

Report No:	RESC11-08-07
File No:	
Date:	20 July 2011
Information Only – no decision required	

REPORT SUMMARY

Report to: Engineering Services Committee
Meeting Date: 04 August 2011
Report Author: Jeff Cuthbertson, Utilities Asset Manager
Subject: UTILITIES REPORT

EXECUTIVE SUMMARY

This report provides a summary of the Utilities activities for the period May-June 2011.

Overall the contractor Downer performed well and undertook all pro-active, routine and non-routine maintenance on the water/wastewater treatment plants, pumpstations, reservoir sites and stormwater assets as scheduled within their May - June 2011 programme.

In solid waste operations contractors are generally performing well with some challenging conditions due to recent construction activities and wetter than normal weather.

Capital projects are steadily progressing and are generally on track. Tenders that have been awarded recently are described near the end of this report.

RECOMMENDATION/S

That the report be received.

DRAFT RESOLUTION

THAT the Engineering Services Committee receives the Utilities Report, RESC11-08-07.

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1. UTILITIES GENERAL

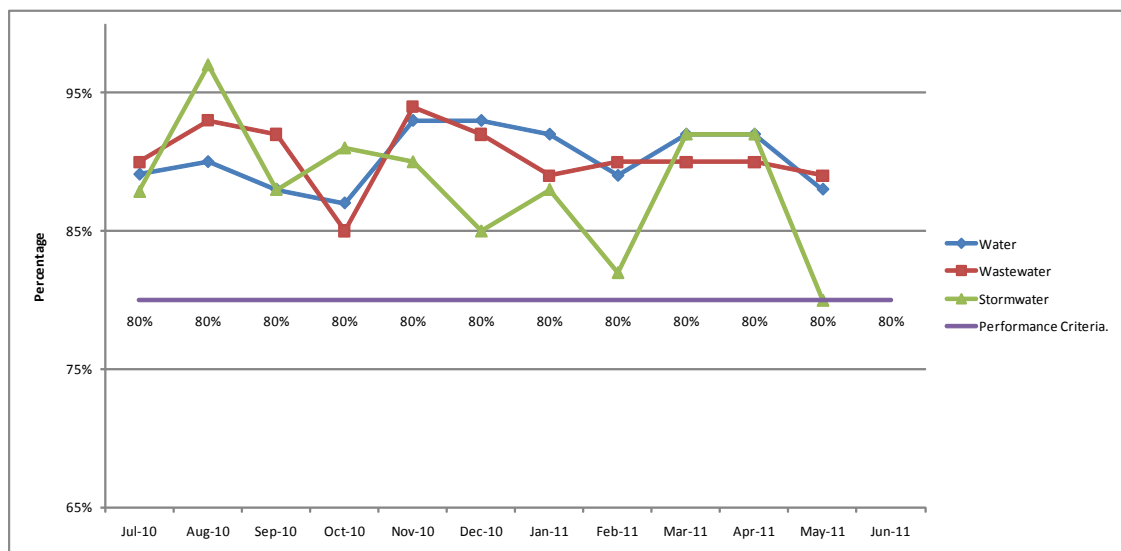
1.1 Utilities Operations and Maintenance Contract

1.2 Downer undertook all proactive, routine and non-routine network maintenance on the water and wastewater treatment plants, pumpstations, reservoir sites and stormwater assets as scheduled and required within their May-June 2011 programme.

1.3 As required by Contract 688, MWH undertook a random selection of audits on various portions of the water, wastewater and stormwater networks, and the most recent audit results available up to end of May, all comply with contract requirements (80%) as shown below:

Contract 688 Performance Measurement Audit scores July 2010 to June 2011												
	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11
Water	89%	90%	88%	87%	93%	93%	92%	89%	92%	92%	88%	
Wastewater	90%	93%	92%	85%	94%	92%	89%	90%	90%	90%	89%	
Stormwater	88%	97%	88%	91%	90%	85%	88%	82%	92%	92%	80%	
Performance Criteria.	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%

Contract performance standard measurement target requirement is to achieve a minimum score of 80% in any one discipline.

