



Making a difference...together

**CEDARS OF TUAM WATER SERVICE  
ANNUAL REPORT  
MONDAY 28 NOVEMBER 2011**

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**Operations**

The Cedars of Tuam water system has operated reliably in the past year. There was only one event that resulted in a low level alarm in the reservoir. It was determined that a customer had left a hose running.

**Capital Plan**

Staff and the Cedars of Tuam Water Service Commission have developed a Statutory Right of Way agreement with the Gulf Islands School District for access and use of the well that was drilled and tested at the Isabella Point School property in 2010. Staff and the Commission will meet with the District before year end to proceed with finalizing the agreement.

The development of a Strategic Asset Management Plan was started in 2011, to determine the quantity, age, condition and approximate life expectancy of the water mains and other system infrastructure; estimate the cost to renew or replace the components; and develop a long-term financial plan to fund infrastructure renewal and incorporate new works, to maintain an acceptable level of service and stable annual cost of service.

Both of these projects were funded with grant funds.

**Water Quality**

The analytical results of water samples collected over the past year from the Cedars of Tuam Water System show that the quality of drinking water is satisfactory and well within regulatory limits.

**Water Supply and Demand**

The total amount of water produced into the Cedars of Tuam water distribution system in 2010 was 1,813 cubic metres (m<sup>3</sup>), an estimated increase of 6% from 2009 (Figure 1). The production water meter did not operate reliably in 2009 due to problem with silt migration from the well into the meter, so an accurate production volume is unavailable. Monthly production (Figure 2) indicates little seasonal variation in water usage since 2007. The high production in May 2008 resulted from a malfunction of a level switch in the storage tank that caused the well pump to run continuously for several hours and overflow the tank.

Figure 1. Total Annual Water Production

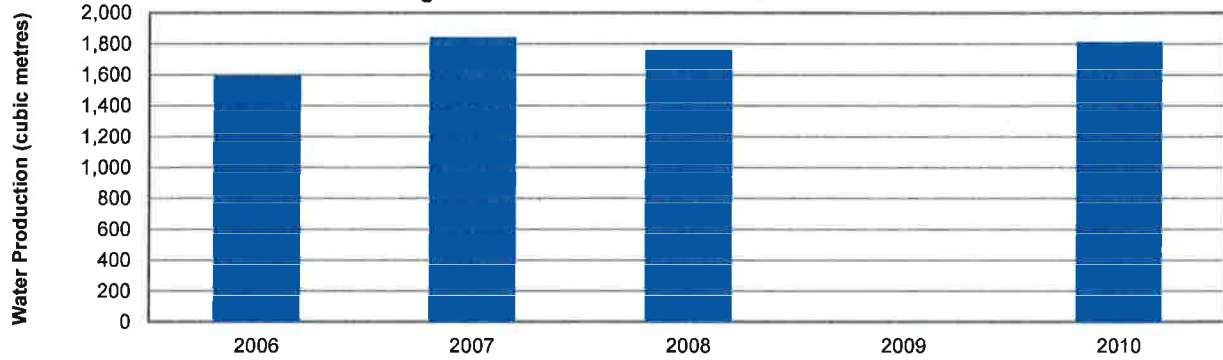
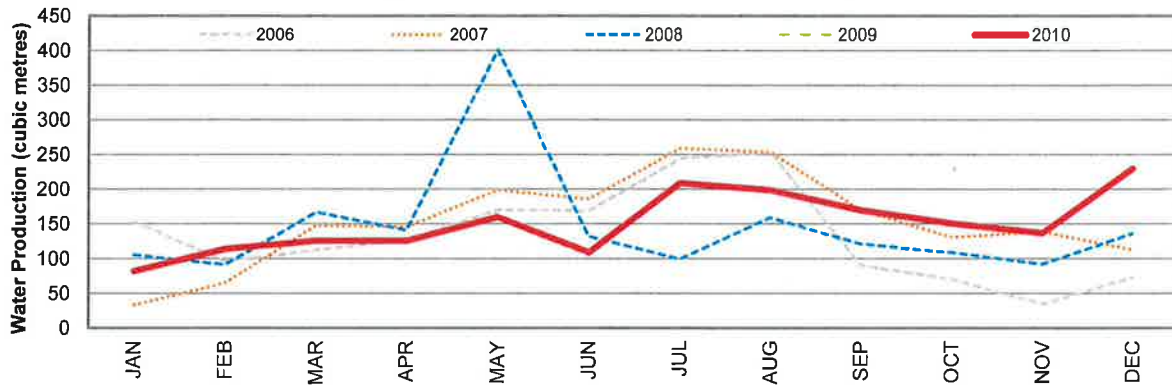
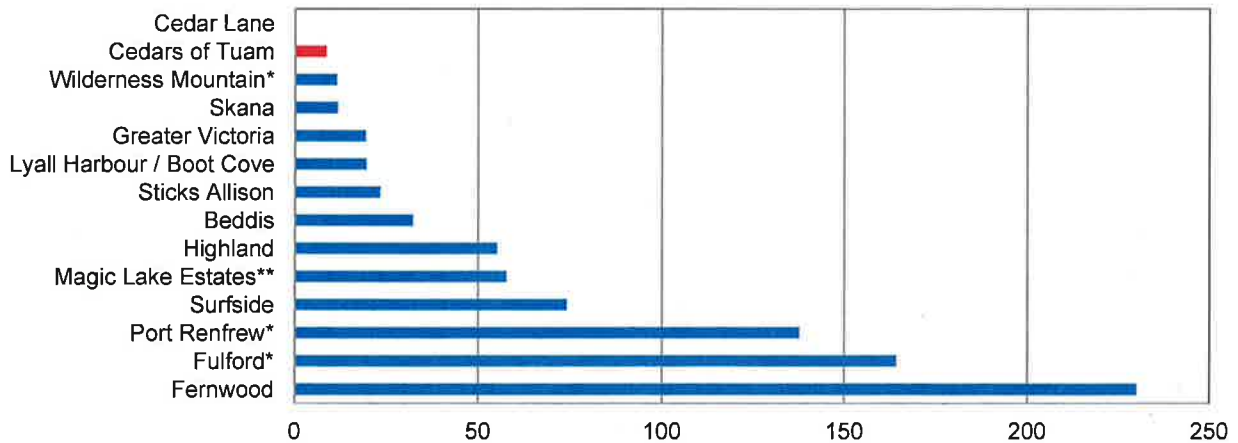


