

Commercial and Institutional Water Efficiency Assessment Report

Water Customer Information

Customer Legal Name	XXXXX
Customer Operating Name	XXXXX
Location of Facility	XXXXX
Water Account #	XXXXX
Primary contact Name	XXXXX
Primary contact Title	XXXXX
Primary contact Phone	XXXXX
Primary contact E-mail	XXXXX
Approximate Marginal cost of water and sewer	\$2.10 per m3
(\$/m3)	
Total Annual Water Usage (m3)	55,000 approximate
Annual Water Bill Cost (\$)	\$115,500 approximate
Size of Facility sq. ft.	300,000 approximate
Primary Customer Activity	424 Suite Full Service Hotel, Restaurant and Meeting Center
NAICS Sector or Subsector Code	721200
Typical Operating Hours, and 5 or 7 day	Continuous 24 X 7
operation	
Number of Employees	150 Approx

Water Assessment Consultant Submission Details

Water Audit Consultant	Name, telephone number, email address				
Date of Site Visit:	3 June 2010				
Date of Report:	23 June 2010				
File Number:	XXXXXX				
Ivor F. da Cunha P.Eng.					
	P.Eng. Stamp				

Note: This report should only be considered to be a pre-feasibility report in scope and quality. Existing water consumption patterns, capital cost estimates and potential City of Toronto water efficiency incentives are only estimates, and are based on preliminary observations and screening made during the facility walkthrough and discussion with client. Estimated water savings, capital costs, ongoing operating costs, and potential incentive amounts are not guaranteed.

Water Efficiency Report 120619 Page 1 of 5

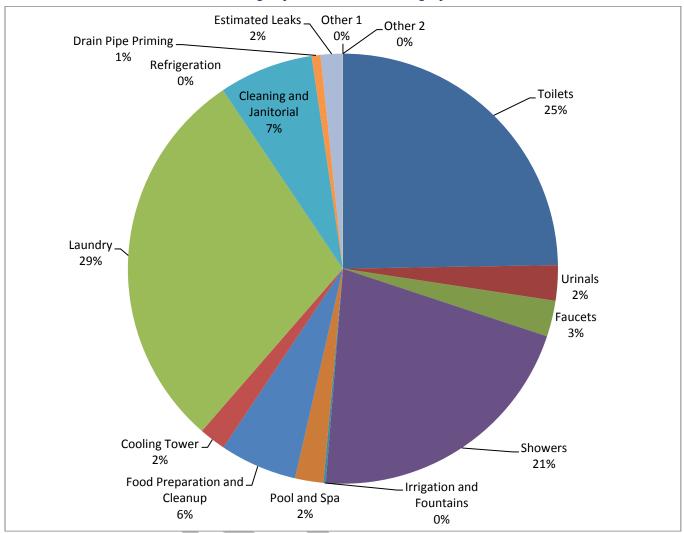
Estimated Facility Water Usage by Area or Device Category

Identify the types or areas of water usage for each major facility area and/or process	Domestic Equipment or Process Equipment Details and water consumption variables	Approximate water usage (m3) per year.	Approx. Number of Devices on Site	
Toilets	xxx	13,500	459	
Urinals	XXX	1,452	15	
Faucets	XXX	1,475	439	
Showers	XXX	11,558	428	
Irrigation and Fountains	xxx	95	2	
Pool and Spa	xxx	1,165	2	
Food Preparation and Cleanup	XXX	3,167	7	
Cooling Tower	XXX	1,092	1	
Laundry	XXX	15,933	5	
Refrigeration	XXX	-	0	
Cleaning and Janitorial	xxx	3,869	438	
Drain Pipe Priming	XXX	364	25	
Estimated Leaks	XXX	910	100	
Other 1	xxx	-	0	
Other 2	XXX	-	0	
Total		54,580		

