
# CITY OF TORONTO

# DRINKING WATER SYSTEM

# FINANCIAL PLAN (2015 – 2020)

**Financial Plan # 010-301**

**(July, 2014)**

TORONTO

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## DRINKING WATER SYSTEM FINANCIAL PLAN

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# SECTION 1

# CITY OF TORONTO

# Council Approved Financial Plan

# TORONTO Item

## Tracking Status

City Council adopted this item on July 8, 2014 without amendments and without debate.
This item was considered by the Public Works and Infrastructure Committee on June 18, 2014 and adopted without amendment. It will be considered by City Council on July 8, 2014.

### City Council consideration on July 8, 2014

| | | | | |
|---|---|---|---|---|
| PW32.15 | ACTION | Adopted on Consent | | Ward:All |

## Financial Plan for the City of Toronto's Municipal Drinking Water License Renewal

### City Council Decision

City Council on July 8, 9, 10 and 11, 2014, adopted the following:

1. City Council approve the Financial Plan (Attachment 1 to the report dated May 28, 2014 from the General Manager, Toronto Water, and the Deputy City Manager and Chief Financial Officer) prepared for the City of Toronto's Municipal Drinking Water System, in accordance with Ontario Regulation 453/07, for submission to the Ontario Ministry of Municipal Affairs and Housing, in compliance with the requirements of the Municipal Drinking Water License renewal process.

### Background Information (Committee)

(May 28, 2014) Report and Attachments 1 to 3 from the General Manager, Toronto Water and the Deputy City Manager and Chief Financial Officer, on Financial Plan for the City of Toronto's Municipal Drinking Water License Renewal
(http://www.toronto.ca/legdocs/mmis/2014/pw/bgrd/backgroundfile-70178.pdf)

### Public Works and Infrastructure Committee consideration on June 18, 2014

Source: Toronto City Clerk at www.toronto.ca/council

TORONTO

# STAFF REPORT
# ACTION REQUIRED

# Financial Plan for the City of Toronto's Municipal Drinking Water License Renewal

| | |
|---|---|
| **Date:** | May 28, 2014 |
| **To:** | Public Works and Infrastructure Committee |
| **From:** | General Manager, Toronto Water<br>Deputy City Manager and Chief Financial Officer |
| **Wards:** | All Wards |
| **Reference Number:** | P:\2014\Cluster B\TW\pw14010 |

## SUMMARY

The purpose of this report is to obtain City Council approval of a Financial Plan prepared as a condition of the Municipal Drinking Water Licence renewal process under the Safe Drinking Water Act, 2002. A Municipal Drinking Water Licence is an approval issued by the Ontario Ministry of the Environment for the operation of a municipal drinking water system. The City of Toronto's current Drinking Water Licence expires on February 16, 2015.

The Financial Plan for the City of Toronto's drinking water system has been prepared in accordance with Ontario Regulation 453/07 and must be approved by a resolution of Council for submission to the Ontario Ministry of Municipal Affairs and Housing by August 17, 2014.

## RECOMMENDATIONS

**The General Manager, Toronto Water and the Deputy City Manager and Chief Financial Officer recommend that:**

1. City Council approve the Financial Plan (Attachment 1) prepared for the City of Toronto's Municipal Drinking Water System, in accordance with Ontario Regulation 453/07, for submission to the Ontario Ministry of Municipal Affairs and Housing, in compliance with the requirements of the Municipal Drinking Water License renewal process; and,

2. A copy of this report be forwarded to the Budget Committee.

### Financial Impact

There are no direct financial impacts as a result of the preparation of the Financial Plan. The Plan has been developed based on Toronto Water's 2014 Operating Budget, 2014 Capital Budget and 2015-2023 Capital Plan and 2014 Water and Wastewater Service Rate Report, approved by Council on December 16-18, 2013.

The Deputy City Manager and Chief Financial Officer has reviewed this report and agrees with the financial impact information.

## DECISION HISTORY

The Financial Plan represents a summary of financial information extracted from the 2014 Capital Budget and 2015-2023 Capital Plan and 2014 Water and Wastewater Service Rate Report approved by Council at its meeting of December 16 to 18, 2013. The Council decision can be viewed at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2013.EX36.17

The Financial Plan approved by Council for submission to the Ontario Ministry of Municipal Affairs and Housing by August 17, 2010 as a condition of the Municipal Drinking Water Licence issued to the City of Toronto on February 17, 2010 can be viewed at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2010.PW34.5

In accordance with the requirements of the Safe Drinking Water Act, and fulfilling the requirements of the City of Toronto's Drinking Water License, Council has previously provided authorizations, through reports submitted to the Public Works and Infrastructure Committee, summarized in the following.

The report entitled "Authority to Enter into Agreement for Municipal Drinking Water System Operating Authority Accreditation" was approved by Council at its meeting of February 22 to 23, 2010. A copy of the Council Decision Document can be found at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2010.PW30.6

The report entitled "Signing Authority for Municipal Drinking Water Licensing Program" was approved by Council at its meeting of November 30 to December 7, 2009. A copy of the Council Decision Document can be found at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2009.PW28.11

The report entitled "Designating the General Manager of Toronto Water as the Owner Representative for Implementation of the Drinking Water Quality Management Standard" was approved by Council at its meeting of .July 16 to 17, 2007. A copy of the Council Decision Document can be found at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2007.PW7.9

## ISSUE BACKGROUND

The proclamation of Section 33 of Ontario's *Safe Drinking Water Act* in May 2007 began the transition from the Ministry of the Environment's Certificate of Approval Program to the new

Municipal Drinking Water Licensing Program (the "Licensing Program"). The changes to the approvals process addressed recommendations from Justice O'Connor's *Report of the Walkerton Inquiry*.

Under the Licensing Program, the Ontario Ministry of the Environment grants authority to use or operate a drinking water system through a Municipal Drinking Water Licence, subject to the owner meeting the following four prerequisites: receiving a Drinking Water Works Permit; submitting an acceptable Operational Plan; having an Accredited Operating Authority and obtaining a Permit to Take Water. The Ontario Ministry of the Environment issued the City of Toronto a Municipal Drinking Water Licence for its Drinking Water System on February 17, 2010.

In Part Two of Justice Dennis O'Connor's Report of the Walkerton Inquiry, Justice O'Connor stressed the importance of ensuring that municipalities plan for the long-term financial sustainability of their drinking water systems to ensure that adequate finances are available to cover both day-to-day operational costs as well as the costs of maintaining and upgrading municipal water systems in order to ensure the safety of drinking water supplies now and into the future.

As part of the Province's commitment to implement all of the Walkerton Inquiry recommendations, the Provincial Minister of the Environment issued O.Reg.453/07 under the Safe Drinking Water Act, 2002 (SDWA), in the summer of 2007, to require Municipal Drinking Water System owners to prepare and submit Council-approved Financial Plans as a condition of the new Municipal Drinking Water Licence set out in Part V of the SDWA.

i) The Financial Plan is to cover a period of 6 years and include the following details:
ii) The proposed or projected financial position of the drinking water system;
iii) The proposed or projected financial operations of the drinking water system;
iv) The drinking water system's proposed or projected gross cash receipts and gross cash payments; and
v) The extent to which the financial information relates directly to the replacement of lead water service pipes as defined in section 15.1- 3 of Schedule 15.1 to Ontario Regulation 170/03 (Drinking Water Systems), made under the Act.

A Financial Plan for the period covering 2010-2015 was approved by Council at its meeting on July 6, 2010 and submitted to the Ontario Ministry of Municipal Affairs and Housing by August 17, 2010 in compliance with the requirements of the Municipal Drinking Water Licence issued to the City of Toronto on February 17, 2010.

The City of Toronto's Municipal Drinking Water Licence expires on February 16, 2015. In order to seek a license renewal, a new Council approved Financial Plan, for the period covering 2015-2020, needs to be submitted to the Ontario Ministry of Municipal Affairs and Housing by August 17, 2014.

## COMMENTS

The City of Toronto's Drinking Water System Financial Plan (2015-2020), presented in Attachment 1, has been prepared drawing on financial information and details contained within the approved

Toronto Water 2014 Operating Budget, 2014 Capital Budget and 2015-2023 Capital Plan; and 2014 Water and Wastewater Service Rate Report. These documents and previous staff reports from the General Manager, Toronto Water, to the Public Works Committee consisting of "Toronto Water's Infrastructure Renewal Backlog" (October 8, 2008) and "Lead Water Services Connection Replacement Program" (June 13, 2007) have been compiled into the "City of Toronto's Drinking Water System Financial Plan (2015 - 2020), Support Document (June 2014)", prepared under separate cover and provided separately to Committee members and the Clerk's Office. This Report and the Support Document will be submitted to the Ontario Ministry of Municipal Affairs and Housing, forming the City of Toronto's formal submission in fulfillment of the Financial Plan requirements of Ontario Regulation 453/07.

The approved budgets ensure that sufficient funding is available to meet the quality standards necessary for treating water and that the required infrastructure is being well maintained, renewed and expanded on a timely basis. This funding is provided through the approved 2015 and future planned residential water rate increases of 3% annually through to 2020, which is also reflected in this Financial Plan. Furthermore, it should be noted that City Council requested, for planning purposes, that the draft Capital Plan for 2015-2024 reflects further water rate increases of 8% in each of the years 2015, 2016 and 2017 to address unfunded budget pressures including the implementation of standby power through the water supply system. These unfunded pressures (and further rate increases of 8%) are not included in the Financial Plan.

In the opinion of City staff, 3% increases in water rates are reasonable and necessary for the continued safe and reliable operation of the water treatment and supply system. The proposed 8% water rate increases will allow Toronto Water to proceed with implementation and acceleration of currently unfunded service improvement projects. City Council has approved a plan that will allow Toronto Water to 'pay as it goes' for the net operating and capital expenditures during the next six years and no debt exists as of December 31, 2013 or is expected to be issued in accordance with the Financial Plan.

The information presented in the Financial Plan is prescribed by O. Reg. 453/07, Section 3(1), and the following summarizes the key assumptions made in extracting data and information from existing financial systems and documents:

- Toronto Water's Water and Wastewater Programs are integrated both with each other and with the other Programs in the City's Financial Information System (FIS) and as a result separate specific financial statements relating specifically to the Water Program's Financial Assets and Liabilities are not available directly from the FIS.

- Staff have, therefore, provided reasonable estimates based on realistic assumptions in the Financial Plan. For these purposes, 43% and 57% of such non-specific revenues and expenses have been allocated to Water and Wastewater program areas, respectively, in accordance with Section 849-23 of the Water and Sewage Services and Utility By-Law.

- Capital expenditures included in the Financial Plan are based on the approved 2014-2023 Capital Plan for Water Program since Council approves capital plans based on individual capital projects for each of Toronto Water programs.

- Since the aggregate operating expenditures are not exactly in 43% :57% ratio, the residual surpluses after providing funding for the Water Capital Program are to be used to fund the Wastewater Program residual operating and capital requirements.

- The Non-Financial Assets in the Financial Plan represent the historical amortized value of the Tangible Capital Assets, namely the assets required to treat and deliver water supply to the consumers. As part of the Public Sector Accounting Board Regulation 3150, staff from the Accounting Services Division have been working with staff in Toronto Water to determine the opening inventory of capital assets as of January 1, 2014, based on the historical amortized value of the entire drinking water system asset base. As has been reported previously to Council, much of Toronto Water's asset base is operating at or beyond its useful life and, as a result, the historical amortized value is quite low compared to the cost to completely replace the infrastructure (i.e. the replacement value for the drinking water system alone is an estimated $9 billion). The need to accelerate the replacement of aged infrastructure has resulted in a Capital Plan that invests an estimated $ 1.265 billion in water infrastructure renewal over the next 6 years.

A more detailed description of the derivation of information contained within the Plan is provided in Attachment 2.

## CONTACTS


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## SIGNATURE

Lou Di Gironimo
General Manager
Toronto Water

Roberto Rossini
Deputy City Manager and
Chief Financial Officer

## ATTACHMENTS

Attachment 1 - City of Toronto's Drinking Water System Financial Plan (2015-2020)
Attachment 2 - Notes Regarding Financial Plan (2015-2020)
Attachment 3 - Safe Drinking Water Act 2002-Ontario Regulation 453/07 Financial Plans

**ATTACHMENT 1**

# CITY OF TORONTO'S DRINKING WATER SYSTEM FINANCIAL PLAN (2015 – 2020)

**[In Accordance with Safe Drinking Water, 2002 – O.Reg. 453/07]**

## Table 1: Details of Financial Position

| Sub | Description ($000) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|
| A | Total Financial Assets (Current Assets) | 226,813 | 204,912 | 234,926 | 303,955 | 350,077 | 436,893 |
| B | Total Liabilities | 93,510 | 71,731 | 62,996 | 75,593 | 75,148 | 93,233 |
| C | Net Financial Assets/(Debt) | 133,303 | 133,182 | 171,930 | 228,362 | 274,929 | 343,660 |
| D | Non Financial Assets (Tangible Capital Assets) | 2,398,184 | 2,626,077 | 2,869,937 | 3,078,966 | 3,276,550 | 3,501,071 |
| E | Tangible Capital Assets Changes | 227,690 | 243,652 | 208,817 | 197,366 | 224,297 | 385,074 |

## Table 2: Details of Proposed or Projected Financial Operations

| Sub | Description ($000) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|
| A | Total Revenues | 456,476 | 472,639 | 486,695 | 500,754 | 515,188 | 532,994 |
| | Water Rates | 419,654 | 434,613 | 447,482 | 460,733 | 474,358 | 491,275 |
| | User Charges | 22,421 | 23,326 | 24,268 | 24,875 | 25,496 | 26,134 |
| | Other Revenues | 13,619 | 13,960 | 14,309 | 14,667 | 15,033 | 15,409 |
| | Interest Earnings on Reserve Funds | 782 | 740 | 637 | 480 | 300 | 176 |
| B | Total Expenses | 225,875 | 226,007 | 224,568 | 224,000 | 224,549 | 227,931 |
| | Amortization Expenses | 47,315 | 47,446 | 46,007 | 45,439 | 45,988 | 49,370 |
| | Interest Expenses | | | | | | |
| | Other Expenses | 178,561 | 178,561 | 178,561 | 178,561 | 178,561 | 178,561 |
| C | Annual Surplus or (Deficit) | 230,601 | 246,633 | 262,127 | 276,754 | 290,639 | 305,063 |
| D | Accumulated Surplus (or Deficit) | 496,651 | 743,284 | 1,005,411 | 1,282,165 | 1,572,804 | 1,877,866 |

# CITY OF TORONTO'S DRINKING WATER SYSTEM FINANCIAL PLAN (2015 – 2020)

**[In Accordance with Safe Drinking Water, 2002 – O.Reg. 453/07]**

## Table 3: Details of Proposed or Projected Gross Cash Receipts / (Gross Cash Payments)

| Sub | Description ($000) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|
| A | Operating Transactions | 318,073 | 271,672 | 298,268 | 333,449 | 334,754 | 372,161 |
| B | Capital Transactions | 333,103 | 319,966 | 302,375 | 295,523 | 321,340 | 305,560 |
| C | Investing Transactions | 32,030 | 25,766 | 32,989 | 29,762 | 31,280 | 19,858 |
| D | Financing Transactions | | | | | | |
| E | Changes in Cash and Cash Equivalents | 17,000 | (22,528) | 28,882 | 67,688 | 44,694 | 86,459 |
| F | Cash and Cash Equivalents: beginning of the year | 162,161 | 179,161 | 156,633 | 185,515 | 253,203 | 297,897 |
| | Cash and Cash Equivalents: end of the year | 179,161 | 156,633 | 185,515 | 253,203 | 297,897 | 384,356 |

## Table 4: Lead Water Service Replacement

| Sub | Description ($000) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|
| A | Water Service Replacement | 19,625 | 17,166 | 17,404 | 18,233 | 18,780 | 19,343 |

## Notes:

1) Joint Revenues and Expenses and Financial Assets and Liabilities have been allocated 43% to the Water Program where specific amounts are not available for the Water Program in accordance with Section 1184 of the Municipal Code – Water and Sewage Services and Utility Bill 849-13. 57% of these Joint Revenues and Expenses and Assets and Liabilities, are, therefore, deemed to be for the Wastewater Program.

2) Capital Transactions include planned capital asset acquisitions as per the 2014-2023 Approved Capital Plan for the Water Program

3) Operating Transactions under Table 3 above include changes in Working Capital.

**ATTACHMENT 2**

# Notes Regarding
# Financial Plan (2015 – 2020)

## Table 1: Details of Financial Position

| Item | Description | Comment/Assumption |
|---|---|---|
| A | Financial Assets | **Cash:** Year-end balance from **Table 3** (Line F)<br>**Accounts Receivable:**<br>*Operating* : estimated at December 31, 2013 and balances adjusted for inflation in the years following<br>*Capital:* estimated at 20% of Tangible Capital Recoveries |
| B | Liabilities | **Accounts Payable:**<br>*Operating:* estimated at December 31, 2013 and balances adjusted for inflation in the years following<br>*Capital:* estimated at 20% of Tangible Capital Additions |
| C | Net Financial Assets /(Debt) | The difference between financial assets (A) and the liabilities (B). |
| D | Non Financial Assets | The estimated amortized value of assets at at the begining of each year based on the 2014-2023 Approved Capital Plan for Water Services. Includes inventories assumed to provide for 60 days of materials and supplies and 1 year of equipment for water services. |
| E | Tangible Assets Changes | Net Additions to Tangible Assets based on the Approved 2014-2023 Capital Plan for Water Services. |

# Notes Regarding
# Financial Plan (2015 – 2020)

## Table 2: Details of Proposed or Projected Financial Operations

| Item | Description | Comment/Assumption |
|---|---|---|
| A | Total Revenues | ***Water Rate Revenues:*** estimated at 43% of the total eastimated rate revenues as Per Municipal Code - Sections 849-23, based on the 2014-2023 Approved Water and Waste Water Rate Model (Rate Model)<br>***User Charges:*** Revenues from water sales to Region of York, as per approved Rate Model<br>***Other Revenues:*** *estimated* at 43% mostly from various user fees including watermain connection fees, as per approved Rate Model.<br>***Interest Earnings:*** *interest earned on Toronto Water capital financing reserve funds.* |
| B | Total Expenses | **Amortization expenses:** amortization of tangible capital assets as estimated for different types of assets depending on their useful life.<br>**Other Expenses:** salaries, materials and supplies, equipment, services and rents, innter-divisional charges, payment in lieu of taxes, grants, shared expenses of water and wastewater services, estimated at 43% of the total operating expenses included in the approved Rate Model. |
| C | Annual Surplus/ Deficit | Total Revenues (A) less Total Expenses (B) |
| D | Accumulated Surplus / (Deficit) | Annual Surplus as added to the accumulated surplus at the beginning of the year. The beginning surplus for 2015 determined as the Rate Model ending 2014 surplus .<br>***Note:*** The Water and Wastewater Programs combined are self sustaining. Any annual surpluses after providing funding for the Water Program are used to fund the Wastewater Capital Program. |

## Table 3: Details of Proposed or Projected gross cash receipts / (gross cash payments)

| Item | Description | Comment/Assumption |
|---|---|---|
| A | Operating Transactions | Includes planned annual surplus, amortization expense and changes in Working Capital. |
| B | Capital Transactions | Includes planned capital asset acquistions as per the 2014-2023 Approved Capital Plan. |
| C | Investing Transactions | Includes planned capital contributions from Region of York and Development Charge Reserve Funding |
| D | Financial Transactions | Program is self sustaining, with no debt funding, and total net expenditures (operating and capital) are recovered through water rate and wastewater surcharges. |
| E | Changes in Cash and Cash Equivalents | Calculated based on the planned operating, capital and investing transactions (A+C-B) |
| F | Cash Equivalents at the beginning of the year<br>Cash Equivalents at the end of the year | Annual Cash and Cash Equivalents Balance as added to the accumulated surplus at the beginning of the year. The beginning cash and cash equivalents balance for 2015 determined as the Rate Model ending net 2014 Capital Financing Reserve Fund balance. |

# Notes Regarding
# Financial Plan (2015 – 2020)

**General Comments:**

Toronto Water is a Division of the City of Toronto and has two Programs: Water and Wastewater, respectively. Separate financial statements as per Generally Accepted Accounting Principles (GAAP) are not prepared for Toronto Water and the assets and liabilities of the Water and Wastewater Programs are consolidated with other City programs in the financial statements prepared per GAAP.

The Water and Wastewater Programs are self sustaining and the total net expenditures for operating and capital expenditures are recovered through the water and sewer service rates.

43% of the Toronto Water rate revenues are allocated to the Water Program as 57% is considered to be the sewer service rate per Section 849-13 of the Municipal Code - Water and Sewage Services and Utility Bill. However, the actual expenses of each Program may vary significantly from this ratio depending on the capital spending for each Program.

An audit of the City of Toronto financial statements has not yet been completed.

**ATTACHMENT 3**

Ontario

ServiceOntario
e-Laws

**Safe Drinking Water Act, 2002**

## ONTARIO REGULATION 453/07

## FINANCIAL PLANS

**Consolidation Period:** From April 1, 2008 to the e-Laws currency date.

Last amendment: O. Reg. 69/08.

***This is the English version of a bilingual regulation.***

**Requirement to prepare financial plans**

**1.** (1) A person who makes an application under clause 32 (1) (b) of the Act for a municipal drinking water licence shall, before making the application, prepare and approve financial plans for the system that satisfy the requirements prescribed under section 2. O. Reg. 453/07, s. 1 (1).

(2) A person who makes an application under subsection 32 (4) of the Act for the renewal of a municipal drinking water licence shall, before making the application, prepare and approve financial plans for the system that satisfy the requirements prescribed under section 3. O. Reg. 453/07, s. 1 (2).

(3) As a condition in a municipal drinking water licence that is issued in response to an application made under section 33 of the Act for a municipal drinking water licence, the Director shall include a requirement that the owner of the drinking water system, by the later of July 1, 2010 and the date that is six months after the date the first licence for the system is issued, prepare and approve financial plans for the system that satisfy the requirements prescribed under section 3. O. Reg. 453/07, s. 1 (3).

(4) The Director shall include, as a condition in a municipal drinking water licence, the requirement set out in subsection (3) in any amendments to a license made after the application, if the condition is not satisfied at the time when the amendment is made. O. Reg. 453/07, s. 1 (4).

**Financial plan requirements; new systems**

**2.** For the purposes of clause (b) of the definition of "financial plans" in subsection 30 (1) of the Act, the following requirements are prescribed for financial plans that are required by subsection 1 (1) to satisfy the requirements of this section:

1. The financial plans must be approved by a resolution that indicates that the drinking water system is financially viable and that is passed by,
    i. the council of the municipality, if the owner of the drinking water system is a municipality, or
    ii. the governing body of the owner, if the owner of the drinking water system has a governing body and is not a municipality.
2. The financial plans,
    i. must include a statement that the financial impacts of the drinking water system have been considered, and
    ii. must apply for a period of at least six years.
3. The first year to which the financial plan must apply is the year in which the drinking water system is expected to first serve the public.
4. For each year in which the financial plans apply, the financial plans must include details of the proposed or projected financial operations of the drinking water system itemized by,
    i. total revenues, further itemized by water rates, user charges and other revenues,
    ii. total expenses, further itemized by amortization expenses, interest expenses and other expenses,
    iii. annual surplus or deficit, and
    iv. accumulated surplus or deficit.
5. The owner of the drinking water system must,
    i. make the financial plans available, on request, to members of the public who are served by the drinking water system without charge,
    ii. make the financial plans available to members of the public without charge through publication on the Internet, if the owner maintains a website on the Internet, and
    iii. provide notice advising the public of the availability of the financial plans under subparagraphs i and ii, if applicable, in a manner that, in the opinion of the owner, will bring the notice to the attention of members of the public who are served by the drinking water system.

6. The owner of the drinking water system must give a copy of the financial plans to the Ministry of Municipal Affairs and Housing. O. Reg. 453/07, s. 2.

**Financial plan requirements; licence renewal**

**3.** (1) For the purposes of clause (b) of the definition of "financial plans" in subsection 30 (1) of the Act, the following requirements are prescribed for financial plans that are required by subsection 1 (2) or a condition that is included in a municipal drinking water licence under subsection 1 (3) to satisfy the requirements of this section:

1. The financial plans must be approved by a resolution that is passed by,
   i. the council of the municipality, if the owner of the drinking water system is a municipality, or
   ii. the governing body of the owner, if the owner of the drinking water system has a governing body and is not a municipality.
2. The financial plans must apply to a period of at least six years.
3. The first year to which the financial plans must apply must be the year determined in accordance with the following rules:
   i. If the financial plans are required by subsection 1 (2), the first year to which the financial plans must apply must be the year in which the drinking water system's existing municipal drinking water licence would otherwise expire.
   ii. If the financial plans are required by a condition that was included in a municipal drinking water licence under subsection 1 (3), the first year to which the financial plans must apply must be the later of 2010 and the year in which the first licence for the system was issued.
4. Subject to subsection (2), for each year to which the financial plans apply, the financial plans must include the following:
   i. Details of the proposed or projected financial position of the drinking water system itemized by,
      A. total financial assets,
      B. total liabilities,
      C. net debt,
      D. non-financial assets that are tangible capital assets, tangible capital assets under construction, inventories of supplies and prepaid expenses, and
      E. changes in tangible capital assets that are additions, donations, write downs and disposals.
   ii. Details of the proposed or projected financial operations of the drinking water system itemized by,

A. total revenues, further itemized by water rates, user charges and other revenues,

B. total expenses, further itemized by amortization expenses, interest expenses and other expenses,

C. annual surplus or deficit, and

D. accumulated surplus or deficit.

iii. Details of the drinking water system's proposed or projected gross cash receipts and gross cash payments itemized by,

A. operating transactions that are cash received from revenues, cash paid for operating expenses and finance charges,

B. capital transactions that are proceeds on the sale of tangible capital assets and cash used to acquire capital assets,

C. investing transactions that are acquisitions and disposal of investments,

D. financing transactions that are proceeds from the issuance of debt and debt repayment,

E. changes in cash and cash equivalents during the year, and

F. cash and cash equivalents at the beginning and end of the year.

iv. Details of the extent to which the information described in subparagraphs i, ii and iii relates directly to the replacement of lead service pipes as defined in section 15.1- 3 of Schedule 15.1 to Ontario Regulation 170/03 (Drinking Water Systems), made under the Act.

5. The owner of the drinking water system must,

i. make the financial plans available, on request, to members of the public who are served by the drinking water system without charge,

ii. make the financial plans available to members of the public without charge through publication on the Internet, if the owner maintains a website on the Internet, and

iii. provide notice advising the public of the availability of the financial plans under subparagraphs i and ii, if applicable, in a manner that, in the opinion of the owner, will bring the notice to the attention of members of the public who are served by the drinking water system.

6. The owner of the drinking water system must give a copy of the financial plans to the Ministry of Municipal Affairs and Housing. O. Reg. 453/07, s. 3 (1).

(2) Each of the following sub-subparagraphs applies only if the information referred to in the sub-subparagraph is known to the owner at the time the financial plans are prepared:

1. Sub-subparagraphs 4 i A, B and C of subsection (1).

2. Sub-subparagraphs 4 iii A, C, E and F of subsection (1). O. Reg. 453/07, s. 3 (2).

**Alternative requirements for two or more drinking water systems**

**4.** If section 3 applies to the financial plans of two or more drinking water systems that are solely owned by the same owner, the requirements prescribed by the section may, as an alternative, be satisfied by financial plans that comply with the section but treat those systems as if they were one drinking water system. O. Reg. 453/07, s. 4.

**Amendment of financial plans**

**5.** Sections 2 and 3 do not prevent financial plans from being amended. O. Reg. 453/07, s. 5.

**Additional information**

**6.** The requirements of this Regulation do not prevent a person from providing additional information in financial plans prepared for the purpose of meeting the requirements of the Act. O. Reg. 453/07, s. 6.

7. Omitted (provides for coming into force of provisions of this Regulation). O. Reg. 453/07, s. 7.

# SECTION 2

# TORONTO WATER

# Introduction

# TORONTO WATER INTRODUCTION

The distribution of drinking water and the collection of and treatment of waste water are the two most important services municipalities provide to the public, affecting the health and well being of residents everyday.

Toronto Water is responsible for supplying Toronto's drinking water to some 3.4 million residents and businesses and to a portion of the Region of York.

This division of the City comprises of over 1,700 staff operating in six sections strategically structured to ensure that a reliable and sustainable service is provided to all of the residents of the City.
These six sections are:

- Water Treatment and Supply
- Wastewater Treatment
- District Operations
- Water Infrastructure Management
- Operational Support
- Business Operations Management

## ASSETS

Toronto Water assets include all linear and vertical infrastructures in the drinking water and wastewater (sewage and storm) operations estimated at about $26 Billion.

The following assets are in the drinking water sector and are valued at approximately $9.1 Billion:

- 4 Water treatment Plants
- 18 Water pumping Stations equipped with 102 pumps
- 4 elevated Storage tanks
- 10 underground storage reservoirs
- 548 kilometres of trunk water mains (transmissions)
- 5,466 kilometres of distribution water mains
- 470,202 water service connections
- 40,817 water hydrants
- 60,933 control valves

The average age of the City's water main pipes is 61 years with 16% between 80 to 100 years and 13% of mains more than 100 years old.

## PRODUCTION AND OPERATIONS

The four water treatment plants in the City treat some 454 billion litres of water annually, all obtained from Lake Ontario and this is supplied to the 3.4 million residents and businesses in Toronto and to a portion of the Region of York.

## FUNDING SOURCES

Funding for Toronto Water capital and operational programs are exclusively (100%) from user fees charged for water consumption and sewage treatment. Toronto Water does not obtain or rely on any tax base financial support from the City.

Charges are also obtained from York Region for bulk supply of treated water to the region and York Region co-funds infrastructure expansion required to service growth in York Region. In addition, Development Charges are used to fund the construction of new infrastructure to service growth in the City of Toronto.

# SECTION 3

# TORONTO WATER

# 2014 Budget

# SECTION 3a

# TORONTO WATER

# 2014 Operating Budget

# Toronto Water

## 2014 OPERATING BUDGET OVERVIEW

### What We Do

Toronto Water, the largest supplier of municipal drinking water and wastewater treatment in Canada and fifth largest in North America, delivers water treatment and distribution, and wastewater collection and treatment services on demand to 3.4 million residents and businesses in Toronto, and portions of York Region and Peel Region, 24 hours a day, 7 days a week, 365 days a year.

### 2014 Budget Highlights

The total cost to deliver this service to Toronto residents in 2014 is $403.163 million as shown below.

| (In $000s) | Approved 2013 Budget | Recommended 2014 Budget | Change $ | Change % |
|---|---|---|---|---|
| Gross Expenditures | 394,632.9 | 403,163.0 | 8,530.1 | 2.2% |
| Revenue Excluding Sale of Water | 39,707.2 | 42,232.0 | 2,524.8 | 6.4% |
| Net Expenditure | 354,925.7 | 360,931.0 | 6,005.3 | 1.7% |
| Sale of Water Revenue | 874,293.0 | 958,102.8 | 83,809.8 | 9.6% |
| Sale of Water Revenue - Region of York | 26,797.0 | 21,550.7 | (5,246.2) | -19.6% |
| Total Sale of Water Revenue | 901,090.0 | 979,653.6 | 78,563.6 | 8.7% |
| Capital Contribution | 546,164.3 | 618,722.6 | 72,558.3 | 13.3% |

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## Fast Facts

- Treatment, transmission, storage, and distribution of over 1 billion litres of potable water daily is delivered to all industrial, commercial, institutional, and household water users in the City of Toronto, amounting to 470,200 connections.
- Over 1.5 billion litres of wastewater is collected and treated per day, from residents and businesses in Toronto and a portion of Peel Region.
- City wide stormwater management in order to protect private property and the environment.

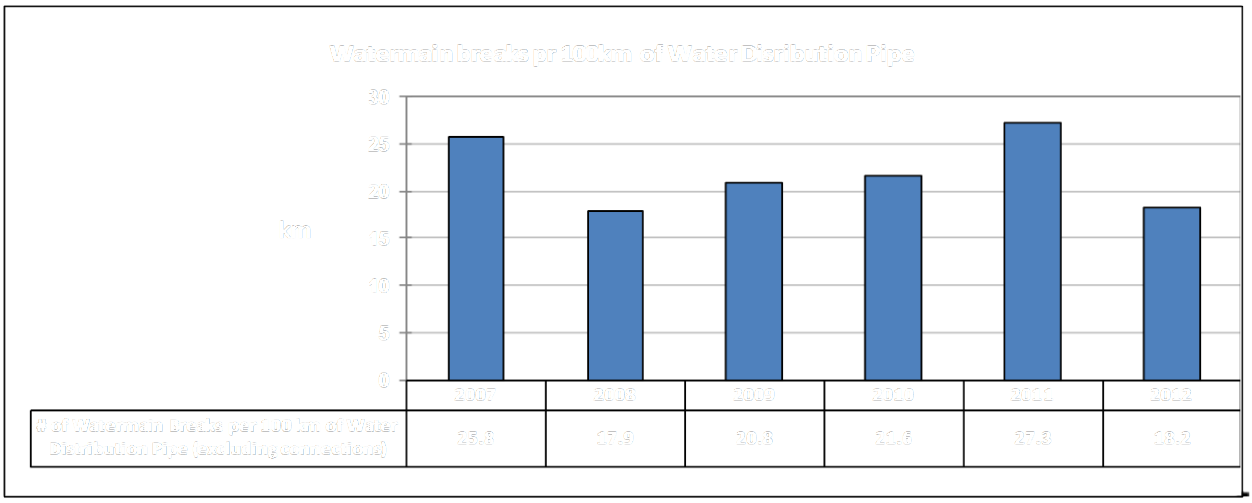
## Trends

- Base water consumption (October to April) has declined by 2.1% annually on average since 2007. 2013 projected consumption of 334 million cubic meters is significantly lower than the 374 million cubic meters consumed in 2005.
- 2014 represents the last year of the planned 9% rate increase (over 9 years), introduced in 2006 to address capital infrastructure needs.

## Our Service Deliverables for 2014

The 2014 Recommended Operating Budget of $403.163 million gross will ensure delivery of water and wastewater services for 3.4 million residents and business in Toronto by providing:

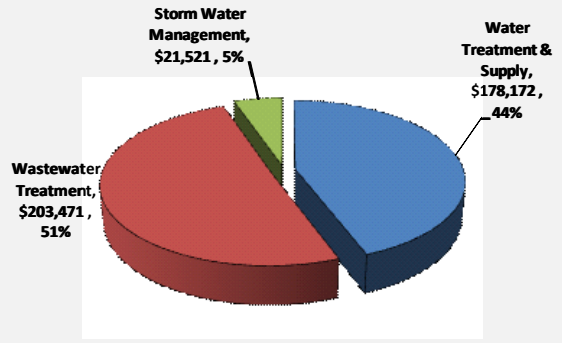
- Treatment and supply of 454 billion litres of water (includes York Region);
- Collection and treatment of 425 billion litres of wastewater;
- Replacement of 5,000 sub-standard water services (approximately 3,900 of which are lead);
- Response to and clearing of 10,000 blocked sewer connections;
- Cleaning of over 122,000 catch basins; and
- Repair of approximately 1,500 broken watermains.



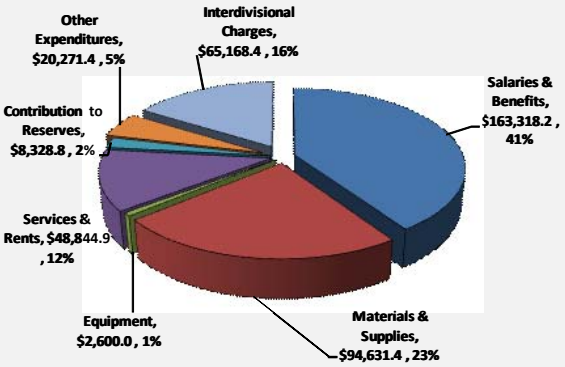
## 2014 Budget Expenditures & Funding

### Where the money goes:

**2014 Operating Budget by Service**
**$403.163 Million**

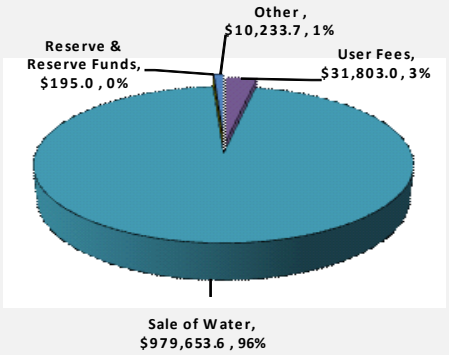



**2014 Operating Budget by Expenditure Category**




### Where the money comes from:

**2014 Operating Budget Funding Source**
**$1.022 Billion**




## Our Key Challenges

- Declining water consumption resulting in lower revenues from water rates needed to support capital requirements.
  - ✓ Executive Committee considered a report entitled, "***Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services***" to aid in developing a financing strategy to support Toronto Water.
- Continuously increasing costs from Legislative requirements and compliance with Provincial and Federal regulations; and operating impacts of completed capital projects.
  - ✓ The 2014 Recommended Budget includes funding to meet all regulations as well as to support and maintain completed capital projects.