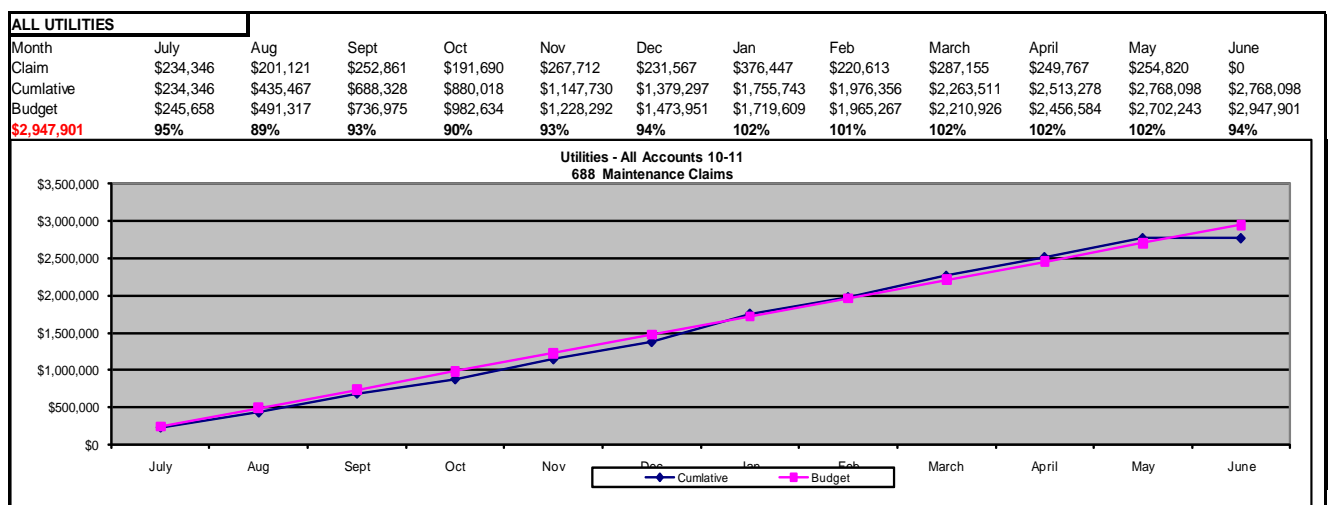


1.4 Customer Services - Job Completion

1.5 Targets and requirements under Contract 688 are for the contractor to achieve 90% or above for completion of allocated jobs on time. The contractor managed to achieve 92% for May and 93% for June 2011.

1.6 Financial Performance

1.7 As shown in the graph below, the overall Utilities expenditure, currently at 102% as of the end of May 2011, is tracking very close to the estimated budget. Recent maintenance cost increases are due to additional proactive and reactive work related to prolonged adverse weather. At the time of writing this report, end of June financial totals were not available.



1.8 General Items

- 1.9 The leak detection programme for 2010/11 has been completed and the 2011/12 programme will resume in August-September.
- 1.10 The debris nets installed at the stormwater pipe outlets of Beach Road, Richmond have been removed and will be reinstalled after spring to assess the volume of inorganic debris over the summer period.
- 1.11 Significant work has been undertaken to work toward upgrading the Confirm asset management system to provide a seamless work request/issue, reporting and processing of work claims, for Contract 688.

2. WASTEWATER NETWORKS

2.1 Operations and Maintenance

2.2 The majority of the wastewater networks have performed well during the last reporting period, however the prolonged periods of wet weather and high levels of

natural groundwater have resulted in higher than normal inflow and infiltration, and caused various issues at the majority of treatment plants.

- 2.3 During this period environmental and performance monitoring was routinely undertaken at all Tasman District Council operated Wastewater Treatment Plants (WWTPs).
- 2.4 Table 1 in Appendix 1, indicates whether full compliance with resource consent conditions was achieved at each WWTP. Where full compliance was not achieved, the likely factors contributing to the non-compliance event are discussed.
- 2.5 Wastewater Exceptions and Sewer Blockages/Overflows for the last period are detailed in Appendix 2:.
- 2.6 Some customers on the Brightwater network (Waimea West/Malthouse Crescent area) experienced odour issues where the Eves Valley leachate line discharges into the public sewer system. Various remedial works have been implemented in and around the discharge point including a sprinkler system in the discharge manhole to minimise the impact on adjacent residents. This resolved the odour issue and further investigation and data collection is ongoing.

2.7 Capital Projects

- 2.8 Sewer renewals contracts for Motueka have been tendered. Works include the sewer pipe upgrade through Lowe Street and north along High Street towards Whakarewa Street. The project also includes sewer renewals along York Street, Boyce Street and Moffat Street.
- 2.9 The tender for the Murchison Wastewater Pumpstation Upgrade has closed and is currently undergoing evaluation.
- 2.10 The Pohara Sewer Gravity Main upgrade tender has closed and is currently undergoing tender evaluation.
- 2.11 Mapua Wharf Wastewater Pump Station Upgrade – three of the four submissions that were received, were recommended for shortlist. The detailed design is progressing in conjunction with obtaining resource consents.
- 2.12 Contract 816 (Motueka Stormwater Improvements - High Street) which was awarded to Ching Contracting Ltd has been progressing well. The works include replacement of some sewer mains in High Street (between Poole and Inglis Streets) and in Eginton and Fearon Streets.
- 2.13 The tender documents for the replacement of the discharge drainage at the Murchison Wastewater Treatment Plant are completed and will be tendered in July.

