

# STAFF REPORT

**TO:** Chairman and Members, Engineering Services Committee  
**FROM:** Utilities Asset Manager, Jeff Cuthbertson  
**REFERENCE:**  
**DATE:** 31 May 2006  
**SUBJECT:** UTILITIES MANAGEMENT REPORT

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## 1. CAPITAL WORKS PROJECTS

The following summarises progress on capital projects:

### Wastewater

Location	Description	Project Status	Completion date
Richmond	Trunk Main	80% Complete	mid-July 2006
	Capacity upgrades	Completed	
	Modelling/ Data collection	Progressing	
Brightwater	Storage Tank	Progressing	30 June 2006
	Renewals	Progressing	30 June 2006
Collingwood	Telemetry at Pumping Stations	Completed	
	UV Disinfection	Completed	
Kaiteriteri	Replace pumping main Riwaka	5% completed remainder deferred	
Mapua (CTA)	New Scheme	Deferred	
Motueka	Wastewater Treatment Plant upgrade	Completed	
	Renewals/ upgrades	Progressing	30 June 2006
	Trewevas Area pumps	Completed	
	Thorp Street Pumps	Investigating	
Murchison	Wastewater Treatment Plant upgrade	Progressing	30 June 2006
	Waller Street Pump well	Progressing	30 June 2006
	Desludge oxidation Pond	Progressing	30 June 2006
Pohara	Sunbelt Pumping station	90% complete	30 June 2006
Takaka	Wastewater Treatment Plant upgrade	Deferred	
	Motupipi Pumping Stn and main	90% complete	30 June 2006
	Hiawatha Lane Pumping Stn	90% complete	30 June 2006
	Telemetry	Progressing	30 June 2006

## Water

Location	Description	Project Status	Completion date
<b>Dovedale</b>	General Renewals	Completed	30 June 2006
<b>Mapua (CTA)</b>	CTA project	Deferred	
	Flow meter replacement	Completed	
<b>Brightwater</b>	New Reservoir	Progressing	
<b>Motueka</b>	New Reticulation	Deferred	
<b>Murchison</b>	Hotham Street main	Progressing	
	New Reservoir	Completed	30 July 2006
	Pipe Renewals	Completed	
<b>Richmond</b>	Wensley Road Mains	Completed	
	Richmond Well Pumps	Completed	
	Waimea Well Pumps	Completed	
	Flow meter replacement	Completed	
<b>Pohara</b>	New Reticulation	Deferred	
<b>Tapawera</b>	New Chlorinator	Completed	
<b>Wakefield</b>	New Water Source/ Trunk retic'	Progressing	ongoing

## Stormwater

Location	Description	Project status	Completion date
<b>Brightwater</b>	Jeffries creek improvements	Contract let	30 July 2006
<b>Collingwood</b>	Gibbs Road retic' improvements	Contract let	30 June 2006
	Beach Road retic' improvements	Contract let	30 June 2006
<b>Kaiteriteri</b>	Outlet Improvements	Deferred	
<b>Mapua/ Ruby Bay</b>	Aranui Road 1200mm Dia	Completed	
	Aranui Road 900mm Dia	Contract let	30 July 2006
<b>Motueka</b>	Northern Diversion	Completed	
<b>Murchison</b>	Cromwell Street water course	Completed	
	Cromwell Street culvert	Work progressing	30 June 2006
<b>Richmond</b>	Borck's creek widening	95% Complete	30 June 2006
	Bird St/ Elizabeth Street	Investigation work complete	
	Hunt/ Lowry Street	40% Complete	30 June 2006
	Reservoir Creek Culvert	Completed	
	Poutama Street outlet	Deferred	
	Beach Road Drain	Tendering	30 June 2006
<b>Takaka</b>	General upgrades	Work progressing	30 June 2006

## 2 WATER

### 2.1 General

Major water valving installations have been completed at the existing Brightwater Reservoir; including emergency shut-off valving at the base of the structure, pipework and new valving in preparation for the connection of the additional reservoir when it is constructed.