Figure 2. Water Production by Month



Total usage measured through customer meters in 2010 was 1,679 m<sup>3</sup>. The difference between production and total metered consumption, called non-revenue water, includes distribution leaks, meter error, and unmetered uses such as distribution system maintenance. Non-revenue water in 2010 was 134 m<sup>3</sup>, or 7% of overall production. Non-revenue water was 8 m<sup>3</sup> per service connection, which is very low for infrastructure of the age and construction of the Cedars of Tuam system. A comparison with other CRD water systems is provided in Figure 3.

Figure 3. Non-Revenue Water per Connection (cubic metres)  
 CRD Water Local Services

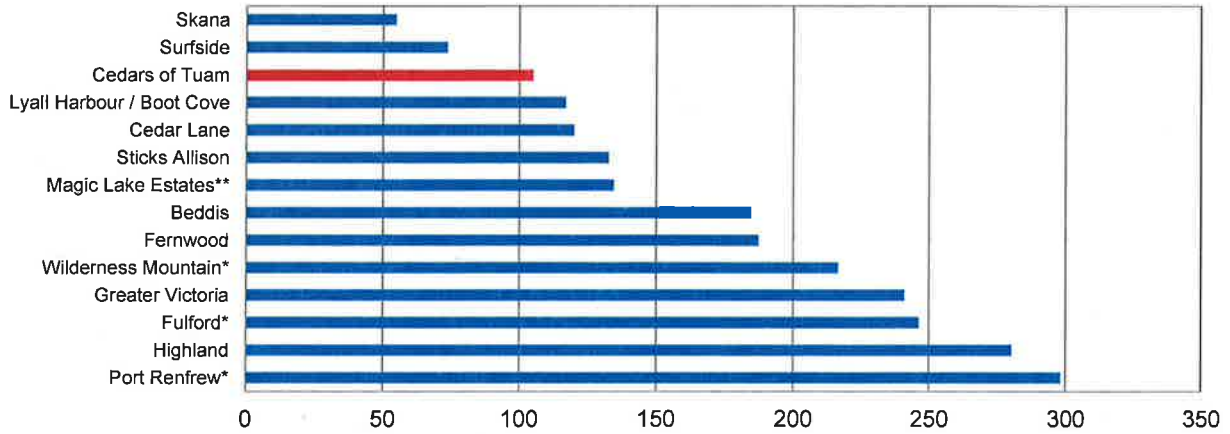


\* Residential is unmetered - residential demand is estimated

\*\*Consumption data is based on 343-576 accounts measured for a partial year

The average Cedars of Tuam account used 105 cubic metres of water in 2010. A comparison of 2010 average annual water consumption per residential service connection for CRD water services is provided in Figure 4.