## Our Priority Actions

- Continuous service delivery improvement.
- On-going optimization at treatment plants and pumping stations to minimize energy costs, while meeting required legislative standards.
- Focusing on planning and training to ensure availability of future workforce for the Division.

# II: RECOMMENDATIONS

## Recommendations

The City Manager and Chief Financial Officer recommend that:

1. City Council approve the 2014 Recommended Operating Budget for Toronto Water of $403.163 million gross and $618.722 million in capital-from-current contribution, comprised of the following services:

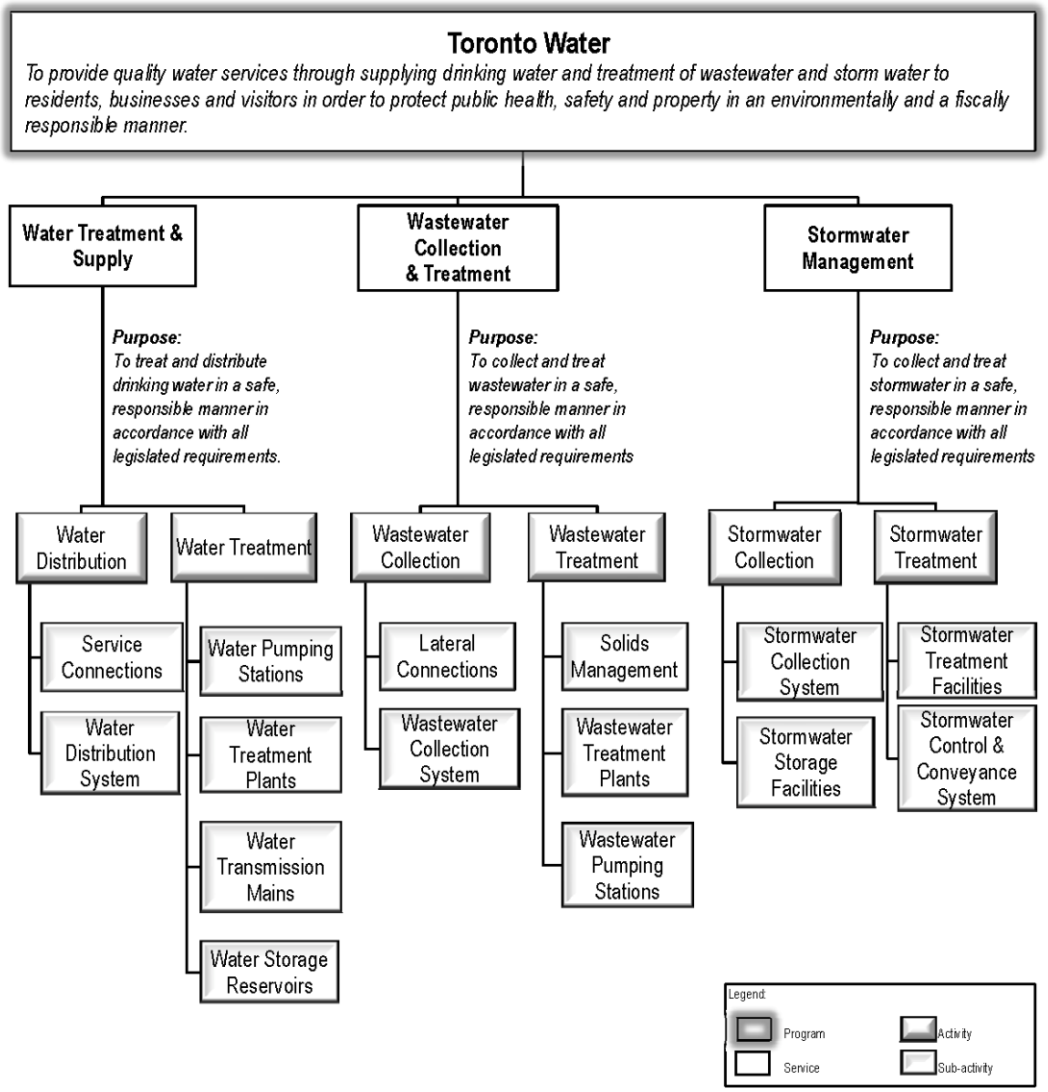
| Service: | Gross ($000s) | Capital Contribution ($000s) |
|---|---|---|
| Water Treatment & Supply | 177,870.3 | 310,910.1 |
| Wastewater Collection & Treatment | 203,395.3 | 326,746.3 |
| Stormwater Management | 21,470.6 | (18,934.0) |
| Total Program Budget | 403,163.0 | 618,722.3 |

2. Toronto Water services and 2014 proposed service levels, as outlined on page 7, and associated staff complement of 1,732.8 be approved.
3. City Council direct the General Manager, Toronto Water to report back on the results of the Water Loss and Leak Detection Program with an implementation plan, including estimated costs and benefits, in time for consideration with the 2015 Budget Process for Toronto Water.
4. This report be considered concurrently with the 2014 Water and Wastewater Rates and Service Fees Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.

# III: 2014 SERVICE OVERVIEW AND PLAN

## Program Map

Toronto Water provides the following services:




Service Customer

**Water Treatment & Supply**
- Water account holders
- Water consumers

**Wastewater Collection & Treatment**
- Wastewater account holders
- Wastewater producers
- Public and private landowners

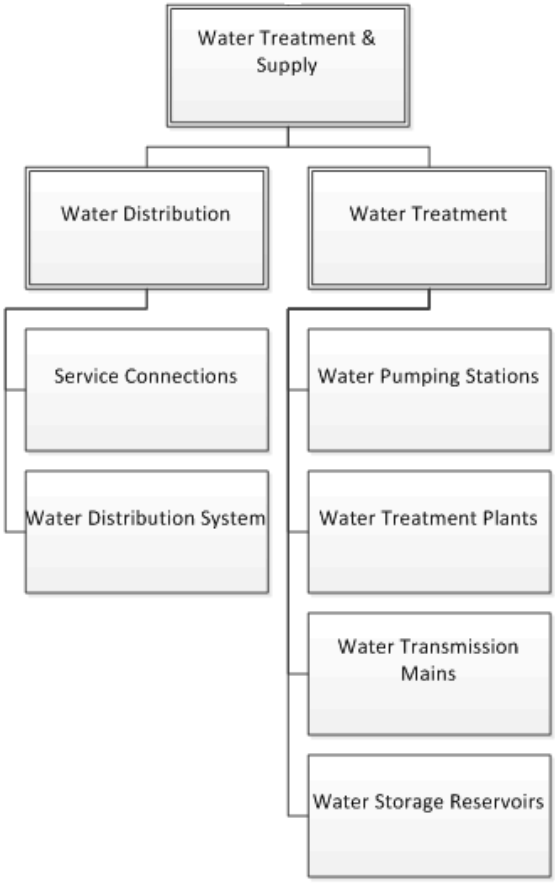
**Stormwater Management**
- Public and private landowners

## 2014 Service Deliverables:

The 2014 Recommended Operating Budget of $403.163 million gross will ensure delivery of Water and Wastewater services for 3.4 million residents and business in Toronto by providing:

- Treatment and supply of 454 billion litres of water (including York Region);
- Collection and treatment of 425 billion litres of wastewater;
- Replacement of 5,000 sub-standard water services (approximately 3,900 of which are lead);
- Response to and clearing of 10,000 blocked sewer connections;
- Cleaning of over 122,000 catch basins; and
- Repair of approximately 1,500 broken watermains.

## Service Profile: Water Treatment and Supply




## What we do:

- Treat and distribute drinking water in a safe, responsible manner in accordance with all legislated requirements.

## 2014 Recommended Service Levels:

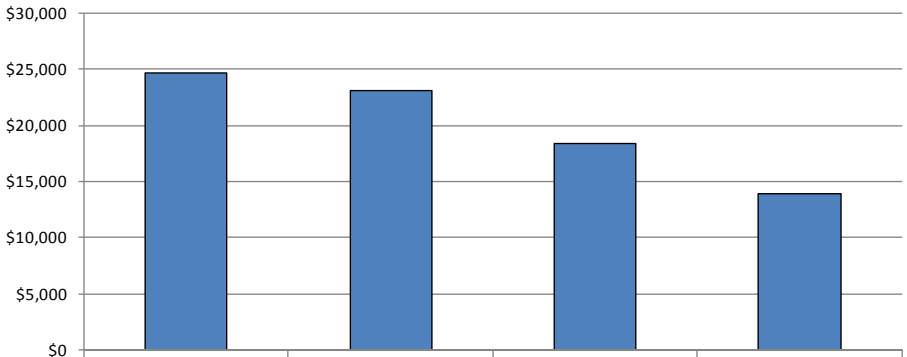
| Activity | Sub-Activity | Servie Levels | | | |
|---|---|---|---|---|---|
| | | 2011 | 2012 | 2013 | 2014 Recommended |
| Water Distribution | Service Connections | Meeting the 40 to 100 psi requirement | | | Meeting the 40 to 100 psi requirement |
| | Water Distribution System | 20.8 mainbreaks per 100 km of pipe | | | 20.8 mainbreaks per 100 km of pipe |
| Water Treatment | Water Pumping Stations | 317 kWh/ML of water pumped | | | **340 kWh/ML of water pumped** |
| | Water Treatment Plants | In compliance with all applicable legislation | | | In compliance with all applicable legislation |
| | Water Transmission Mains | Meeting velocity and headloss guidelines | | | Meeting velocity and headloss **design** guidelines |
| | Water Storage Reservoirs | Consistently maintain 24 hrs of storage capacity | | | **Meeting requirements for emergency storage and fire flows** (consistently maintain 24 hours of storage capacity) |

The 2014 Recommended Service Levels are consistent with the 2013 Approved Service Levels. There was a technical adjustment to Water Transmission Mains and Water Storage Reservoirs standard in order to provide better definition with no impact of actual service level.

There was an additional adjustment to the Water Pumping Stations standard to 340kWh/ML. This figure of electricity consumption per mega-litre accurately reflects operating metrics that has been adjusted from the previous standard of 317kWh/ML. This adjustment results from a decline in water consumption that is decreasing at a disproportionate rate when compared with the advances in energy efficiency, that otherwise would have reduced electricity consumption requirements per mega-litre.

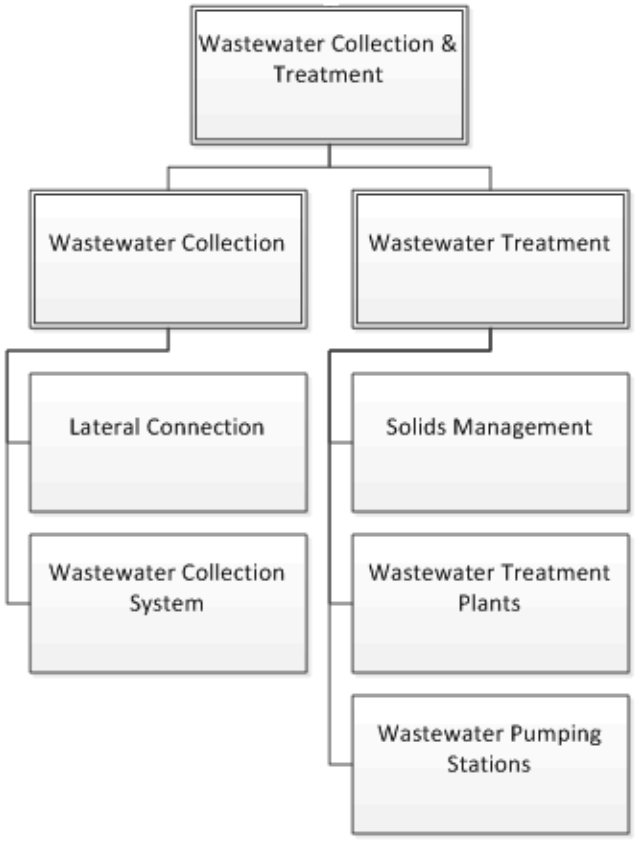
## Service Performance Measures:

*Operating Cost for the Distribution/Transmission of Drinking Water per km of Water Distribution Pipe*




| | Actual 2009 | Actual 2010 | Actual 2011 | Actual 2012 |
|---|---|---|---|---|
| Operating Cost for the Distribution/Transmission of Drinking Water per km of Water Distribution Pipe | $24,722.11 | $23,160.32 | $18,410.19 | $13,905.03 |

## Service Profile: Wastewater Collection and Treatment



## What we do:

- Collect and treat wastewater in a safe, responsible manner in accordance with all legislated requirements.

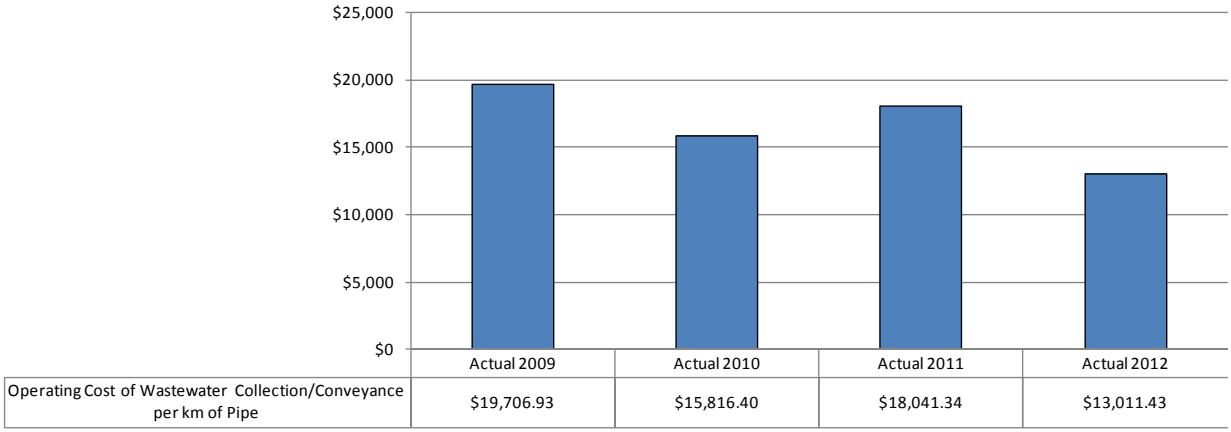
## 2014 Recommended Service Levels:

| Activity | Sub-Activity | Servie Levels | | | |
|---|---|---|---|---|---|
| | | 2011 | 2012 | 2013 | 2014 Recommended |
| Wastewater Collection | Lateral Connection | Basement flooding being reduced through capital investment | | | Basement flooding being reduced through capital investment |
| | Wastewater Collection System | 5.27 mainline backups per 100 km of pipe | | | 5.27 mainline backups per 100 km of pipe |
| Wastewater Treatment | Solids Management | Consistently meeting compliance limits in Nutrient Management Act | | | Consistently meeting compliance limits in Nutrient Management Act |
| | Wastewater Treatment Plants | In compliance with all applicable legislation | | | In compliance with all applicable legislation |
| | Wastewater Pumping Stations | Meeting legislative compliance | | | Meeting legislative compliance |

The 2014 Recommended Service Levels are consistent with the 2013 Approved Service Levels.

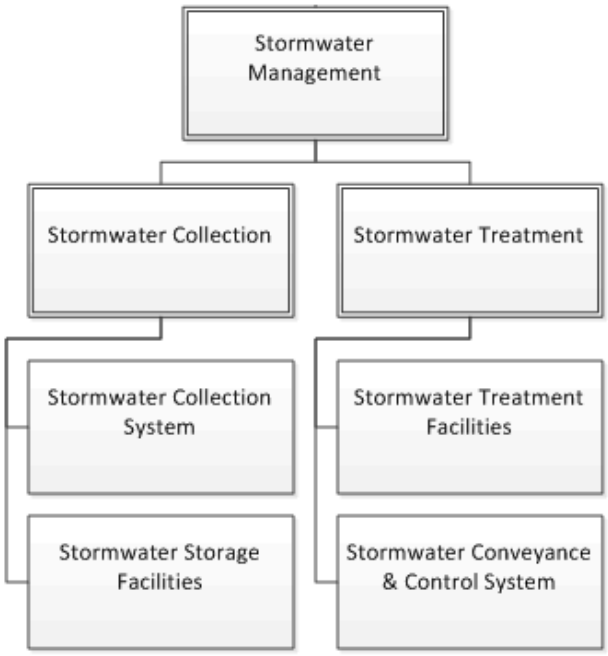
## Service Performance Measures:

*Operating Cost of Wasterwater Collection/Conveyance per km of Pipe*




| | Actual 2009 | Actual 2010 | Actual 2011 | Actual 2012 |
|---|---|---|---|---|
| Operating Cost of Wastewater Collection/Conveyance per km of Pipe | $19,706.93 | $15,816.40 | $18,041.34 | $13,011.43 |

## Service Profile: Storm Water Management




## What we do:

- Collect and treat stormwater in a safe, responsible manner in accordance with all legislated requirements.

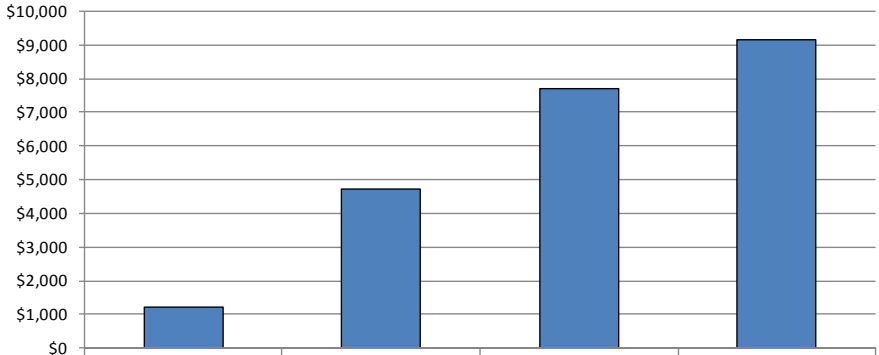
## 2014 Recommended Service Levels:

| Activity | Sub-Activity | Servie Levels | | | |
|---|---|---|---|---|---|
| | | 2011 | 2012 | 2013 | 2014 Recommended |
| Stormwater Collection | Stormwater Collection System | Cost of storm pipes maintained is $1232/km | | | Cost of storm pipes maintained is $1232/km |
| | Stormwater Storage Facilities | Meeting all Certificate of Approval requirements | | | Meeting all Certificate of Approval requirements |
| Stormwater Treatment | Stormwater Treatment Facilities | Meeting all Certificate of Approval requirements | | | Meeting all Certificate of Approval requirements |
| | Stormwater Conveyance & Control System | Meeting all Certificate of Approval requirements | | | Meeting all Certificate of Approval requirements |

The 2014 Recommended Service Levels are consistent with the 2013 Approved Service Levels.

## Service Performance Measures:

*Operating Cost for Urban Stormwater Management per km of Drainage System*




| | Actual 2009 | Actual 2010 | Actual 2011 | Actual 2012 |
|---|---|---|---|---|
| Operating Cost for Urban Stormwater Management per km of Drainage System | $1,232.23 | $4,708.70 | $7,718.16 | $9,153.89 |

# IV: 2014 Recommended Total Operating Budget

**2014 Recommended Operating Budget**

(In $000s)

| | 2013 | | 2014 Recommended Operating Budget | | | | | Incremental Change 2015 and 2016 Plan | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (In $000s) | Approved Budget | Projected Actual | 2014 Rec'd Base | 2014 Rec'd New/ Enhanced | 2014 Rec'd Budget | 2014 Rec.dd vs. 2013 Budget Approved Changes | | 2015 | | 2016 | |
| **By Service** | $ | $ | $ | $ | $ | $ | % | $ | % | $ | % |
| **Water Treatment & Supply** | | | | | | | | | | | |
| Gross Expenditures | 175,339.5 | 165,458.5 | 177,870.3 | 301.3 | 178,171.6 | 2,832.1 | 1.6% | 4,330.9 | 2.4% | 3,132.9 | 1.7% |
| Revenue | 454,873.5 | 455,080.0 | 489,042.0 | 39.7 | 489,081.7 | 34,208.2 | 7.5% | 117.2 | 0.0% | 24.8 | 0.0% |
| Capital Contribution | 279,534.0 | 289,621.5 | 311,171.7 | (261.6) | 310,910.1 | 31,376.1 | 11.2% | (4,213.7) | -1.4% | (3,108.1) | -1.0% |
| **Wastewater Collection & Treatment** | | | | | | | | | | | |
| Gross Expenditures | 198,170.7 | 192,593.5 | 203,395.3 | 75.3 | 203,470.6 | 5,299.9 | 2.7% | 4,174.6 | 2.1% | 4,632.4 | 2.2% |
| Revenue | 483,613.7 | 491,997.4 | 530,150.3 | 66.6 | 530,216.9 | 46,603.1 | 9.6% | (242.1) | 0.0% | 41.7 | 0.0% |
| Capital Contribution | 285,443.1 | 299,403.9 | 326,754.9 | (8.7) | 326,746.3 | 41,303.2 | 14.5% | (4,416.7) | -1.4% | (4,590.8) | -1.0% |
| **Stormwater Management** | | | | | | | | | | | |
| Gross Expenditures | 21,122.7 | 18,594.6 | 21,470.6 | 50.2 | 21,520.8 | 398.1 | 1.9% | 319.4 | 1.5% | 523.0 | 2.4% |
| Revenue | 2,309.9 | 2,309.9 | 2,543.0 | 43.7 | 2,586.7 | 276.8 | 12.0% | 128.0 | 4.9% | 27.4 | 1.0% |
| Capital Contribution | (18,812.7) | (16,284.7) | (18,927.6) | (6.5) | (18,934.0) | (121.3) | 0.6% | (191.5) | 1.0% | (495.6) | 2.6% |
| **Total** | | | | | | | | | | | |
| **Gross Expenditures** | **394,632.9** | **376,646.6** | **402,736.2** | **426.8** | **403,163.0** | **8,530.1** | 2.2% | **8,824.9** | **2.2%** | **8,288.3** | 2.0% |
| **Revenue** | **940,797.2** | **949,387.3** | **1,021,735.3** | **150.0** | **1,021,885.3** | **81,088.2** | 8.6% | **3.0** | **0.0%** | **93.9** | 0.0% |
| Capital Contribution | **546,164.3** | **572,740.7** | **618,999.1** | **(276.8)** | **618,722.3** | **72,558.0** | **13.3%** | **(8,821.9)** | **-1.4%** | **(8,194.4)** | **-1.3%** |
| Approved Positions | **1,726.8** | **1,484.8** | **1,726.8** | **6.0** | **1,732.8** | **6.0** | **0.3%** | **5.0** | **0.3%** | **(23.0)** | **-1.3%** |

The 2014 Recommended Operating Budget for Toronto Water of $403.163 million gross and $1.022 billion in revenue, resulting in $618.722 million in capital-from-current contribution, reflects an increase of 2.2% over the 2013 Approved Budget gross expenditures of $394.633 million and an increase of 13.3% over the 2013 Approved Capital Contribution of $546.164 million and is comprised of the following services:

- ***Water Treatment and Supply* service** of $178.172 million gross reflects a year over year increase of $2.832 million or 1.6% over the 2013 Approved Budget gross expenditures. $489.082 million in revenue is generated from this service, resulting in $310.910 million in capital-from-current contribution, an increase of $31.376 million or 11.2% over the 2013 Approved Capital Contribution.
  - Base pressures are mostly attributable to inflationary increases in salaries and benefits ($1.285 million); inflationary increases for materials and supplies and contracted services ($2.711 million); and increases in operating costs resulting from completed capital projects ($2.338 million).
  - These pressures were partially offset by savings from a line by line review ($0.530 million) and optimisation of water treatment processes ($1.294 million).
  - The 2014 Recommended Operating Budget for the Water Treatment and Supply service includes funding for a new Water Loss and Leak Detection Program ($0.301 million) and revenues from a new reporting fee associated with the Backflow Prevention Program ($0.040 million).

- Future year incremental costs are attributable increases in salary and benefits of $1.739 million in 2015 and $0.161 million in 2016, corrosion control costs and costs of materials and supplies for water treatment plants of $2.462 million in 2015 and $4.122 million in 2016, contributions to fleet reserve of $0.250 million in 2015, and legislative requirement costs under Bill 8 of $0.252 million in 2015.

- ***Wastewater Collection and Treatment service*** with $230.471 million in gross expenditures reflects an increase over the 2013 Approved Budget of $5.230 million or 2.7%. This service generates $530.217 million in revenue, resulting in $326.746 million in capital-from-current contribution, an increase of $41.303 million 14.5% over the 2013 Approved Capital Contribution.
  - Key cost drivers for this service include Inflationary pressures related to salaries and benefits ($1.370 million), Inflationary non-salary cost increases for materials and supplies and contracted services ($2.988 million), Higher operating costs as a result of completed capital projects ($2.281million) and impacts from recent Federal wastewater systems effluent regulations ($1.300 million).
  - The above pressures were partially offset by line by line review savings ($0.841 million) and optimisation of wastewater treatment processes ($2.557 million).
  - This service includes funding allocated for the recommended new Water Loss and Leak Detection Program ($0.075 million) and revenues from the recommended new reporting fee associated with the Backflow Prevention Program ($0.066 million).
  - Future year incremental costs are attributable to increases in salary and benefits of $1.829 million in 2015 and $0.182 million in 2016, corrosion control costs and costs of materials and supplies for wastewater treatment plants of $2.715 million in 2015 and $4.450 million in 2016, contributions to fleet reserve of $0.225 million in 2015, and legislative requirement related costs under Bill 8 of $0.128 million in 2015.

- ***Stormwater Management service*** with a 2014 Recommended Budget of $21.521 million gross reflects an increase of $0.398 million or 1.9% over the 2013 Approved Budget. Stormwater Management service does not generate any capital-from current contribution as its revenues are not sufficient to cover gross expenditures for this service. $18.934 million in Water Treatment & Supply and Wastewater Collection & Treatment revenues that would otherwise be directed to capital-from-current contributions are required to support the Stormwater Management service operating requirements.
  - Base pressures for this service are mostly attributable to inflationary increases in salaries and benefits of $0.280 million and various non-salary costs of $0.075 million.
  - The 2014 Recommended Operating Budget for the Stormwater Management service includes funding allocated for the recommended new Water Loss and Leak Detection Program ($0.050 million) and revenues from the recommended new reporting fee associated with the Backflow Prevention Program ($0.044 million).

- Future year incremental costs are attributable to increases in salary and benefits of $0.353 million in 2015 and $0.053 million in 2016, costs increases for materials and supplies of $0.070 million in 2015 and $0.364 million in 2016 and operating impact of completed capital projects of $0.100 million in 2015.

**2014 Recommended Total Staff Complement**

| Changes | 2014 Budget | 2015 Plan | 2016 Plan |
|---|---|---|---|
| **Opening Complement** | 1,724.8 | 1,732.8 | 1,737.8 |
| In-year Adjustments | 2.0 | | |
| Adjusted Staff Complement | **1,726.8** | **1,732.8** | **1,737.8** |
| **Recommended Change in Staff Complement** | | | |
| - Temporary Complement - capital project delivery | 6.0 | | |
| - Operating impacts of completed capital projects | 5.0 | 5.0 | (23.0) |
| - Service Change Adjustments | (11.0) | | |
| - New / Enhanced | 6.0 | | |
| **Total** | **1,732.8** | **1,737.8** | **1,714.8** |
| **% Change over prior year** | | **0.3%** | **-1.3%** |

- In 2013, 2 permanent positions were added to the staff complement as a result of organizational restructuring implemented by Engineering and Construction Services. These 2 positions were reclassified from capital to operating positions, due to the fact that they support capital planning functions, rather than direct delivery.
- The 2014 recommended staff changes include:
  - An additional 5 permanent positions for ongoing maintenance of upgraded facilities and processes resulting from previously approved completed capital projects.
  - Another 15 permanent positions are needed to address increased operational requirements due to linear infrastructure growth (2 permanent positions deferred from 2013), workforce development program (3 permanent positions), process control systems (3 permanent positions), environmental, health and safety and customer service improvement/sustainment, and backflow prevention programs (5 permanent, 3 temporary positions).
  - The above addition of positions was fully offset by deleting 26 vacant positions arising from operational efficiencies, resulting in no increase in the 2013 Approved Staff Complement.
- To ensure efficiency and reliability of new assets coming on at Humber Creek Wastewater Treatment Plant line in 2015 Toronto Water will require 4 new permanent positions. Another permanent position is needed for the Basement Flooding Relief in both 2015 and 2016.
- There will be a reduction of 24 positions in 2016 due to the implementation of the Automated Meter Reading system, which commenced in 2010.

- The 2014 Recommended Budget includes funding for 6 new permanent positions to establish a Water Loss Reduction and Leak Detection Team.

**2014 Recommended Base Budget**
**(In $000s)**

| (In $000s) | 2013 Approved Budget | 2014 Rec'd Base | Change 2014 Recommended Base vs. | | Incremental Change 2015 Plan | | 2016 Plan | |
|---|---|---|---|---|---|---|---|---|
| **By Service** | $ | $ | $ | % | $ | % | $ | % |
| **Water Treatment & Supply** | | | | | | | | |
| Gross Expenditures | 175,339.5 | 177,870.3 | 2,530.8 | 1.4% | 4,435.9 | 2.5% | 3,252.9 | 1.8% |
| Revenue | 454,873.5 | 489,042.0 | 34,168.5 | 7.5% | 2.4 | 0.0% | - | 0.0% |
| Capital Contribution | 279,534.0 | 311,171.7 | 31,637.8 | 11.3% | (4,433.5) | -0.1% | (3,252.9) | 0.0% |
| **Wastewater Collection & Treatment** | | | | | | | | |
| Gross Expenditures | 198,170.7 | 203,395.3 | 5,224.6 | 2.6% | 4,174.6 | 2.1% | 4,632.4 | 2.2% |
| Revenue | 483,613.7 | 530,150.3 | 46,536.5 | 9.6% | (434.7) | 1.5% | - | 2.4% |
| Capital Contribution | 285,443.1 | 326,754.9 | 41,311.9 | 14.5% | (4,609.3) | -1.4% | (4,632.4) | -1.1% |
| **Stormwater Management** | | | | | | | | |
| Gross Expenditures | 21,122.7 | 21,470.6 | 348.0 | 1.6% | 319.4 | 1.5% | 523.0 | 2.4% |
| Revenue | 2,309.9 | 2,543.0 | 233.1 | 10.1% | 1.5 | 0.1% | - | 0.0% |
| Capital Contribution | (18,812.7) | (18,927.6) | (114.8) | 0.6% | (317.9) | 0.3% | (523.0) | -1.3% |
| **Total** | | | | | | | | |
| **Gross Expenditures** | **394,632.9** | **402,736.2** | **8,103.4** | **2.1%** | **8,929.9** | **2.2%** | **8,408.3** | **2.0%** |
| **Revenue** | **940,797.2** | **1,021,735.3** | **80,938.2** | **8.6%** | **(430.7)** | **0.0%** | **-** | **0.0%** |
| **Capital Contribution** | **546,164.3** | **618,999.1** | **72,834.8** | **13.3%** | **(9,360.6)** | **-1.5%** | **(8,408.3)** | **-1.4%** |
| **Approved Positions** | **1,726.8** | **1,726.8** | **-** | **0.0%** | **5.0** | **0.3%** | **(23.0)** | **-1.3%** |

The 2014 Recommended Base Budget of $402.736 million gross and $1.022 billion in revenue, resulting in $618.999 million in capital-from-current contribution reflects an increase of 2.1% over the 2013 Approved Budget gross expenditures of $394.633 million and an increase of 13.3% over the 2013 Approved Capital Contribution of $546.164 million.

- The 2014 Recommended Base Budget provides $23.400 million in funding for base budget increases which have been offset by $12.425 million in recommended service budget reductions bringing the Program's gross base budget to $8.103 million or 2.1% over the budget target of a 0% gross increase as detailed below.
- The recommended budget reductions of $12.425 million are comprised of base budget savings of $7.256 million, and savings from efficiencies of $5.169 as detailed below. When the recommended base revenue changes, which partially offset the above gross expenditure increases are included in the analysis, Toronto Water's budget pressure is further reduced to $5.729 million or 1.7% over the 2013 Approved Budget gross expenditures of $354.926 million.

The 2014 Recommended Capital Contribution of $618.999 million will increase by a total of $72.835 million or 13.3% over the 2013 Approved Capital Contribution level of $546.164 million, as a result of $80.938 million or 8.6% increase in Toronto Water revenues.

Key cost drivers resulting in base budget pressures of $23.4 million are detailed in the table below:

**Key Cost Drivers**
**(In $000s)**

| (In $000s) | 2014 Rec'd Base Budget |
|---|---|
| **Gross Expenditure Changes** | |
| **Prior Year Impacts** | |
| Impact of 2013 Organizational Changes | 262.3 |
| Annualizations | |
| Stormwater Facility (Pond) Cleaning (Removal of debris/silt/Vegetation) | 360.0 |
| Growth Related Volume Increase - Maintenance for Additional Linear Infrastructure | 169.5 |
| Contribution to Fleet Reserve - Funding of 10 Year Replacement Plan | 700.0 |
| **Sub-total Prior Year Impacts** | **1,491.8** |
| **Operating Impact of Capital - 2014-2023 Capital Plan** | **4,620.4** |
| **Capital Project Delivery** | **278.0** |
| **Council Approved Prior Year Capital Impacts** | **1,400.0** |
| **Economic Factors** | |
| Economic Factors -Payroll Expenditures | |
| Step & Progession Pay Increase | 801.6 |
| COLA & Employee Benefits | 2,134.0 |
| Economic Factors - Non-Payroll Expenditures | 5,774.4 |
| **Sub-total Economic Factors** | **8,710.0** |
| **Other Base Changes** | |
| Contributions and Transfers - Payment in Lieu Taxes, TRCA | 392.5 |
| Workforce Development, Process Control Systems | 310.2 |
| Health & Safety Plant Audits, Backflow Preventions Compliance Requirements | 250.1 |
| Surface Restorations - Marking Requirements for Transporation | 300.0 |
| IDC/IDC - Additional Legal / Facility Requirements and Other Requirements | 400.6 |
| **Sub-total Other Base Changes** | **1,653.5** |
| **Total Changes** | **18,153.6** |
| **Revenue Changes** | |
| Region of York - Reduction in Water Sale Volume | 5,246.2 |
| **Total Changes** | **5,246.2** |
| **Net Expenditures** | **23,399.8** |

- In order to offset the above pressures, base expenditure savings of $12.612 million are recommended, as noted below:

## 2014 Recommended Service Change Summary by Program
## (In $000s)

| Description ($000's) | 2014 Recommended Service Changes | | | | Net Incremental Impact | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 2015 | | 2016 | |
| | Position Change | Gross Exp. | Capital Contribution | % Change over 2014 Budget | Capital Contribution | Pos. | Capital Contribution | Pos. |
| | # | $ | $ | % | $ | # | $ | # |
| **Base Changes:** | | | | | | | | |
| Operating Impact of Capital | (7.0) | (397.3) | 186.9 | 0.05% | 359.0 | | 930.2 | (23.0) |
| **Base Expenditure Changes** | | | | | | | | |
| Realignment of Salaries and Benefits | | (2,177.8) | 2,177.8 | 0.6% | | | | |
| Facilities Energy & Utilities Savings | | (752.0) | 752.0 | 0.2% | 749.0 | | | |
| Line by Line Reductions | | (1,357.1) | 1,357.1 | 0.3% | 0.0 | | | |
| Water & Wastewater Treatment - Volume Adjustments | | (440.5) | 440.5 | 0.1% | 100.0 | | | |
| Repurposing of Staff Positions & Realignment of Budget | | (187.4) | 187.4 | 0.0% | | | | |
| Customer Service Improvements: Industrial Waste Agreements | 3.0 | 196.7 | 1,394.8 | 0.4% | | | | |
| 311 - Call Volume Adjustments | | 0.0 | 0.0 | 0.0% | 300.0 | | | |
| **Base Expenditure Change** | (4.0) | (5,115.4) | 6,496.5 | 1.6% | 1,507.9 | 0.0 | 930.2 | (23.0) |
| **Base Revenue Changes** | | | | | | | | |
| Inflationary Factor - User Fees | | | 296.5 | 0.1% | | | | |
| WIM - Transfer of Fees from ECS | | | 278.1 | 0.1% | | | | |
| Other Revenue & Recoveries | | | 184.7 | 0.0% | 6.1 | | | |
| **Base Revenue Change** | 0.0 | 0.0 | 759.2 | 0.2% | 6.1 | 0.0 | 0.0 | 0.0 |
| **Sub-Total** | (4.0) | (5,115.4) | 7,255.7 | 1.8% | 1,514.1 | 0.0 | 930.2 | (23.0) |
| **Service Efficiencies** | | | | | | | | |
| District Operations - Restorations | (13.0) | (356.7) | 356.7 | 0.1% | | | | |
| District Operations - Locates | (13.0) | (263.9) | 263.9 | 0.1% | | | | |
| Optimization of Water & Wastewater Treatment Processes | | (3,845.1) | 3,845.1 | 1.0% | 0.0 | | | |
| Preventative Maintenance & Reduce Parts & Machinery | | (703.5) | 703.5 | 0.2% | | | | |
| | | | | | 0.0 | | | |
| **Sub-Total** | (26.0) | (5,169.1) | 5,169.1 | 1.3% | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Changes** | (30.0) | (10,284.6) | 12,424.8 | 3.1% | 1,514.1 | 0.0 | 930.2 | (23.0) |

The 2014 recommended service changes consist of base expenditure and revenue changes of $7.256 million and service efficiency savings of $5.169 million. In total, the Program has achieved reductions of $12.425 million net bringing the 2014 Recommended Base Budget to $8.103 million or 2.1% over the 2013 Approved Budget of $394.636 million.

