

STAFF REPORT

TO: Chairman and Members, Engineering Services Committee

FROM: Utilities Asset Manager, Jeff Cuthbertson

REFERENCE:

DATE: 2 October 2006

SUBJECT: UTILITIES MANAGEMENT REPORT

1 CAPITAL WORKS PROJECTS

The capital works programme for the 2006-2007 financial year and is underway with Brightwater/Hope watermain upgrade and Brightwater sewermain upgrade projects already practically complete.

The Annual Operations and Maintenance Programme submitted by the maintenance contractor, has been reviewed and budgeted funds will be apportioned to approved items.

A condition audit of all pumpstations has commenced. This will assess telemetry and electrical systems at each site and formulate a priority list for all required upgrade work.

The Utility Maintenance contractor is looking to instigate an optimisation system, which will not only be a first for the South Island, but also has many beneficial outcomes for council. The system includes the capability for real-time reporting, optimised response times, and up-to-date asset data collection.

2 WATER

2.1 General

Pipe breaks occurred recently in Stafford Drive, Mapua (burst 200 mm PVC main) and on the Mapua Trunk Main (200 mm PVC main Best Island, adjacent to Golf Course). Other breaks occurred in Thorp St, Motueka (200mm PVC Main), and Beach Road, Richmond (150 mm AC Main)

2.2 Brightwater Reservoir

Detailed design has commenced for the Brightwater Reservoir. Negotiations continue with the developer to secure the preferred site for the reservoir.

2.3 Murchison Watermain Upgrade

The tender for the installation of 1000 metres of 150 mm trunk watermain in Hotham Street, (Option 1), which closed on 2 August 2006, was awarded to Adcock and Donaldson Ltd. Construction has commenced and is expected to be completed by December 2006.

RURAL SCHEMES

2.4 Dovedale Rural Water Supply

The programme of works for this year is underway with ongoing pipe upgrade work. The proposed work includes the line to Bensemman Tank, section of Old House Road line through Wakatu property, and Hawkes line, Dovedale Road
The moratorium on further connections to the scheme remains in place.

2.5 88 Valley Rural Water Supply

No significant work has been carried out on the scheme this period, and no significant operational issues have arisen.

2.6 Redwoods

Planning continues for the renewal of a section of 80mm AC mains in Redwood Valley Road and through Buschl's property.
The moratorium on further connections to the scheme remains in place.

2.7 Old Coach Road Reservoir

Investigations continue into the installation of power supply to the site, and into the optimisation of telemetred control along with Pinehill Heights and Pomona Road reservoirs.

3 STORMWATER

3.1 General

Rainfall was below average for August and there have been no recent significant rainfall events since and therefore no significant issues to report.
Regular maintenance continues on outlets to existing stormwater pipework at Paton's Rock.

3.2 Aranui Road Upgrade

The works have now achieved practical completion and the project. The project has

been completed on time and well within budget constraints.

3.3 Borck's Creek / Headingly Lane

Negotiations continue with landowners, and landowner agreements need to be settled before the next stage of this work can proceed.

3.4 Jeffries Creek and Pitfure Stream Upgrade

All physical works associated with Stage 1 of the Jeffries Creek project, including stream widening, new culvert, are now complete.

3.5 Wharf Road Floodgates

Works Infrastructure has submitted quotes for the proposed extensive refurbishment of the Wharf Road floodgates. The work includes treating/painting the gates, replacement of Hydraulic rams/hoses/fittings and some improvements to site fencing, and is expected to commence prior to the end of October.

3.6 Beach Road Drain

Tenders have been received for the replacement of approximately 200m of retaining wall adjacent to the drain in lower Beach Road. Tenders are currently under evaluation and a report will be forwarded to the tenders committee in due course. Tender prices received were all significantly above estimates and budgets.