**Figure 4. Average Annual Water Use per Connection (cubic metres)**  
**CRD Water Systems**

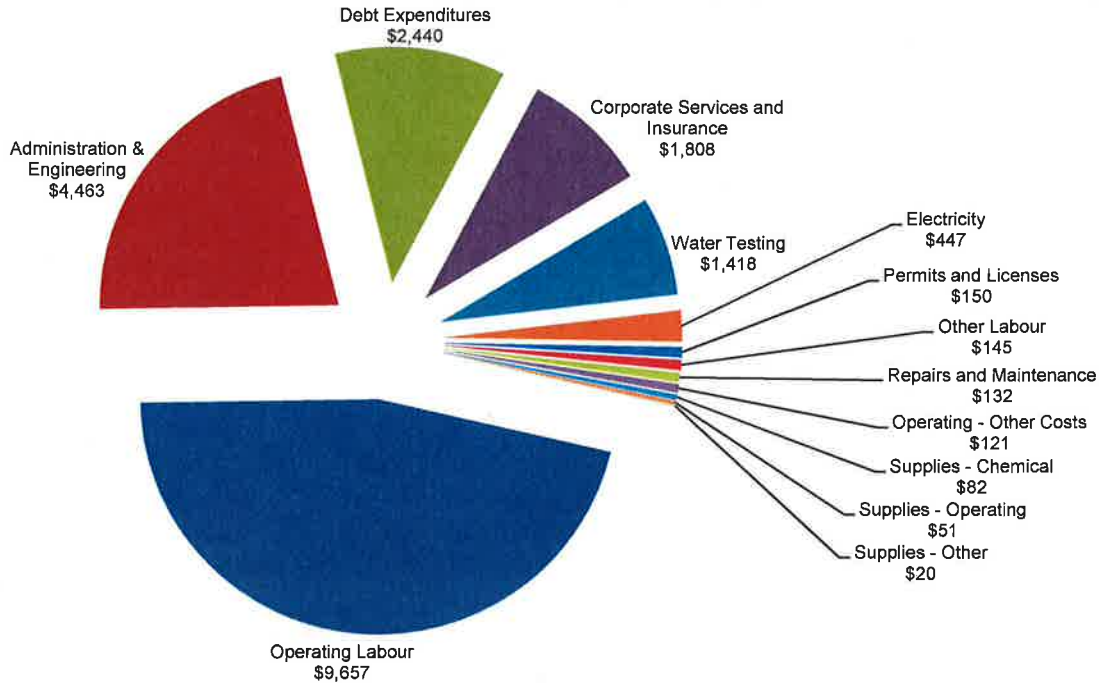


\* Residential is unmetered - residential demand is estimated  
 \*\*Consumption data is based on 343-576 accounts measured for a partial year

**Financial Report**

A statement of financial activities in 2010 for the Cedars of Tuam water service is attached. Revenues consisted primarily of \$19,265 from user fees and consumption charges. A breakdown of the \$20,932 expenditure is provided in Figure 5.

**Figure 5. 2010 Actual Operating Expense \$20,932**




Operating costs exceeded revenue in 2010 by \$1,650, primarily due to a revenue shortfall caused by a delay in implementing the 2010 water rate that resulted in the under-charging of all customers for water

service. The net expense was partially offset by a \$239 surplus carried forward from 2009, resulting in a net deficit of \$1,411 carried forward to 2011. The Cedars of Tuam Water Service held capital reserves of \$4,786 as at December 31, 2010.

**Water System Problems - Who to Call:**

To report any event or to leave a message regarding the Cedars of Tuam water system, call:

**CRD water system emergency call centre: 1-250-474-9630**  
**CRD local operator (Ganges Wastewater Treatment Plant): 250-537-4314**  
**CRD water system general enquiries (toll free): 1-800-663-4425**



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Concurrence

TR:CS:ls  
Attachment: 1

**CAPITAL REGIONAL DISTRICT**

**WATER REVENUE FUND**  
**Statement of Financial Activities**  
**For the Year Ended December 31, 2010**

	Cedars of Tuam Water Supply
<b>Revenue</b>	
Transfers from government	\$ -
Sale of services	19,265
Other revenue from own sources:	
Interest earnings	-
Other revenue	17
Grants in lieu of taxes	-
	<u>19,282</u>
<b>Expenditure</b>	
General government services	1,510
Grants in aid	-
Other	19,383
Salaries and wages	-
Other fiscal services	39
Recovery	-
	<u>20,932</u>
<b>Net revenue (expenditure)</b>	<b>(1,650)</b>
Transfers to own funds:	
Water Capital Fund	-
Reserve Funds	-
Equipment Replacement Fund	-
Transfers from own funds:	
Reserve Funds	-
<b>Change in fund balance</b>	<b>(1,650)</b>
Opening balance	239
<b>Closing balance</b>	<b>\$ (1,411)</b>