Approval of these 2014 service changes on the 2015 and 2016 Operating Budget will result on incremental base budget savings of $1.514 million and $0.930 million respectively.

The 2014 recommended service changes and 2015 and 2016 incremental impacts are discussed below:

**Base Expenditure Changes: (Savings of $5.115 million gross, $6.496 million net)**

*Operating Impact of Capital Projects*

- In 2013, the water meter reading function was transferred from Revenue Services to Toronto Water and integrated with the business operations in the Water Meter Program (WMP) as part of the long term sustainment for the capital investment for automated meters. In 2014, which represents the first year of transitioning to a permanent Water Meter sustainment team, through conversion of the exiting 2 temporary positions to permanent (Manager, Water Meter Program and Support Assistant B), and an addition of 2 permanent positions (System Integrator and Application and Tech Support Assistant), Toronto Water will establish the sustainment team. The addition of required positions will be offset by the deletion of 9 Inspector Water Revenue temporary positions.
- Toronto Water has also recognized the loss of a capital recovery of $0.210 million, resulting from a change to 2 positions previously funded from capital budget were converted to operating positions, as they provide general planning support rather than delivery of specific capital projects.
- A combined impact of these base changes is a deletion of 7 positions and net savings of $0.187 million.

*Expenditure Reductions Based on Actual Experience*

- $4.288 million in net expenditure reductions is recommended, based on a detailed review and realignment of Toronto Water's operating expenses and revenues based on actual experience, resulting in savings in salaries and benefits ($2.178), energy and utilities ($0.752 million) and various materials and supplies ($1.357 million).

*Water and Waste Water Treatment Volume Adjustments*

- Each year Toronto Water completes a detailed analysis of the estimated water production and wastewater to be treated. This analysis is also used to calculate the estimated chemical and energy requirements needed at the various water treatment facilities for the upcoming year.
- In 2014, Toronto Water is estimating lower costs of chemicals associated with a lower water production ($1.220 million). However, Toronto Water has resumed the operation of the cake and pellet haulage management from the biosolids process resulting in additional costs ($0.780 million) which are partially offset by lower disposal cost at Green Lane Landfill.
- The combined impact of these changes will result in variable cost savings associated with water production and wastewater treatment in 2014, estimated at $0.440 million.

*Customer Service Improvements: Repurposing of Staff Positions and Realignment of Budget*

- Toronto Water identified opportunities for repurposing of positions that will achieve better support of the key guiding principles included in its 2010-2020 Strategic Plan by:
  - Improving the performance results of the equipment reliability program.
  - Establishing succession planning for managers and key positions (reclassification of existing supervisors).
  - Providing a greater degree of operational flexibility by creation of Electronic Instrumentation Control Technician and an Industrial Mechanic Millwright positions.
  - Creating a policy position to support customer service delivery pertaining to Water Infrastructure Management Environmental Assessment studies, stakeholder consultations and other related activities.
  - Repurposing of students to better align with the requirements of Toronto Water.
- The repurposing of positions will result in savings of $0.187 million.

*Customer Service Improvements: Industrial Waste Agreements*

- The volume of industrial waste agreements has been continuously increasing since 2012 due to increase in numbers of inspections. For example, in 2012 alone, Toronto Water added a net of 31 new industrial waste agreements for facilities that exceeded the wastewater sanitary concentration.
- For 2014, Toronto Water is estimating revenue of $11.331 million. This represents an estimated increase of $1.591 million or 16%. Addition of 3 positions at cost of $0.197 million is needed in support of billing and inspection requirements, resulting in a net revenue impact of $1.395 million.

**Base Revenue Changes: (Revenue of $0.759 million)**

*Increase to Existing User Fees*

- In accordance with Council's approved User Fee Policy inflationary factors that reflect service specific cost increases are applied in order to recover the full costs. As a result, the 2014 Recommended Operating Budget includes additional revenues of $0.296 million.
- The overall factor for Toronto Water 2014 Budget was estimated at 2.21% for water and waste water service fees including labour cost increase, energy, utilities, materials and contracted services. The 2.21% increase was applied to most fees except for those that are part of individual contracts which increase reflects the actual contract costs, and 6 fees charged by Revenue Services for which an overall factor of 2% applicable to Revenue Services Division was used, as described below:
- The following increases will be effective January 1, 2014:

- 16 water service fees (Appendix C – Schedule 2, Water Service, Reference Numbers: 1, 2, 5, 11, 12, 13, 15, 15.1, 17, 21, 25, 32 and 40) are increased based on 2.21% inflationary factor and actual contract increases.
- 8 wastewater service fees (Appendix C – Schedule 3, Wastewater Service, Reference Numbers: 4, 5, 6, 15, 16, 17, 18 and 19) are increased based on 2.21% inflationary factor and actual contract increases.
- 6 Revenue Services fees (Appendix C – Schedule 2, Water Service, Reference Numbers 33 to 39) are increased based on 2% inflationary factor.
- Proposed changes are summarized in Appendix 6 of these Analyst Notes and the 2014 Water and Wastewater Rate Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water. This report also provides a comparison with the existing user fee rates.

*Revenue from Transferred Fees*

- Following a restructuring of Engineering Construction Services (ECS), the staff group conducting reviews under the Transfer of Review Program was reassigned to Toronto Water. As a result, jurisdictional responsibility for the following fees (Appendix C – Schedule 1, Technical Services) has been transferred from Engineering and Construction Services (former Technical Services) to Toronto Water (Appendix D, Schedule 3):
  - Ref. No. 19 : Record Search for sewer use by-law compliance violation - $50.0 per property
  - Ref. No. 21: To review new sewer engineering designs - $1,100.0
  - Ref. No. 22: Review of applications for establishing or alteration of City of Toronto Drinking Water system - $2,300.0
  - Ref. No. 23: To Review application for sewer and watermain design - $800
  - Ref No 8 in MOE Fee Schedule: The review of storm and sanitary pump station, forcemains, and sanitary sewage detention chambers or oversized sewers - $1,800.0 plus $200.0 administration fee = $2,000.0
  - Ref No 2 in MOE Fee Schedule: The review of facilities for attenuating stormwater runoff peak flow rate or volume or for managing stormwater runoff quality such as underground chambers, oversized sewers, and oil, grit and silt separators - $2,000.0 plus $200 administration fee = $2,200.0
- It is anticipated that additional revenues of $0.278 million will be generated from the above fees, transferred to Toronto Water.
- Proposed changes are summarized in Appendix 6 of these Analyst Notes and in the 2014 Water and Wastewater Rates and Service Fees Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.

*Increase in Other Revenues*

- Other revenues of $0.185 million include inflationary adjustments to the Deep Lake Water Cooling revenue that Toronto Water receives from Enwave based on the current agreement ($0.150 million), revenues from sale of scrap metal ($0.030 million) and development application review fees ($0.005 million).

**Service Efficiencies: ($5.169 million gross, savings of $5.169 million net)**

*District Operations: Restoration Services*

- Pilot projects, conducted from August 2012 to May 2013, showed that contracting out of temporary asphalt and permanent soft surface (sod) restoration results in a lower overall cost per location, better quality of work and response time, as well as specialised landscaping restoration.
- By contracting out surface repairs after excavations Toronto Water will realize savings of $0.357 million. Contracting out will also improve delivery aspects of this service. As a result 6 permanent vacant positions and 7 temporary vacant positions will be deleted in 2014.

*District Operations: Locates*

- In 2012 and 2013, Toronto Water also conducted a pilot project on contracting out the function of physically locating, marking and mapping underground water infrastructure prior to excavating. It was determined that costs per locate were lower and that specialized contractors were able to respond to calls within 5 days instead of a three week period tipical response time for Toronto Water's crews.
- By contracting out this function, Toronto Water will achieve savings of $0.264 million. Additional benefits in terms of improved quality of assessments and minimal delays in residential restoration/renovation projects are anticipated. This will also ensure that the City is able to meet requirements under Bill 8 (Ontario One Call). As a result of this change 13 permanent vacant positions will be deleted.

*Optimization of Water and Waste Water Processes*

- Savings of $3.845 million are recommended based on achieved energy and utility efficiencies, arising from the optimization of production processes, resulting in lower chemical dosages relating to effluent conditions. This change recognizes the portion of recurring savings that were identified as part of the 2012 Year End Operating Variance Report.

*Preventative Maintenance and Reduction in Parts and Machinery*

- Toronto Water achieved savings of $0.704 million associated with lower parts and machinery requirements in treatment facilities due to improved preventative maintenance programs and other continuous improvement initiatives. These savings were also identified as part of the 2012 Year End Operating Variance Report.

**2014 Recommended New / Enhanced Service Priority Actions**
**(In $000s)**

| Description | 2014 Recommended | | | Net Incremental Impact | | | |
|---|---|---|---|---|---|---|---|
| | | | | 2015 Plan | | 2016 Plan | |
| | Gross Exp. | Capital Contribution | New Positions | Capital Contribution | # Positions | Capital Contribution | # Positions |
| **Enhanced Services:** | | | | | | | |
| Water Loss & Leak Detection Program | 426.8 | 426.8 | 6.0 | (105.0) | | (120.0) | |
| **Sub-Total** | **426.8** | **426.8** | **6.0** | **(105.0)** | **0.0** | **(120.0)** | **0.0** |
| **New Service Priorities:** | | | | | | | |
| **(b) New Fees** | | | | | | | |
| Backflow Prevention Program | | (150.0) | | (433.8) | | (93.9) | |
| **Sub-Total** | **0.0** | **(150.0)** | **0.0** | **(433.8)** | **0.0** | **(93.9)** | **0.0** |
| **Total** | **426.8** | **276.8** | **6.0** | **(538.8)** | **0.0** | **(213.9)** | **0.0** |

## Recommended Enhanced Service Priorities

*Water Loss & Leak Detection Program ($0.427 million gross)*

In 2011, Council authorized Toronto Water to implement a City-Wide Water Loss Reduction and Leak Detection Program. This Program was based on a detailed Water Loss Assessment and Leak Detection Study which undertook to quantify water losses and unbilled authorized consumption, i.e. non revenue water, including water distribution system leakage, loss of water through watermain breaks, use of water for fire fighting purposes, operations and maintenance of the distribution system including hydrant flushing, and unmetered consumption such as irrigation systems at some City parks and facilities. The study found that water losses were in the order of 8% to 10 % of production totals, which at the time was estimated at an annual value of $30 million in treatment and transmission costs.

It was estimated that implementation of a comprehensive water loss reduction and leak detection program could reduce a leakage by $15.8 million in treatment and transmission costs. For successful implementation of the Program, a dedicated team consisting of 6 permanent members was recommended. The implementation of this program was to be initiated in 2011 and that analysis be updated on an annual basis, to help gauge progress made in reducing leakage. The information would be reported through Toronto Water's annual capital budget submissions. Due to budgetary pressures in 2012/2013, this Program was never initiated.

The 2014 Recommended Budget includes funding $0.427 million to establish a Water Loss Reduction and Leak Detection Team. This team will consist of a Project Lead, an Engineering Technician Technologist, 2 Water Maintenance Workers 1 and 2 Water Maintenance Workers 2. It will conduct further research by various pressure zones to determine opportunities for savings and confirm viability of any initial saving estimates. Estimated savings of $0.150 million in 2015 and $0.120 million in 2016 are anticipated to partially offset the cost of the team.

## Recommended New Service Priorities

*New Fees: Backflow Prevention Program Reporting Fee (Revenue of $0.150 million)*

When Council passed the Water Supply Bylaw and its Backflow Prevention Program, no fees were introduced, though several other municipalities had fees for this type of Program. In keeping with the User Fee Policy and in order to offset escalating costs for administering Backflow Prevention Program on private water systems a new reporting fee of $50 is recommended. This fee will be charged per test report for each premise backflow preventer.

The new fee will generate additional revenues of $0.150 million in 2014, $0.434 million in 2015 and $0.094 million in 2016.

Further details are provided in the 2014 Water and Wastewater Rates and Service Fees Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.

**2015 and 2016 Plan**

**(In $000s)**

| Description ($000s) | 2015 - Incremental Increase | | | | | 2016 - Incremental Increase | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Gross Expense | Revenue | Capital Contribution | % Change | # Positions | Gross Expense | Revenue | Capital Contribution | % Change | # Positions |
| **Known Impacts:** | | | | | | | | | | |
| Progression Pay | 328.1 | | (328.1) | -0.1% | | 328.4 | | (328.4) | -0.1% | |
| Step Increases | 101.0 | | (101.0) | 0.0% | | 64.0 | | (64.0) | 0.0% | |
| COLA and Fringe Benefits | 3,488.9 | | (3,488.9) | -0.9% | | | | | | |
| Contribution to Fleet Reserve | 500.0 | | (500.0) | -0.1% | | | | | | |
| Operating Impact of Capital Projects | (359.0) | | 359.0 | 0.1% | | | | | | |
| **Sub-Total - Known Pressures** | 4,059.0 | - | (4,059.0) | -1.0% | - | 392.5 | - | (392.5) | -0.1% | - |
| **Anticipated Impacts:** | | | | | | | | | | |
| Health and Safety Audits, Backflow Prevention Compliance, Workforce Development | 374.6 | | (374.6) | -0.1% | | | | | | |
| Economic Factor - Non- Labour | 5,245.2 | | (5,245.2) | -1.3% | | 8,946.1 | | (8,946.1) | -2.2% | |
| Legislative Requirements Under Bill 8 | 400.0 | | (400.0) | -0.1% | | | | | | |
| Peel Waste Water Treatment Agreement - Volume Reduction | | (436.8) | (436.8) | -0.1% | | | | | | |
| Anticipated Savings in Utility and Other Costs | (1,149.0) | | 1,149.0 | 0.3% | | | | | | |
| Anticipated Additional Revenues from Water and Loss Detection Program and Other User Fees | (105.0) | 439.9 | 544.9 | 0.1% | | (120.0) | 93.9 | 213.9 | 0.1% | |
| Operating Impact of Capital Projects | | | | 0.0% | 5.0 | (930.2) | | 930.2 | 0.2% | 23.0 |
| **Sub-Total - Anticipated Additional Pressures** | 4,765.9 | 3.1 | (4,762.8) | -1.2% | 5.0 | 7,895.9 | 93.9 | (7,802.0) | -1.9% | 23.0 |
| **Total Incremental Impact** | 8,824.9 | 3.0 | (8,821.8) | -2.2% | 5.0 | 8,288.3 | 93.9 | (8,194.4) | -2.0% | 23.0 |

*Note COLA is excluded in 2016*

Approval of the 2014 Recommended Operating Budget for Toronto Water will result in a 2015 incremental cost of $8.530 million and a 2015 and 2016 incremental increase of $8.828 million and $8.194 million respectively, to maintain the 2014 level of service.

Future year incremental costs are primarily attributable to the following:

**Known Impacts**

- Step and progression pay increases of $0.429 million in 2015 and $0.393 million in 2016.
- Salary increases for unionized and non-unionized employees $3.489 in 2015.
- Increase in fleet reserve contribution of $0.500 million based on an updated vechicle replacement schedule in 2015.
- 2015 increased maintenance costs, arising from the completion of capital projects of $0.230 million will be partially offset by savings from the Humber Treatment Plant Co-Generation facility, resulting in a net operating cost reduction of $0.359 million.
- An overal incremental impact of known pressures is estimated at $4.059 million in 2015 and $0.393 million in 2016.

**Anticipated Impacts**

- Additional costs related to health and safety audits, backflow prevention compliance and workforce development program of $0.375 million in 2015.
- 2015additional costs related to legislative requirements under Bill 8 of $0.400 million.
- Further decline in revenues from the treatment of wastewater originating from Region of Peel of $0.437 million, due to lower volumes anticipated in 2015.
- Non-labour related inflationary pressures for materials and supplies, contracted services and other costs of $5.245 million in 2015 and $8.946 million in 2016.
- Anticipated cost increases will be partially offset by anticipated savings in utility and other costs of $1.149 million, and net savings of $0.545 million from new/enhanced priorities implemented in 2014 resulting in a net increase of $4.763 million, or 1.2% over the 2014 Recommended Budget.
- Anticipated cost increases will be partially offset by savings of $0.930 million in 2016 from the Automated Meter Reader Program currently under implementation, based on operational efficiencies and improved revenues due to more accurate readings and net savings of $0.545 million in 2015 and $0.214 million in 2016 from new/enhanced priorities recommended for 2014, these savings will be confirmed based on further analysis in 2015.
- An overal incremental impact of anticipated pressures in estimated at $4.763 million in 2015 and $7.802 million in 2016..

# V: ISSUES FOR DISCUSSION

## 2014 Issues

*2014 Operating Budget Funding*

- Toronto Water is fully self-sustaining and does not rely on the municipal property tax levy for funding. Operating and capital investments are funded from revenues generated by water and sewage rates established each year by Council and included in the City's By-law (Municipal Code, Chapter 849: Water and Sewage Services). Other sources of funding include revenue from the sale of water to York Region; industrial waste surcharges; private water agreements; service charges; and, sundry revenue.
- Funding from water and wastewater surcharges provides financing for both the 2014 Operating Budget and the capital program set out in the 2014 Capital Budget and 2015-2023 Capital Plan, while maintaining relatively healthy Water and Wastewater Capital Reserve balances. It is important however, to note that this funding does not address any other unbudgeted pressures as outlined in the *"Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services"* report from the Deputy City Manager and Chief Financial Officer and the General Manager, Toronto Water that was considered by the Executive Committee on October 30, 2013.
- Incremental rate revenues from the 2014 Recommended Water and Wastewater Rate increase of 9% and other sources of funding will generate an additional $81.088 million (net of projected consumption decline in 2014). The increase in the 2014 Operating Budget gross expenditures of $8.530 million will decrease the 2014 Capital Contribution by the same amount, resulting in a net incremental revenue of $72.558 million that will be used to fund Toronto Water's Capital Budget in 2014.
- The following Chart shows the recommended rate increase impact on average residential, as well as commercial and industrial customers, based on their average consumption.

**Chart 1 – 2014 Water Rate Impact**

| Type of Property | Average Consumption | 2013 Cost | Projected 2014 Cost | 2014 Rate Increase Impact | |
|---|---|---|---|---|---|
| **Residential** | 300 | $814 | $887 | $73 | 9.0% |
| **Commercial** | 100,000 | $271,370 | $295,790 | $24,420 | 9.0% |
| **Industrial** | 100,000 | $194,848 | $212,374 | $17,526 | 9.0% |
| **Industrial** | 1,000,000 | $1,904,525 | $2,075,824 | $171,299 | 9.0% |

- Additional details are available in the accompanying 2014 Water and Wastewater Rates and Service Fees report.

*User Fees*

In addition to the water and waste water surcharges, Toronto Water receives revenues from various user fees. The approval of new user fees will be obtained concurrently with the 2014-2023 Capital Plan and 2014 Operating Budget, based on the recommendations presented in accompanying 2014 Water and Wastewater Rates and Service Fees report. The following section provides a brief description of estimated revenues. A breakdown of user fee changes is presented in Appendix6.

Increase to Existing User Fees

- In accordance with Council's approved User Fee Policy inflationary factors that reflect service specific cost increases are applied in order to recover the full costs. As a result, the 2014 Recommended Operating Budget includes additional revenues of $0.296 million. Increases to the existing user fees are effective January 1, 2014. Inflationary increases to existing user fees are automatically applied.

Revenue from Transferred Fees

- As a result of internal restructuring in the City of Toronto, the staff group conducting the review under the Transfer of Review Program was reassigned from Engineering and Construction Services (former Technical Services) to Toronto Water, effective February 6, 2013. Additional revenues of $0.278 million are anticipated from transferred fees and included in the 2014 Recommended Operating Budget.

Revenue from New Fees

- Effective September 1, 2014, a new reporting fee supporting the cost of administering backflow prevention devices is recommended with an estimated revenue of $0.150 million included in the 2014 Recommended Operating Budget.
  - Effective July 1, 2014 two new fees associated with water consumers who do not allow access to their properties for the purpose of installing a new automated water meter and related meter reading equipment under the water meter program are recommended with more detail in the staff report "Update on the Water Meter Program" presented to Public Works and Infrastructure Committee meeting on October 21st.
  - Although implementation of the proposed changes to the City's fees and charges as described in this report could potentially result in an estimated increase in revenue of up to $10 million, it is expected that these fees will serve as an effective incentive to allow access for the purposes of having a new meter installed as required under Chapter 851, rather than generate additional revenues. In addition, any increase in revenue is intended to recover the City's costs in providing special meter reading services.
  - As a result, potential revenues from these additional fees are not included in the 2014 Recommended Operating Budget. Toronto Water will report on the actual revenues and corresponding costs as part of the corporate variance reporting in 2014.

Effective January 1, 2014, a new fee is recommended to recover the cost of lost or damaged automated reading transmitter. At this point, no data is available that would allow to estimate associated costs and revenues. Any financial impacts will be reported through corporate variance reporting in 2014.

## Future Year Issues

*Recent Regulations*

- The water and waste water industry continues to experience increased legislative and regulatory reform impacting both, operating and capital budgets. Key provincial regulations include:
  - Bill 195 (Safe Drinking Water Act) which expanded on existing policy and practice for water testing for the protection of human health and the prevention of drinking water health hazards. Regulations passed under the Act require municipalities to publish annual reports describing the operation of the water system and the results of testing required to ensure that residents are provided with safe drinking water.
  - Bill 43 (Clean Water Act) which provides protection for municipal drinking water supplies through developing collaborative; locally driven; science-based protection plans by municipalities; conservation authorities; and, the public.
- The most recent federal regulations were enacted on July 18, 2012 under the Fisheries Act are the first federal regulations that specifically address municipal wastewater treatment plant effluents. The new federal Regulations impose operational, administrative, and financial burdens on the City due to additional regulatory requirements beyond those already imposed by the Ontario Ministry of the Environment (MOE).
- With respect to wastewater treatment plants, the new federal Regulations impose:
  - Strict limits for final effluent quality, which were not previously regulated by the MOE, related to un-ionized ammonia, acute lethality testing, and total residual chlorine.
  - Methods for testing effluent quality.
  - Flow monitoring.
  - Record keeping.
  - Reporting.
- The regulations also contain requirements for annual reporting of combined sewer overflow (CSO) discharges within the City.
- Toronto Water has developed an action plan to address the new federal Fisheries Act Wastewater Systems Effluent Regulations by January 2015. The following describes resulting financial impact:
  - Increase in annual operating costs estimated at $1.3 million included in the 2014 Recommended Operating Budget:

- Additional hydro costs to eliminate the effects of ammonia toxicity in the Ashbridges Bay Wastewater Treatment Plant effluent ($1.0 million per year).
- Increased cost associated with the requisite wastewater treatment plant monitoring and reporting requirements to Toronto Water's annual Operating Budget ($0.2 million per year).
- Increased costs associated with the requisite combined sewer overflow reporting requirements ($0.1 million per year).

➢ Capital Costs already included in Toronto Water's 2013-2022 Recommended Capital Budget and Plan:

- Design and construction of a new effluent disinfection system at the Ashbridges Bay Wastewater Treatment Plant estimated at $205.4 million.
- Development of a hydrologic/hydraulic computer simulation model to provide for the annual reporting of combined sewer overflow discharges within the City's combined sewer system estimated at $0.400 million.

- Increased requirements and frequent changes in legislation represent a significant challenge for Toronto Water in terms of planning and allocating appropriate staff resources to maintain legislative compliance.

*Other Operating Cost Pressures*

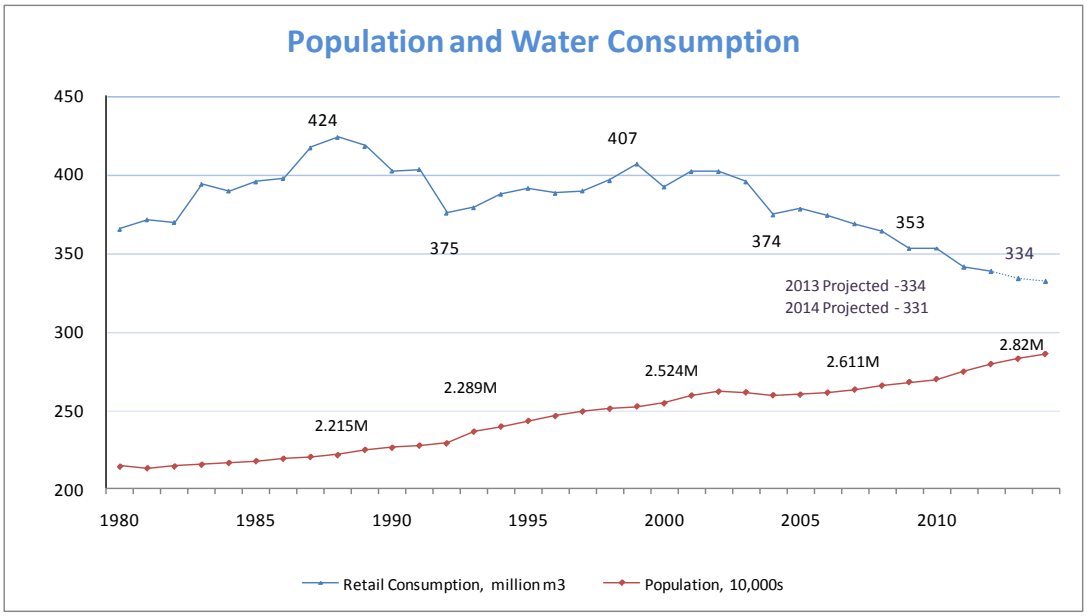
- One of the main challenges facing Toronto Water in future years will be the management of the continuously increasing costs from both, internal and external sources. Personnel costs and inflationary pressures related to costs for materials and supplies, electricity, chemicals and parts, as well as machinery and services are ongoing.
- For example, in 2014 alone, operating impacts of previously completed capital projects amount to $4.620 million, while salary and non-salary inflationary increases approximate $8.710 million. Further increases of $8.734 million and $8.946 million are anticipated for 2015 and 2016 respectively.

*Impact of Lower Water Consumption Forecasts on Water and Wastewater Rate Revenues*

- Beginning in 2006 Toronto Water implemented a planned multi-year Water and Wastewater annual rate increase of 9% for 9 years, with the final 9% rate increase planned for the year 2014.
- The annual multi-year rate increase strategy was planned to generate revenues required to fund Toronto Water's operations and its capital program, balancing infrastructure renewal needs for state of good repair with new service improvement projects requiring funding to increase system capacity to keep pace with population growth, while ensuring the delivery of water supply and wastewater treatment within an increasingly stringent regulatory framework.

- Despite the increase in population, the additional revenues to be generated by an annual 9% rate increase have been reduced by the steady decline in water consumption predominantly attributed to water efficiency measures and economic factors as shown in Chart 2 below.

**Chart 2 – Toronto Retail Water Consumption**




- Over the last 7 years there was a decline in base water consumption (October to April) of 2.1% annually on average. Summer consumption also shows a reduction over the same period of 1.7% annually. Toronto's water consumption projected to 2013 year-end is estimated at 334 million cubic meters which represents a substantial drop from 374 million cubic metres in 2005.
- In 2012, as a result of lowered consumption forecasts, projecting a $686.8 million reduction in revenues over the 10-year planning period, Toronto Water's 2012 – 2021 Capital Plan was reduced by $1.132 billion.
- A further decline of 1% (compared to 2012 actuals) in water consumption is projected for 2014. While this does indicate that the decline in water consumption is beginning to level off, it does continue to further lower revenues available to fund the capital program.
- Additional detail on historical and forecasted water consumption and production, as well as its impact on the Toronto Water Capital Reserve is available in the accompanying 2014 Water and Wastewater Rates and Service Fees report.

*Resulting Capital Program Funding Pressures*

- While Toronto Water's Capital Program continues to be 100% self sustaining, largely through water revenues (with no debenture financing and no impact on the municipal property tax levy), declining water consumption trends have placed significant pressure on the long term capital program as outlined above.

- Concurrently with deferring $1.132 billion in capital work in the 2012-2021 Capital Plan, there is an estimated $717 million in project funding required to address unbudgeted projects, while at the same time, public pressure is increasing to reinstate funding that was deferred for programs such as basement flooding protection and combined sewer overflow control projects, resulting in a number of competing priorities and significant funding pressures for Toronto Water.
- *A* report from the Deputy City Manager and Chief Financial Officer and the General Manager, Toronto Water, titled *"Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services"* was considered by the Executive Committee on October 30, 2013. It is recommended that the Deputy City Manager and Chief Financial Officer, and General Manager Toronto Water report back to the Executive Committee, as part of Toronto Water's 2015 Capital Submission, with a recommended financing strategy to support Toronto Water's long term Capital Plan along with a detailed implementation plan.

## Service Efficiency Study Implementation – Status Update

- At its meeting of September 26, 2011 Council approved the report entitled, EX10.1 Core Service Review – Final Report to Executive Committee, and requested the City Manager to review the remaining efficiency related opportunities as set out in Appendix E– KPMG Opportunities Related to Service Efficiencies, to determine whether and in what manner implementation is appropriate through the 2012, 2013 and 2014 Operating Budget
- Item #113 in Appendix E directed Toronto Water to continue implementing the final elements of Works Best Practices Program (WBPP) and District Services Improvement Program (DSIP) restructuring to ensure additional efficiencies are obtained.
- The 2012 and 2013 Operating Budget for Toronto Water included efficiency savings of $1.951 million and $0.254 million respectively, that can be achieved without impacting service levels following the implementation of the final elements of the WBPP and DSIP. In 2014, Toronto Water continues to identify savings from the final implementation of the WBPP and DSIP and the 2014 Recommended Operating Budget includes further savings of $0.187 million resulting from repurposing of staff positions to improve customer services.

## Issues Referred to the 2014 Operating Budget Process

*Standing Committee Service Level Review Impacts*

At its meeting on September 2013, the Public Works and Infrastructure Committee referred the following motion to the Budget Committee, the City Manager and the Deputy City Manager and Chief Financial Officer for consideration as part of the 2014 Budget process:

- City Council direct that the following service standards be included in the 2014 Service Standards for Toronto Water, and direct the Deputy City Manager and Chief Financial Officer to include the necessary resources in the 2014 recommended budget:
    a. 2 year cycle of catch basin cleaning for local streets and 1 year for arterial roads;

b. Treatment and supply of 454 billion liters of water (includes York Region);

c. Connection and treatment of 438 billion litres of wastewater;

d. Replacement of 5,000 sub-standard water services (approximately 3,500 of which are lead);

e. Response to and clearing of 10,000 blocked sewer connections; and

f. Repair of approximately 1,500 broken watermains.

- Toronto Water currently provides services at the above standard levels. The 2014 Recommended Operating Budget includes sufficient funding to meet the above standards.

# Appendix 1

## 2013 Service Accomplishments

### 2013 Key Accomplishments:

In 2013, Toronto Water achieved the following results:

- ✓ The Ministry of Environment (MOE) has completed annual inspections at the City's water treatment facilities and there have been no major non-conformance issues identified.
- ✓ The MOE has completed annual inspections of the City's wastewater treatment facilities and there have been no major non-conformance issues identified.
- ✓ Ongoing optimization at treatment plants and pumping stations to minimize energy costs while meeting required legislative standards.
- ✓ Implementation of a Strategic Technology Integration program that will rationalize work management systems and intelligence tools for long-term optimization.
- ✓ A Customer Service Roadmap is underway to ensure customer service processes and procedures are in place and staff have the tools they need to deliver excellent service to residents, businesses and City staff.
- ✓ Development of a Strategic Workforce Plan that focuses on planning and training a future workforce for the Division.

### 2013 Financial Performance:

**2013 Budget Variance Analysis**
**(In $000s)**

| | 2011 Actuals | 2012 Actuals | 2013 Approved Budget | 2013 Projected Actuals* | 2013 Approved Budget vs. Projected Actual Variance | |
|---|---|---|---|---|---|---|
| ($000s) | $ | $ | $ | $ | $ | % |
| Gross Expenditures | 370,957.2 | 350,354.5 | 394,632.9 | 376,646.6 | (17,986.2) | -4.6% |
| Revenues | 809,449.4 | 911,377.3 | 940,797.2 | 949,387.3 | 8,590.1 | 0.9% |
| Net Expenditures | 438,492.1 | 561,022.7 | (546,164.3) | (572,740.7) | (26,576.3) | 4.9% |
| Approved Positions | 1,676.3 | 1,365.0 | 1,726.8 | 1,484.8 | | |

* Based on the 3rd Quarter Operating Budget Variance Report

### 2013 Experience

Toronto Water reported a net under-spending of $25.663 million of planned expenditures for the nine month period ended September 30, 2013. The variance consisted of lower than budgeted gross expenditures of $11.270 million or 1.7%, and favourable revenue variance of $14.393 million of 2.4% , resulting in underspending of $25.663 million or 30.1%.

- Lower that budgeted gross expenditures were mainly due to $8.124 million in salary and benefit savings arising from vacancies that have not been filled, and $1.646 million in lower costs of chemicals.
- A reported favourable revenue variance of $14.393 million was predominantly related to a lower drop in residential consumptions than originally forecasted (1% decrease compared to budgeted decrease of 3.3%), resulting in $11.228 million higher revenues; higher revenue from of industrial waste and private water agreements of $1.206 million due to higher volume; and higher than expected recoveries from new water and wastewater service connections of $5.236 million. The overachieved revenues were partially offset by lower consumption from the Region of York of $3.277 million.

Toronto Water is projecting a year-end net variance of $26.576 million or 1.9% under the 2013 Approved Net Operating Budget. Expenditure savings of $17.986 are projected, primarily due to savings in salaries and benefits ($12.119 million), water treatment and production efficiencies ($3.000 million), and lower costs of chemicals ($2.400 million).

- Revenues are forecasted to be 0.9% or $8.590 million higher than expected due to higher than expected volumes for the sale of water (5.522 million, higher number of waste agreements ($1.968 million); and additional recoveries such as hydro rebate incentives ($1.100 million).
- The contribution to capital is projected to be $26.576 million or 5.0% above plan, due to a combination of the above factors, resulting in gross expenditure savings and higher revenues than originally anticipated.

## Impact of 2013 Operating Variance on the 2014 Recommended Budget

- Savings of $6.726 million from optimization efficiencies ($3.845 million), preventative maintenance ($0.704 million) and salaries and benefits ($2.178 million) are included in the 2014 Recommended Operating Budget
- As decline of water consumption in 2013 was not as high as anticipated, a decline of 1.5% previously forecasted for 2014 and 2015 (2013 Water and Wastewater Rate Model) was revised to 1% (compared to 2012 actuals) and taken into account in developing the current and future year consumption projections in the 2014 Water and Wastewater Rate Model.