- 2.14 The Takaka Wastewater Treatment Plant Working Party has met on five occasions. The Working Party has reviewed several options and made good progress on reporting back to a future Engineering Services Committee meeting.
- 2.15 The Working Party is now seeking further information relating to the specific ground hydraulics around the proposed final effluent disposal system. Council has gained a resource consent to undertake this groundwater testing. Testing is due to commence on Monday 1 August 2011. Once testing is completed and the results have been reported back to the Working Party, a programme of consultation and reporting back to the Engineering Services Committee will be undertaken.

3. WATER NETWORKS

3.1 Operations and Maintenance

3.2 The majority of the urban water supply networks have performed well over the May-June period. Regular rainfall events have relieved the demand on the networks, in particular, the rural systems. However the main crossing under the Dove River was damaged during a heavy rain event resulting in loss of supply to the Dovedale system. Due to the high flows and river levels a temporary pipe-bridge and associated bypass pipework have been installed to restore supply and allow time to plan and implement a more permanent solution.

3.3 New Water Connections Summary:

- one each in Brightwater, Mapua, Kaiteriteri, Tapawera
- three in Richmond

3.4 For water exceptions, refer to Appendix 3: Water Exceptions.

3.5 Capital Projects

3.6 Queen Street and Valhalla Reservoirs – the installation of seismic control valving on the Richmond trunk main near the Upper Queen Street reservoir has been completed and similar work on Valhalla reservoirs is due to commence.

3.7 The Tapawera Rising Main Replacement contract is due for practical completion. The contract will then enter into a 12 month period of defects liability.

3.8 Land negotiations for the Richmond East Reservoir and pipework have continued. Alternative access options have been investigated and evaluated. Resource consents and detailed reservoir design are underway.

3.9 The construction of the Takaka CBD Firefighting Water Scheme has attained practical completion. The fire main was officially opened by retired Councillor Noel Riley on 12 July.

4. STORMWATER NETWORKS

4.1 Operations and Maintenance

4.2 May and June 2011 saw a considerable amount of rain fall throughout the region, particularly in May where record volumes were recorded in some locations. Precautionary storm checks were undertaken on six occasions during these two months.

4.3 The Motueka Wharf Road gates were closed on two occasions in May and June.

4.4 Routine maintenance undertaken on drains throughout the region has been to an acceptable standard.

4.5 Capital Projects

4.6 Ruby Bay Stormwater (Tait Street and Stafford Drive) – Tenders for this work closed on Wednesday 15 June and a preferred tenderer has been identified. The works include three separable portions including a new outfall at Tait Street, a low pressure stormwater line from Crusader Drive to Tait Street and drainage improvements on Stafford Drive.

4.7 Tendered prices for the full scope of works exceeded available budget and Council staff are in discussions with the preferred tenderer to identify possible cost savings. Works in Tait Street are expected to commence in early August.

4.8 Motueka Stormwater Upgrade (High Street) – The majority of these works are progressing well, with good progress being made by the contractor. The stormwater works are due for completion in late July with resealing of High Street expected to commence on 1 August.

5. TELEMETRY

5.1 Analogue telemetry – The network has performed well over this reporting period and there are no significant issues or anomalies to report.

5.2 The base station has operated well over the past six weeks. A significant change has been implemented to the base station relating to how contractors and InTouch users access the system. This allows greater control with access levels and will improve the security of the server and its software.

5.3 New sites have been added to the system at River Road Pumpstation, O'Connor's Creek, Golden Hills, Upper Queen Street Reservoir and Pumpstation and Mapua-Pomona Road Reservoirs. These sites have been working well and now provide greater detail and functionality.

6. SOLID WASTE

6.1 Kerbside recycling and bag collection

- 6.2 Management of kerbside operations continues at an excellent level with 100% of enquiries resolved on time by the contractor over the last three months.
- 6.3 Sales and collection of Council's "Big" yellow 60 litre rubbish bag has commenced in July, with no reported problems to date. Staff will monitor sales of the small and larger bags over the year and report to the committee from time to time.