3.7 Stormwater Rating

The Golden Bay Community Board has requested that the Engineering and Corporate Service Committees address the method of rating for stormwater (sw) activities within Urban Drainage Areas (UDAs). The Board would like a "flat" rate option per property investigated compared to the existing capital value (CV) method that Council has used for many years. A copy of the Service Centres Manager's report is attached.

As Committee members will appreciate not all urban properties create equal stormwater demands within a UDA, therefore a flat rate (similar to a pan charge) has inherent problems. The CV method provides a useful proxy for stormwater demand and also for the value of private assets deriving the benefit from flood protection. It is acknowledged that CV is a blunt rating tool for stormwater but this is often the case with many rates.

Council has a policy of "user pays", or those that get the benefit should pay for the sw services. All UDAs have been combined since 2003/2004 under one "group" and operate as a closed account. Stormwater expenditure is funded by: targeted CV rates; loans; Development Contributions; and sundry income. The main source is the targeted sw CV rate. It is not proposed to undertake any further review of the sw rating method at this time.

4 WASTEWATER

4.1 General

Six monthly benthic algae sampling and Hetero growth monitoring was carried out at Collingwood WWTP showed full compliance with Resource Consent requirements.

Sampling at Motueka WWTP showed compliance with Resource consent requirements, and average flows were above 2000m³/day.

Following the recent power outages and potential issues associated with significant prolonged lack of power supply, initial enquiries have been made around the purchase of standby generators for strategic sewer pumpstation sites. When actual costs have been determined, further information will be presented to the committee at a future date.

The following blockages and subsequent overflows have recently occurred:

- Burnside road, Takaka, confined overflow occurred.
- Boyle Street Pumpstation, Takaka, fail was due to electrical fault, overflow occurred but was contained.
- Wallace Street, Motueka – no overflow occurred.
- High Street, Motueka - no overflow occurred.

4.2 Brightwater Sewer Improvements

Work on The Lord Rutherford Road sewer upgrade project is now into its Practical Completion phase. The installation of emergency storage chambers at the Sommerville Lane pumpstation is also complete.

4.3 Richmond Trunk Sewer Main Stage II – Completion of ‘Portion C’ Alignment

Works Infrastructure has commenced construction on the second stage of the Richmond Trunk Sewer main project and is expected to complete the project by mid-January. The contractor is utilising an effective adjustable trench shield system, and has installed an elaborate sedimentation filtration system to process the dewatering discharge pumped from the excavated trench. This process is also proving to be very effective.

4.4 Tapawera Ponds

The oxidation pond level has been refilled to its original level follow temporary lowering for inspection. The pond is now maintaining a constant level. The options for upgrading the pond are still being finalised, but monitoring will continue and remedial works will be put on hold in the meantime.

5 REFUSE

5.1 Kerbside

Kerbside collection and Resource Recovery Centre operation continues with no significant problems. Revenue and waste volumes have significantly increased at the Beach Road site since the introduction of weight-based charges. These are discussed in detail in a separate report.

5.2 Capital works

Work is progressing on the evaluation of weighbridge options for the Beach Road site and the preparation of tenders for options pricing at the Murchison Landfill site.

5.3 Closed landfills

Recent clearing work has been completed at the former Rototai Landfill, Takaka, and further work is planned to reduce the incidence of illegal tipping at this site.

5.4 Agrecovery

A request for assistance has recently been received by Agrecovery, a body established to manage the stewardship of chemical containers used in the agriculture and forestry sector.

Agrecovery are looking to establish a collection point in the district, probably in Richmond, to collect and process used agri-chemical containers. This site will be operated at little or no cost to Council. Council staff are working with Agrecovery to identify the best site for this operation, and to finalise operational details.

6 TENDERS

Tenders awarded since the last meeting are:

No.	Contract name	No. of tenders received	Successful tenderer	Amount	Highest amount	TDC estimate	Comment
685	Murchison Pipelines	5	Adcock and Donaldson	\$144,828	\$167,887	\$171,600	Option 1 awarded only

7 RECOMMENDATION

THAT the report be received.

Jeff Cuthbertson
Utilities Asset Manager