# Appendix 2

## 2014 Recommended Operating Budget by Expenditure Category

### Program Summary by Expenditure Category (In $000s)

| Category of Expense | 2011 Actual | 2012 Actual | 2013 Budget | 2013 Projected Actual | 2014 Rec'd Budget | 2014 Change from 2013 Approved Budget | | 2015 Plan | 2016 Plan |
|---|---|---|---|---|---|---|---|---|---|
| | $ | $ | $ | $ | $ | $ | % | $ | $ |
| Salaries and Benefits | 147,615.4 | 138,181.5 | 161,228.2 | 149,108.8 | 163,318.2 | 2,090.0 | 1.3% | 168,221.8 | 171,269.6 |
| Materials and Supplies | 83,123.9 | 78,187.2 | 94,553.0 | 89,153.0 | 94,631.4 | 78.4 | 0.1% | 96,903.0 | 101,101.6 |
| Equipment | 3,179.5 | 2,387.9 | 2,473.1 | 2,473.1 | 2,600.0 | 126.9 | 5.1% | 2,656.0 | 2,713.3 |
| Services & Rents | 42,101.9 | 39,483.9 | 43,099.5 | 43,099.5 | 48,844.9 | 5,745.4 | 13.3% | 50,238.5 | 51,223.3 |
| Contributions to Capital | 438,492.2 | 561,022.9 | 546,164.3 | 546,164.3 | 618,722.3 | 72,558.0 | 13.3% | 618,722.3 | 618,722.3 |
| Contributions to Reserve/Res Funds | 8,050.4 | 6,965.4 | 7,628.8 | 7,628.8 | 8,328.8 | 700.0 | 9.2% | 8,828.7 | 8,828.7 |
| Other Expenditures | 21,780.5 | 19,707.1 | 19,478.8 | 19,761.9 | 20,271.4 | 792.5 | 4.1% | 20,271.4 | 20,271.4 |
| Interdivisional Charges | 65,105.7 | 65,441.4 | 66,171.5 | 65,421.5 | 65,168.4 | (1,003.1) | (1.5%) | 64,868.4 | 64,868.4 |
| **Total Gross Expenditures** | 809,449.4 | 911,377.3 | 940,797.1 | 922,810.9 | 1,021,885.3 | 81,088.2 | 8.9% | 1,030,710.3 | 1,038,998.5 |
| Interdivisional Recoveries | 120.4 | 74.5 | | | | | | | |
| Provincial Subsidies | | | | | | | | | |
| Federal Subsidies | | | | | | | | | |
| Other Subsidies | | | | | | | | | |
| User Fees & Donations | 39,143.6 | 36,730.3 | 29,482.4 | 31,450.7 | 31,803.0 | 2,320.7 | 7.9% | 31,806.1 | 31,900.0 |
| Transfers from Capital Fund | 2,100.3 | 2,412.1 | 1,989.0 | 1,989.0 | 2,013.0 | 23.9 | 1.2% | 2,013.0 | 2,013.0 |
| Contribution from Reserve Funds | 6,392.7 | | 195.0 | 195.0 | 195.0 | 0.0 | 0.0% | 195.0 | 195.0 |
| Contribution from Reserve | 6,741.7 | | | | | | | | |
| Sundry Revenues | 754,950.7 | 872,160.3 | 909,130.7 | 915,752.7 | 987,874.3 | 78,743.6 | 8.7% | 987,874.3 | 987,874.3 |
| **Total Revenues** | 809,449.4 | 911,377.3 | 940,797.1 | 949,387.4 | 1,021,885.3 | 81,088.2 | 8.9% | 1,021,888.4 | 1,021,982.3 |
| **Total Net Expenditures** | | | | (26,576.4) | | | | 8,821.9 | 17,016.3 |
| **Approved Positions** | 1,676.3 | 1,365.0 | 1,726.8 | 1,484.8 | 1,732.8 | 6.0 | 0.3% | 1,737.8 | 1,714.8 |

## 2014 Key Cost Drivers

### Salaries and Benefits

- Salaries and benefits are the largest expenditure category and account for 41% of the total expenditures (excluding capital contributions), followed by materials and supplies at 24%, services and rents at 12%, and interdivisional charges at 16%. The remaining 7% represents all other costs, including equipment and contribution to reserve funds.
- Revenues are derived mostly from the sale of water and waste water surcharges which constitute 94% of the total, with the remaining 6% of revenues comes from a variety of sources such as industrial waste surcharges, private water agreements, and service charges.
- Over the last three years (2011-2013), Toronto Water's *salary and benefit costs* have increased by 2.3%. Salary and benefit costs account for $163.318 million or 41% of the 2014 Recommended Operating Budget.
  - Salary and benefit costs have historically increased with contractually obligated wage increases, increased benefit costs and step and progression pay increases.

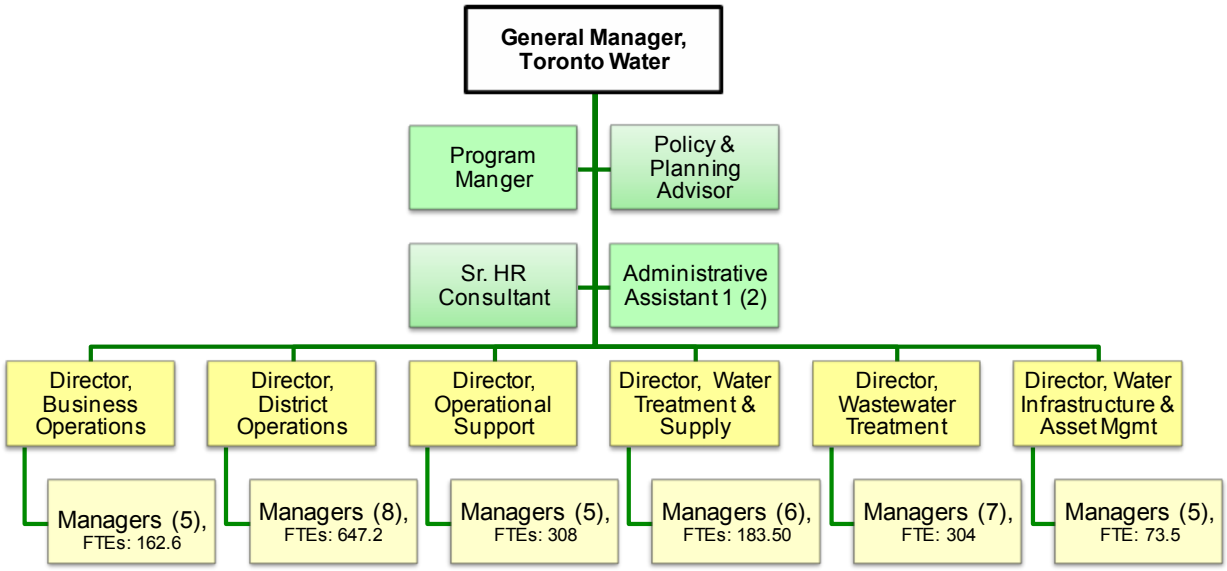
- These expenses continue to impact the Program's budget in 2014 requiring additional funding of $2.009 million or a 1.3% increase from 2014 budgeted salaries and benefits, mainly for step and progression pay and increases arising from negotiated settlements with unionized employees and approved inflationary adjustments for non unionized staff.
- The increases in salary and benefit costs in 2014 of $2.935 million were partially offset through savings realized from a detailed review of salaries and benefits based on actual expenses ($2.178 million).
- The remaining net increase in salaries and benefits for 2014 is mostly attributable to the addition of 6 new positions required to establish the Water Loss and Leak Detection Team ($0.502 million).
- Toronto Water projects significant savings in salaries and benefits in 2013, due to a large number of vacant positions. Under-spending of salary and benefit budget assisted Toronto Water in mitigating the impact of lower water consumption experienced in previous years. Through its work force development program, Toronto Water continues to address issues of unfilled positions and reduce any adverse impact on its operational requirements.

- Inflationary increases in materials, chemicals and utility costs are continuing to result in significant increases in *material and supplies* expenses. These costs, which represent $94.631 million or 24.0% of Toronto Water's gross expenditures, less capital contributions, increased by 4.5% since 2011 and are budgeted to further increase by 0.1% or $0.078 million in 2014.
  - 2014 inflationary increases in materials and supplies of $4.637 million are predominately driven by anticipated increases in electricity and other utility costs of $3.436 million, materials and supplies such as chlorine and various other chemicals of $1.201 million, and contracted services of $1.083 million.
  - Federal wastewater regulation requirements resulting in an additional cost of $1.0 million for materials and supplies.
  - Previously completed capital projects resulted in increased operating costs of $3.449 million for additional corrosion and odour control materials and supplies, mostly for water treatment plants, the FJ Horgan treatment plant in particular.
  - Inflationary increases in material and supplies have been almost fully offset by process efficiency savings and line by line expenditure reductions.
- Costs of various professional *services and rents* decreased by 5.3% over the 2011-2013 period, mostly as a result of budget reductions implemented in 2012. The 2014 Recommended Operating Budget of $48.844 million is $5.745 million or 13.3% higher than the 2012 Approved Budget primarily due to:
  - General inflationary pressures of $1.083 million.

- Higher costs associated with the operation of the cake and pellet haulage management from the biosolids process ($1.680 million), federal wastewater regulation requirements ($0.300 million), and environmental health and safety audits ($0.300 million), storm water facilities cleaning ($0.360 million) and other base pressures.
- An increase in the Contribution to Reserves of $0.700 million or 9.2% is due to an increase in fleet requirements, based on a recently updated vehicle replacement schedule.
- Decreases to City-wide Interdivisional Charges (IDCs) of $1.003 million are mostly due to lower disposal cost at Green Lane Landfill.
- Over the past several years, as a result of reduced water consumption levels, Toronto Water's actual annual revenues have not increased in direct proportion with the 9% approved annual rate increase.
  - Actual revenues, excluding transfers from the Capital Budget, have increased by 7.4% in 2010, 5.9% in 2011, 8.3% in 2012, and 5.0% is projected in 2013. An overall revenue increase of 8.6% is projected for 2014.
- The 2014 Water and Wastewater 8.6% service rate increase is anticipated to generate the following additional revenue:
  - $83.810 million from the sale of water within the City of Toronto, representing a revenue increase of 9.6%. It should be noted that although water consumption continued to decline in 2013, that decline was not as large was anticipated. Therefore, although water consumption in 2014 was projected at 1% below 2012 actuals, the forecasted decline for 2014 resulted in water revenues that are slightly higher than 2013 approved sale of water revenues. This revenue increase is also partially attributable to additional water revenues resulting from conversions to automated meter readers;
  - $0.574 million increase in user fees due to inflationary increases to existing user fees ($0.296 million) and revenues from user fees transferred from Engineering and Construction Services ($0.278 million);
  - Increased revenues from the industrial waste surcharge program ($1.395 million); and
  - $0.180 million from other revenues such as sales of water to Enwave.
  - The above increase in revenues was partially offset by reduced revenues from the sale of water to the Region of York of $5.246 million, representing a 24% decrease from the 2013 approved sale of water revenues to the Region of York.
- Approval of the 2014 Recommended Operating Budget for Toronto Water will result in an increase of 6 permanent positions in order to establish the Water Loss and Leak Detection Team. The total staff complement will increase from 1,726.8 to 1,732.8.

# Appendix 2 - Continued

## 2014 Organization Chart




## 2013 Full and Part Time Staff

| Category | Senior Management | Management | Exempt Professional & Clerical | Union | Total |
|---|---|---|---|---|---|
| | | | | | - |
| Total | 1.0 | 164.0 | 165.0 | 1,396.8 | 1,726.8 |

# Appendix 3

## Summary of 2014 Recommended Service Changes

TORONTO

# 2014 Operating Budget - Staff Recommended Service Change
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| **2014 Staff Recommended Base Budget Before Service Change:** | | | **407,905.4** | **1,021,735.3** | **(613,829.9)** | **1752.8** | **9,360.6** | **8,408.4** |
| 1243 | | **E1: District Operations Locates** | | | | | | |
| 51 | 1 | **Description:** | | | | | | |

In 2012 and 2013, Toronto Water conducted a pilot project to look at efficiencies for the function of physically locating, marking' and mapping underground water infrastructure prior to excavating. It was determined that costs per locate were lower and that specialized contractors were able to respond to calls within 5 days instead of a three week period tipical response time for' Toronto Water's crews. By selecting this option, Toronto Water will achieve savings of $0.264 million. Additional benefits in ' terms of improved quality of assessments and minimal delays in residential restoration/renovation projects are anticipated. This' will also ensure that the City is able to meet requirements under Bill 8 (Ontario One Call). As a result of this change 13 ' permanent vacant positions will be deleted.'

**Service Level Impact:**

No Service Level impact.

| | | | | | | |
|---|---|---|---|---|---|---|
| Service: TW-Stormwater Management | | | | | | |
| Total Staff Recommended: | (17.8) | 0.0 | (17.8) | (0.7) | 0.0 | 0.0 |
| Service: TW-Wastewater Collection & Treatment | | | | | | |
| Total Staff Recommended: | (114.1) | 0.0 | (114.1) | (4.2) | 0.0 | 0.0 |
| Service: TW-Water Treatment & Supply | | | | | | |
| Total Staff Recommended: | (224.7) | 0.0 | (224.7) | (8.2) | 0.0 | 0.0 |

| Form ID Category | Priority | Citizen Focused Services B Program: Toronto Water | Adjustments Gross Expenditure | Revenue | Net | Approved Positions | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| | | **Staff Recommended Service Changes:** | **(356.7)** | **0.0** | **(356.7)** | **(13.0)** | **0.0** | **0.0** |

1244
51 1

## E2: District Operations Restorations

**Description:**

Pilot projects, conducted from August 2012 to May 2013, showed that using specialized contractor for temporary asphalt and' permanent soft surface (sod) restoration results in a lower overall cost per location, better quality of work and response time, as' well as specialized landscaping restoration.By using specialized contractors for surface repairs after excavations Toronto Water' will realize savings of $0.357 million.Selecting this option will also improve delivery aspects of this service. As a result 6' permanent vacant positions and 7 temporary vacant positions will be deleted.'

**Service Level Impact:**

No Service Level impact.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Service: TW-Stormwater Management | | | | | | | |
| Total Staff Recommended: | (18.5) | 0.0 | (18.5) | (0.8) | 0.0 | 0.0 |
| Service: TW-Wastewater Collection & Treatment | | | | | | | |
| Total Staff Recommended: | (91.8) | 0.0 | (91.8) | (4.4) | 0.0 | 0.0 |
| Service: TW-Water Treatment & Supply | | | | | | | |
| Total Staff Recommended: | (153.6) | 0.0 | (153.6) | (7.9) | 0.0 | 0.0 |
| **Staff Recommended Service Changes:** | **(263.9)** | **0.0** | **(263.9)** | **(13.0)** | **0.0** | **0.0** |

TORONTO

# 2014 Operating Budget - Staff Recommended Service Change
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| 1424 | | **E3:Optimization of Water & Wastewater Treatment Proces** | | | | | | |
| 51 | 1 | **Description:** | | | | | | |
| | | Savings of $3.845 million are recommended based on achieved energy and utility efficiencies, arising from the optimization of' production processes, resulting in lower chemical dosages relating to effluent conditions. This change recognizes the portion of' recurring savings that were identified as part of the 2012 Year End Operating Variance Report. ' | | | | | | |
| | | **Service Level Impact:** | | | | | | |
| | | No Service Level impact. | | | | | | |
| | | Service: TW-Stormwater Management | | | | | | |
| | | Total Staff Recommended: | 5.9 | 0.0 | 5.9 | 0.0 | 0.0 | 0.0 |
| | | Service: TW-Wastewater Collection & Treatment | | | | | | |
| | | Total Staff Recommended: | (2,557.3) | 0.0 | (2,557.3) | 0.0 | 0.0 | 0.0 |
| | | Service: TW-Water Treatment & Supply | | | | | | |
| | | Total Staff Recommended: | (1,293.6) | 0.0 | (1,293.6) | 0.0 | 0.0 | 0.0 |
| | | **Staff Recommended Service Changes:** | **(3,845.1)** | **0.0** | **(3,845.1)** | **0.0** | **0.0** | **0.0** |
| 1458 | | **E4:Preventative Maintenance & Reduce Parts & Machinery** | | | | | | |
| 51 | 1 | **Description:** | | | | | | |

**Category:**

51 - Efficiency Change
52 - Revenue Change
59 - Service Change

TORONTO

# 2014 Operating Budget - Staff Recommended Service Change
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| | | Toronto Water achieved savings of $0.704 million associated with lower parts and machinery requirements in treatment facilities due to improved preventative maintenance programs and other continuous improvement initiatives. These savings were also identified as part of the 2012 Year End Operating Variance Report. | | | | | | |
| | | **Service Level Impact:** | | | | | | |
| | | No Service Level impact. | | | | | | |
| | | Service: TW-Wastewater Collection & Treatment | | | | | | |
| | | Total Staff Recommended: | (469.5) | 0.0 | (469.5) | 0.0 | 0.0 | 0.0 |
| | | Service: TW-Water Treatment & Supply | | | | | | |
| | | Total Staff Recommended: | (234.1) | 0.0 | (234.1) | 0.0 | 0.0 | 0.0 |
| | | **Staff Recommended Service Changes:** | **(703.5)** | **0.0** | **(703.5)** | **0.0** | **0.0** | **0.0** |

**Summary:**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Staff Recommended Service Changes:** | **(5,169.1)** | **0.0** | **(5,169.1)** | **(26.0)** | **0.0** | **0.0** |
| **Total Staff Recommended Base Budget:** | **402,736.2** | **1,021,735.3** | **(618,999.1)** | **1,726.8** | **9,360.6** | **8,408.4** |

**Category:**

51 - Efficiency Change
52 - Revenue Change
59 - Service Change

# Appendix 4

## Summary of 2014 Recommended New / Enhanced Service Changes

# 2014 Operating Budget - Staff Recommended New and Enhanced Services
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| 1245 | | **N1: Water Loss & Leak Protection Program** | | | | | | |
| 74 | 1 | **Description:** | | | | | | |

In 2011, Council authorised Toronto Water to implement a City-Wide Water Loss Reduction and Leak Detection Program. The Program was based on a detailed Water Loss Assessment and Leak Detection Study which undertook to quantify water losses and unbilled authorized consumption, i.e. non revenue water, including water distribution system leakage, loss of water through watermain breaks, use of water for fire fighting purposes, operations and maintenance of the distribution system including hydrant flushing, and unmetered consumption such as irrigation systems at some City parks and facilities. The study found that water losses were in the order of 8% to 10 % of the production totals, which at the time was estimated at an annual value of $30 million in treatment and transmission costs.

**Service Level Impact:**

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| | | It was estimated that implementation of a comprehensive water loss reduction and leak detection program could achieve a leakage reduction at an annual value of $15.8 million in treatment and transmission costs. For successful implementation of the Program a dedicated team consisting of 6 permanent members was recommended. The implementation of this program was to be initiated in 2011 and that analysis be updated on an annual basis to help gauge progress made in reducing leakage. The information would be reported through Toronto Water's annual capital budget submissions. Due to budgetary pressures in 2012/2013, this Program was never initiated.The 2014 Recommended Budget includes funding $0.427 million to establish a Water Loss Reduction and Leak ' etection Team. This team will consist of a Project Lead, an Engineering Technician Technologist, 2 Water Maintenance Workers 1 and 2 Water Maintenance Workers 2. It will conduct further research by various pressure zones to determine opportunities for savings and confirm viability of any initial saving estimates. Estimated savings of $0.150 million in 2015 and $0.120 million in 2016 are anticipated to partially offset the cost of the team. | | | | | | |
| | | Service: TW-Stormwater Management | | | | | | |
| | | Total Staff Recommended: | 50.2 | 0.0 | 50.2 | 0.5 | 0.0 | 0.0 |
| | | Service: TW-Wastewater Collection & Treatment | | | | | | |
| | | Total Staff Recommended: | 75.3 | 0.0 | 75.3 | 2.2 | 0.0 | 0.0 |
| | | Service: TW-Water Treatment & Supply | | | | | | |
| | | Total Staff Recommended: | 301.3 | 0.0 | 301.3 | 3.4 | (105.0) | (120.0) |
| | | **Staff Recommended New/Enhanced Services:** | **426.8** | **0.0** | **426.8** | **6.0** | **(105.0)** | **(120.0)** |

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan<br>Net Change | 2016 Plan<br>Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| 1762 | | **N2:Backflow Prevention Program - Reporting Fee** | | | | | | |
| 75 | 1 | **Description:** | | | | | | |

When Council passed the Water Supply Bylaw and its Backflow Prevention Program, no fees were introduced, though several other municipalities had fees for this type of Program. In keeping with the User Fee Policy and in order to offset escalating costs for administering Backflow Prevention Program on private water systems a new reporting fee of $50 is recommended. This fee will be charged per test report for each premise backflow preventer.

**Service Level Impact:**

The new fee will generate additional revenues of $0.150 million in 2014, $0.434 million in 2015 and $0.094 million in 2016. Further details are provided in the 2014 Water and Wastewater Rates and Service Fees Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.

| | | | | | | |
|---|---|---|---|---|---|---|
| Service: TW-Stormwater Management | | | | | | |
| Total Staff Recommended: | 0.0 | 43.7 | (43.7) | 0.0 | (126.5) | (27.3) |
| Service: TW-Wastewater Collection & Treatment | | | | | | |
| Total Staff Recommended: | 0.0 | 66.6 | (66.6) | 0.0 | (192.5) | (41.7) |
| Service: TW-Water Treatment & Supply | | | | | | |
| Total Staff Recommended: | 0.0 | 39.7 | (39.7) | 0.0 | (114.8) | (24.8) |

TORONTO

# 2014 Operating Budget - Staff Recommended New and Enhanced Services
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| | | **Staff Recommended New/Enhanced Services:** | **0.0** | **150.0** | **(150.0)** | **0.0** | **(433.8)** | **(93.9)** |

# 2014 Operating Budget - Staff Recommended New and Enhanced Services
## Summary by Service
### ($000s)

| Form ID | | Citizen Focused Services B<br>Program: Toronto Water | Adjustments | | | | 2015 Plan Net Change | 2016 Plan Net Change |
|---|---|---|---|---|---|---|---|---|
| Category | Priority | | Gross Expenditure | Revenue | Net | Approved Positions | | |
| **Summary:** | | | | | | | | |
| | | **Staff Recommended New/Enhanced Services:** | **426.8** | **150.0** | **276.8** | **6.0** | **(538.8)** | **(213.9)** |

**Category:**

71 - Operating Impact of New Capital Projects
72 - Enhanced Services-Service Expansion
74 - New Services
75 - New Revenues

# Appendix 5

## Inflows/Outflows to/from Reserves & Reserve Funds

### Program Specific Reserve / Reserve Funds
### (In $000s)

| Reserve / Reserve Fund Name (In $000s) | Reserve / Reserve Fund Number | Projected Balance as of Dec. 31, 2013 | Proposed Withdrawals (-) / Contributions | | |
|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 |
| | | $ | $ | $ | $ |
| **Projected Begining Balance** | XR6003 & | **312,924.4** | **312,924.4** | **931,646.7** | **1,550,369.0** |
| Water & Waste Water Capital Reserve | XR6004 | | | | |
| | | | | | |
| *Proposed* | | | | | |
| *Withdrawals (-)* | | | | | |
| *Contributions (+)* | | | 618,722.3 | 618,722.3 | 618,722.3 |
| | | | | | |
| **Total Reserve / Reserve Fund Draws / Contributions** | | **312,924.4** | **931,646.7** | **1,550,369.0** | **2,169,091.3** |
| **Other program / Agency Net Withdrawals & Contributions** | | | | | |
| **Balance at Year-End** | | **312,924.4** | **931,646.7** | **1,550,369.0** | **2,169,091.3** |

### Corporate Reserve / Reserve Funds
### (In $000s)

| Reserve / Reserve Fund Name | Reserve / Reserve Fund Number | Projected Balance as of Dec. 31, 2013 | Proposed Withdrawals (-) / Contributions (+) | | |
|---|---|---|---|---|---|
| | | | 2014 | 2015 | 2016 |
| | | $ | $ | $ | $ |
| **Projected Begining Balance** | | | **22,595.2** | **61,355.7** | **100,616.1** |
| Vehicle Replacement Reserve | XQ 1012 | 4,288.2 | 4,154.6 | 4,654.6 | 4,654.6 |
| Insurance Reserve Fund | XR 1010 | 18,307.1 | 34,605.8 | 34,605.8 | 34,605.8 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| **Total Reserve / Reserve Fund Draws / Contributions** | | **22,595.2** | **61,355.7** | **100,616.1** | **139,876.6** |
| **Balance at Year-End** | | **22,595.2** | **61,355.7** | **100,616.1** | **139,876.6** |

# Appendix 6

## 2014 User Fee Rate Changes

### Inflation and Other Adjustments

| Rate Description | Service | Fee Category | 2013 Approved Rate | 2014 Budget Rate | 2014 Budget Volume | 2014 Incremental Revenue |
|---|---|---|---|---|---|---|
| Industrial Waste Surcharge and / or Sanitary Discharge Agreement or Permit where the total fees for one year or lesser term are $ 500 or less calculated in accord 1 & 2 above | Wastewater | Full Cost Recovery | $500.00 | *Possible increase: pending October report* | 34 | $ - |
| To install new residential sanitary sewer service connection in road allowance | Wastewater | Full Cost Recovery | $7,293.00 | $7,455.00 | 800 | $ 129,600.00 |
| To install new residential storm sewer service connection in road allowance | Wastewater | Full Cost Recovery | $7,293.00 | $7,455.00 | 15 | $ 2,430.00 |
| To disconnect residential sanitary sewer service connection in road allowance | Wastewater | Full Cost Recovery | $765.00 | $782.00 | 800 | $ 13,600.00 |
| Inspection fee for the reuse of residential City sewer connection up to 150 mm in diameter | Wastewater | Full Cost Recovery | $510.00 | $521.00 | 150 | $ 1,650.00 |
| Technical Review by Toronto Water staff -Application to Toronto Water for exemption to permit the construction of a driveway sloped downwards towards a residential building. | Wastewater | Full Cost Recovery | $1,527.00 | $1,560 | 12 | $ (11,820.00) |
| Technical Review by Toronto Water staff -Application to Toronto Water for new connection or relocation of storm, sanitary or water supply connection | Wastewater | Full Cost Recovery | $305 minimum fee; additional $75.5/hr for each hour after 4 hrs to a mximum of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 8 | $ (10,425.00) |
| Technical Review by Toronto Water staff -Application to Toronto Water for request to encroach within a City permanent or temporary easement (related to City water and sewer infrastructure) | Wastewater | Full Cost Recovery | $305 minimum fee; additional $75.5/hr for each hour after 4 hrs to a mximum of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 2 | $ (2,988.00) |
| Technical Review by Toronto Water staff -Application to Toronto Water for request to release from title a City easement (related to City water and sewer infrastructure) | Wastewater | Full Cost Recovery | $305 minimum fee; additional $75.5/hour for each hour after 4 hours to a maximum fee of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 2 | $ (1,461.00) |

# Appendix 6 - Continued

## 2014 User Fee Rate Changes

### Inflation and Other Adjustments - Continued

| Rate Description | Service | Fee Category | 2013 | 2014 | | |
|---|---|---|---|---|---|---|
| | | | Approved Rate | Budget Rate | Budget Volume | Incremental Revenue |
| Installing 19 mm New Residential Water Service and Meter | Water Service | Full Cost Recovery | $2,700.00 | $2,760.00 | 200 | $12,000.00 |
| Installing 25 mm New Residential Water Service and Meter | Water Service | Full Cost Recovery | $3,111.00 | $3,180.00 | 1000 | $69,000.00 |
| Disconnection Fee for any residential water service less than or equal to 25 mm | Water Service | Full Cost Recovery | $440.00 | $450.00 | 1,200 | $12,000.00 |
| Fire hydrant Permit | Water Service | Full Cost Recovery | $152.70 | $156.00 | 500 | $47,460.00 |
| Water meter accuracy test ; Meter less than or equal to 50mm -No Chamber -applied if meter does not over-register | Water Service | Full Cost Recovery | $152.70 | $156.00 | 260 | $858.00 |
| Water turn off fee for demolition; (disconnection of old water service not included) | Water Service | Full Cost Recovery | $76.35 | $78.00 | 2000 | $3,300.00 |
| Water Turn-off or Turn-on | Water Service | Full Cost Recovery | $76.35 | $78.00 | 7,800 | $12,870.00 |
| Single Service call Turn-off and Turn-on within 30 min | Water Service | Full Cost Recovery | $76.35 | $78.00 | 50 | $ (5,262.00) |
| Conduct fire hydrant flow test | Water Service | Full Cost Recovery | $254.50 | $260.00 | 300 | $1,650.00 |
| Unregistered water each day order not complied | Water Service | Full Cost Recovery | $50.90 | $52.00 | | |
| Annual Seasonal Meter Activation Fee : includes replacement, removal of water meter; 1 turn on, 1 turn off | Water Service | Full Cost Recovery | $30.54 | $200.00 | 300 | |
| Reuse of residential water service 19 mm to 25 mm | Water Service | Full Cost Recovery | $254.50 | $260.00 | | |
| Administrative fee to reflect a change in ownership on an existing utility account | Water Service | Full Cost Recovery | $35.00 | $35.70 | | |
| Water Certification Charge | Water Service | Full Cost Recovery | $25.00 | $25.50 | | |
| Water Special/Final Reading | Water Service | Full Cost Recovery | $15.00 | $15.30 | | |
| Water Consumption Statements | Water Service | Full Cost Recovery | $40.00 | $40.80 | | |
| Water Consumption Statements | Water Service | Full Cost Recovery | $25.00 | $25.50 | | |
| Returned Cheques | Water Service | Full Cost Recovery | $35.00 | $35.70 | | |
| Water Collection Field Visit | Water Service | Full Cost Recovery | $25.00 | $25.50 | | $22,000.00 |
| Administration of MOE Municipal Drinking Water Licensing Program | Water Service | Full Cost Recovery | 2,300.00 | $2,350.80 | 68 | $3,454.40 |

# Appendix 6 - Continued

## 2014 User Fee Rate Changes

### Recommended New User Fees

| Rate Description | Service | Fee Category | 2014 | | |
|---|---|---|---|---|---|
| | | | Budget Rate | Budget Volume | Incremental Revenue |
| Manual water meter reading fee for customers with meters not allowing access to their property to install a new automatic meter | Water Service | Full Cost Recovery | $80.00 | 12,000 accounts – 3 times a year | $2.9M ($1.5M in 2014) |
| Flat rate legacy fee for residential flat rate customers not allowing installation of automatic meters on their property | Water Service | Full Cost Recovery | $1,020.00 | 7,000 flat rate accounts | $7.1M ($3.5M in 2014) |
| Automated Meter Reading | Water Service | Full Cost Recovery | $75 per each lost or damaged meter reading transmitter | 500 | $ 37,500.00 |
| Reporting fee for processing and other administration for the water supply backflow prevention program | Water Service | Full Cost Recovery | $50 per test report for each premise backflow preventer | 11275 (3,000 in 2014) | $56,3750 ($150,000 in 2014) |

### Recommended User Fee Transfers

| Rate Description | Fee Category | 2013 Approved Rate | 2014 Budget Rate | Transfer from | Transfer To |
|---|---|---|---|---|---|
| Record Search for sewer use by-law compliance violation | Full Cost Recovery | $50.00 | $50.00 | Engineering & Construction Services | Toronto Water |
| To review new sewer engineering designs | Full Cost Recovery | $1,100.00 | $1,100.00 | Engineering & Construction Services | Toronto Water |
| Review of applications for establishing or alteration of City of Toronto Drinking Water system | Full Cost Recovery | $2,300.00 | $2,300.00 | Engineering & Construction Services | Toronto Water |
| To Review application for sewer and watermain design | Full Cost Recovery | $800.00 | $800.00 | Engineering & Construction Services | Toronto Water |
| The review of storm and sanitary pump station, forcemains, and sanitary sewage detention chambers or oversized sewers | Full Cost Recovery | $2,000.00 | $2,000.00 | Engineering & Construction Services | Toronto Water |
| The review of facilities for attenuating stormwater runoff peak flow rate or volume or for managing stormwater runoff quality such as underground chambers, oversized sewers, and oil, grit and silt separators | Full Cost Recovery | $2,200.00 | $2,200.00 | Engineering & Construction Services | Toronto Water |

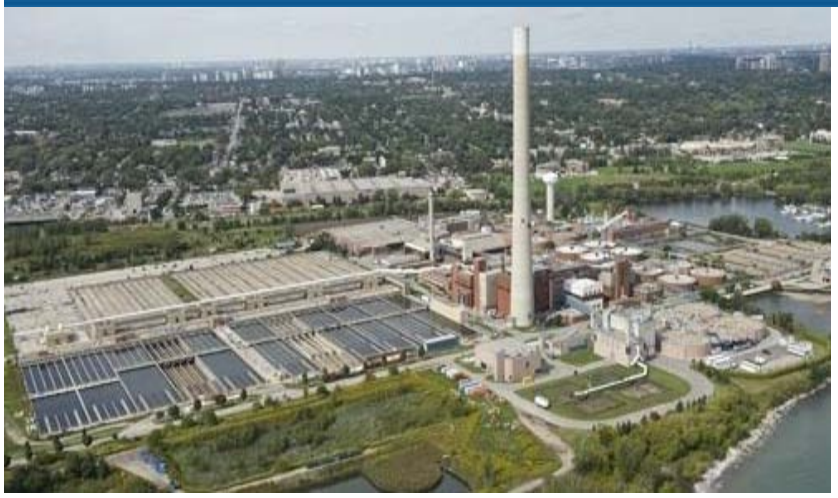
# SECTION 3b

# TORONTO WATER

# 2014 Capital Budget and 2015-2023 Capital Plan

Toronto 2014 BUDGET

CAPITAL ANALYST NOTES



# Toronto Water

## I: 2014 – 2023 CAPITAL BUDGET AND PLAN OVERVIEW

### 2014 – 2023 Capital Budget and Plan Highlights

Toronto Water is responsible for water treatment and supply; wastewater collection and treatment; and stormwater management across the City.

The estimated replacement value of Toronto Water's inventory of capital assets is $28.256 billion. Toronto Water maintains two categories of capital assets, linear infrastructure, such as distribution (5,466 km) and transmission (548 km) watermains, sanitary (3,930 km), combined (1,511 km) and storm (4,954 km) sewers; and facilities/plant assets such as water filtration (4) and waste water treatment plants (4), water (18) and wastewater pumping stations (82), reservoirs, storage and detention tanks.

While State of Good Repair (SOGR) projects remain a priority, given the significant backlog in infrastructure renewal, considerable funding ($2.871 billion) is still provided to support the implementation of the Wet Weather Flow Master Plan, Basement flooding projects and Growth Related projects, some of which are partially recovered from Development Charges.

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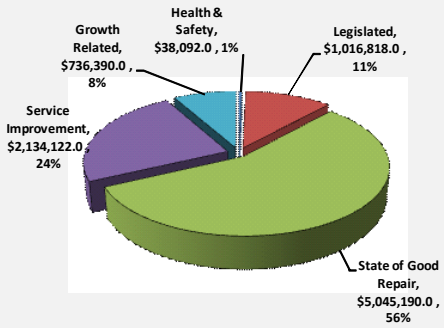
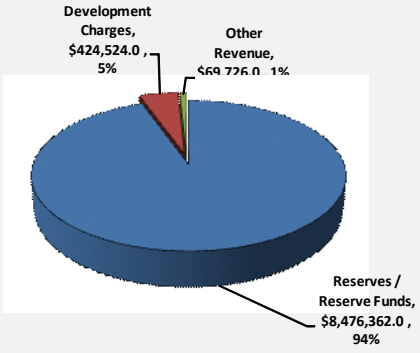
## Capital Spending and Financing

**2014-2023 Capital Budget and Plan Expenditures $8.970 ($Billion)**




**2014-2023 Capital Budget and Plan by Funding Source $8.970 ($Billion)**




### Where does the money go?

The 2014–2023 Recommended Capital Budget and Plan totals $8.971 billion. It provides funding for Health and Safety projects of $38.092 million; Legislated projects of $1.016 billion; State of Good Repair projects of $5.045 billion; Service Improvement projects of $2.134 billion, and Growth Related projects of $736.390 million.

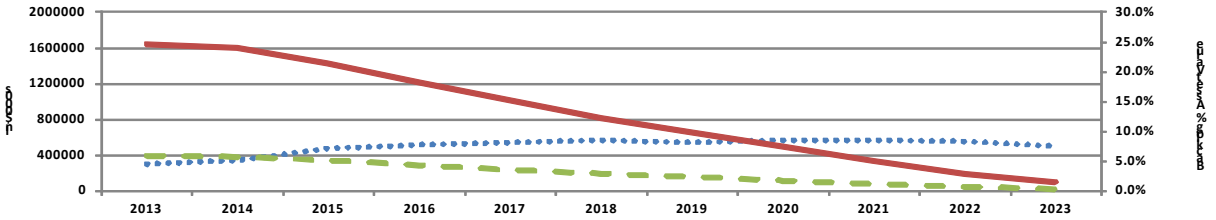
A primary focus of the 2014-2023 Recommended Capital Plan is to undertake on-going state of good repair projects for linear infrastructure renewal ensuring the replacement or rehabilitation of aging watermains and sewers and investment in the City's aging wastewater treatment facilities.