6.4 Resource Recovery Centres

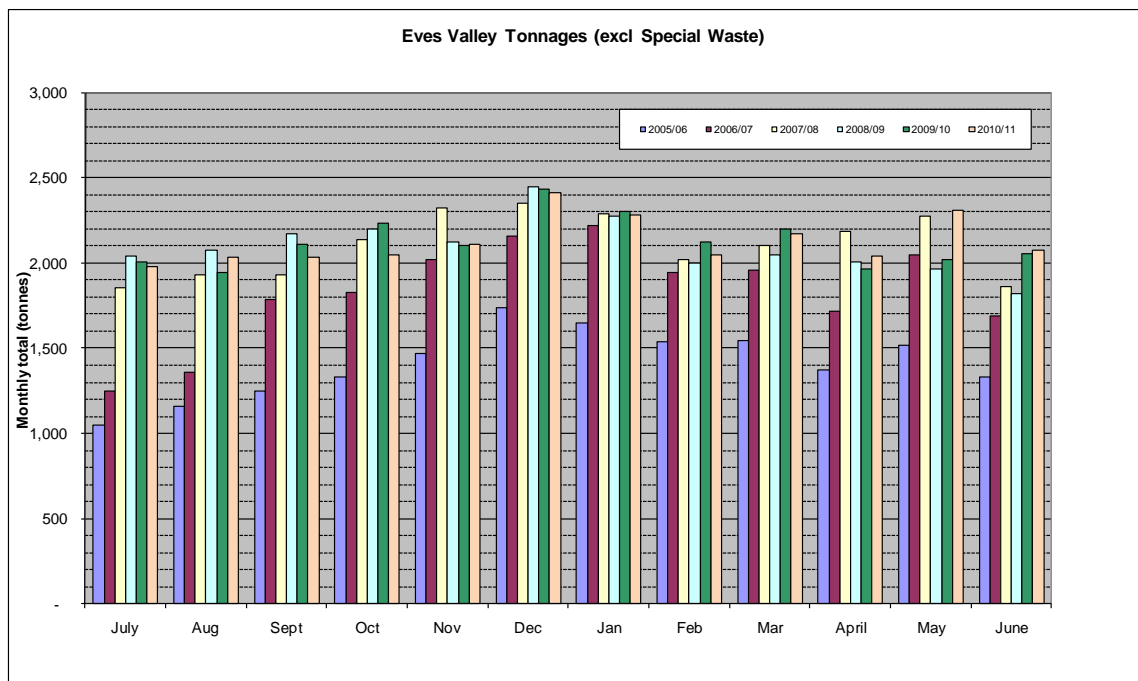
- 6.5 Work continues on the redevelopment of the Richmond RRC (Contract 814), with work moving to the refurbishment of the waste tipping pit and loading facilities. Fulton Hogan and their subcontractor (Kidson Construction) have continued to deliver to a high standard of work, in sometimes difficult working conditions. Final concrete was poured on 19 July and the pit area is being prepared for installation and commissioning of a new waste compactor (Contract 811) in the last week of July. Operations are expected to switch to the new pit on 1 August.
- 6.6 Unexpected ground conditions have led to additional excavation, haulage and landfill disposal costs for this capital work. Staff are assessing the impact of this work on the total capital cost.
- 6.7 A new caravan dump station has now been incorporated into the design of the walkway carpark adjacent to the Richmond RRC. This work will be funded by the Richmond sewer renewals budget and is expected to open in September. The existing site at Jubilee Park is scheduled to close when the Richmond RRC site is opened.
- 6.8 Minor drainage works at the Mariri Resource Recovery Centre are in progress, in preparation for further development at this site. Recent wet weather at the site has also caused some leachate issues in the area of the closed landfill. Remedial works are in progress to correct this issue. Decisions on further development of the Mariri site this year will be made once the final cost of the Richmond RRC works is determined.
- 6.9 A recent audit of income at the Takaka RRC has indicated lower than expected income for this site. The issue has been raised with the operations contractor, who has taken steps to address this issue. Income in recent weeks has returned to expected levels.
- 6.10 Site development plans are currently being detailed for each of the remaining RRC sites (Takaka, Collingwood, Murchison) in advance of any significant capital works. Recent minor works at these sites has included improved handling facilities for hazardous materials (oil, batteries and paints).

