



Corporate NO: R149 **Report** COUNCIL DATE: July 4, 2000

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **June 22, 2000**

FROM: **General Manager, Engineering** FILE: **1299-242**

SUBJECT: **City Facilities Water Audit**

RECOMMENDATION

For Council's information.

INTENT

To update Council on the results of the City's Facility Water Audit and the proposed water and energy reduction action plan.

BACKGROUND

In 1998, Council adopted a Water Metering & Demand Management Strategy that set the course for the City's water conservation program. The strategy comprises four principles:

1. Corporate leadership
2. Education and conservation
3. Effective metering
4. Equitable rate structure

To establish ourselves as a leader in the community, an audit of our own facilities was proposed. The Sage Foundation were retained to conduct water audits on select facilities as a pilot project to identify savings through reduced water supply and sewer charges. The following facilities were chosen as a representation of a good cross-section of all municipal facilities:

1. City Hall

2. Fire Hall #9
3. Engineering Works Yard
4. Fleetwood Community Centre
5. North Surrey Recreation Centre
6. Cloverdale Arena
7. Newton Wave Pool

AUDIT RESULTS

The audit took place from January to March of this year. The Executive Summary of the report is attached. For the seven facilities, a total annual savings of over \$16,000 can be realized by implementing low-cost or no-cost solutions. These solutions are as simple as adjusting flush times on urinals and installing low flow adapters on shower heads and faucets.

The savings translate to an approximate 9% savings in water costs per facility on average, with associated savings in energy consumption due to reductions in the use of hot water. Similar results are anticipated in other City facilities.

ACTION PLAN

Armed with the results of the audit, our Facilities Management Section will be undertaking the following initiatives to provide good water conservation measures and payback results in City facilities:

- Using the information from this pilot study, extrapolate potential savings for other City buildings and implement water conservation measures which will provide good payback results by reducing toilet tank capacities, changing low-flow adapters and shower heads on fixtures, and adjusting flush rates on urinals where practicable; and
- Implementing one-time stand-alone observations for certain facilities identified in this study where excellent payback has been identified.

Jorgen Johansen, P. Eng.

General Manager, Engineering

MD/WC/brb

Attachment

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