Ipm =liters per minute
Ipf = liters per flush

Water Efficiency Report 120619 Page 2 of 5

Present Situation – Estimated Water Usage by Area or Device Category

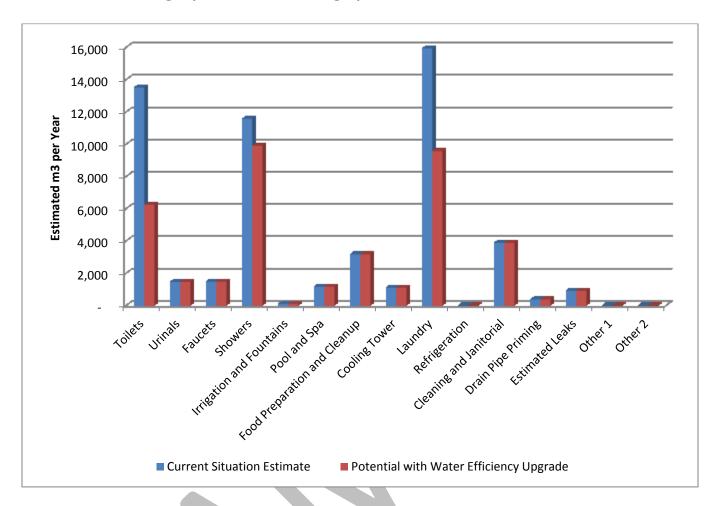


Briefly describe the methods that were used to calculate or estimate water usage: (include monitoring methods)

A site inspection was conducted on June 3, 2010 with the client. A sample of domestic fixtures in the rooms, meeting space and service areas was inspected. Operating information, occupancy levels and typical scheduling information was provided by the client. A water balance was estimated and cross-checked against prior 12 months of water consumption billing information.

Water Efficiency Report 120619 Page 3 of 5

Potential Water Savings by Area or Device Category





Water Efficiency Report 120619 Page 4 of 5

Estimated New Water Saving Opportunities

Description of Potential Water Efficiency Measure or Action	Measure expected to save Water Supply	Estimated Implementatio n Cost (\$)	Estimated Toronto Rebate (\$)	Estimated Net Capital Cost (\$)	Estimated Annual Water Use Savings (m3)	Estimated Annual Cost Savings (\$)	Estimated Payback Period (years)	Notes and Comments
Replace Toilets with 6 lpf models (estimated cost \$300 per unit)	Both	137,700	0	137,700	7,269	15,266	9.0	Marginal but consider replacing toilets in common washrooms and change rooms.
Urinals- no change	Both	0	0	0	0	0	N/A	No
Faucets- no change	Both	0	0	0	0	0	N/A	No
Replace Showers with 12 lpm models	Both	10,700	0	10,700	1,651	3,467	3.1	Yes
Irrigation and Fountains - No change	Both	0	0	0	0	0	N/A	No
Pool and Spa - no change	Both	0	0	0	0	0	N/A	No
Food Preparation and Cleanup- no change	Both	0	0	0	0	0	N/A	No
Cooling Tower- no change	Both	0	0	0	0	0	N/A	No
Laundry - install water recovery device	Both	150,000	5,238	144,762	6,373	13,384	10.8	Marginal based on water savings alone, but more attractive with natural gas savings.
Refrigeration- no change	Both	0	0	0	0	0	N/A	No
Cleaning and Janitorial- no change	Both	0	0	0	0	0	N/A	No
Drain Pipe Priming- no change	Both	0	0	0	0	0	N/A	No
Estimated Leaks- no change	Both	0	0	0	0	0	N/A	No
Other 1- no change	Both	0	0	0	0	0	N/A	No
Other 2- no change	Both	0	0	0	0	0	N/A	No
Total		298,400	5,238	293,162	15,293	32,117		

- Shower heads can be replaced with water efficient 12 lpm units.
- The building management is evaluating a water recovery device for laundry equipment. Based on the expected throughput of the laundry and the estimated water savings from the equipment supplier's literature and personal communications, it is believed that approximately 6,370 m3 of water could be saved on an annualized basis. At \$0.30 per litre of average daily water savings, the potential incentive for the project would be \$5,238. For this report, only water savings were evaluated, and there are expected to be additional water heating savings.

Notes:

- The City of Toronto Water Efficiency capacity buyback incentive is \$0.30/L for both water and sewer reduction, or \$0.15/L for *only one* of water or sewer reduction.
- Program rules, qualification requirements and potential incentives by the City of Toronto may be modified or cancelled without notice.
- Incentive approvals are at the sole determination of the City of Toronto and are not guaranteed in this report.
- Construction costs are only preliminary estimates.
- It is the property owner's responsibility to ensure that any changes involving water distribution or utilization within the facility are done in accordance with all applicable codes, standards, permits and health and safety requirements.
- For additional information about the City of Toronto's Water Efficiency Program, please visit: http://www.toronto.ca/watereff/index.htm

Water Efficiency Report 120619 Page 5 of 5