### Where the money comes from?

Over the 10-year planning horizon, Toronto Water continues to be 100% self-sustaining with no debenture financing and with no impact on the municipal property tax levy.

- The 2014 - 2023 Recommended Capital Budget and Plan is funded primarily from the Program's reserves, which account for approximately 94% of financing sources or $8.476 billion.
- Development charges provide funding of approximately 5% or $424.524 million.
- Revenues for capital cost sharing with York Region provide the remaining 1% or $69.726 million in funding for the Program.

## State of Good Repair Backlog




The 10-Year Recommended Capital Plan spending on State of Good Repair is $5.045 billion which will reduce the backlog from 5.8 % as a percentage of asset value in 2013 to 0.3% in 2023.

## Key Challenges and Priority Actions

**State of Good Repair Backlog** – 2013 year-end renewal backlog is estimated at $1.641 billion.

✓ The 10-Year Recommended Capital Plan includes funding of $5.045 billion to address accumulated backlog.

**Extreme Weather Events & Significant Long–Term Unbudgeted Pressures** - Approximately $717 million in unfunded capital pressures over the 10-year planning horizon has been identified.

✓ Executive Committee considered a report entitled, "***Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services***" to aid in developing a financing strategy to support Toronto Water.

**Recent and Emerging Regulations** - Full financial implications arising from new and emerging regulations are still not fully known at this time.

✓ The 10-Year Recommended Capital Plan includes funding of $205.8 million to meet the most recent federal regulations.

**Capital Financing Reserve** - The reserve falls below $60 million in 2021-2023 as a result of the extensive work to be undertaken at the wastewater treatment plants.

✓ The 10-Year Recommended Plan maximises the use of Development Charge Funding


## 2014 Capital Budget Highlights

The 2014 Recommended Capital Budget provides funding of $613.270 million to:

- Continue state of good repair projects to address infrastructure renewal such as District Watermain Replacement and Rehabilitation ($91.035 million) and Sewer System Replacement and Rehabilitation ($85.793 million );
- Continue the Basement Flooding Relief project ($61.256 million), implementation of the Wet Weather Flow Master Plan projects ($33.336 million), and Critical Erosion Projects ($74.476 million)
- Continue implementation of the Water Metering Program ($47.450);
- Complete Class EA studies for all basement flooding areas by the end of 2014.
- Begin the Chemical and Residuals Management projects at the Island Water Treatment Plant ($0.150 million).

# II: RECOMMENDATIONS

## Recommendations

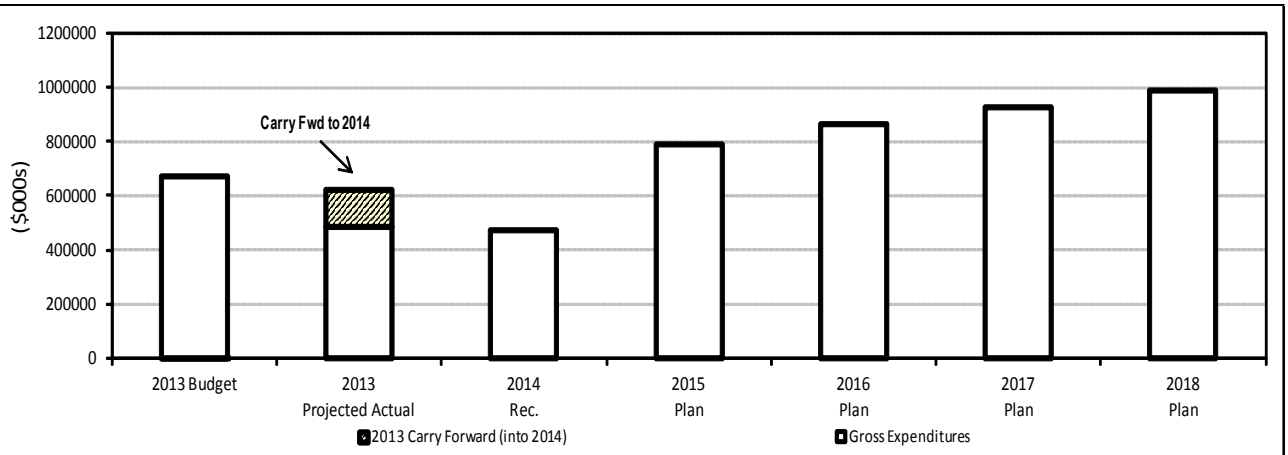
The City Manager and Chief Financial Officer recommend that:

1. City Council approve the 2014 Recommended Capital Budget for Toronto Water with a total project cost of $968.676 million, and 2014 cash flow of $613.270 million and future year commitments of $2.580 billion comprised of the following:
   a) New Cash Flow Funding for:
      i) 260 new / change in scope sub-projects with a 2014 total project cost of $968.676 million that requires cash flow of ($181.985 million) in 2014 and a future year cash flow commitment of $216.870 million in 2015; $324.884 million in 2016, $314.215 million in 2017, $190.590 million in 2018, $85.214 million in 2019, ($8.734 million) in 2020; ($10.609 million) in 2021, ($13.921) million in 2022, and $52.152 million in 2023;
      ii) 216 previously approved sub-projects with a 2014 cash flow of $657.198 million; and a future year cash flow commitment of $466.680 million in 2015; $301.777 million in 2016, $208.576 million in 2017, $103.774 million in 2018, $100.886 million in 2019, $100.595 million in 2020; $76.240 million in 2021, and $70.880 million in 2022; and
   b) 2013 approved cash flow for 151 previously approved sub-projects with carry forward funding from 2013 into 2014 totaling $138.057 million.
2. Council approve the 2015-2023 Recommended Capital Plan for Toronto Water totaling $5.915 billion in project estimates, comprised of $110.798 million in 2015; $241.121 million in 2016; $406.364 million in 2017; $694.490 million in 2018; $817.183 million in 2019; $869.353 million in 2020; $941.077 million in 2021; $908.333 million in 2022; and $926.611 million in 2023; and
3. Council consider operating costs of $4.432 million net in 2014, ($0.370) million net in 2015; $0.175 million net in 2016; $5.709 million net in 2017; $5.875 million net in 2018; $0.365 million net in 2019; and $2.504 million net in 2020; and $0.050 million emanating from the approval of the 2014 Recommended Capital Budget for inclusion in the 2014 and future year operating budgets.
4. City Council approve 6 temporary capital positions for the delivery of new 2014 capital projects and that the duration for each temporary position not exceed the life and funding of its respective project / sub-project.
5. City Council request the Deputy City Manager and Chief Financial Officer in consultation with the General Manager, Toronto Water to advance the 2015 cashflow for the Basement Flooding project into 2014, should it become evident that greater than planned volume of work can be completed, and that the 2015 – 2023 budgeted cash flows be adjusted accordingly as part of the 2015 Budget process.

6. This report be considered concurrently with the 2014 Water and Wastewater Rate Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.

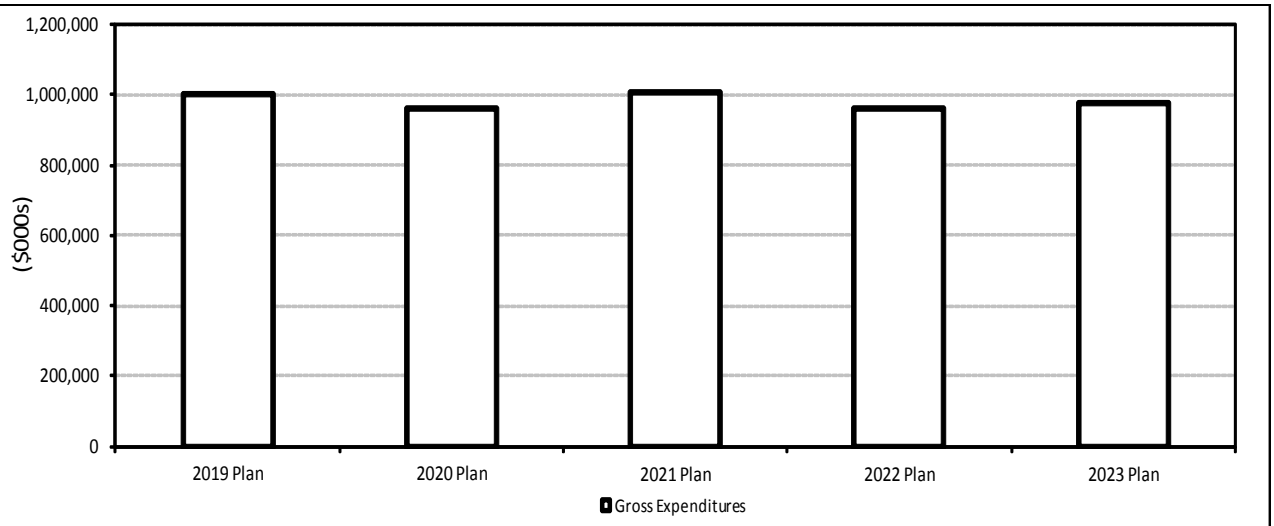
# III: 10-YEAR CAPITAL PLAN

## 10 - Year Capital Plan
## 2014 Recommended Budget, 2015 – 2018 Recommended Plan




| | 2013 | | 2014 Budget and 2015 - 2018 Plan | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Budget | Projected Actual | 2014 | 2015 | 2016 | 2017 | 2018 | 2014 - 2018 | 5-Year Total Percent |
| **Gross Expenditures:** | | | | | | | | | |
| 2013 Capital Budget & Approved FY Commitments | 674,775 | 485,488 | 657,198 | 466,680 | 301,777 | 208,576 | 103,774 | 1,738,005 | 42.9% |
| Recommended Changes to Approved FY Commitments | | | | | | | | - | |
| 2014 New/Change in Scope and Future Year Commitments | | | (181,985) | 216,870 | 324,884 | 314,215 | 190,590 | 864,574 | 21.3% |
| 2015- 2018 Capital Plan Estimates | | | | 110,798 | 241,121 | 406,364 | 694,490 | 1,452,773 | 35.8% |
| 2-Year Carry Forward for Reapproval | | | | | | | | - | |
| 1-Year Carry Forward to 2014 | | 138,057 → | | | | | | | |
| **Total Gross Annual Expenditures & Plan** | **674,775** | **623,545** | **475,213** | **794,348** | **867,782** | **929,155** | **988,854** | **4,055,352** | **100.0%** |
| **Financing:** | | | | | | | | | |
| **Recommended Debt** | | | | | | | | - | |
| Reserves/Reserve Funds | 633,266 | 450,803 | 429,977 | 745,073 | 820,049 | 873,772 | 935,280 | 3,804,151 | 93.8% |
| Development Charges | 16,305 | 12,267 | 29,895 | 37,005 | 38,860 | 47,578 | 45,979 | 199,317 | 4.9% |
| Provincial/Federal | | | | | | | | - | |
| Debt Recoverable | | | | | | | | - | |
| Other Revenue | 25,203 | 22,418 | 15,341 | 12,270 | 8,873 | 7,805 | 7,595 | 51,884 | 1.3% |
| **Total Financing** | **674,775** | **623,545** | **475,213** | **794,348** | **867,782** | **929,155** | **988,854** | **4,055,352** | **100.0%** |
| **By Project Category:** | | | | | | | | | |
| Health & Safety | | | 4,405 | 11,834 | 10,352 | 5,077 | 2,924 | 34,592 | 0.9% |
| Legislated | | | 33,720 | 63,389 | 67,725 | 98,555 | 128,655 | 392,044 | 9.7% |
| SOGR | | | 251,730 | 468,473 | 516,005 | 541,288 | 561,705 | 2,339,201 | 57.7% |
| Service Improvement | | | 154,566 | 196,257 | 212,271 | 191,505 | 215,118 | 969,717 | 23.9% |
| Growth Related | | | 30,792 | 54,395 | 61,429 | 92,730 | 80,452 | 319,798 | 7.9% |
| **Total by Project Category** | | | **475,213** | **794,348** | **867,782** | **929,155** | **988,854** | **4,055,352** | **100.0%** |
| **Asset Value ($) at year-end** | | **28,255,795** | **28,360,593** | **28,435,825** | **28,516,294** | **28,606,075** | **28,749,369** | | |
| Yearly SOGR Backlog Estimate (addressed by current plan) | | | 41,521 | 169,599 | 212,216 | 202,704 | 201,248 | | |
| Accumulated Backlog Estimate (end of year) | | 1,640,966 | 1,599,445 | 1,429,846 | 1,217,630 | 1,014,926 | 813,678 | | |
| **Backlog: Percentage of Asset Value (%)** | | 5.8% | 5.6% | 5.0% | 4.3% | 3.5% | 2.8% | | |
| Debt Service Costs | | | | | | | | 0 | |
| Operating Impact on Program Costs | | | 4,432 | (370) | 175 | 5,709 | 5,875 | 15,821 | |
| New Positions | | | 5 | 5 | 1 | 5 | 2 | 18 | |

## 10 - Year Capital Plan
## 2019 - 2023 Recommended Plan
## (In $000s)




| | 2019 - 2023 Capital Plan | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2019 | 2020 | 2021 | 2022 | 2023 | 2014 - 2023 | 10-Year Total Percent |
| **Gross Expenditures:** | | | | | | | |
| 2013 Capital Budget & Approved FY Commitments | 100,886 | 100,595 | 76,240 | 70,880 | - | 2,086,606 | 23.3% |
| Recommended Changes to Approved FY Commitments | | | | | | | |
| 2014 New/Change in Scope and Future Year Commitments | 85,214 | (8,734) | (10,609) | (13,921) | 52,152 | 968,676 | 10.8% |
| 2019 - 2023 Capital Plan Estimates | 817,183 | 869,353 | 941,077 | 908,333 | 926,611 | 5,915,330 | 65.9% |
| **Total Gross Annual Expenditures & Plan** | **1,003,283** | **961,214** | **1,006,708** | **965,292** | **978,763** | **8,970,612** | **100.0%** |
| **Financing:** | | | | | | | |
| **Recommended Debt** | | | | | | - | |
| Reserves/Reserve Funds | 949,348 | 918,398 | 957,966 | 915,544 | 930,955 | 8,476,362 | 94.5% |
| Development Charges | 46,320 | 40,744 | 45,272 | 46,798 | 46,073 | 424,524 | 4.7% |
| Provincial/Federal | | | | | | - | |
| Debt Recoverable | | | | | | - | |
| Other Revenue | 7,615 | 2,072 | 3,470 | 2,950 | 1,735 | 69,726 | 0.8% |
| **Total Financing** | **1,003,283** | **961,214** | **1,006,708** | **965,292** | **978,763** | **8,970,612** | **100.0%** |
| **By Project Category:** | | | | | | | |
| Health & Safety | 1,750 | 1,250 | 250 | 250 | - | 38,092 | 0.4% |
| Legislated | 148,909 | 107,076 | 132,496 | 119,953 | 116,340 | 1,016,818 | 11.3% |
| SOGR | 534,495 | 557,172 | 568,823 | 543,213 | 502,286 | 5,045,190 | 56.2% |
| Service Improvement | 229,811 | 225,321 | 225,449 | 210,819 | 273,005 | 2,134,122 | 23.8% |
| Growth Related | 88,318 | 70,395 | 79,690 | 91,057 | 87,132 | 736,390 | 8.2% |
| **Total by Project Category** | **1,003,283** | **961,214** | **1,006,708** | **965,292** | **978,763** | **8,970,612** | **100.0%** |
| **Asset Value($) at year-end** | **29,149,244** | **29,293,369** | **29,674,494** | **29,754,369** | **31,033,369** | | |
| Yearly SOGR Backlog Estimate (not addressed by current plan) | 201,248 | 155,299 | 157,352 | 168,047 | 141,476 | | |
| Accumulated Backlog Estimate (end of year) | 658,379 | 501,027 | 332,980 | 191,504 | 91,923 | | |
| **Backlog: Percentage of Asset Value (%)** | 2.3% | 1.7% | 1.1% | 0.6% | 0.3% | | |
| Debt Service Costs | | | | | | 0 | |
| Operating Impact on Program Costs | 365 | 2,504 | 50 | | | 18,740 | |
| New Positions | 3 | | 1 | | | 22 | |

# Key Changes to the 2013 - 2022 Approved Capital Plan

**Changes to the 2013 -2022 Approved Capital Plan**
**(In $000s)**

The 2014 Recommended Capital Budget and the 2015 - 2023 Recommended Capital Plan reflects an increase of $305.0 million in capital funding from the 2013 to 2022 Approved Capital Plan.

Changes to the 2013 – 2022 Approved Capital Plan arise from the reprioritization of Toronto Water's capital projects, based on the following factors:

- Updated condition assessments.
- Updated schedules for implementation of the projects requiring large capital funding, such as Ashbridges Bay WWTP disinfection and outfall construction projects, Highland Creek Biosolids project and Basement Flooding Relief projects, which are scheduled for implementation between 2016-2019.
- Need to realign Toronto Water 2014 Capital Budget with historical spending rates.

**Significant Increases in Toronto Water Capital Projects:**

The following Toronto Water capital projects have been allocated increased funding to address key priorities outlined below:

- *The Ashbridges Bay Wastewater Treatment Plant project cost* has been increased by $381.560 million from $1.190 billion, representing a 32% increase in total project cost primarily to incorporate construction of a new outfall pipe for disposing effluent in the lake Ontario. This improvement will ensure that all discharges and emissions meet or exceed all applicable environmental standards, eliminate the need for existing seawall gates in the lake, and maximize protection of fish, aquatic habitats, waterfowl, vegetation and wildlife.
- Increased funding for *Watermain Renewal (Rehabilitation and Replacement) of* $60.128 million or 5% from $1.269 million has been included to align requirements with Toronto Water's service replacement policy and to increase the extent of renewal being undertaken through trenchless technologies such as structural lining.

- *Business & Technical Improvement project costs* have increased by $26.927million or 53% from $50.568 million to reflect Phase 2 of the Divisional Work Management System implementation. Additional funding has also been included to continue the replacement of network cabling.
- *Trunk Sewer and Sewage Pumping project costs* have increased by $100.128 million or 20% from $511.636 million, based on updated condition assessment for trunk sewer rehabilitation and replacement.
- Additional funding of $27.046 million or 7% from $388.918 million has been allocated to *the Highland Creek Wastewater Treatment Plant projects* to incorporate required treatment upgrades including aeration system upgrades.
- In order to assist the TRCA to mitigate some of *the most critical erosion projects* resulting from the July 8th, 2013 storm, Toronto Water's funding contribution has been increased by $26.0 million, from $4.0 million over the 10-Year period.

*Major Reductions in Toronto Water Capital Projects:*

Significant reductions in capital expenditures have been made to the following projects:

- *Transmission Watermain project costs* have decreased by $129.307 million or 37% from $350.951 million as a result of deferring the construction of the Ellesmere watermain, the Mount Pleasant Watermain and the East Mall Cast Iron Watermain outside of the 10 year Capital Plan period.
- The allocation for *the Wet Weather Flow projects* has been decreased by a total of $86.384 million or 13% from $656.680 million to $570.296 million, as a result of the deferral of the Don and Waterfront Trunk CSO project by one year.
- *Linear Engineering and Support project* funding has been decreased by a total of $101.569 million or 17% from $589.882 million, reflecting a restructuring of capital accounts to align permanent road cut restoration services with the various asset renewal programs and to undertake the permanent restoration immediately after completion of underground work.
- The funding allocation for *Humber Wastewater Treatment Plant* projects has decreased by $38.467 million or 9% from $427.217 million to $388.750 million reflecting revised schedule for the implementation of secondary treatment upgrades at the plant.
- Although total funding for *Basement Flooding projects* have remained in line with the 2013-2022 Approved Capital Plan, cash flow funding has been adjusted with a decrease of $45.370 million in 2014 and $3.743 in 2015 million, as environmental assessments have taken longer than originally planned due to the extended time for infrastructure assessments and in order to ensure that all public concerns are heard.
  - Toronto Water is unable to proceed with some basement flooding relief projects as the preliminary designs indicated that the cost to each benefiting property will exceed the current threshold of $32,000 as set by City Council. For those projects that have met the criteria and have proceeded, contracted pricing has been lower than expected. As a

result, $15.886 million in unspent 2013 funding will be carried forward in 2014. Any unspent funds have been re-directed to advance the design phase of the remaining planned basement flooding relief projects.

- It is recommended that Council authority be requested for Toronto Water to advance the 2015 cashflow for the Basement Flooding project into 2014, should it become evident that greater than planned volume of work can be completed.

- Over the 2014-2022 planning period, there are cash flow realignments for a variety of other projects, which reflect more updated schedules for implementation and incorporate additional projects deemed necessary such as digesters rehabilitation projects at Ashbridges Bay and Highland Creek Wastewater Treatment Plants.

**New Projects:**

- There are no new projects. All projects included in the 2014-2023 Recommended Capital Budget and Plan fall under the previously approved Toronto Water's program areas.

Key project cash flow changes to the 2014 – 2023 Approved Capital Plan are detailed below.

**Summary of Project Changes**
**(In $000s)**

| | Total Project Cost | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2014 - 2018 | 2014 - 2022 | Revised Total Project Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Previously Approved*** | | | | | | | | | | | | | |
| ***Water Treatment & Supply*** | | | | | | | | | | | | | |
| *Clark Water Treatment Plant* | 129,502 | (1,848) | 1,300 | (33) | (130) | 57 | 150 | 150 | 150 | 150 | (654) | (54) | 129,448 |
| *Harris Water Treatment Plant* | 72,678 | 462 | 5,300 | 650 | 2,250 | - | 3,500 | 500 | 500 | 500 | 8,662 | 13,662 | 86,340 |
| *Horgan Water Treatment Plant* | 24,650 | (6,700) | 2,619 | 2,275 | 3,210 | 585 | (300) | (300) | (300) | (300) | 1,989 | 789 | 25,439 |
| *Island Water Treatment Plant* | 54,985 | (1,934) | (3,060) | 266 | (4,440) | (1,430) | 4,275 | (3,925) | (3,175) | 375 | (10,598) | (13,048) | 41,937 |
| *Watermain Rehabilitation* | 452,911 | (1,463) | 5,800 | 5,800 | 18,500 | - | - | - | - | - | 28,637 | 28,637 | 481,548 |
| *Watermain Replacement* | 816,184 | (13,617) | 14,383 | 1,220 | (7,370) | 6,875 | 7,000 | 7,000 | 8,000 | 8,000 | 1,491 | 31,491 | 847,675 |
| *Water Service Repair* | 167,985 | 131 | 950 | (20) | (298) | - | - | - | - | - | 763 | 763 | 168,748 |
| *Transmission Watermains* | 350,951 | (8,065) | (8,896) | 5,710 | 8,844 | 6,950 | (8,390) | (48,510) | (45,950) | (31,000) | 4,543 | (129,307) | 221,644 |
| *Storage and Treatment* | 86,184 | (9,918) | (1,644) | 550 | (2,425) | (2,225) | 6,075 | 4,925 | 1,525 | (4,975) | (15,662) | (8,112) | 78,072 |
| *Automated Meter Reading System (AMR)* | 132,606 | (2,507) | 1,125 | 6,525 | 5,000 | - | - | - | - | - | 10,143 | 10,143 | 142,749 |
| *Water Efficiency Plan* | 4,680 | (116) | - | - | - | - | - | - | - | - | (116) | (116) | 4,564 |
| *Business & Technical Improvements* | 50,568 | (1,228) | 4,863 | 5,332 | 5,143 | 2,727 | 2,160 | 3,850 | 5,440 | (1,360) | 16,837 | 26,927 | 77,495 |
| ***Wastewater Collection & Treatment & Stormwater Management*** | | | | | | | | | | | | | |
| *Ashbridges Bay Wastewater Treatment Plant (ABTP)* | 1,190,437 | (79,837) | (16,828) | 13,094 | 23,044 | 83,228 | 72,705 | 85,076 | 112,341 | 88,737 | 22,701 | 381,560 | 1,571,997 |
| *Highland Creek Wastewater Treatment Plant (HCTP)* | 388,918 | (42,334) | (5,417) | (3,973) | 17,300 | 39,011 | 21,950 | 2,447 | (730) | (1,208) | 4,587 | 27,046 | 415,964 |
| *Humber Wastewater Treatment Plant* | 427,217 | (29,696) | (1,660) | (5,765) | 2,216 | 4,623 | 2,345 | 4,290 | 14,550 | (29,370) | (30,282) | (38,467) | 388,750 |
| *Sewer System Rehabilitation* | 53,000 | (2,540) | (2,039) | 38,700 | 37,700 | - | - | - | - | - | 71,821 | 71,821 | 124,821 |
| *Sewer Replacement Program* | 405,620 | (2,151) | 9,435 | 4,608 | 1,096 | 603 | - | - | - | - | 13,591 | 13,591 | 419,211 |
| *Trunk Sewer & Sewage Pumping Stations* | 511,636 | (25,171) | 7,519 | (13,697) | (8,576) | 25,664 | 29,008 | 29,861 | 28,800 | 26,720 | (14,261) | 100,128 | 611,764 |
| *New Sewer Construction* | 98,000 | (1,000) | (3,000) | (4,000) | (2,000) | (2,000) | - | - | - | - | (12,000) | (12,000) | 86,000 |
| *Basment Flooding Relief* | 841,048 | (45,370) | (3,743) | 19,668 | 16,078 | 8,714 | 9,006 | (1,234) | (5,481) | (736) | (4,653) | (3,098) | 837,950 |
| *Wet Weather Flow* | 656,680 | (7,519) | 7,331 | (15,396) | (3,670) | 869 | (13,677) | (28,275) | (38,924) | 12,877 | (18,385) | (86,384) | 570,296 |
| *Yards & Facility Improvements* | 23,300 | 321 | 1,203 | - | - | - | (300) | (200) | (6,900) | (3,800) | 1,524 | (9,676) | 13,624 |
| ***Linear Infrastructure Engineering*** | 589,882 | (13,037) | (4,510) | 2,728 | (9,072) | (12,532) | (10,858) | (12,345) | (20,138) | (21,805) | (36,423) | (101,569) | 488,313 |
| ***Total Previously Approved*** | 7,687,122 | (295,137) | 11,031 | 64,242 | 102,400 | 161,719 | 124,649 | 43,310 | 49,708 | 42,805 | 44,255 | 304,727 | 7,991,849 |
| ***New*** | | | | | | | | | | | | | |
| ***Total New*** | - | - | - | - | - | - | | | | | - | - | - |
| **Total Changes** | **7,687,122** | **(295,137)** | **11,031** | **64,242** | **102,400** | **161,719** | **124,649** | **43,310** | **49,708** | **42,805** | **44,255** | **304,727** | **7,991,849** |

## 2014 – 2023 Recommended Capital Plan

**2014 – 2023 Capital Plan by Project Category**
**(In $000s)**

- The 10-Year Recommended Capital Plan for Toronto Water of $8.971 billion provides funding for Health and Safety projects of $38.092 million; Legislated projects of $1.016 billion; State of Good Repair (SOGR) projects of $5.045 billion; Service Improvement projects of $2.134 billion, and Growth Related projects of $736.390 million.
- Health and Safety projects represent approximately 0.4% or $38.092 million ($34.592 million over the first five years) of total funding in the 10-Year Recommended Capital Plan.
  - Capital funding for these projects is allocated primarily within the first 5 years of the 10-Year Capital Plan period in order to improve the safety of chemical storage and upgrade electrical systems at Ashbridges Bay, Humber and North Toronto wastewater treatment plants.
  - Funding for Health and Safety projects is minimal in the second 5 years of the 10-Year Capital Plan reflecting the anticipated completion of 3 of the 4 Toronto Water Health and Safety projects by 2019.
- Legislated projects account for $1.017 billion or 11.3% of total funding ($392.044 million over the first five years).
  - Legislated projects are required to comply with existing and emerging provincial legislation, including Bill 195 -Safe Drinking Water Act, Bill 81- Nutrient Management Act and Bill 72 – Water Opportunities and Water Conservation Act. These projects are also required to comply with the Federal government's Environmental Protection Act.
- The most recent regulations were enacted in July 2012 under the Fisheries Act and are the first federal regulations that specifically address municipal wastewater treatment plant effluents. The new federal Regulations impose regulatory requirements beyond those

already imposed by the Ontario Ministry of the Environment (MOE) resulting in additional financial impacts to the City.

  - The Ashbridges Bay Effluent System projects directly address the new federal Fisheries Act Wastewater System Effluent Regulations, representing approximately 57.5% or $584.310 million of the total legislated project funding included in the 10-Year Recommended Capital Plan.
  - Other examples of legislated projects are Sewage Pumping Station upgrades and District Water Service Repair projects.
  - Funding for Legislative projects is expected to increase in future years as regulations governing water supply and wastewater treatment continue to become more stringent.

- State of Good Repair (SOGR) projects continue to drive Toronto Water's capital program.
  - $2.339 billion in funding is for infrastructure renewal projects from 2014 to 2018, representing 57.7% of the 10-Year Capital Plan funding allocated to SOGR projects. Total SOGR funding will amount to $5.045 billion by 2023, or 56.2% of total funding for Toronto Water's 10-Year Capital Plan.
  - SOGR funding increases in 2015 to $468.473 million from $251.730 million in 2014, and averages approximately $540 million per year from 2016 to 2018.
  - SOGR funding continues at stable levels over the next five year period. SOGR funding trends ensure the continued reduction of Toronto Water's infrastructure renewal backlog from $1.641 billion in 2013 to $91.923 million by 2023.
- Service Improvement projects represent approximately 23.8% or $2.134 billion ($969.717 million over the first five years) of total funding in the 10-Year Capital Plan.
  - Capital funding for these projects increases consistently over the 10 year period, from $154.566 million in 2014 to $273.005 million in 2023, with an annual average funding of $213 million.
  - Funding for Service Improvement is primarily required for Basement Flooding, Wet Weather Flow Master Plan and Storm Water Management projects with increases in funding levels aligning to the objective of reducing the impact of extreme weather events.
- Growth projects represent approximately 8.2% or $736.390 million ($319.798 million over the first five years) of total funding in the 10-Year Capital Plan.
  - Funding for anticipated growth projects such as new and enhanced watermains and service connections is consistent over the 10-Year Capital Plan period, averaging $41.025 million per year. However, funding for planned significant stand alone projects will vary from year to year based on growth requirements. Examples of stand alone Growth Related projects included in the 10-Year Capital Plan are Lawrence Allan Revitalization Plan ($33.561 million) and Regent Park ($3.212 million) projects.

- During the first 5 years of the 2014 – 2023 Capital Plan period, annual funding for growth projects range from $30.792 million in 2014 to $92.730 million in 2017.
- Further increases in funding for growth projects continue over the 2019-2023 period, due to the planned upgrades of transmission of watermains.

**2014–2023 Capital Plan by Funding Source**
**(In $000s)**

Over the 10-year planning horizon, Toronto Water's Capital Plan continues to be 100% funded and does not require debenture financing.

- The 2014 Recommended Capital Budget and 2015-2023 Recommended Capital Plan is funded primarily from the Program's reserves, representing approximately 94.5% or $8.970 billion of total capital financing.
- Capital funding from Toronto Water reserves increases from $429.977 million in 2014 to $957.966 million in 2021. This increase in reserve funding coincides with the planned implementation schedules for large capital projects such as Ashbridges Bay Waste Water Treatment Plant disinfection and outfall construction projects, Highland Creek Biosolids project and Basement Flooding Relief projects.
- It should be noted that year 2014 represent the last year for previously approved annual water rate increases of 9% which were intended to address infrastructure renewal spending which has more than doubled over the last 5 years. After 2014, water rate increases and associated funding are planned at a lower rate (3%) than in the previous years (9% increases since 2006.
- Development Charges (DC) provide approximately 4.7% or $424.524 million of financing included the 10-Year Recommended Capital Plan. The DC funding estimates are based on revenue projections and development charge rates approved by Council at its meeting of October 8, 9 10 and 11, 2013.
- The use of Development Charge funding by increasing available funding has been maximized with funding increased by approximately $203.8 million over the 10 year period (from $174.6 million in the 2013-2022 Capital Plan). This will assist Toronto Water in

maintaining a relatively healthy reserve balance, without further reducing its capital program.

- Other revenues, such as capital cost sharing with York Region represent 0.8% or $69.726 million of total capital financing.