The Old Coach Road Reservoir site had recently suffered from a spate of vandalism. Measures including replacing existing lids with lockable lids and security fencing have been carried out.

Murchison additional reservoirs have been connected, tested, disinfected and commissioned and are now operating.

Investigation is underway to determine the feasibility of installing underground power cabling to serve telemetry for the Valhalla top reservoir, in conjunction with a subdivision. This would eliminate ongoing control problems and alarm failures.

## **2.2 Brightwater Reservoir**

Negotiations continue with the developer to secure an appropriate site for the additional Brightwater Reservoir. Geotechnical investigations and boundary surveys will also be carried out to confirm slope stability and property boundary constraints.

## **2.3 Wensley Road Water Main Upgrade**

The final section of main between Chelsea Avenue and Bateup Road is currently being installed in conjunction with the Wensley Road upgrade project, this portion of main is yet to be commissioned as the project timeline has extended.

## **2.4 Murchison Watermain Upgrade**

The first portion of the pipework upgrade in Hotham Street has commenced and the pipework is to be installed alongside a low voltage power cable to supply the reservoir telemetry.

## **2.5 Wakefield Water Augmentation**

Drilling investigations are about to commence in Spring Grove to determine the quantity and quality of water available to augment the Wakefield Water supply. Four test bores will be installed, tested and monitored over the next year to gain information to assess water quality, water quantity and security of the water source.

## **RURAL SCHEMES**

### **2.5 Dovedale Rural Water Supply**

Since the recommissioning of the lower Humphries Creek intake, the scheme has continued to run smoothly. Telemetry is almost complete and the contractor is awaiting some ordered parts to complete the upgrade to the chlorinator unit. Minor pipe renewals work continues to complete the programme of works for this year.

### **2.6 88 Valley Rural Water Supply**

This scheme continues to perform well following the installation of inline filters at the intake to eliminate the blockage of meters from excessive grit.

### **2.7 Redwoods**

The reservoir at Maiseys was recently found to be running close to empty and caused some excessive turbidity but was soon rectified.

Some alteration and adjustment to pipework and reconfiguration of valves at the Golden Hills pumpstation has been completed, including the installation of a meter to directly measure the bore take.

### **3 STORMWATER**

#### **3.1 General**

In spite of some recent significant and heavy bursts of rain there have been relatively few incidences of significant flooding. This is partly due to the brief duration of the events, however if the falls had continued with the same intensity there may have been more instances of significant flooding. Flooding occurred in Motueka, Tasman, Ruby Bay/Mapua, and some areas of Richmond.

#### **3.2 Aranui Road Upgrade**

The tender for this contract closed on 26 April. Seven tenders were received and contract-evaluated under the two envelope system and Price Quality Method. The contract was awarded to Works Infrastructure. The works are due to commence this week. Following further discussion the necessary permission has been granted for the construction of a new headwall.

#### **3.3 Borcks Creek/Headingly Lane**

The widening of Borcks Creek in the lower end of Headingly Lane is practically complete. Recent wet weather has made progress difficult. The installation of the steel special and cut-in on the existing Waimea Water Supply main has been successfully completed and commissioned. A second break on the existing main caused further frustrations. Industries were supplied from the Richmond supply while the main was repaired and re-livened, and also as a precaution while the steel special was installed.

#### **3.4 Hunt/Lowry Stormwater Upgrade**

Work continues on the upgrade to the stormwater network between Hunt/Lowry Streets and Gladstone Road via the Holiday Park. The work is progressing well and still on track for completion by end of June.

#### **3.5 Jeffries Stream Upgrade**

The upgrading work from Lord Rutherford Road to the State Highway 6 culvert and associated works has recently commenced.

#### **3.6 Otia Drive/ Cemetery Dam Improvements**

Work has commenced on the upgrading of pipework and hydraulics of the Cemetery detention basin adjacent to Otia Drive in south Richmond. Work includes concrete swale, pipework upsizing and headwall work. The project is being carried out by Works Infrastructure and is expected to be completed by end of June.

