infrastructure has commenced alterations to the Appleby Well due to the Transit road widening project. The work includes well-head alterations and a new valve chamber with upgraded valving. Along with realignment of pipework, a new steel section beneath Borcks Creek is to be installed, in conjunction with the extension of Borck's Creek culvert by Sicon.

#### 2.3 Brightwater Reservoir

Building consent has been granted for the construction of the Brightwater reservoir. The documentation for tendering the project is being prepared and the contract is to be tendered once the land purchase has been finalised. Construction is planned for the summer months of the 2007/2008 financial year.

## **2.4 Dovedale Rural Water Supply**

The scheme has continued to operate within its limits and without significant issues. The lower intake-Humphries Creek booster pump has not been required to sustain the demand for water in the scheme since the recent rain events. Upgrade works continue as per the programme of works and are on track to be completed prior to the end of June.

## **2.5 Mapua Trunk Main**

Ching Contracting has commenced work on site and has completed welding the strings of HDPE pipe ready for installation across the two estuaries. Installation of the first section from Best Island to Bells Island is underway. The contractor has utilised a purpose-built barging arrangement to progress the excavation of this open trench section.

## **3 STORMWATER**

### **3.1 General**

The significant rainfall event in early May did not cause as much damage as some areas of Nelson, the heavier falls being reasonably confined to localised areas. Some flooding was evident in known trouble spots such as Collins Road, Richmond which have future upgrade works programmed to resolve these issues.

Investigation is underway into the performance of the Motueka Wharf Road flood gates following a malfunction of the automatic operating system. The gates were opened manually to relieve detained surface water over a period of approximately one hour.

### **3.2 Borck's Creek/Headingly Lane Channel**

The pre-cast concrete bridge beams have been constructed and installed for the access to the end property in Headingly Lane. Adcock and Donaldson Ltd have been awarded the physical works contract for the next stage of channel widening. The site establishment work is due to commence before the end of month.

### **3.3 Brightwater Underpass**

A number of issues regarding the operation of the pumping system at the underpass are still being discussed with Opus. These include the water-tightness of the pump well chamber, the benching of the pump well chamber and the removal of silt prior to pumping.

### **3.4 Croucher Street/Bird Street/Elizabeth Street, Richmond**

Preliminary survey work, asset data checking and liaison with affected parties has commenced to determine appropriate solutions to drainage issues in Croucher, Bird and Elizabeth Streets.

## **4 WASTEWATER**

### **4.1 General**

In general the wastewater systems and wastewater treatment plants have been operating satisfactorily in the period since the last meeting. There are no significant issues to report.

## **4.2 Mapua Channel Sewermain investigation**

Works infrastructure has commenced the investigation of the existing sewermain which is located beneath the Mapua estuary and stretches between the Mapua wharf pumpstation and the western end of Rabbit Island. Once a condition assessment has been completed a decision on the viable future of the pipeline will be made.

## **4.3 Motupipi Street Sewermain Replacement**

Works Infrastructure has made significant progress and completed the section through the holiday park. Works have engaged trenching specialists Texco to complete the drawdown of groundwater to enable the completion of the remaining section which is underway and progressing well.

## **4.4 Waitapu Pumpstation**

Negotiations with the landowner have been successful in securing the appropriate size of land required for the upgraded facility.

The resource consent has been granted for the project. The physical works tender closed on 13 June 2007 and is currently under evaluation. It will be awarded prior to end of the month.

## **4.5 Wastewater Renewals Projects**

The programme of pumpstation electrical upgrades is almost complete for the eight highest priority sites. The work is to be completed prior to end of June.

# **5 SOLID WASTE**

## **5.1 Kerbside bag collection and recycling**

All of the solid waste, kerbside collection and recycling contracts have continued to operate well this period. It is encouraging to see an improvement in the operation of the resource recovery sites.

## **5.2 Resource Recovery Centre Operations**

Operation of the four RRC's continues with good performance by the contractor. Gradual improvements are being made to each of the four sites (Richmond, Mariri, Takaka and Collingwood) through the efforts of the contractor and Council and contractor-funded capital works.

### **Richmond**

- The tender for a range of site improvements (drainage, improved waste handling areas and provision of glass storage and loading areas) closed on 13 June 2007 and is yet to be awarded. Work is expected to commence in late June 2007.
- The weighbridge has been ordered but will not be available for approximately 10-12 weeks

### 5.3 Landfill operations

Site operations continue, with no significant issues. Waste quantities to Eves Valley have continued as expected but remain significantly above 2005/06 tonnages, with a final projection still of 24,000 tonnes for the 2006/07 year.

### 5.4 NCC/TDC Landfill Options Review

A further meeting has been held by the technical working party. Outcomes and any final decisions are still some way off, but will be reported to Council in due course.

### 5.5 Old Mill Walkway Coastal Protection Stage 1 Works

Private landowner contribution agreements totalling \$87,000 have been secured. Contract 700 for the Stage 1 works has been awarded to Taylors Contracting. Rock production work has commenced and it is anticipated the contractor will establish on site during the week of 18 June.

## 6 TENDERS

Tenders awarded since the last meeting are:

No.	Contract name	No. of tenders received	Successful tenderer	Amount	Highest amount	TDC estimate	Budget for this item	Comment
699	Headingly Lane Drain	4	Adcock & Donaldson Ltd	\$173,066.20	\$238,410.85	\$219,000	603,000	Part only of the total Headingly Lane stormwater upgrade project
700	Old Mill Walkway Reserve – Coastal Erosion Protection – Stage 1	4	Taylors Contracting	\$331,561	\$433,742	\$337,965	\$462,600	Budget included in 2007/2008 financial year

## 8 RECOMMENDATION

**THAT the report be received.**

Jeff Cuthbertson  
**Utilities Asset Manager**