# Major Capital Initiatives by Category

## Summary of Major Capital Initiatives by Category (In $000s)

| | 2014 Budget | 2015 Plan | 2016 Plan | 2017 Plan | 2018 Plan | 2019 Plan | 2020 Plan | 2021 Plan | 2022 Plan | 2023 Plan | 2014 - 2023 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **State of Good Repair (Including H&S and Legislated Projects)** | | | | | | | | | | | |
| Watermain Rehabilitation | 30,981 | 40,371 | 45,502 | 63,337 | 49,976 | 55,119 | 60,267 | 65,419 | 70,576 | 74,037 | **555,585** |
| Watermain Replacement | 22,699 | 60,343 | 58,220 | 60,630 | 84,875 | 91,000 | 100,000 | 104,000 | 106,000 | 106,000 | **793,767** |
| Water Service Repair | 17,753 | 19,625 | 17,166 | 17,404 | 18,233 | 18,780 | 19,343 | 19,923 | 20,521 | 20,319 | **189,067** |
| Sewer System Rehabilitation | 19,460 | 28,961 | 38,700 | 37,700 | | | | | | | **124,821** |
| Sewer Replacement Program | 24,699 | 36,435 | 36,608 | 38,096 | 42,603 | 47,000 | 52,000 | 57,000 | 57,000 | 52,000 | **443,441** |
| Linear Infrastructure Engineering | 42,597 | 58,518 | 65,107 | 55,418 | 55,099 | 56,209 | 56,006 | 49,896 | 49,463 | 49,639 | **537,952** |
| Transmission Watermains | 22,661 | 23,152 | 23,775 | 31,071 | 29,100 | 32,720 | 15,260 | 24,150 | 19,755 | 13,550 | **235,194** |
| Clark Water Treatment Plant | 9,207 | 12,450 | 12,932 | 12,754 | 12,906 | 12,749 | 16,150 | 20,150 | 20,150 | 150 | **129,598** |
| Harris Water Treatment Plant | 5,610 | 10,110 | 7,170 | 5,750 | 11,650 | 11,500 | 8,650 | 8,500 | 8,650 | 8,500 | **86,090** |
| Horgan Water Treatment Plant | 1,348 | 3,454 | 7,085 | 4,435 | 1,085 | 200 | 200 | 200 | 200 | 200 | **18,407** |
| Island Water Treatment Plant | 1,596 | 4,817 | 5,836 | 3,915 | 6,775 | 12,625 | 3,775 | 375 | 525 | | **40,239** |
| Trunk Sewer System | 6,612 | 18,966 | 28,109 | 28,154 | 24,388 | 25,038 | 25,011 | 25,000 | 25,000 | 25,000 | **231,278** |
| Ashbridges Bay Wastewater Treatment Plant (ABTP) | 9,576 | 37,726 | 72,070 | 115,864 | 141,329 | 132,269 | 89,876 | 117,053 | 96,030 | 101,710 | |
| Liquid Treatment and Handling | 18,009 | 45,577 | 57,820 | 76,550 | 102,000 | 73,500 | 96,000 | 96,868 | 90,865 | 87,000 | **744,189** |
| Solids & Gas Handling | 1,640 | 4,250 | 20,000 | 28,510 | 30,310 | 17,040 | 17,030 | 15,100 | | | **133,880** |
| Efluent System | 502 | 4,649 | 13,800 | 44,410 | 82,610 | 94,889 | 64,167 | 94,583 | 89,000 | 95,700 | **584,310** |
| Rehabiliation | 4,226 | 12,305 | 22,028 | 34,322 | 25,909 | 17,840 | 6,179 | 4,870 | 4,530 | 3,510 | **135,719** |
| O&M Upgrades | 2,457 | 8,069 | 7,500 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | **35,526** |
| Odour Control | 751 | 8,453 | 8,742 | 6,122 | | | | | | | **24,068** |
| Highland Creek Wastewater Treatment Plant (HCTP) | 8,744 | 23,976 | 32,792 | 28,351 | 11,920 | 4,830 | | | | | **110,613** |
| Humber WWTP Liquid Treatment and Handling | 14,969 | 29,207 | 35,345 | 55,675 | 50,362 | 45,680 | 41,850 | 40,370 | 31,330 | 17,000 | **361,788** |
| | | | | | | | | | | | - |
| **Sub-Total** | **238,512** | **408,111** | **486,417** | **558,554** | **540,301** | **545,719** | **488,388** | **532,036** | **505,200** | **468,105** | **5,515,532** |
| **Service Improvements** | | | | | | | | | | | |
| Basment Flooding Relief | 39,698 | 81,610 | 105,292 | 102,374 | 100,976 | 106,500 | 101,500 | 97,500 | 102,500 | 102,500 | **940,450** |
| Don & Waterfront Trunk CSO | 1,192 | 6,589 | 12,347 | 30,347 | 40,347 | 41,000 | 35,800 | 31,000 | 35,000 | 92,000 | **325,622** |
| Highland Creek WWTP - Solids & Gas Handling | 2,044 | 9,580 | 7,823 | 10,110 | 32,120 | 36,120 | 33,647 | 30,270 | 15,042 | 1,197 | **177,953** |
| Ashbridges Bay WWTP - Liquid Treatment and Handling | | | | | 2,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | **52,000** |
| Storm Water Mangement End of Pipe Faciliteis | 700 | 6,800 | 6,650 | 6,550 | 9,590 | 14,410 | 20,130 | 31,680 | 15,500 | 30,000 | **142,010** |
| Implementation of the Wet Weather Flow Master Plan | 4,934 | 4,178 | 4,650 | 5,150 | 6,275 | 6,700 | 6,700 | 6,700 | 9,500 | 9,500 | **64,287** |
| Automated Meter Reading System (AMR) | 47,418 | 45,656 | 44,675 | 5,000 | - | | | | | | **142,749** |
| Waterfront Sanitary and Storm Water Infrastructure | 27,770 | | | | | | | | | | |
| SWM TRCA Funding | 3,970 | 4,069 | 4,171 | 4,275 | 4,382 | 4,491 | 4,604 | 4,719 | 4,837 | 4,958 | **44,476** |
| TRCA Critical Erosion | 7,000 | 7,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | **30,000** |
| **Sub-Total** | **134,726** | **165,482** | **187,608** | **165,806** | **197,690** | **221,221** | **214,381** | **213,869** | **194,379** | **252,155** | **1,919,547** |
| **Growth Related** | | | | | | | | | | | |
| New Service Connections | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 175,000 |
| New Sewer Construction | 0 | 4,000 | 8,000 | 10,000 | 10,000 | 12,000 | 14,000 | 14,000 | 14,000 | 14,000 | 100,000 |
| Keele Trunk Sewer Design & Construction | 500 | 500 | 500 | 1,000 | 5,000 | 8,000 | 10,000 | 10,000 | 25,000 | 25,000 | 85,500 |
| Horgan Water Treatment Plant Trunk Main Expansion | 102 | 800 | 6,850 | 18,850 | 18,500 | 17,510 | 3,010 | | | | 65,622 |
| Distirct Watermain Upgrades | 9,563 | 12,690 | 13,000 | 12,000 | 12,000 | 14,000 | 14,000 | 16,000 | 16,000 | 16,000 | 135,253 |
| Lawrence Allan Revitalisation Plan | | 6,471 | 3,354 | 18,078 | 2,127 | 3,531 | | | | | 33,561 |
| Regent Park Capital Contribution | | 859 | 330 | 132 | 745 | 287 | 115 | 420 | 162 | 162 | 3,212 |
| **Sub-Total** | **27,665** | **42,820** | **49,534** | **77,560** | **65,872** | **72,828** | **58,625** | **57,920** | **72,662** | **72,662** | **598,148** |
| **Total Expenditures by Category** | **400,903** | **616,413** | **723,559** | **801,920** | **803,863** | **839,768** | **761,394** | **803,825** | **772,241** | **792,922** | **8,033,227** |
| **Major IT Projects** | | | | | | | | | | | |
| Business System Infrastructure | 200 | 5,740 | 3,702 | 1,711 | 710 | 1,210 | 2,850 | 2,040 | 1,440 | 850 | 20,453 |
| Asset Management Implementation | | 500 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 500 | | 7,000 |
| Business IT Projects | 271 | 280 | 200 | 200 | | | | | | | 951 |
| Business Intelligence Initiatives | | 280 | | | | | | | | | |
| Backflow Inspection Portal | | | 200 | 200 | | | | | | | 400 |
| Disaster Recovery - DRP | 121 | | | | | | | | | | 121 |
| EDOCS | 150 | | | | | | | | | | 150 |
| **Total Major IT Projects** | **471** | **6,520** | **4,902** | **2,911** | **1,710** | **2,210** | **3,850** | **3,040** | **1,940** | **850** | **28,404** |

**Major Capital Initiatives**

The 10-Year Recommended Capital Plan supports Toronto Water's objectives and balances infrastructure renewal needs for State of Good Repair, new Service Improvement projects, and capacity to keep pace with population growth, while ensuring the delivery of water supply and wastewater treatment within an increasingly stringent regulatory framework.

While state of good repair projects remain a priority given the significant backlog in infrastructure renewal, (estimated at $1.641 billion at the end of 2013) considerable funding is still provided to support the implementation of the Wet Weather Flow Master Plan, Basement Flooding and growth related projects, some of which are recovered from Development Charges. Additional financial pressures arising from cost increases associated with the Highland Creek Biosolids Disposal Truck Loading Facility and the Ashbridges Bay Wastewater Treatment Plant Effluent UV Disinfection System, approved by Council in 2011, are also accommodated within the Plan by way of reducing SOGR project funding.

*State of Good Repair (SOGR), Health & Safety, & Legislated*

- A primary focus of the 2014-2023 Recommended Capital Plan is to undertake on-going state of good repair projects for linear infrastructure renewal ensuring the replacement or rehabilitation of aging watermains and sewers and investment in the City's aging wastewater treatment facilities. Approximately $5.045 billion or 56.2% of the total funding of $8.971 billion will be allocated to address the SOGR, health and safety and legislated projects over the next 10 years.
- State of Good Repair funding included in the 10-Year Recommended Capital Plan will address Toronto Water's SOGR backlog, currently estimated $1.641 billion by year end 2013 and projected to be reduced to $91.923 million by year-end 2023, if current funding allocated to State of Good Repair projects is not reduced over the next 10 years.
- The 2014 Recommended Capital Budget and 2015-2023 Recommended Capital Plan includes funding of $548.310 million to meet legislated requirements governing the Ashbridges Bay Wastewater Treatment Effluent System. Another $172.740 million is allocated to the legislated odour control projects at Highland Creek and Humber Wastewater treatment plants.

*Service Improvements*

- The updated Basement Flooding Relief Work Plan adopted in 2011, provided a multi-pronged (lot level, storm drainage, and sewer infrastructure improvements) adaptive management approach to reduce the risk of basement flooding experienced from more frequent extreme storms, capping cost to benefitting property at $32,000.
- Using this approach in all of the identified 34 chronic basement flooding areas, the 2014 Recommended Capital Budget and 2015-2023 Recommended Capital Plan will provide $962.008 million or 45.1% of total service improvement funding to implement the Basement Flooding Relief Work Plan.

- The 2014 Recommended Capital Budget and 2015-2023 Recommended Capital Plan provides additional funding of $1.164 billion for other service improvement projects such as:
  - The Water Meter Program which includes a systematic metering of the flat rate customers, the City-wide water meter replacement program coupled with the concurrent installation of automated meter reading technology was approved by Council in 2008 ($132.606 million). The project, anticipated to be completed by 2016, is ahead of its original schedule. As of August 31, 2013, 250,800, new water meters have been installed representing 53% of the installations of the total 470,000 water accounts. At project completion, approximately $35.0 million per year ($2.1 million higher than the original project forecast) will be generated through a combination of additional revenues and operating efficiencies. It is anticipated that this project will pay for itself in a less than 7 years.
  - Stormwater Management End of Pipe Facilities projects to address most of the storm sewer discharges to the waterfront and all but 9 of the 69 combined sewer overflow discharges in the City ($142.010 million). Included in the above amount is a $44.475 million funding contribution for the Toronto and Region Conservation Authority (TRCA) stream restoration and erosion control projects.
  - In order to assist the TRCA to mitigate some of the most critical erosion projects resulting from the July 8th, 2013 storm, Toronto Water's 10-Year Capital Plan includes an additional funding contribution of $26.0 million in its 10-Year Capital Plan above the $4 million already included in the 10-Year Capital Plan.
  - The implementation of the Wet Weather Flow Master Plan to reduce and ultimately eliminate, the adverse impacts of wet weather flow on the built and natural environments in order to achieve measurable improvements in the ecosystem health of the City's watersheds and waterfront, with an emphasis on improving water quality along the City's waterfront beaches ($64.287 million).

*Growth Related*

- Funding of $151.152 million is included in the 10-Year Recommended Capital Plan for the Trunk Watermain Expansion and Upgrade projects to increase the hydraulic capacity in the Toronto Water supply system, including the F.J. Horgan Filtration Plant. Many of these projects are cost shared with the Region of York.
- The 2014-2023 Recommended Capital Plan allocates $410.253 million in funding for the New Sewer Construction, New Service Connection and Watermain Upgrade projects to provide the necessary servicing capacity for the projected population growth and for the installation of service connections for new homes and developments.

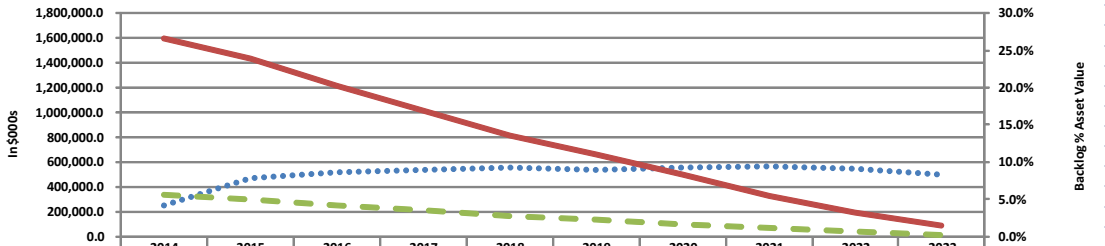
*Major IT Projects*

The 10-Year Recommended Capital Plan includes funding for information technology projects of $28.404 million. These projects include:

- Toronto Water Business System Infrastructure projects ($20.453 million).
- Asset Management Implementation project ($7.0 million).
- Business Intelligence Initiatives including backflow portal and disaster recovery related projects ($0.951 million).

## State of Good Repair (SOGR) Backlog

**SOGR Funding & Backlog**
**(In $000s)**




| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|---|---|---|---|
| SOGR Funding | 251,730.0 | 468,473.0 | 516,005.0 | 541,288.0 | 561,705.0 | 534,495.0 | 557,172.0 | 568,823.0 | 543,213.0 | 502,286.0 |
| Accumulated Backlog Est. | 1,599,445.0 | 1,429,846.0 | 1,217,630.0 | 1,014,926.0 | 813,678.0 | 658,379.0 | 501,027.0 | 332,980.0 | 191,504.0 | 91,923.0 |
| Backlog % of Asset Value | 5.6% | 5.0% | 4.3% | 3.5% | 2.8% | 2.3% | 1.7% | 1.1% | 0.6% | 0.3% |

The 10-Year Recommended Capital Plan dedicates $2.339 billion to SOGR spending in the first five years of the Plan (excluding funding carried forward from 2013) and $2.706 billion over the last five years, which on average is $505 million annually.

- The replacement value of Toronto Water's assets is estimated at $28.256 billion incorporating both linear (watermains, sewers) and facility/plant (water treatment plants, wastewater treatment plants, pumping stations) assets. Linear infrastructure assets represent approximately 74% of the total asset value at $20.985 billion, while facility/plant assets account for the remaining 26% or $7.271 billion.
- At the end 2013, Toronto Water will have a backlog of state of good repair work for linear and plant infrastructure renewal estimated at $1.641 billion, representing 5.8% of its asset replacement value. Approximately 61% or $1.008 million of the backlog relates to linear infrastructure, with the remaining 39% or $0.633 million representing facilities.
- In 2013 new state of good repair asset issues have emerged that now require trunk sewer renewal program ($140.0 million) and wastewater treatment plants digester refurbishment ($18.800 million).
- The backlog estimate for the various facilities is based on detailed assessment/surveys undertaken in 2005 and 2008. Through these assessments, the facility backlog in 2008 was established as $520 million. In addition, an annual renewal need of $140 million was defined based on the forecasted life expectancy of various components of the facilities and their appraised replacement costs.

- The backlog estimate for linear infrastructure was established based on a probability model forecasting failure rates based on defined life expectancy ranges for a categorized list of pipes. This backlog was estimated to be $1.25 billion with an additional annual renewal rate of $111.0 million.
- The above linear infrastructure and facilities State of Good Repair backlog and annual renewal need estimates continue to be periodically updated to reflect changes in unit rates for replacement and changing condition of the asset.
- The 10-Year Recommended Capital Plan dedicates $5.045 billion ($2.706 billion during the first five years) or $505 million on average annually, to undertake state of good repair.
- Significant investments in water and wastewater infrastructure renewal projects will reduce the backlog of SOGR work to $813.678 million by year-end 2018, representing 2.8% of the asset replacement value. By year-end 2023, Toronto Water will have nearly addressed the Program's SOGR backlog, estimated at $91.923 million or 0.3% of the asset replacement value, ***if SOGR capital funding is not reduced over the next ten years.***
- State of good repair work is planned across all Toronto Water assets and is prioritized based on the criticality of the asset, the extent of redundancy built into the system in case of failure, the impact of a failure and the coordination of projects to avoid conflicts and reduce construction impact to the public. Method of construction is also factored in to reduce the backlog and trenchless technologies are used where feasible to reduce construction impact and overall cost of the project. All asset categories are currently being funded for SOGR purposes.
- The state of good repair backlog by asset category is presented in the table below:

**SOGR Backlog by Asset Category**
**(In $000s)**

Toronto Water

| Total | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| State of Good Repair Funding | 303,457 | 333,799 | 468,473 | 516,005 | 541,287 | 561,705 | 534,496 | 557,173 | 568,823 | 543,213 | 502,286 |
| Accumulated Backlog Est. (yr end) | 1,640,966 | 1,599,445 | 1,429,846 | 1,217,630 | 1,014,926 | 813,678 | 658,379 | 501,027 | 332,980 | 191,504 | 91,923 |
| Backlog % of Asset Value | 5.81% | 5.64% | 5.03% | 4.27% | 3.55% | 2.83% | 2.26% | 1.71% | 1.12% | 0.64% | 0.30% |
| Asset Value | 28,255,795 | 28,360,593 | 28,435,825 | 28,516,294 | 28,606,075 | 28,749,369 | 29,149,244 | 29,293,369 | 29,674,494 | 29,754,369 | 31,033,369 |
| **Facilities/Plants** | | | | | | | | | | | |
| State of Good Repair Funding | 114,975 | 114,050 | 190,050 | 220,263 | 238,203 | 249,506 | 192,289 | 193,434 | 197,233 | 165,550 | 195,750 |
| Accumulated Backlog Est. (yr end) | 632,908 | 660,393 | 611,877 | 533,149 | 436,480 | 328,508 | 277,753 | 225,854 | 170,155 | 146,139 | 91,923 |
| Backlog % of Asset Value | 8.70% | 9.01% | 8.34% | 7.27% | 5.94% | 4.43% | 3.60% | 2.93% | 2.12% | 1.82% | 0.99% |
| Asset Value | 7,270,723 | 7,329,578 | 7,336,602 | 7,338,102 | 7,351,102 | 7,418,665 | 7,710,665 | 7,713,665 | 8,021,665 | 8,024,665 | 9,248,665 |
| **Linear Infrastructure** | | | | | | | | | | | |
| State of Good Repair Funding | 188,482 | 219,749 | 278,424 | 295,742 | 303,084 | 312,199 | 342,207 | 363,739 | 371,590 | 377,663 | 306,536 |
| Accumulated Backlog Est. (yr end) | 1,008,058 | 939,053 | 817,968 | 684,482 | 578,446 | 485,170 | 380,626 | 275,173 | 162,825 | 45,365 | |
| Backlog % of Asset Value | 4.80% | 4.47% | 3.88% | 3.23% | 2.72% | 2.27% | 1.78% | 1.28% | 0.75% | 0.21% | 0.00% |
| Asset Value | 20,985,073 | 21,031,015 | 21,099,223 | 21,178,192 | 21,254,973 | 21,330,705 | 21,438,580 | 21,579,705 | 21,652,830 | 21,729,705 | 21,784,705 |

- By year-end 2013, the accumulated state of good repair backlog for linear infrastructure will be $1.008 billion or 4.8% of its replacement value; and facility/plant assets accumulated state of good repair backlog will be valued at $0.633 billion, or 8.7% of their replacement value.

- While both categories of assets have historically received funding for state of good repair projects, the accumulated backlog of projects for linear infrastructure has been addressed at a higher rate, resulting in a proportionally lower backlog representing 4.8% of its replacement value at the end of 2013, compared to 8.7% for facilities.
- Toronto Water is planning a significant investment in the linear renewal program over the next 10 years. Approximately $324 million annually will be dedicated to linear infrastructure renewal needs for a total of $3.241 billion ($1.409 billion over the first five years), completely eliminating the state of good repair backlog for this category of assets by year-end 2023.
- The state of good repair of facilities/plants will be addressed by annual funding of $189 million. Over the 10 year period, approximately $1.885 billion ($1.012 billion during the first 5 year period) in funding will be invested to address a significant portion of the accumulated backlog of projects. By the end of 2023, accumulated state of good repair projects for this category of assets is estimated at $91.923 million or 0.30% of their replacement value (0.6% of the total asset replacement value).
- To address the greater number of accumulated state of good repair backlog projects for facilities/plant assets, the 10 Year Recommended Capital Plan allocates a larger portion of funding to this category of assets during the first five years ($202 million annually) compared to the second five year period ($189 million annually).
- At the same time, funding for linear infrastructure state of good repair projects will have the opposite trend; annual funding of $282 million will be invested during the first five year period, increasing to $352 million over the second five year period. This reflects previous levels of SOGR funding prior to having to accommodate emerging priorities with Toronto Water Capital Program.
- The above backlog reduction forecast can be detrimentally impacted if water consumption/revenues decline beyond the current forecasted declines, if replacement cost increase beyond the current rate of inflation or if other projects take priority over sustaining planned state of good repair backlog program.
- Refer to PART IV: ISSUES FOR DISCUSSION in this document for a more detailed discussion on the cause of Toronto Water's current SOGR backlog, the impact that this backlog has on residents, businesses and visitors of the City and infrastructure renewal projects that will address the backlog over the 2014 – 2023 Capital Plan period**.**

## 10-Year Capital Plan: Impact on the Operating Budget

**Operating Impact Summary**
**(In $000s)**

| Program Costs, Revenues and Net ($000s) | 2014 Rec. Budget | 2015 Plan | 2016 Plan | 2017 Plan | 2018 Plan | 2019 Plan | 2020 Plan | 2021 Plan | 2022 Plan | 2023 Plan | 2014-2023 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2014 Recommended Capital Budget** | | | | | | | | | | | |
| Program Gross Expenditure | 4,432.0 | (370.0) | 100.0 | 5,660.0 | 5,823.0 | 250.0 | | | | | 15,895 |
| Program Revenue | | | | | | | | | | | |
| Program Costs (Net) | 4,432 | (370) | 100 | 5,660 | 5,823 | 250 | | | | | 15,895 |
| Approved Positions | 5.0 | 5.0 | 1 | 4 | 2 | 2 | | | | | 19 |
| **Recommended 10-Year Capital Plan** | | | | | | | | | | | |
| Program Gross Expenditure | | | 75 | 49 | 52 | 115 | 2,504 | 50 | | | 2,845 |
| Program Revenue | | | | | | | | | | | - |
| Program Costs (Net) | | | 75 | 49 | 52 | 115 | 2,504 | 50 | | | 2,845 |
| Approved Positions | | | | 1 | | 1 | | 1 | | | 3 |
| **Total** | | | | | | | | | | | |
| Program Gross Expenditure | 4,432 | (370) | 175 | 5,709 | 5,875 | 365 | 2,504 | 50 | | | 18,740 |
| Program Revenue | | | | | | | | | | | - |
| Program Cost (Net) | 4,432 | (370) | 175 | 5,709 | 5,875 | 365 | 2,504 | 50 | | | 18,740 |
| Approved Positions | 5.0 | 5.0 | 1.0 | 5.0 | 2.0 | 3.0 | - | 1.0 | | | 22.0 |

The 10-Year Recommended Capital Plan will increase future year Operating Budgets by a total of $18.740 million net over the 2014 – 2023 period, as shown in the table above. Approved permanent positions will increase by 22 over the 10-year time frame. This funding is required to sustain the following:

- As a result of previously approved projects, new buildings and processes are coming on line in 2014. Toronto Water requires additional chemicals, energy and utilities, as well as contracted services in the amount of $4.432 million in 2014, $0.230 million in 2015, $0.100 million in 2016, $5.660 million in 2017, $5.823 million in 2018, and $0.250 million in 2019 for the F.J. Horgan Water Treatment Plant, Ashbridges Bay, Humber and Highland Creek Wastewater Treatment (WTT) plants, Sewer Replacement Program and the Asset Management System sustainment. Savings of $0.600 million will be generated in 2015 as a result of cogeneration facility upgrades at the Humber WWT plant.
- In addition to the above, there will be operating cost increases in the total amount of $2.845 million ($0.075 million in 2016, $0.049 million in 2017, $0.052 million in 2018, $0.115 million in 2019, $2.504 million in 2020 and $0.050 million in 2021), emanating from the future Storm Water Management End of Pipe Facilities projects at Etobicoke and Scarborough waterfronts and Wet Weather Flow Master Plan, requiring one new position in each of those years.

Net operating impacts by capital projects are identified in the following table.

## Net Operating Impact by Project
## (In $000s)

| Project | 2014 Rec. Budget | | 2015 Plan | | 2016Plan | | 2017 Plan | | 2018 Plan | | 2014 - 2018 Capital Budget Plan | | 2019 - 2023 Capital Plan | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $000s | Positions | $000s | Positions | $000s | Positions | $000s | Positions | $000s | Positions | $000s | Positions | $000s | Positions |
| **Previously Approved Projects** | | | | | | | | | | | | | | |
| FJ Horgan WTP Expansion | 1,249.0 | | | | | | | | | | 1,249 | | | |
| Engineering Studies - Corosion Control | 1,083.0 | | | | | | | | | | 1,083 | | | |
| Ashbridges Bay Process & Equipment | - | | 100.0 | | | | | | | | 100 | | | |
| Ashbridges Bay WWTP "D" Building and Biofilter | 284.0 | 3 | | | | | | | | | 284 | 3 | | |
| Humber Treatment Plant - Chlorine Facility Upgrades | 100.0 | | | | | | | | | | 100 | | | |
| Humber Treatment Plant - Cogeneration Upgrades | 93.0 | 1 | (600.0) | 4 | | | | | | | (507) | 5 | | |
| Highland Creek WWTP Process and Facility Upgrades - Biosolids Treatment Upgrades | | | | | | | 5,220 | | 5,530 | | 10,750 | | | |
| Highland Creek WWTP Process and Facility Upgrades - Corosion Control | 100.0 | | | | | | | | | | 100 | | | |
| Highland Creek WWTP Process and Facility Upgrades - Solids & Gas Handling | 1,690.0 | 8 | | | | | | | | | 1,690 | 8 | | |
| Laboratory Equipment (Warranty Expiry) | 20.0 | | 30.0 | | | | | | | | 50 | | | |
| Metering and Meter Reading Systems | (187.0) | (7) | - | | | | | | | | (187) | (7) | | |
| Basement Flooding Relief | | | 50.0 | 1 | 100 | 1 | 100 | 1 | 53 | | 303 | 3 | | |
| SWM End of Pipe Facilities - North Toronto | | | 50.0 | | | | | | | | 50 | | | |
| Sewer Replacement Program | | | | | | | 340 | 3 | 240 | 2 | 580 | 5 | | |
| Business IT Projects - WMS Project & Implementation | | | | | | | | | | | | | 250 | 2 |
| **New Projects - Future Year** | | | | | | | | | | | | | | |
| SWM End of Pipe Facilities - Etobicoke Waterfront | | | | | | | | | | | | | 50 | 1 |
| SWM End of Pipe Facilities - Scarborough Waterfront | | | | | | | 49 | 1 | 52 | | 101 | 1 | | |
| Wet Weather Flow Master Plan | | | | | | | | | | | | | 115 | 1 |
| Ashbridges Bay WWT-Effluent System | | | | | | | | | | | | | 2,504 | |
| Ashbridges Bay WWT- Liquid Treatment and Handling | | | | | 75 | | | | | | 75 | | | |
| **Total Recommended (Net)** | **4,432** | **5** | **(370)** | **5** | **175** | **1** | **5,709** | **5** | **5,875** | **2** | **15,821** | **18** | **2,919** | **4** |

Toronto Water has identified 22 new positions arising from approval of the 2014-2023 Capital Plan. Additional positions will be required to support and maintain the following:

- Ashbridges Bay Wastewater Treatment Plan Odour Control - D Building Treatment & Biofilter. This project will result in additional state of the art facilities which include significant new mechanical, electrical and instrumentation equipment requiring 3 permanent positions in 2014 to ensure efficiency and reliability of the new assets ($0.284 million).
- Highland Creek Wastewater Treatment Plant requires 8 new permanent positions in 2014 for its new waste thickening and dewatering facility (0.754 million).
- Humber Creek Wastewater Treatment Plant is in a need of one permanent position in 2014 ($0.093 million) and additional 4 permanent positions in 2015 ($0.400 million) to ensure efficiency and reliability of upgraded digesters and cogeneration facility.
- There will be a net reduction of 7 temporary positions in 2014 due to the implementation of automated meter reading system (0.397 million)

- The Basement Flooding Relief Plan will require one new permanent position at cost of $0.100 million in each of 2015, 2016 and 2017 year. These positions will ensure the ongoing operational and maintenance program to reduce inflow and infiltration into the sanitary system, which includes sealing of manhole covers, manhole rehabilitation, sanitary sewer relining and cross connection elimination.
- One new position will be required in 2017 and 2021 for new facilities emanating from the future Storm Water Management End of Pipe Facilities projects at Scarborough and Etobicoke respectively.
- New sanitary and stormwater infrastructure will require 3 new positions in 2017 ($0.300 million) and 2 additional new positions in 2018 ($0.200 million).
- Future Wet Weather Flow Master Plan projects will result in a requirement for one new permanent position in 2019 ($0.115 million).
- Another 2 positions will be required to sustain the new Work Management System in 2019 ($0.250 million).

### Capital Project Delivery: Temporary Positions

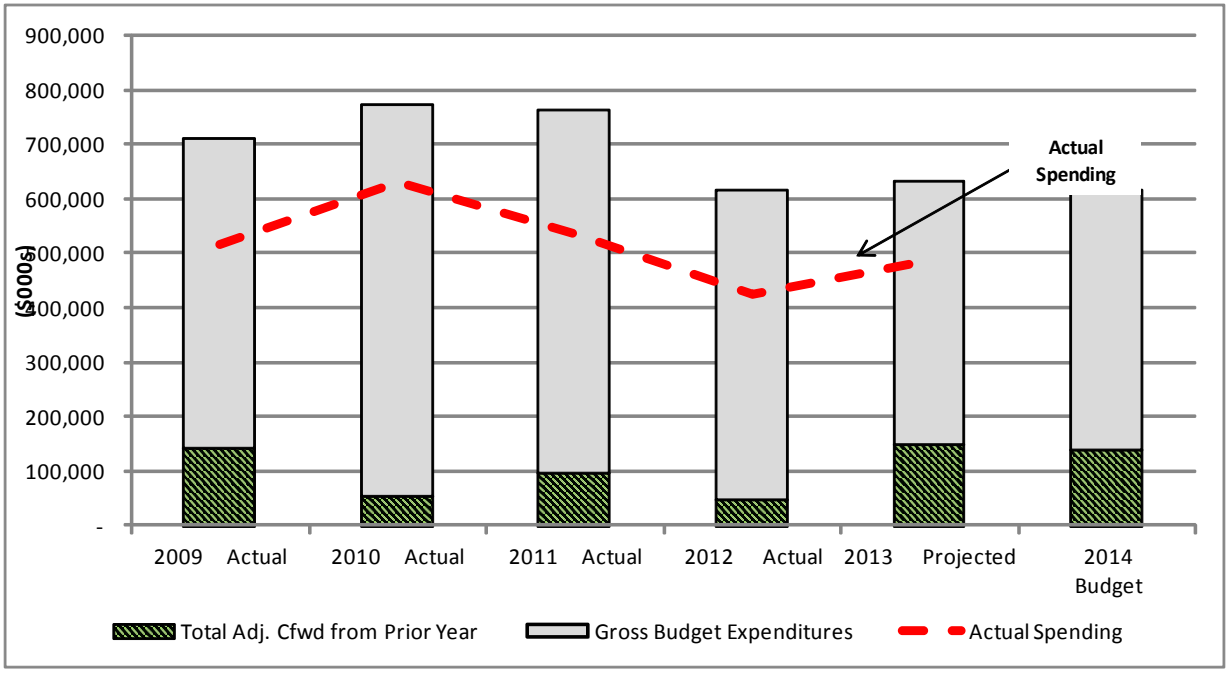
Approval of the 2014 – 2023 Recommended Capital Budget and Plan will result in a requirement for 6 new temporary capital project delivery positions to implement the Work Management System, completion of which is anticipated in 2019, as outlined in the table below:

| Position Title | CAPTOR Project Number | # of Positions | Project Delivery | | Salary and Benefits $ Amount( $000s) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Start Date | End Date (m/d/yr) | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 - 2023 |
| Manager Work Management System | | 1.0 | | | 111.4 | | | | | 111.4 |
| Support Assistant B | WAT906334-23 | 1.0 | | | 60.2 | | | | | 60.2 |
| BM Analyst | & WAT 907946-7 | 1.0 | | | 90.8 | | | | | 90.8 |
| ETT1 | | 1.0 | | | 74.6 | | | | | 74.6 |
| System Integrator 1 | | 2.0 | | | 175.2 | | | | | 175.2 |
| **Total** | | **6.0** | | | **512.3** | | | | | **512.3** |

- It is recommended that Council approve these 6 temporary capital positions for the delivery of the above capital projects / sub-projects and that the duration for each temporary position does not exceed the life of the funding of its respective capital projects / sub projects.

## Capacity to Spend

**Capacity to Spend – Budget vs. Actual**
**(In $000s)**




Toronto Water's spending capacity over the previous five years, from 2008 to 2012, averaged $485.244 million or 83% of its capital budget of $587.376 million. The above average spending

rates of 90.3% and 87.6% were achieved in 2009 and 2010 respectively, reflecting the enhanced capital project activity due to the Federal Infrastructure Stimulus Program, as well as large stand-alone projects such as J.F.Horgan Filtration Plant and Milliken and Dufferin reservoir expansions. Increased capital spending in those two years depleted capital financing reserves, requiring Toronto Water to limit and scrutinize all new capital expenditure, in order not to exceed their average 80% spending rate in 2011.

Toronto Water's 2013 Approved Capital Budget was 38.4% or $258.875 million spent as of September 30, 2013. Toronto Water is projecting capital expenditures of 72% or $485.488 million at year-end. The Rate Model completion rate target for 2013 is 85% for projects funded from the Toronto Water capital financing reserves.

The lower than expected year-to-date spending rate was driven by the complexity of the engineering and design of the linear infrastructure which led to delayed tendering and awarding of the associated contracts. In addition to this, tenders for stand alone water main projects were delayed pending the finalization of crossing agreements with Metrolinx. Other contributing factors include the prevailing ground/site conditions as a result of the persistent wet weather or assessment results.

The 2014 Recommended Capital Budget of $613.270 million, including the unspent funding of $138.057 million carried forward from 2013, is in line with historic average budgets.

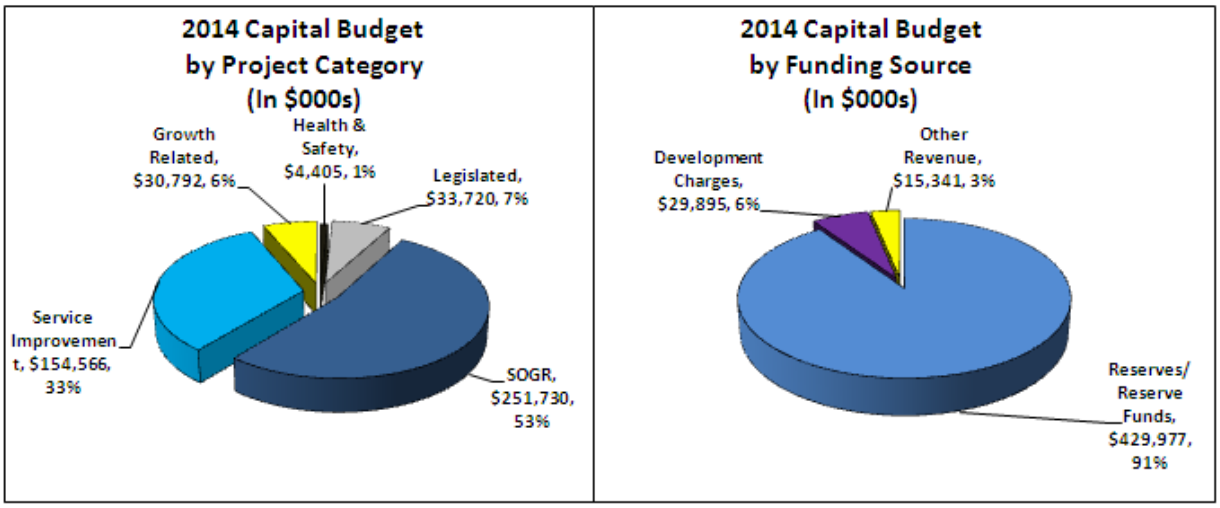
The projected cash flows included in the 2014-2023 Capital Plan reflect the fact that majority of the projects requiring large capital funding, such as Ashbridges Bay WWTP disinfection and outfall construction projects, Highland Creek Biosolids project and Basement Flooding Relief projects, are scheduled for implementation between 2016-2019.

Based on a review of spending experience, adjustments to cashflow funding for a number of projects have been made in 2014:

- Watermain Replacement and Rehabilitation - $15.080 million deferred to future years.
- Asbridges Bay Wastewater Treatment Plant - $79.837 million deferred to future years.
- Highland Creek Wastewater Treatment Plant - $42.334 million deferred to future years.

# IV: 2014 RECOMMENDED CAPITAL BUDGET

## 2014 Capital Budget by Project Category and Funding Source




*Note: Excludes carry forward funding*

The 2014 Recommended Capital Budget, excluding funding carried forward from 2013 to 2014, requires new 2014 cash flow funding of $475.213 million.

- Health and Safety projects represent $7.603 million or 1% of the 2014 Recommended Capital Budget and include building and electrical upgrades at wastewater treatment plants.
- Funding of $33.720 million or 7% of the 2014 Recommended Capital Budget is allocated to Legislated projects. The most significant project in 2014 is the District Water Service Repair project which includes Lead Water Service Replacement, accounting for approximately 46% of the funding for this category of projects in 2014.
- State of Good Repair projects account for $251.730 million or 53% of the 2014 Recommended Capital Budget providing funding to address emerging SOGR requirements as well as $41.521 million to address 2.5% of the current SOGR backlog of $1.641 billion. Approximately $98.210 million or 39% of the total 2014 SOGR funding will be dedicated to the watermain and sewer replacement and rehabilitation projects.
- Service Improvement projects represent 33% or $154.566 million of the total new cash flow funding for 2014. Examples of service improvement projects include biosolids treatment and disposal, wastewater treatment plant odour control, Water Metering Program, Basement Flooding Relief Work Plan, elements of the Wet Weather Flow Master Plan and, wastewater treatment plant optimization.
- Growth projects account for 6% or $30.792 million of recommended funding for 2014 and include initiatives for improving water efficiency, reducing water loss and expansion projects required for future water supply and wastewater treatment demand.

- Toronto Water's 2014 Recommended Capital Budget continues to be self-sustaining and does not require debenture financing. It does not impact the municipal property tax levy.
  - The 2014 Recommended Capital Budget is funded primarily from the Program's reserves, which accounts for approximately 91% or $429.977 million of total financing.
  - Development charges provide funding of $29.895 million or 6% of the 2014 Recommended Capital Budget.
  - Capital cost sharing with York Region for construction of new water and sewer connections, represent 3% or $15.341 million of 2014 funding.