### **4 WASTEWATER**

#### **4.1 General**

Overflows occurred recently in conjunction with and generally as a result of localised significant rainfall events at the following locations:

- Tait's Pumpstation, Stafford Drive, Ruby Bay – the overflow was not as significant as some reports and was cleaned up promptly along with added topdressing of access unsealed driveway.
- Hunt/Lowry, Richmond – the overflow was localised and the likelihood of it happening in the future will be reduced once the connection is changed over to the newly upgraded pipework in Bell/Waverley Streets once the Richmond Trunk main project is fully commissioned and operational in the upcoming weeks.
- Collingwood – significant increases in flows to the treatment plant occurred during periods of recent wet weather; flows increased from an average dry weather flow of 70m<sup>3</sup>/day to an average of 260m<sup>3</sup>/day for 26/27 May

#### **4.2 Motueka Wastewater Treatment Plant Upgrade**

Significantly inflated inflows were experienced during recent rain events. No overflows were reported. The newly installed Step Screen is now working well, following some adjustments to operational controls.

#### **4.3 Collingwood Wastewater Treatment Plant**

Telemetry has been installed at the systems control building but is yet to go on-line. It is due to become operational in the upcoming weeks.

#### **4.4 Murchison Wastewater Treatment Plant**

Whitaker's Contracting from New Plymouth have been awarded the contract to upgrade the Treatment Plant. Substantial work has been undertaken to date. Cohur Ltd has also commenced desludging the pond. Sludge is to be stored on site using bio bags. All work is expected to be completed by 30 July 2006.

#### **4.5 Richmond Trunk Sewer Main Upgrade**

The contractor is continuing to proceed along Beach Road, and is making good progress. The contractor has completed the challenging connection into the Beach Road pumpstation, including the core drilling of reinforced concrete walls of the existing chamber, in excess of 400mm thick. The programme is to cross Lower Queen Street mid June, and then complete the final section between Queen Street and Jubilee Park. The contract is on schedule for end of June completion.

#### **4.6 Takaka Sewerage Upgrade**

The current project nears Practical Completion. There remains some final completion works at the pumpstation sites, landscaping and finishing off prior to final testing and commissioning.

Preparation to progress the next phase including the upgrade of the treatment plant is underway.

#### **4.7 Tapawera Ponds**

Some ongoing operational issues continue with Tapawera Oxidation Pond. The rates of flow continue to fluctuate and investigation into the condition of pond wave-band, batters and base is continuing. The options for upgrading the pond are under investigation.

## 5 REFUSE

### 5.1 Bag Collection

The refuse bag collection for the period had no substantial problems. Options are being reviewed for the Kaiteriteri area's future collection/recovery. A meeting with the Kaiteriteri Reserve Board chairperson is to be organised to further discuss and refine these options.

### 5.2 Richmond Resource Recovery Centre

Site works to clean up and remove surplus materials for this site are nearing completion.

### 5.3 Glass Crushing

The glass pile of approximately 600 tonnes has been crushed by Oldfields Ltd. Streetsmart and Council have come to an arrangement regarding the shared cost for this glass crushing exercise. A long-term arrangement has not been found, however Streetsmart are researching options.

## 6. TENDERS

No.	Contract name	No. of tenders received	Successful tenderer	Amount	Highest amount	TDC estimate	Comment
669	Mapua Stormwater Improvements	7	Works Infrastructure	\$323,402	\$441,120	\$378,470	
678	Pitfure Stream/ Jeffries Creek Improvements	3	Works Infrastructure	\$208,195	\$224,583	\$332,350	Part Brightwater stormwater upgrade project

## 7. MOTUEKA STORMWATER

Please find attached, for Councillor's information, a letter of thanks from the residents of Clair Place and Glenaven Drive, Motueka.

## 8. PROPOSED HEALTH (DRINKING WATER) AMENDMENT BILL

Also for Councillor's information, an update from Local Government New Zealand on the proposed Health (Drinking Water) Amendment Bill is attached.

## RECOMMENDATION

**THAT the report be received.**

Jeff Cuthbertson  
**Utilities Asset Manager**