6.11 Eves Valley Landfill

6.12 Waste volumes to the Eves Valley landfill increased significantly in May and June, due largely to increased special waste volumes from the Richmond RRC site works. A combination of this and heavy rain in May and June has led to challenging conditions for the contractor. The heavy rain and the nature of this material are thought to have placed significant pressure on the current leachate system. Odour complaints have been received for the wastewater system downstream of the site and this is being investigated.

6.13 The challenges of a very wet period have required further modifications to the landfill operations. An improved stormwater management system has been installed around the working area to minimise the risk of leachate contamination of the stormwater system.

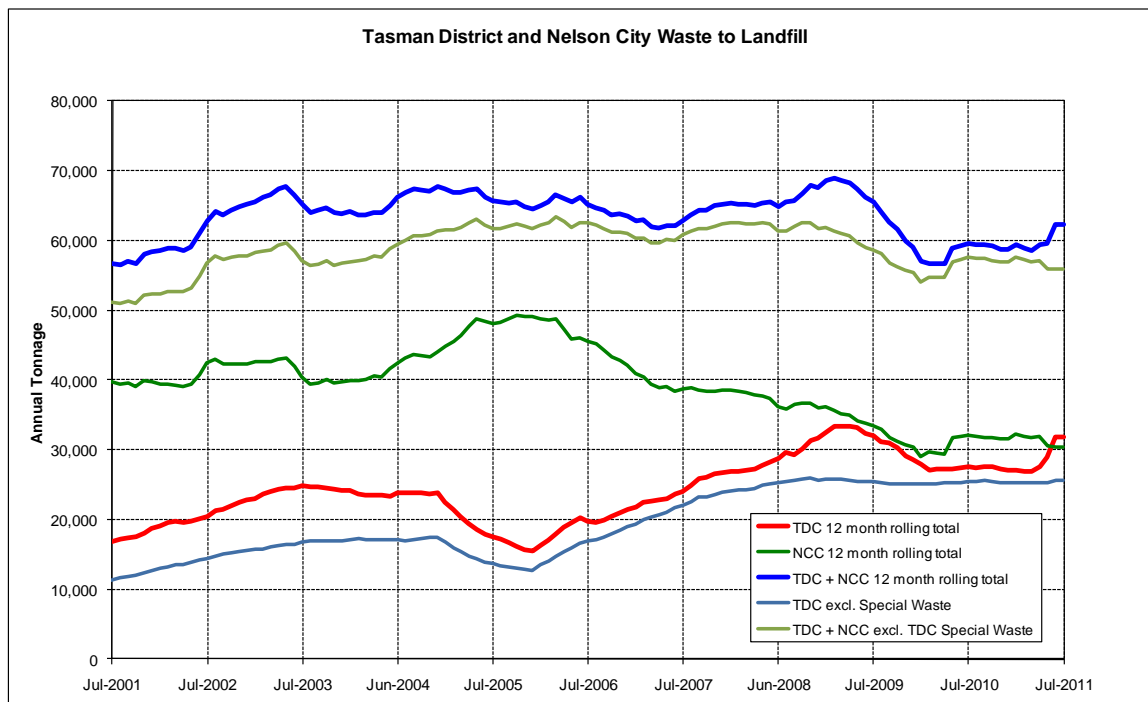
6.14 Stormwater pond upgrade works have been awarded as a variation to this contract in order to manage the risk of discharges during the pond works. Work is due to commence mid-July.



6.15 Regional Waste Minimisation

6.16 Regional waste quantities indicate a generally small recovery in waste volumes to landfill. The increase in Tasman waste is a one-off due to disposal of waste from the Richmond RRC site development, the decrease at Nelson City Council is a reflection of a one-off disposal 12 months ago.

6.17 In conjunction with Nelson City Council, staff have recently engaged a consultant to assist in the preparation of a joint Waste Management and Minimisation Plan (WMMP). Meetings are currently being scheduled for members of the joint working party.



7. TENDERS

7.1 The following tenders have been awarded since the previous Engineering Services Committee meeting:

No.	Contract name	No. of tenders	Successful tenderer	Amount	Highest amount	Council estimate	Budget for this item	Comment
816	High Street, Motueka Stormwater and Wastewater upgrade	2	Ching Contracting	\$1,056,392	\$1,197,974	\$896,375	\$1,038,695	Construction will be over two financial years.

8. RECOMMENDATION

8.1 That the report be received.

9. DRAFT RESOLUTION

THAT the Engineering Services Committee receives the Utilities Report RESC11-08-07.

Appendices:

Appendix 1: WWTP Compliance with Consent Conditions

Appendix 2: Wastewater Exceptions and Sewer Blockages/Overflows

Appendix 3: Water Exceptions