**2014 Recommended Cash Flow & Future Year Commitments**
**(In $000s)**

| | 2014 New Cash Flow | 2014 Total Cash Flow | 2013 Carry Forwards | Total 2014 Cash Flow (Incl 2012 C/Fwd) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Expenditures** | | | | | | | | | | | | | | |
| Previously Approved | 657,198 | 657,198 | 138,057 | 795,255 | 466,680 | 301,777 | 208,576 | 103,774 | 100,886 | 100,595 | 76,240 | 70,880 | | 2,224,663 |
| Change in Scope | (285,397) | (285,397) | | (285,397) | 107,277 | 242,089 | 244,002 | 175,680 | 78,304 | (13,284) | (10,909) | (14,201) | 52,152 | 575,713 |
| New | | - | | - | | | | | | | | | - | - |
| New w/Future Year | 103,412 | 103,412 | | 103,412 | 109,593 | 82,795 | 70,213 | 14,910 | 6,910 | 4,550 | 300 | 280 | | 392,963 |
| **Total Expenditure** | 475,213 | 475,213 | 138,057 | 613,270 | 683,550 | 626,661 | 522,791 | 294,364 | 186,100 | 91,861 | 65,631 | 56,959 | 52,152 | 3,193,339 |
| **Financing** | | | | | | | | | | | | | | |
| Debt/CFC | | | | | | | | | | | | | | |
| Reserves/Res Funds | 429,977 | 429,977 | 135,049 | 565,026 | 642,410 | 595,316 | 489,920 | 272,003 | 171,026 | 88,918 | 65,135 | 56,784 | 51,977 | 2,998,515 |
| Development Charges | 29,895 | 29,895 | 2,386 | 32,281 | 28,984 | 22,926 | 26,656 | 16,356 | 9,390 | 1,966 | 496 | 175 | 175 | 139,405 |
| Other | 15,341 | 15,341 | 622 | 15,963 | 12,156 | 8,419 | 6,215 | 6,005 | 5,684 | 977 | - | - | - | 55,419 |
| **Total Financing** | 475,213 | 475,213 | 138,057 | 613,270 | 683,550 | 626,661 | 522,791 | 294,364 | 186,100 | 91,861 | 65,631 | 56,959 | 52,152 | 3,193,339 |

Toronto Water's 2014 Recommended Capital Budget is $613.270 million, including funding carried forward from 2013 into 2014 of $138.057 million. It includes 2014 commitment funding for previously approved projects of $657.198 million, and ($181.985 million) for new/change in scope projects.

- Over and above $1.429 billion already committed for previously approved projects from 2015 to 2022, approval of the 2014 Recommended Capital Budget will result in future year funding commitments for new/change in scope projects of $216.870 million in 2015; $324.884 million in 2016; $314.215 million in 2017; $190.590 million in 2018, $85.214 million in 2019, ($8.734 million) in 2020; ($10.609) million in 2021, ($13.921) million in 2022, and $52.152 million in 2023.
- The high rate of commitment to future year funding reflects the nature of Toronto Water's capital program which includes many multi-year, multi-million dollar projects such as the Water Metering Program; Horgan Water Treatment Plant Expansion; Transmission Watermains; Wastewater Treatment Plant Upgrade Projects; Basement Flooding Relief Work Plan and Watermain Replacement. The use of multi-year contracts has allowed Toronto Water to increase its capital delivery rate.

# 2014 Recommended Capital Project Highlights

## 2014 Recommended Capital Project Highlights
## (In $000s)

| Project | Total Project Cost | 2014 | 2015 | 2016 | 2017 | 2018 | 2014 - 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2014 - 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASHBRIDGES BAY T.P. - III YR2004 | 3,540 | 1,130 | 1,530 | 50 | 30 | | 2,740 | | 400 | 400 | | | **3,540** |
| ASHBRIDGES BAY T.P. YR2006 | 4,686 | 825 | 1,635 | 2,226 | | | 4,686 | | | | | | **4,686** |
| ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | 16,155 | 1,120 | 3,120 | 4,105 | 2,560 | 2,200 | 13,105 | 1,000 | 50 | | | | **14,155** |
| ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM | 585,021 | 1,213 | 2,949 | 3,500 | 4,410 | 1,610 | 13,682 | 889 | 167 | 83 | | | **14,821** |
| ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | 806,533 | 28,353 | 45,577 | 57,820 | 75,550 | 80,000 | 287,300 | 51,500 | 56,000 | 54,868 | 48,865 | 45,000 | **543,533** |
| ASHBRIDGES BAY WWTP - O&M UPGRADES | 36,788 | 3,719 | 8,069 | 5,000 | | | 16,788 | | | | | | **16,788** |
| ASHBRIDGES BAY WWTP - ODOUR CONTROL | 25,614 | 2,297 | 8,453 | 8,742 | 6,122 | | 25,614 | | | | | | **25,614** |
| ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING | 135,840 | 3,600 | 4,250 | 15,000 | 13,510 | 10,310 | 46,670 | 2,040 | 2,030 | 100 | | | **50,840** |
| ASHBRIDGES BAY WWTP REHAB | 168,439 | 16,684 | 23,452 | 24,608 | 26,846 | 16,695 | 108,285 | 10,085 | 1,869 | 560 | 220 | 200 | **121,219** |
| ASHRIDGES BAY TP YR2005 | 14,469 | 4,357 | 5,233 | 3,172 | 1,008 | 699 | 14,469 | | | | | | **14,469** |
| AVENUE ROAD TRUNKMAIN REPLACEMENT | 3,835 | 335 | 1,500 | 2,000 | | | 3,835 | | | | | | **3,835** |
| BASEMENT FLOODING RELIEF | 962,008 | 61,256 | 81,610 | 105,292 | 102,374 | 52,525 | 403,057 | 39,500 | 9,500 | 5,500 | 5,500 | 5,500 | **468,557** |
| BUSINESS IT PROJECTS | 6,535 | 1,505 | 1,455 | 1,425 | 1,175 | 975 | 6,535 | | | | | | **6,535** |
| BUSINESS SYSTEM INFRASTRUCTURE - PW | 39,983 | 8,830 | 10,931 | 3,526 | 1,918 | 792 | 25,997 | | | | | | **25,997** |
| CLARK RESIDUE MGMT. FACILITIES | 650 | 200 | 450 | | | | 650 | | | | | | **650** |
| CONVEYANCE CONTROLS - REPLC & REHAB | 85 | 65 | 20 | | | | 85 | | | | | | **85** |
| D2/D4 TRUNK WATERMAIN UPGRADES | 55,925 | 1,300 | | | | | 1,300 | | | | | | **1,300** |
| DIST SEWER REHAB OPS YR2005 | 500 | 300 | 188 | 12 | | | 500 | | | | | | **500** |
| DIST W/M REHABILITATION | 565,283 | 40,679 | 40,371 | 39,500 | 35,000 | | 155,550 | | | | | | **155,550** |
| DIST W/M REPLACEMENT | 941,721 | 44,963 | 31,583 | 3,600 | 1,000 | 875 | 82,021 | | | | | | **82,021** |
| DIST WATER SERVICE REPAIR | 189,463 | 18,149 | 19,625 | 9,250 | 9,250 | | 56,274 | | | | | | **56,274** |
| DISTRICT WATERMAINS - NEW | 4,544 | 194 | 350 | 500 | | | 1,044 | | | | | | **1,044** |
| DON & WATERFRONT TRUNK CSO | 326,262 | 1,832 | 6,589 | 11,347 | 10,347 | 10,347 | 40,462 | 11,000 | 5,800 | | | | **57,262** |
| DOWNTOWN W/M ENHANCEMENT | 40,705 | 19,385 | 14,298 | 7,015 | 7 | | 40,705 | | | | | | **40,705** |
| EMERY CREEK POND | 5,510 | 2,410 | 2,550 | 550 | | | 5,510 | | | | | | **5,510** |
| ENGINEERING | 403,522 | 38,898 | 9,273 | 13,561 | 11,824 | 10,890 | 84,446 | 8,320 | 5,252 | 2,250 | 1,400 | 1,130 | **102,798** |
| ENGINEERING STUDIES | 9,329 | 6,978 | 1,751 | 50 | | | 8,779 | | | | | | **8,779** |
| EQUIPMENT REPLACEMENT & REHABILITATION | 10,735 | 730 | 2,520 | 2,330 | 3,155 | 2,000 | 10,735 | | | | | | **10,735** |
| FJ HORGAN W.T.P. R&R | 18,967 | 1,908 | 3,454 | 6,200 | 3,550 | 200 | 15,312 | | | | | | **15,312** |
| HARRIS W.T.P. R&R | 95,263 | 6,033 | 9,910 | 5,670 | 250 | | 21,863 | | | | | | **21,863** |
| HIGHLAND CREEK T.P. - IV YR2004 | 271 | 205 | 63 | 3 | | | 271 | | | | | | **271** |
| HIGHLAND CREEK TP YR2005 | 885 | 250 | 317 | 313 | | 5 | 885 | | | | | | **885** |
| HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV | 11,998 | 1,498 | 3,500 | 4,000 | 3,000 | | 11,998 | | | | | | **11,998** |
| HIGHLAND CREEK WWTP - ODOUR CONTROL | 112,455 | 5,460 | 15,510 | 15,480 | 15,800 | 15,100 | 67,350 | 10,005 | | | | | **77,355** |
| HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING | 159,894 | 2,850 | 7,300 | 7,047 | 3,000 | 3,000 | 23,197 | 2,000 | 250 | 250 | | | **25,697** |
| HIGHLAND CREEK WWTP UPGRADES | 140,716 | 15,995 | 25,256 | 31,415 | 27,211 | 14,230 | 114,107 | 6,650 | 397 | 20 | 42 | | **121,216** |
| HORGAN TRUNK MAIN EXPANSION | 65,622 | 102 | 800 | 6,850 | 18,850 | 18,500 | 45,102 | 17,510 | 3,010 | | | | **65,622** |
| HORGAN W.T.P. EXPANSION | 9,945 | 3,815 | 6,130 | | | | 9,945 | | | | | | **9,945** |
| HUMBER T.P. - II YR2004 | 297 | 105 | 180 | 5 | 7 | | 297 | | | | | | **297** |
| HUMBER TP YR2005 | 3,160 | 1,518 | 1,020 | 421 | 100 | 101 | 3,160 | | | | | | **3,160** |
| HUMBER WWTP - LIQUID TREATMENT & HANDLING | 270,751 | 4,865 | 8,328 | 3,491 | 3,225 | 3,112 | 23,021 | 3,930 | 600 | 120 | 80 | | **27,751** |
| HUMBER WWTP - O&M UPGRADES | 17,388 | 5,200 | 8,884 | 3,304 | | | 17,388 | | | | | | **17,388** |
| HUMBER WWTP - ODOUR CONTROL | 65,000 | 5,000 | 15,000 | 20,000 | 20,000 | 5,000 | 65,000 | | | | | | **65,000** |
| HUMBER WWTP UPGRADES | 51,795 | 11,590 | 10,825 | 8,585 | 2,470 | 2,260 | 35,730 | 1,750 | 1,250 | 250 | 250 | | **39,230** |
| ISLAND PLANT WINTERIZATION | 558 | 170 | 388 | | | | 558 | | | | | | **558** |
| ISLAND W.T.P. R&R | 27,400 | 150 | 700 | 550 | 250 | 250 | 1,900 | 250 | 250 | | | | **2,400** |
| ISLAND W.T.P. R&R | 16,275 | 3,397 | 4,317 | 2,961 | | | 10,675 | | | | | | **10,675** |
| Land Acquisition for Source Water Protect | 14,000 | 7,000 | 7,000 | | | | 14,000 | | | | | | **14,000** |
| LAWRENCE ALLAN REVITALIZATION PLAN | 33,561 | - | 6,471 | 3,354 | 18,078 | 2,127 | 30,030 | 3,531 | | | | | **33,561** |
| METERING & METER READING SYS | 142,781 | 47,450 | 45,656 | 44,675 | 5,000 | | 142,781 | | | | | | **142,781** |
| NEW SERVICE CONNECTIONS | 175,000 | 17,500 | 17,500 | | | | 35,000 | | | | | | **35,000** |
| NEW SEWER CONSTRUCTION | 100,202 | 202 | 1,000 | | | | 1,202 | | | | | | **1,202** |
| NORTH TORONTO WTP UPGRADES | 3,234 | 767 | 915 | 777 | 522 | 253 | 3,234 | | | | | | **3,234** |
| OPERATIONAL SUPPORT | 37,956 | 3,553 | 4,353 | 4,500 | 5,000 | 4,300 | 21,706 | 500 | | | | | **22,206** |
| PW ENGINEERING | 18,961 | 2,068 | 2,013 | 1,160 | 1,360 | 1,160 | 7,761 | 1,000 | | | | | **8,761** |
| REGENT PARK CAPITAL CONTRIBUTION | 3,212 | - | 859 | 330 | 132 | 745 | 2,066 | 287 | 115 | 420 | 162 | 162 | **3,212** |
| RL CLARK W.T.P. R&R | 130,361 | 10,420 | 12,000 | 12,782 | 12,604 | 10,032 | 57,838 | 25 | | | | | **57,863** |
| SEWAGE PUMPING STATION UPGRADES | 61,629 | 9,255 | 5,442 | 2,052 | 400 | | 17,149 | | | | | | **17,149** |
| SEWER ASSET PLANNING | 121,195 | 7,357 | 13,023 | 12,615 | 12,000 | 12,000 | 56,995 | 11,000 | 4,000 | | | | **71,995** |
| SEWER REPLACEMENT PROGRAM | 482,346 | 61,063 | 17,976 | 3,608 | 1,096 | 603 | 84,346 | | | | | | **84,346** |
| SEWER SYSTEM REHABILITATION | 466,578 | 26,141 | 33,655 | 44,963 | 42,962 | 4,020 | 151,741 | 20 | | | | | **151,761** |
| STREAM RESTORATION & EROSION CONTROL | 102,590 | 8,040 | 9,000 | 5,370 | 2,500 | 310 | 25,220 | 160 | 160 | 310 | 160 | 160 | **26,170** |
| SWITCH GEAR TRANSFORMER | 13,660 | 1,025 | 6,400 | 6,235 | | | 13,660 | | | | | | **13,660** |
| SWM TRCA FUNDING | 44,476 | 3,970 | | | | | 3,970 | | | | | | **3,970** |
| SWM END OF PIPE FACILITIES | 142,510 | 1,200 | 6,800 | 6,650 | 5,400 | 5,250 | 25,300 | 2,450 | 150 | | | | **27,900** |
| SWM SOURCE CONTROL PROG | 850 | 150 | 150 | 250 | 150 | 150 | 850 | | | | | | **850** |
| TRANSMISSION OPERATIONS OPTIMIZER | 560 | 560 | | | | | 560 | | | | | | **560** |
| TRANSMISSION R&R | 83,582 | 4,864 | 11,879 | 4,135 | 1,064 | 700 | 22,642 | 460 | 400 | 300 | 280 | | **24,082** |
| TRUNK SEWER SYSTEM | 318,362 | 8,696 | 19,466 | 23,109 | 5,154 | 388 | 56,813 | 38 | 11 | | | | **56,862** |
| TRUNK WATERMAIN EXPANSION | 28,160 | 610 | 600 | 550 | 400 | | 2,160 | | | | | | **2,160** |
| W&WW LABORATORIES | 19,570 | 120 | 150 | | | | 270 | | | | | | **270** |
| WATER EFFICIENCY PROGRAM | 5,200 | 520 | 520 | 520 | 520 | | 2,080 | | | | | | **2,080** |
| WATER STORAGE EXPANSION | 60 | 30 | 30 | | | | 60 | | | | | | **60** |
| WATER SUSTAINABILITY PROGRAM | 11,300 | 200 | 2,750 | 4,350 | 4,000 | | 11,300 | | | | | | **11,300** |
| WESTERN BEACHES RETROFIT | 5,900 | 800 | 2,550 | 2,550 | | | 5,900 | | | | | | **5,900** |
| WET WEATHER FLOW MP | 67,244 | 7,891 | 4,178 | 1,650 | 650 | 650 | 15,019 | 200 | 200 | 200 | | | **15,619** |
| WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | 400 | 400 | | | | | 400 | | | | | | **400** |
| **Grand Total (Including arryforward funding)** | **9,067,760** | **613,270** | **683,550** | **626,661** | **522,791** | **294,364** | **2,740,636** | **186,100** | **91,861** | **65,631** | **56,959** | **52,152** | **3,193,339** |

The 2014 Recommended Capital Budget provides funding of $613.270 million to:

- Continue state of good repair projects to address infrastructure renewal such as District Watermain Replacement and Rehabilitation ($91.035 million) and Sewer System Replacement and Rehabilitation ($85.793 million );
- Continue the implementation of the Wet Weather Flow Master Plan ($33.336 million);
- Continue the Basement Flooding Relief project ($61.256 million);
- Continue the implementation of the Water Metering Program ($47.450);
- Continue with contribution to the TRCA for stream restoration and erosion control projects ($10.970 million)
- Complete Class EA studies for all remaining basement flooding areas by the end of 2014. In 2014 studies for 18 basement flooding areas will be ongoing and are expected to be completed by the end of 2014. Wards include: 7, 8, 9, 10, 11, 13, 15, 16, 23, 24, 25, 26, and 31.
- Begin the Chemical and Residuals Management project at Island Water Treatment Plant ($0.150 million).

# V: ISSUES FOR DISCUSSION

## 2014 Issues

*State of Good Repair (SOGR) Backlog*

- The water and wastewater infrastructure renewal backlog is a recognized problem within older municipalities across North America. The construction of water and wastewater infrastructure has generally aligned with urban growth cycles; and much of this older infrastructure is currently at or reaching the end of its expected service life.
- Toronto Water currently has a significant infrastructure renewal backlog, higher than any other major Canadian urban centre. It has the largest asset base in the country, estimated at $28.256 billion with some infrastructure dating back to the 1800s. As the majority of Toronto Water's infrastructure is reaching the end of its expected service life, an average of 1400 watermain breaks per year is experienced in Toronto, which represents the highest break rate in Ontario.
  - For example, 14% of the City's 5,500 kilometers of watermain was installed before the 1920s, and the thinner-walled watermains installed in North York and parts of Scarborough during high growth periods in the 1950s, representing 16% of the City's watermain network, are also reaching the end of their lifecycle, resulting in a significant renewal backlog.
- The need to reduce pipe breaks and subsequent leaks is essential to minimize the following:
  - Disruption to local residential; traffic; and, business activities.
  - Significant repair and rehabilitation costs for affected roads and underground utilities.
  - Risk to providing inadequate fire protection to high-rise buildings
  - Increased energy consumption and related CO2 emissions as pumps and motors must work harder to deliver service.
  - Lost revenues from lost water sales.
- The 10-Year Capital Plan provides State of Good Repair funding of $5.045 billion with annual cash flow funding of: 2014- $251.730 million; 2015 – $468.473 million; 2016 - $516.005 million; 2017 – $541.288 million; 2018 - $561.705 million; 2019 - $534.495 million; 2020 - $557.172 million; 2021 - $568.823 million; 2022 - $543.213 million; and, 2023 - $502.286 million that will contribute towards reducing the watermain break rate.
- The 2013 year-end value of the infrastructure renewal backlog is estimated at $1.641 billion, reflecting 5.8% of Toronto Water's total asset value of $28.256 billion. This is based on a detailed analysis of current condition assessments and assumptions of service life by asset class, coupled with recently completed assessments of water and wastewater treatment facilities.
- Toronto Water's State of Good Repair Backlog is currently forecasted to be nearly addressed within 10 years with sustained funding increases. The 10-Year Recommended

Capital Plan includes average annual funding of $505 million to address the state of good repair backlog, which will be reduced from $1.641 billion in 2013 to $91.923 million by 2023. By 2023, residual backlog will only relate t facilities/plants assets, as the backlog of linear infrastructure state of good repair projects will be completely eliminated by that time.

- Linear infrastructure renewal projects over the next 10 years will result in extensive construction across the City within its roadways. To minimize disruption to the public, extensive coordination with all stakeholders will be required although scheduling may be adjusted as an outcome of the coordination process.
- The above backlog reduction forecast however, can be detrimentally impacted if water consumption/revenues decline beyond the current forecasted declines, thereby reducing available funding, if replacement costs increase beyond the current rate of inflation, or if other key projects take priority over the state of good repair backlog program.
- For the purposes of the State of Good Repair Backlog analysis, the City's stormwater management facilities, including stormwater ponds and underground storage tanks have not been included as they are relatively new infrastructure. Further, stream restoration needs to address existing erosion scars across the City; and mitigate future stream erosion are also not included in the analysis.

*Capacity to Spend*

Toronto Water's spending rates over the past five years are presented below.

**Toronto Water's Spending Capacity**

| Year | Budget | Actual | Variance | Spending Rate |
|---|---|---|---|---|
| 2008 | 410,000.00 | 318,429.00 | 121,846.00 | 77.7% |
| 2009 | 569,911.00 | 514,843.00 | 198,168.00 | 90.3% |
| 2010 | 720,672.00 | 630,993.00 | 155,477.00 | 87.6% |
| 2011 | 668,365.00 | 536,198.00 | 155,477.00 | 80.2% |
| 2012 | 567,931.00 | 425,759.00 | 142,172.00 | 75.0% |
| 2013* | 674,775.00 | 485,488.00 | 189,287.00 | 71.9% |
| **TOTAL** | **3,611,654.00** | **2,911,710.00** | **962,427.00** | |
| **2008 - 2012 Avg** | **587,375.80** | **485,244.40** | **154,628.00** | **82.6%** |
| **2008 - 2013 Avg** | **601,942.33** | **485,285.00** | **160,404.50** | **80.6%** |

* Includes projected actuals based on the Q3 Variance Report

- Toronto Water's spending capacity over the previous five years, from 2008 to 2012, averaged $485.244 million or 83% for an average capital budget of $587.376 million. The last several years have shown an overall increase in capital spending ($318.429 million in 2008, compared to $425.759 million in 2012). As of September 30, 2013, the projected spending rate for 2013 is 72%.
- The highest spending rates of 90% and 88% were achieved in 2009 and 2010 respectively and are reflective of the increased capital activity due to the implementation of the Federal Infrastructure Stimulus, as well as large stand-alone projects such as J.F.Horgan Filtration

Plant and Dufferin & Miliken reservoir expansions. However, increased capital spending in those two years depleted capital financing reserves, requiring Toronto Water to limit and scrutinize all new capital expenditure, in order not to exceed their average 80% and 85% spending rate in 2011 and 2012.

- For 2014, cashflow funding is recommended at $613.270 million (with carry forward funding), which is in line with the historical program average annual budgets. Starting in 2015 annual cash flows will be increasing to $0.989 million in 2017 and $1.003 billion in 2018 and stay in a range of $0.900 million until 2023.
- The planned cash flow funding in the 2018-2023 Capital Plan period reflects the fact that the majority of the projects requiring large capital funding, such as the Ashbridges Bay WWTP disinfection and outfall construction projects, Highland Creek Biosolids project and the Basement Flooding Relief projects, are scheduled for implementation between 2016-2019. Although these projected cash flow funding requirements represent significantly higher spending compared to the historic average annual cash flows and spending rates, larger stand alone facility projects also had had higher spending rates than linear infrastructure projects and are considered achievable.

*Extreme Weather Events*

- The City of Toronto has experienced wide spread surface and basement flooding as a result of extreme storm events. The most impacted areas were those the City developed during the 1950s and 1960s, with separated storm and sanitary sewer systems, and which have also had a history of basement flooding complaints during extreme storm events.
  - The storm of July 8, 2013, especially in the Etobicoke and York areas of the City, is an example of an extreme event where surface runoff far exceeded the carrying capacity of the storm sewers, local ditches, roadways, and streams. Once the City's drainage system is exceeded, basement flooding quickly will occur and spread quickly. More than 4,700 basement flooding complaint were received during and immediately following the storm.
- In April 2006, Council approved a Basement Flooding Protection Work Plan requiring a comprehensive engineering review to address chronic basement flooding problems. As directed by Council, storm drainage improvements are being made to provide protection from a 1 in 100 year return frequency storm event, up from the current 1 in 2 to 1 in 5 year return frequency storm, are being implemented where feasible, as part of the City's Climate Change Adaptation Strategy.
- To enhance the City's drainage systems another two other components were added to the Basement Flooding Protection Program: a mandatory downspout disconnection program to slow and reduce the volume of runoff reaching storm sewers during a rain event, and a subsidy program, offering up to $3,200, to encourage home isolation through the installation of backwater valves on sanitary sewer service lines, the installation of sump pumps to remove foundation drainage, and severing and capping storm sewer service lines to eliminate the risk of storm sewer back-ups.

- To date 34 Chronic Basement Flooding Study Areas have been identified. A number of Environmental Assessment studies to investigate the causes of both basement and local surface flooding, and identify sewer system improvements to reduce the risk of future basement flooding during extreme events, have already been completed and remedial works have been underway since late 2009. 33 of the 34 of the Basement Flooding Protection Program studies are to be completed by the end of 2014 with the final one to be completed in 2015.
- Many challenges exist with the implementation of works recommended by the EA studies. Retrofitting an area to accommodate the higher level of storm drainage and overland flow controls in existing fully developed areas present the most significant challenge in terms of cost, scheduling and disruption to the local communities. To date, $91.0 million has been spent to upgrade over 1,300 kilometres of storm and sanitary sewers, build 2 surface storage ponds, and build one underground storm storage tank to meet the enhanced level of service requirements required under the Basement Flooding Protection Program. A further $100 million in construction projects has been committed.
- The 2014 – 2023 Capital Budget and Plan includes $940.450 million in funding (excluding funding carried forward from 2013) for Basement Flooding Relief projects which were part of the original Basement Flooding Protection Program. Despite this level of funding, Toronto Water faces the following challenges:
  - Demand for the basement flooding subsidy continue to increase as a result of extreme weather events. There is another estimated $160.000 million in unfunded pressures over the 2014-2023 period.
  - Remedial costs are higher than the defined threshold of $32,000, thus addressing a small number of benefiting properties.
- The cost to implement priority projects across all 34 study areas need to be continuously updated, as Class Environmental Assessment Studies are completed. With the experience of the July 8, 2013 event it is anticipated that there will be competing interests regarding the sequencing of future EA studies and a need to weigh the flooding risks between the areas.
- A detailed report from the General Manager Toronto Water titled "Impact of July 8, 2013 storm on the City's Sewer and Stormwater Systems" was approved by Council at its meeting of October 8, 9, 10 and 11, 2013. The noted staff report can be viewed at http://www.toronto.ca/legdocs/mmis/2013/pw/bgrd/backgroundfile-61363.pdf.
- The report outlines the following key lessons learned from the storm of July 8, 2013 :
  - If a future rainfall event exceeds the enhanced level of service being pursued by the Basement Flooding Protection Program, basement flooding could still occur even if the drainage systems of the area have been upgraded.
  - Where the City's systems have sufficient capacity to accommodate the size of storm event that occurs, basement flooding can still occur due to poor drainage practices or poorly maintained systems within or adjacent to private residences.

  - No two storms are the same and storms can strike parts of the City that have not been impacted heavily in the past. In other words, a past history of flooding complaints is not a complete indicator of future risk for basement flooding.

- The above shows the need to expand the original Basement Flooding Protection Program across the City. Currently, basement flooding study areas cover only 26% of the City, the remaining 74% has not been assessed yet.
- The Capital Plan impact for undertaking the studies on a city-wide basis is estimated to be $4.0 million per year, beginning in 2015, and continuing for an estimated 12-15 years using existing staff resources to project manage the consulting assignments. Accelerating the expanded Basement Flooding Protection Program, so that it is completed sooner, will require additional annual increases to Toronto Water's Capital and Operating Budgets to hire more engineering consultants and staff within Toronto Water to manage the projects.
- The estimated cost to construct projects identified by the EA studies in an expanded city-wide Basement Flooding Protection Program (that includes construction projects not presently within the existing 34 priority study areas) will require additional capital funding beyond the 10 year plan period. The capital cost implications are not definitive at this time, but are currently estimated at $326.0 million with anticipation that the amount can be well over that amount once the studies are complete.
- In approving the above report, City Council also requested the General Manager, Toronto Water, the General Manager, Transportation Services, the Executive Director, Engineering and Construction Services, and the Chief Planner and Executive Director to work together to develop "green infrastructure" standards for the public right-of-way for implementation in Transportation Services and Toronto Water capital projects with a target implementation date for the 2015 construction season.

### *Stream Restoration and Critical Erosion Projects*

As a part of its Stormwater Management Program, Toronto Water provides an annual funding contribution to the TRCA for stream restoration and erosion control projects. The 2014-2023 Capital Budget and Plan includes a total of $44.476 million over a 10-year period.

In order to address some of the most critical erosion projects arising from the storm of July 8th, 2013, an additional TRCA contribution of $26.0 million is recommended in Toronto Water's 10-Year Capital Plan ($7.0 million in each 2014 and 2015, and $2.0 million annually thereafter) in addition to the $4.0 million previously included in the 10-Year Capital Plan.

At its meeting of July 16, 17, 18 and 19, 2013 City Council directed the City Manager in consultation with Toronto Water and the Toronto and Region Conservation Authority, to prepare a report to the Executive Committee before the end of 2013 on budgetary and other requirements to minimize the impact of similar future storm events on private and public property within the City of Toronto.

In approving the "Impact of July 8, 2013 storm on the City's Sewer and Stormwater Systems" report, City Council requested the Toronto and Region Conservation Authority to forward to the

General Manager, Toronto Water, information on houses within the flood plain that are most vulnerable to flooding from the Black Creek Watershed and that the General Manager, Toronto Water, provide this information in a report to the Public Works and Infrastructure Committee in February 2014.

City Council's above request will be addressed as appropriate.

*Recent Regulations*

- The provision of water and wastewater services in Ontario continues to experience increased legislative and regulatory reform. Key provincial regulations include:
  - Bill 195 (Safe Drinking Water Act) which expanded on existing policy and practice for water testing for the protection of human health and the prevention of drinking water health hazards. Regulations passed under the Act require municipalities to publish annual reports describing the operation of the water system and the results of testing required to ensure that residents are provided with safe drinking water.
  - Bill 43 (Clean Water Act) which provides protection for municipal drinking water supplies through developing collaborative; locally driven; science-based protection plans by municipalities; conservation authorities; and, the public.
- The most recent federal regulations enacted on July 18, 2012 under the Fisheries Act are the first federal regulations that specifically address municipal wastewater treatment plant effluents. The new federal Regulations impose operational, administrative, and financial burdens on the City due to additional regulatory requirements beyond those already imposed by the Ontario Ministry of the Environment (MOE).
- With respect to wastewater treatment plants, the new federal Regulations impose:
  - Strict limits for final effluent quality, which were not previously regulated by the MOE, related to un-ionized ammonia, acute lethality testing, and total residual chlorine.
  - Methods for testing effluent quality.
  - Flow monitoring.
  - Record keeping.
  - Reporting.
- The regulations also contain requirements for annual reporting of combined sewer overflow (CSO) discharges within the City.
- Toronto Water has developed an action plan to address the new federal Fisheries Act Wastewater Systems Effluent Regulations by January 2015, requiring increased capital and operating funding as noted below:
  - Capital Costs already included in Toronto Water's 2014-2023 Capital Budget and Plan:
    - Design and construction of a new effluent disinfection system at the Ashbridges Bay Wastewater Treatment Plant estimated at $205.4 million.

- Development of a hydrologic/hydraulic computer simulation model to provide for the annual reporting of combined sewer overflow discharges within the City's combined sewer system estimated at $0.400 million.

➢ Increase in annual operating costs estimated at $1.3 million included in the 2014 Recommended Operating Budget:

- Additional hydro costs to eliminate the effects of ammonia toxicity in the Ashbridges Bay Wastewater Treatment Plant effluent ($1.0 million per year).
- Increased cost associated with the requisite wastewater treatment plant monitoring and reporting requirements to Toronto Water's annual Operating Budget ($0.2 million per year).
- Increased costs associated with the requisite combined sewer overflow reporting requirements ($0.1 million per year).

*Major Capital Projects – Status Update*

- At its meeting of October 24th, 2012, the Audit Committee considered a report from the Auditor General entitled "a Mid-Term Review of the Union Station Revitalization: Managing Risks in a Highly Complex Multi-Year, Multi-Stage, Multi-Million Dollar Project". The report recommended that enhanced oversight and reporting to promote accountability and transparency should be undertaken. The following information is being presented on Toronto Water's water meter program currently under way:
- ***Water Meter Program:***
  - ➢ The City of Toronto is currently implementing a mandatory water meter program (Water Meter Replacement and Automated Meter Reading (AMR) System) that will replace or install new automated meters in every home and business in the city to provide an equitable system for all Toronto Water customers. As a result, customers will only pay for the water they actually use under the new system.
  - ➢ The program is being rolled out on a ward-by-ward basis over a six-year period, beginning in 2010 and ending in 2015. The scope of work under the water meter replacement program involves the installation of new automated meters for approximately 474,000 water accounts.
  - ➢ At the start of the project, there were approximately 68,000 flat rate accounts, and 406,000 accounts with existing meters that required replacement. Of the 406,000 existing metered accounts, 390,000 were associated with small meters and 16,000 with large meters.
  - ➢ As of August 31, 2013, 250,800 new water meters have been installed under the program representing 53% of the installations of the total 474,000 water accounts. There are 223,200 water meters remaining to be installed and the project is expected to be substantially complete by the end of 2015, ahead of the original schedule and well before the sixth anniversary of the first installation.

- In 2008, the total project cost was set at $219.0 million, including $15.2 million for the project contingency. As of August 31, 2013, project expenditures total $87.8 million or 40% of the $219.0 million upset limit. The total projected expenditures are forecasted to be $186 million or 85% of the $219 million project costs. Most of the $33 million difference between the forecasted total and the upset limit is due to less extensive installation work associated with large meters and lower than anticipated commodity and labour prices.
- In 2008, the anticipated financial benefits from the water meter program were expected to be approximately $32.3 million per year once the system was fully implemented. The benefits were to be realized through a combination of additional revenues ($27.3 million associated with the replacement of the City's aging meters and the conversion of flat rate accounts) and operating efficiencies ($5 million associated with the implementation of an automated, radio frequency-based reading system).
- At project completion, the additional annual revenue as a result of the new meters is expected to be $29.4 million, which is $2.1 million higher than the original project forecast. Operating savings were expected to be $5 million annually. Toronto Water is on target to achieve these savings and related efficiency savings are included in the 2014 Recommended Operating Budget and the 2015 and 2016 Outlooks.
- A detailed report from the General Manager Toronto Water, titled "Update on the Water Meter Program" was presented to the Public Works and Infrastructure Committee at its meeting of October 21, 2013.

*The Metrolinx Rapid Transit Program*

- In 2012, Toronto City Council authorized the City to enter into a Master Agreement for the implementation of a Provincially-funded Toronto light rail transit program, which agreement the City signed with the TTC and Metrolinx.
- The Master Agreement requires Metrolinx to protect, relocate or replace City infrastructure that is impacted by the Transit Program. All relocation and replacement work, which must meet pre-construction service levels and current standards, will be completed and paid for by Metrolinx, with the exception of construction work planned by the City in the corresponding locations that was identified in the City's five-year capital expenditure plan for 2013 to 2017, to which the City will make a financial contribution.
- The City can enhance capacity, service levels, or standards of City infrastructure at the time of its relocation or replacement by Metrolinx. If the City takes advantage of this opportunity, the City will only be required to pay Metrolinx for the incremental cost of the enhancements. Toronto Water (and Transportation Services) have identified a preliminary list of capital projects that Metrolinx could construct for the City in the course of construction of the Transit Program.
- The City may identify other opportunities to coordinate City infrastructure projects with Metrolinx as the latter provides the City with more information pertaining to the scope and

schedule of the Transit Program, including City infrastructure that will be impacted by transit construction.

- Subsequent needs will be identified and quantified through the budget process. It is recommended that in the event that funding is not available in an approved budget to pursue new or additional City infrastructure, but staff feel that it is financially prudent to proceed, appropriate authorities will be sought.
- The report titled "*Upgrading City Infrastructure During Construction Of the Metrolinx Transit Program" seeking authorities* that will permit the City to coordinate its own infrastructure projects with the first phase of Metrolinx's Toronto light rail transit program to avoid multiple construction disruptions in the same location and to capitalize on any cost savings that may be available, was considered and recommendations adopted by the Executive Committee on July 3, 2013.
- All projects indentified in Toronto Water's preliminary list are funded in the 2014-2023 Recommended Capital Budget and Plan.

## Future Year Issues

### *Water Consumption Forecast*

- As noted in the accompanying 2014 Water and Wastewater Rates report, there has been a trend towards reduced water consumption over the last decade, despite population growth. Besides weather conditions, the decline in water consumption is attributed to water efficiency measures and economic factors. Over the 2006-2012 period, Toronto's water consumption has declined approximately 10%, from 377 to 340 million cubic metres.
- Although water consumption was forecasted to decline by 1.5% in 2013, it is not as great as anticipated. 2013 water consumption is expected to be about 1.0% lower than 2012 actual consumption, which can be mostly attributed to impacts of the July 8 storm. Up to the month of June, water consumption was fairly consistent with comparable period in 2012. The base forecasted consumption utilized in water rate modeling is estimated to decrease by 1.0% in each 2014 and 2015 compared to 2012 actuals.
- It is important to note that uncertainty in revenues from the sale of water which continues to be a challenge for Toronto Water.

### *Capital Funding Pressures and Unfunded Emerging Capital Priorities*

- Although Toronto Water’s Capital Program continues to be 100% self sustaining, largely through water revenues (with no debenture financing and no impact on the municipal property tax levy), declining water consumption trends, accelerated capital spending and emerging priorities continue to place significant pressure on the long term capital program.
- In 2012, Toronto Water's portfolio of capital projects had to be reduced by $1.132 billion or 14% compared to the 2011 – 2020 Approved Capital Plan in order to replenish the Water Stabilization Reserve and to re-establish sufficient Water Capital Financing Reserve balances by 2014 ($60 million from 2012-2014), affecting the following projects:

- Watermain Renewal (Replacement & Rehabilitation) projects to address state of good repair issues were reduced by a total of $185.493 million from 2012 to 2020.
- Wet Weather Flow Master Plan projects were reduced by a total of $436.578 million from 2012 to 2020;
- Storage and Pumping Facilities projects were reduced by a total of $370.768 million from 2012 to 2020;
- Transmission Watermain projects were reduced by a total of $308.474 million from 2012 to 2020; and
- Basement flooding program projects were reduced by a total of $127.306 million from 2012 to 2020.

- Concurrently with deferring projects valued at $1.132 billion in 2012, there is an estimated $766.0 million in additional funding required to address unbudgeted projects over the 2014-2023 period. Another $1.870 billion is required post 2023, for combined sewer overflows and improving water quality in the Don River and Waterfront, as well as water treatment plant upgrades, transmission watermains, and digester cleaning repairs. At the same time, demand is increasing to reinstate funding that was deferred for programs such as basement flooding protection and combined sewer overflow control projects, resulting in a number of competing priorities and significant funding pressures for Toronto Water.
- The following table summarizes unbudgeted pressures:

| Project | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2014-2023 | Post 2023 | Post 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WATER TREATMENT AND SUPPLY** | | | | | | | | | | | | | |
| WATER TREATMENT & SUPPLY - STANDBY POWER | - | - | - | - | 5,000 | 5,000 | 7,000 | 10,000 | 10,000 | 10,000 | 47,000 | 30,500 | 77,500 |
| WATER TREATMENT & SUPPLY - UPGRADES | 2,170 | 4,555 | 2,275 | 950 | - | - | - | - | - | - | 9,950 | | 9,950 |
| BUSINESS & TECHNICAL IMPROVEMENTS | 1,335 | 3,380 | 3,450 | 3,390 | 2,992 | 227 | 77 | 171 | 265 | 284 | 15,571 | | 15,571 |
| LAWRENCE HEIGHTS REDEVELOPMENT - PHASE 2 | | | | | | | | | | | | | |
| **WASTEWATER TREATMENT & STORMWATER MANAGEMENT** | | | | | | | | | | | | | |
| BASEMENT FLOODING PROTECTION PROGRAM | | | | | | | | | | | | 674,000 | 674,000 |
| BASEMENT FLOODING PROTECTION PROGRAM (ENTIRE CITY) | | 4,000 | 9,000 | 14,000 | 19,000 | 44,000 | 44,000 | 64,000 | 64,000 | 64,000 | 326,000 | | 326,000 |
| WASTEWATER TREATMENT PLANT - UPGRADES | 600 | 4,600 | 9,050 | 9,450 | 21,100 | 12,825 | 3,075 | - | - | - | 60,700 | | 60,700 |
| WWTP - DIGESTER CLEANING & REPAIRS | | | | 100 | 6,300 | 6,400 | 7,625 | 8,825 | 8,925 | 7,525 | 45,700 | 20,125 | 65,825 |
| WWF - WATERFRONT LANDFORMS | | | 2,000 | 10,000 | 15,000 | 18,000 | 15,000 | 15,000 | 15,000 | - | 90,000 | | 90,000 |
| ETOBICOKE WATERFRON STORMWATER CONTROL | | | | | | | | | | | | 70,200 | 70,200 |
| TRCA - UNFUNDED PRIORITY PROJECTS | 5,000 | 5,000 | 8,000 | 8,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 44,000 | | 44,000 |
| TRCA - SCARBOROUGH WATERFRONT | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 60,000 | | 60,000 |
| WWF - DON & CENTRAL WATERFRONT CONSTRUCTION | | | | | | | | | | | | 1,075,700 | 1,075,700 |
| WWF- Stream Restoration (incl. July 8 Storm) | 2,870 | 1,085 | 10,000 | 11,500 | 11,500 | 11,500 | 11,500 | 7,000 | | | 66,955 | | |
| **TOTAL** | 17,975 | 28,620 | 49,775 | 63,390 | 89,892 | 106,952 | 97,277 | 113,996 | 107,190 | 90,809 | 765,876 | 1,870,525 | 2,569,446 |

- Strategy to address these pressures is provided in "Funding Pressures" issue below.

## Issues Referred to the 2014 Capital Budget Process

*Funding Pressures:*

- At its meeting of October 30, 31 and November 1, 2012, Council in considering a report titled *"Toronto Water Capital Program Funding Pressures and Financing Options*", directed the Deputy City Manager and Chief Financial Officer, and General Manager, Toronto Water to report to Executive Committee on strategies to maximize funding capacity and/or provide reductions in current project costs to address existing and emerging unfunded capital priorities financing options in June 2013, in advance of Toronto Water's long term

Capital Plan. Council also requested that as part of the same report, consideration be given to a property owner's ability to pay in establishing the water rate and/or water rate increases, and with respect of the introduction of any fixed charge for the Wet Weather Program.

- At its meeting of July 16, 17, 18 and 19, 2013, City Council directed the General Manager, Toronto Water, in consultation with the Deputy City Manager and Chief Financial Officer, to report to the October 30, 2013 meeting of the Executive Committee with financing options for increased investment in Toronto Water Infrastructure, particularly for Wet Weather Flow Management Master Plan and Basement Flooding projects, as previously directed by Council of November 29, 30 and December 1, 2012.
- In response to the above requests, the General Manager of Toronto Water and the Deputy City Manager and Chief Financial Officer, prepared a report titled "Future Options and Public Attitudes for Paying for Water, Wastewater and Storm Water Infrastructure and Services", which was presented to the Executive Committee on October 31, 2013.
- The report underlines Toronto Water's need for more funding in order to continue to provide safe drinking water, safely treat wastewater, and provide stormwater management to protect private property and the environment due to variety of factors affecting the delivery of its services as described in the ISSUES SECTION above.
- It recommends that City Council (a) agree in principle to increased expenditures for Toronto Water; (b) approve a study to determine and consult on the best way to pay for revenues needed to support the higher level of investment particularly for flood protection and stormwater management; and (c) consider the preferred funding strategy as part of the 2015 Toronto Water Capital Budget submission.
- Some of the options that were identified in order to generate more revenues are:
  - Water rate increases greater than the rate of inflation once the '9% for 9 years' increases end in 2014; and/or,
  - A separate stormwater management charge on the water bill; and/or,
  - Debenture financing for large scale, long service period projects, with all debt service costs to be paid from water rate revenue; and/or,
  - Local improvement charges for all or a portion of the Basement Flooding Protection Program.
- Any detailed studies and stakeholder consultation related to the report recommendations can be accommodated within existing approved funding. Any financial impact arising from the recommended funding options will be reported through the 2015 Toronto Water Capital and Operating Budget Process.

*Storm Water Management*

- At its meeting of July 16, 17, 18 and 19, 2013 City Council directed the General Manager, Toronto Water to consider an increase in subsidy levels within the Basement Flooding

Protection Subsidy Program to account for inflationary pressures that more closely reflect construction cost increases, as part of the 2014 Toronto Water Capital Budget submission.

- Analysis conducted by Toronto Water staff shows subsidy levels are in line with those offered by neighbouring municipalities; contractor costs are primarily labour which are not expected to increase significantly over the longer term; and previous increases to subsidy amounts resulted in a corresponding increase in invoice amounts which benefit the industry and not the homeowner. An alternative would be to offer additional financial assistance based on total household income of property owners as follows:
  - Below $31,000 per year -- 100 percent of the balance of the eligible costs
  - $31,000-$38,000 per year -- 50 percent of the balance of the eligible costs
  - $38,000-$50,000 per year -- 25 percent of the balance of the eligible costs
- There is a current subsidy cap of $2,800 per household when there is installation of both a backwater valve and sump pump. However, subsidies for the individual items are set at $1,250 (backwater valve) and $1,750 (sump pump), for a combined total of $3,000. Residents have voiced concerns with respect to the inequity that exists. It is suggested that the subsidy cap of $2,800 be removed and individual subsidy amounts for the backwater valve, sump pump and pipe severance & capping be provided, to a total financial subsidy of $3400 per property as follows:
  - Backwater valve: 80% of the invoiced cost up to a maximum of $1,250
  - Sump Pump: 80% of the invoiced cost up to a maximum of $1,750
  - Pipe Severance & Capping: 80% of the invoiced cost up to a maximum of $400
- A number of administrative amendments to the program's eligibility criteria for 2014 will be considered under the General Manager's authority to help improve program effectiveness, homeowner protection and contractor accountability. Consideration will be given to remove the subsidy cap of $2,800 (backwater valve and sump pump) and provide individual total subsidy amounts towards installation of a backwater valve ($1,250), sump pump ($1,750) and pipe severance & capping ($400) for a total financial subsidy of $3,400 per household.
- In response to significant increases in program application volumes, the approved 2013 Capital budget of $2.5 million has been increased by $2 million to address the forecasted 2013 expenditure of $4.5 million. The Recommended 2014-2023 Capital Budget and Plan allocates $5.4 million in response to the expected sustained increases in program volumes after the July 8th storm event.

- A detailed report from the General Manager Toronto Water titled "Impact of July 8, 2013 storm on the City's Sewer and Stormwater Systems" was approved by Council at its meeting of October 8, 9, 10 and 11, 2013. In approving the above report, City Council requested the General Manager, Toronto Water, to report back during the 2014 budget process on the following:

- The capital and operating budget impacts of expanding the Basement Flooding Protection Program on a city-wide basis beyond the existing 34 priority study areas, including methodologies for setting priorities and resource implications, so that the program continues to address urban flooding risks in a fair, well-organized, and efficient manner.

  The report titled "Expansion of the Basement Flooding Protection Program's Priority Study Areas" from the General Manager, Toronto Water will be submitted to the Budget Committee to be considered concurrently with the 2014 Capital and Operating Budget for Toronto Water. The report recommends that the General Manager, Toronto Water:

  - Prioritize future Basement Flooding Protection Program studies based on the density of reported basement flooding complaints per sanitary sewer subsewershed for major storm events since 2000. The density of reported basement flooding complaints will be calculated on the basis of the number of complaints of basement flooding received by the City divided by the land area serviced by the sanitary sewer subsewershed.
  - Initiate and expedite the completion of new Environmental Assessment studies for Area 35 (Silver Creek subsewershed), Area 36 (Chapman subsewershed), Area 37 (Hillary subsewershed), Area 38 (Etobicoke Creek subsewershed), Area 39 (Berry Creek subsewershed), Area 40 (Forman-Yonge subsewershed), and Area 41 (North Mimico Creek subsewershed).
  - Report back on the schedule of future Basement Flooding Protection Program study areas (for Study Area 42 and beyond), across the remainder of the city, as part of Toronto Water's 2015 Budget Submission.

- A plan for enforcement of the Mandatory Downspout Disconnect Program Phase 1 (combined sewer areas) and implementation of Phase 2 (basement flooding areas) as set out in Municipal Code Chapter 681, as part of the Basement Flooding Protection Program.

  The report titled "Update on Implementation of the Mandatory Downspout Disconnection Program" from the General Manager, Toronto Water will be submitted to the Budget Committee to be considered concurrently with the 2014 Capital and Operating Budget for Toronto Water. T

  The report indicates that a high compliance rate can be achieved through education, communications and outreach, grounded by the by-law. Rather than embark on an aggressive enforcement program that may achieve only very limited results and may incur costly litigation, a multi-year enhanced education, communication and outreach strategy will be proposed to boost compliance with the by-law across the City and will be the subject of a staff report to the Public Works and Infrastructure Committee in 2014.

- A multi-year capital plan to meet the Green Parking lot standards for Toronto Water properties.

In response to this Motion Toronto Water will undertake a review of its parking lots for opportunities to meet the Green Parking lot standards and present a plan to address this issue as part of its 2015 Capital Budget Submission.

# Appendix 1

## 2013 Performance

### 2013 Key Accomplishments

In 2013, Toronto Water accomplished the following:

- ✓ Maintained a 100% full compliance rating for all water and wastewater treatment facilities with respect to Ministry of Environment inspections.
- ✓ Completed basement flooding Class EA studies to investigate the causes of basement and surface flooding and made recommendations to reduce the risk of future flooding in 15 basement flooding areas including wards: 1, 3, 4, 7, 8, 9, 10, 12, 15, 17, 23, 24, 29, 30, 31, 32, 33, 36, 37, 39, and 40.
- ✓ By the end of 2013 the following projects will be completed:
  - Harris Water Treatment Plant Envelope Rehabilitation ($23.0 million).
  - Mechanical upgrades at Clark Water Treatment Plant ($18.0 million).
  - Ashbridges Bay Treatment Plant D Building, Dewatering and Digester upgrades ($175million).
  - Highland Creek Treatment Plant Sludge Thickening and Headhouse Upgrades ($53.0 million).
  - Coxwell By-pass ($40.0 million)
  - Basement Flooding Projects ($48.0 million).
  - 40 km of watermain replacement ($40.0 million) and 45 km of structural watermain lining ($28.0 million).
  - 14 km of sewer replacement ($21.0 million) and 70 km of sewer replacement ($22.0 million).

### 2013 Capital Variance Review

**2013 Budget to Actual Comparison**
**(In $000s)**

| 2013 Approved | Actuals as of September 30, 2013 (2nd Quarter Variance) | | Projected Actuals at Year End | | Unspent Balance | |
|---|---|---|---|---|---|---|
| $ | $ | % Spent | $ | % Spent | $ Unspent | % Unspent |
| 674,775 | 258,875 | 38.4% | 485,488 | **71.9%** | 189,287 | **28.1%** |

Capital expenditures for the 9 months ended September 30, 2013 totaled $258.875 million or 38.4% of its 2013 Approved Capital Budget of $674.775 million. The projected year-end spending is $485.488 million or 71.9% of the 2013 Approved Capital Budget. The 10 Year Rate

Model completion rate target for projects funded from the Toronto Water Capital Financing Reserve is 85%.

The above funds were spent for multi-phase projects that are underway and will be completed in future years:

- Toronto Water incurred spending as of September 30, 2013 for the following large multi year projects such as:
  - *Rehabilitation and Replacement of Linear Infrastructure for Water and Sewers projects* ($55.640 million or 35% of the 2013 Approved Capital Budget of $158.926 million).
  - *Transmission Watermains* ($18.035 million or 51.5% of the 2013 Approved Capital Budget of $34.997 million).
  - *Automated Meter Replacement (AMR) Program* ($37.070 million or 85.9% of the 2013 Approved Capital Budget of $43.165 million).
  - Upgrade to equipment at the *R.L. Clark Treatment Plant* ($7.907 million or 67.4% of the 2013 Approved Capital Budget of $11.723 million).
  - Rehabilitation of the sludge thickening and dewatering building at *Highland Creek Treatment Plant* ($16.357 million or 43.9% of the 2013 Approved Capital Budget of $37.301 million)
  - Upgrade of dewatering equipment and the emission air treatment process and rebuilding of the primary and final tanks at *Ashbridges Bay Treatment Plant*. ($24.448 million or 26.9% of the 2013 Approved Capital Budget of $90.965 million).
  - *Wet Weather Flow Master Plan* ($10.252 million or 40.0% of the2013 Approved Capital Budget of $25.650 million).
- The lower than expected year-to-date spending rate was driven by the complexity of the engineering and design of the linear infrastructure which led to delayed tendering and awarding of the associated contracts. In addition to this, tenders for stand alone water main projects were delayed pending the finalization of crossing agreements with Metrolinx. Other contributing factors include the prevailing ground/site conditions as a result of the persistent wet weather or assessment results.
- In 2013, significant progress will continue to be made on state of good projects to address infrastructure renewal such as Watermain and Sewer Rehabilitation and improvements to Yards and Facilities; Water Storage Treatment & Treatment; and implementation of the Wet Weather Flow Master Plan. These projects are expected to meet or exceed the targeted spend rate of 85%.
- Toronto Water will continue to facilitate the New Service Connection project and is on schedule with the implementation of the Water Metering Program. These projects are anticipated to have a spend rate of 100%
- The forecasted year-end under-spending in 2013 relates to the following projects, due to extended design periods to ensure that the quality in design is achieved to address issues

raised through the design review process or unforeseen site conditions. The persistent wet weather condition this spring has resulted in lower construction days. Major projects include:

- Ashbridges Bay Treatment Plant ($41.925 million or 46% of the 2013 Approved Capital Budget of $90.965 million). A portion of this under spending ($6.39 million) relates to the cancellation of the stack replacement due to favourable assessment conditions.
- Trunk Sewer & Pumping Station Rehabilitation ($14.585 million or 59% of the 2013 Approved Capital Budget of $24.901 million).
- Watermain Replacement ($35.773 million or 67% of the 2013 Approved Capital Budget of $53.286 million)
- Highland Creek Treatment Plant ($25.864 million or 69% of the 2013 Approved Capital Budget of $37.301 million)

- The Basement Flooding project is projected to have spending of $48.204 million or 64% of the 2013 Approved Capital Budget of $74.516 million. Environmental assessments have taken longer than originally planned due to the extended time for infrastructure assessments and in order to ensure that all public concerns are heard. In addition to this, Toronto Water is unable to proceed with some basement flooding relief projects as the preliminary designs indicate that the cost to each benefiting property will exceed the current threshold of $32,000 as set by City Council. For those projects that have met the criteria and have proceeded, contracted pricing has been lower than expected. Unspent funds have been re-directed to advance the design phase of the remaining planned basement flooding relief projects.

**2013 Carryforward Funding into 2014**

- 2013 funding of $138.057 million is being carried forward into the 2014 Capital Budget to complete the following projects:
  - State of Good Repair (including Legislated and Health and Safety) projects such as watermain replacement, trunk sewer and pumping station rehabilitation, Highland Creek and Ashbridges Wastewater Treatment Plant upgrades and rehabilitation projects totaling $97.353 million.
  - Service Improvement projects such as Basement Flooding Relief, Storm Water Management End of Pipe Facilities and Wet Weather Flow Master Plan for a total of $36.255 million.
  - Growth Related projects such as water storage expansion projects and new sewer construction projects of $4.449 million.

# Appendix 2

## 10-Year Recommended Capital Plan Project Summary
## (In $000s)

| Project | Total Project Cost | 2014 | 2015 | 2016 | 2017 | 2018 | 2014 - 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2014 - 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASHBRIDGES BAY T.P. - III YR2004 | 3,540 | 1,130 | 1,530 | 50 | 30 | - | 2,740 | - | 400 | 400 | - | - | 3,540 |
| ASHBRIDGES BAY T.P. YR2006 | 4,686 | 825 | 1,635 | 2,226 | - | - | 4,686 | - | - | - | - | - | 4,686 |
| ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | 16,155 | 1,120 | 3,120 | 4,105 | 2,560 | 2,200 | 13,105 | 1,000 | 50 | - | 2,000 | - | 16,155 |
| ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM | 585,021 | 1,213 | 4,649 | 13,800 | 44,410 | 82,610 | 146,682 | 94,889 | 64,167 | 94,583 | 89,000 | 95,700 | 585,021 |
| ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | 806,533 | 28,353 | 45,577 | 57,820 | 76,550 | 104,000 | 312,300 | 83,500 | 106,000 | 106,868 | 100,865 | 97,000 | 806,533 |
| ASHBRIDGES BAY WWTP - O&M UPGRADES | 36,788 | 3,719 | 8,069 | 7,500 | 2,500 | 2,500 | 24,288 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 36,788 |
| ASHBRIDGES BAY WWTP - ODOUR CONTROL | 25,614 | 2,297 | 8,453 | 8,742 | 6,122 | - | 25,614 | - | - | - | - | - | 25,614 |
| ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING | 135,840 | 3,600 | 4,250 | 20,000 | 28,510 | 30,310 | 86,670 | 17,040 | 17,030 | 15,100 | - | - | 135,840 |
| ASHBRIDGES BAY WWTP REHAB | 168,439 | 16,684 | 23,552 | 28,468 | 36,476 | 26,330 | 131,510 | 17,840 | 6,179 | 4,870 | 4,530 | 3,510 | 168,439 |
| ASHRIDGES BAY TP YR2005 | 14,469 | 4,357 | 5,233 | 3,172 | 1,008 | 699 | 14,469 | - | - | - | - | - | 14,469 |
| AVENUE ROAD TRUNKMAIN REPLACEMENT | 3,835 | 335 | 1,500 | 2,000 | - | - | 3,835 | - | - | - | - | - | 3,835 |
| BASEMENT FLOODING RELIEF | 962,008 | 61,256 | 81,610 | 105,292 | 102,374 | 100,976 | 451,508 | 106,500 | 101,500 | 97,500 | 102,500 | 102,500 | 962,008 |
| BAYVIEW TRUNK WATERMAIN - PH2 | 8,900 | - | - | 400 | 100 | 400 | 900 | 4,000 | 4,000 | - | - | - | 8,900 |
| BUSINESS IT PROJECTS | 6,535 | 1,505 | 1,455 | 1,425 | 1,175 | 975 | 6,535 | - | - | - | - | - | 6,535 |
| BUSINESS SYSTEM INFRASTRUCTURE - PW | 39,983 | 8,830 | 10,931 | 5,312 | 3,818 | 1,702 | 30,593 | 1,410 | 3,050 | 2,240 | 1,640 | 1,050 | 39,983 |
| CLARK RESIDUE MGMT. FACILITIES | 650 | 200 | 450 | - | - | - | 650 | - | - | - | - | - | 650 |
| CONVEYANCE CONTROLS - REPLC & REHAB | 85 | 65 | 20 | - | - | - | 85 | - | - | - | - | - | 85 |
| D2/D4 TRUNK WATERMAIN UPGRADES | 55,925 | 1,300 | - | - | - | 300 | 1,600 | 600 | 5,600 | 20,600 | 17,225 | 10,300 | 55,925 |
| DIST SEWER REHAB OPS YR2005 | 500 | 300 | 188 | 12 | - | - | 500 | - | - | - | - | - | 500 |
| DIST W/M REHABILITATION | 565,283 | 40,679 | 40,371 | 45,502 | 63,337 | 49,976 | 239,865 | 55,119 | 60,267 | 65,419 | 70,576 | 74,037 | 565,283 |
| DIST W/M REPLACEMENT | 941,721 | 44,963 | 73,033 | 71,220 | 72,630 | 96,875 | 358,721 | 105,000 | 114,000 | 120,000 | 122,000 | 122,000 | 941,721 |
| DIST WATER SERVICE REPAIR | 189,463 | 18,149 | 19,625 | 17,166 | 17,404 | 18,233 | 90,577 | 18,780 | 19,343 | 19,923 | 20,521 | 20,319 | 189,463 |
| DISTRICT WATERMAINS - NEW | 4,544 | 194 | 350 | 500 | 500 | 500 | 2,044 | 500 | 500 | 500 | 500 | 500 | 4,544 |
| DON & WATERFRONT TRUNK CSO | 326,262 | 1,832 | 6,589 | 12,347 | 30,347 | 40,347 | 91,462 | 41,000 | 35,800 | 31,000 | 35,000 | 92,000 | 326,262 |
| DOWNTOWN W/M ENHANCEMENT | 40,705 | 19,385 | 14,298 | 7,015 | 7 | - | 40,705 | - | - | - | - | - | 40,705 |
| EMERY CREEK POND | 5,510 | 2,410 | 2,550 | 550 | - | - | 5,510 | - | - | - | - | - | 5,510 |
| ENGINEERING | 403,522 | 38,898 | 42,982 | 48,782 | 39,508 | 39,389 | 209,559 | 41,659 | 39,456 | 37,346 | 37,413 | 38,089 | 403,522 |
| ENGINEERING STUDIES | 9,329 | 6,978 | 1,751 | 150 | 150 | 50 | 9,079 | 50 | 50 | 50 | 50 | 50 | 9,329 |
| EQUIPMENT REPLACEMENT & REHABILITATION | 10,735 | 730 | 2,520 | 2,330 | 3,155 | 2,000 | 10,735 | - | - | - | - | - | 10,735 |
| F.J. HORGAN WTP R&R | 18,967 | 1,908 | 3,454 | 7,085 | 4,435 | 1,085 | 17,967 | 200 | 200 | 200 | 200 | 200 | 18,967 |
| FJ HORGAN W.T.P. R&R | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HARRIS W.T.P. R&R | 95,263 | 6,033 | 10,360 | 8,670 | 9,250 | 15,150 | 49,463 | 11,500 | 8,650 | 8,500 | 8,650 | 8,500 | 95,263 |
| HIGHLAND CREEK T.P. - IV YR2004 | 271 | 205 | 63 | 3 | - | - | 271 | - | - | - | - | - | 271 |
| HIGHLAND CREEK TP YR2005 | 885 | 250 | 317 | 313 | - | 5 | 885 | - | - | - | - | - | 885 |
| HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV | 11,998 | 1,498 | 3,500 | 4,000 | 3,000 | - | 11,998 | - | - | - | - | - | 11,998 |
| HIGHLAND CREEK WWTP - O&M UPGRADES | 3,000 | - | - | - | - | - | - | - | - | - | - | 3,000 | 3,000 |
| HIGHLAND CREEK WWTP - ODOUR CONTROL | 112,455 | 5,460 | 15,510 | 15,480 | 15,800 | 15,500 | 67,750 | 16,005 | 11,500 | 11,300 | 5,900 | - | 112,455 |
| HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING | 159,894 | 2,850 | 7,300 | 7,047 | 6,000 | 28,000 | 51,197 | 32,000 | 30,250 | 30,250 | 15,000 | 1,197 | 159,894 |
| HIGHLAND CREEK WWTP UPGRADES | 140,716 | 15,995 | 27,756 | 34,915 | 30,711 | 17,730 | 127,107 | 10,150 | 3,397 | 20 | 42 | - | 140,716 |
| HORGAN TRUNK MAIN EXPANSION | 65,622 | 102 | 800 | 6,850 | 18,850 | 18,500 | 45,102 | 17,510 | 3,010 | - | - | - | 65,622 |
| HORGAN W.T.P. EXPANSION | 9,945 | 3,815 | 6,130 | - | - | - | 9,945 | - | - | - | - | - | 9,945 |
| HUMBER T.P. | 509 | - | 200 | 200 | 109 | - | 509 | - | - | - | - | - | 509 |
| HUMBER T.P. - II YR2004 | 297 | 105 | 180 | 5 | 7 | - | 297 | - | - | - | - | - | 297 |
| HUMBER TP YR2005 | 3,160 | 1,518 | 1,020 | 421 | 100 | 101 | 3,160 | - | - | - | - | - | 3,160 |
| HUMBER WWTP - LIQUID TREATMENT & HANDLING | 270,751 | 4,865 | 8,328 | 8,491 | 33,225 | 43,112 | 98,021 | 43,930 | 40,600 | 40,120 | 31,080 | 17,000 | 270,751 |
| HUMBER WWTP - O&M UPGRADES | 17,388 | 5,200 | 8,884 | 3,304 | - | - | 17,388 | - | - | - | - | - | 17,388 |
| HUMBER WWTP - ODOUR CONTROL | 65,000 | 5,000 | 15,000 | 20,000 | 20,000 | 5,000 | 65,000 | - | - | - | - | - | 65,000 |
| HUMBER WWTP UPGRADES | 51,795 | 11,590 | 11,235 | 9,410 | 3,295 | 3,085 | 38,615 | 6,050 | 4,990 | 1,890 | 250 | - | 51,795 |
| ISLAND PLANT WINTERIZATION | 558 | 170 | 388 | - | - | - | 558 | - | - | - | - | - | 558 |
| ISLAND W.T.P. R&R | 27,400 | 150 | 700 | 1,550 | 3,250 | 6,250 | 11,900 | 12,250 | 3,250 | - | - | - | 27,400 |
| ISLAND W.T.P. R&R | 16,275 | 3,397 | 4,877 | 4,636 | 665 | 525 | 14,100 | 375 | 525 | 375 | 525 | 375 | 16,275 |
| LAWRENCE ALLAN REVITALIZATION PLAN | 33,561 | - | 6,471 | 3,354 | 18,078 | 2,127 | 30,030 | 3,531 | - | - | - | - | 33,561 |

Continues on the Page Following

# Appendix 2 - Continued

## 10-Year Recommended Capital Plan Project Summary - Continued

## (In $000s)

| Project | Total Project Cost | 2014 | 2015 | 2016 | 2017 | 2018 | 2014 - 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2014 - 2023 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METERING & METER READING SYS | 142,781 | 47,450 | 45,656 | 44,675 | 5,000 | - | 142,781 | - | - | - | - | - | 142,781 |
| NEW SERVICE CONNECTIONS | 175,000 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 87,500 | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 175,000 |
| NEW SEWER CONSTRUCTION | 100,202 | 202 | 4,000 | 8,000 | 10,000 | 10,000 | 32,202 | 12,000 | 14,000 | 14,000 | 14,000 | 14,000 | 100,202 |
| NORTH TORONTO WTP UPGRADES | 3,234 | 767 | 915 | 777 | 522 | 253 | 3,234 | - | - | - | - | - | 3,234 |
| OPERATIONAL SUPPORT | 37,956 | 3,553 | 5,003 | 6,100 | 6,600 | 5,900 | 27,156 | 2,100 | 2,100 | 5,000 | 1,600 | - | 37,956 |
| PW ENGINEERING | 18,961 | 2,068 | 2,513 | 2,560 | 2,760 | 2,560 | 12,461 | 2,400 | 1,400 | 1,400 | 900 | 400 | 18,961 |
| REGENT PARK CAPITAL CONTRIBUTION | 3,212 | - | 859 | 330 | 132 | 745 | 2,066 | 287 | 115 | 420 | 162 | 162 | 3,212 |
| RL CLARK W.T.P. R&R | 130,361 | 10,420 | 12,000 | 12,932 | 12,754 | 12,906 | 61,012 | 12,749 | 16,150 | 20,150 | 20,150 | 150 | 130,361 |
| SEWAGE PUMPING STATION UPGRADES | 61,629 | 9,255 | 5,442 | 2,162 | 810 | 3,550 | 21,219 | 9,450 | 11,350 | 9,300 | 7,220 | 3,090 | 61,629 |
| SEWER ASSET PLANNING | 121,195 | 7,357 | 13,023 | 13,765 | 13,150 | 13,150 | 60,445 | 12,150 | 15,150 | 11,150 | 11,150 | 11,150 | 121,195 |
| SEWER REPLACEMENT PROGRAM | 482,346 | 61,063 | 38,976 | 36,608 | 38,096 | 42,603 | 217,346 | 47,000 | 52,000 | 57,000 | 57,000 | 52,000 | 482,346 |
| SEWER SYSTEM REHABILITATION | 466,578 | 26,141 | 33,655 | 44,963 | 48,962 | 49,020 | 202,741 | 50,020 | 51,500 | 53,045 | 54,636 | 54,636 | 466,578 |
| STREAM RESTORATION & EROSION CONTROL | 102,590 | 8,040 | 9,000 | 6,870 | 9,160 | 7,120 | 40,190 | 11,820 | 13,320 | 13,620 | 11,820 | 11,820 | 102,590 |
| SWITCH GEAR TRANSFORMER | 13,660 | 1,025 | 6,400 | 6,235 | - | - | 13,660 | - | - | - | - | - | 13,660 |
| SWM TRCA FUNDING | 44,476 | 3,970 | 4,069 | 4,171 | 4,275 | 4,382 | 20,867 | 4,491 | 4,604 | 4,719 | 4,837 | 4,958 | 44,476 |
| SWM END OF PIPE FACILITIES | 142,510 | 1,200 | 6,800 | 6,650 | 6,550 | 9,590 | 30,790 | 14,410 | 20,130 | 31,680 | 15,500 | 30,000 | 142,510 |
| SWM SOURCE CONTROL PROG | 850 | 150 | 150 | 250 | 150 | 150 | 850 | - | - | - | - | - | 850 |
| TASTE AND ODOUR MANAGEMENT | 12,500 | - | - | - | - | - | - | - | - | - | 2,500 | 10,000 | 12,500 |
| TRANSMISSION OPERATIONS OPTIMIZER | 560 | 560 | - | - | - | - | 560 | - | - | - | - | - | 560 |
| TRANSMISSION R&R | 83,582 | 4,864 | 11,879 | 6,385 | 5,064 | 7,700 | 35,892 | 11,060 | 9,600 | 10,450 | 7,930 | 8,650 | 83,582 |
| TRCA - Land Acquisition for Source Water Protect | 30,000 | 7,000 | 7,000 | 2,000 | 2,000 | 2,000 | 20,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 30,000 |
| TRUNK SEWER SYSTEM | 318,362 | 8,696 | 19,466 | 28,609 | 29,154 | 29,388 | 115,313 | 33,038 | 35,011 | 35,000 | 50,000 | 50,000 | 318,362 |
| TRUNK WATERMAIN EXPANSION | 28,160 | 610 | 1,100 | 2,550 | 7,400 | 7,000 | 18,660 | 8,500 | 1,000 | - | - | - | 28,160 |
| W&WW LABORATORIES | 19,570 | 120 | 150 | - | - | - | 270 | 200 | 800 | 1,500 | 8,400 | 8,400 | 19,570 |
| WATER EFFICIENCY PROGRAM | 5,200 | 520 | 520 | 520 | 520 | 520 | 2,600 | 520 | 520 | 520 | 520 | 520 | 5,200 |
| WATER STORAGE EXPANSION | 60 | 30 | 30 | - | - | - | 60 | - | - | - | - | - | 60 |
| WATER SUSTAINABILITY PROGRAM | 11,300 | 200 | 2,750 | 4,350 | 4,000 | - | 11,300 | - | - | - | - | - | 11,300 |
| WESTERN BEACHES RETROFIT | 5,900 | 800 | 2,550 | 2,550 | - | - | 5,900 | - | - | - | - | - | 5,900 |
| WET WEATHER FLOW MP | 67,244 | 7,891 | 4,178 | 4,650 | 5,150 | 6,275 | 28,144 | 6,700 | 6,700 | 6,700 | 9,500 | 9,500 | 67,244 |
| WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | 400 | 400 | - | - | - | - | 400 | - | - | - | - | - | 400 |
| **Total (including carry forward funding)** | **9,108,669** | **613,270** | **794,348** | **867,782** | **929,155** | **988,854** | **4,193,409** | **1,003,283** | **961,214** | **1,006,708** | **965,292** | **978,763** | **9,108,669** |

# Appendix 3

## 2014 Recommended Capital Budget;
## 2015 to 2023 Capital Plan

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAT000004 | | HORGAN W.T.P. EXPANSION | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | PLANT EXPANSION - DESIGN & CONSTR ADMIN | CW | S2 | 05 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 21 | 0 | 47 | 0 | 0 | 32 | 0 | 100 |
| 0 | 18 | SUPERNATANT AND FORCEMAIN INSTALLATION | CW | S2 | 05 | 4,098 | 0 | 0 | 0 | 0 | 4,098 | 0 | 4,098 | 0 | 0 | 864 | 0 | 3,234 | 0 | 0 | 0 | 0 | 4,098 |
| 0 | 29 | SUPERNATANT AND FORCEMAIN INSTALLATION -2014 SC | CW | S3 | 05 | -1,598 | 4,500 | 0 | 0 | 0 | 2,902 | 0 | 2,902 | 0 | 0 | 1,373 | 0 | 1,529 | 0 | 0 | 0 | 0 | 2,902 |
| 0 | 30 | PLANT EXPANSION - DESIGN & CONSTR ADMIN -2014 SC | CW | S3 | 05 | 100 | 940 | 0 | 0 | 0 | 1,040 | 0 | 1,040 | 0 | 0 | 343 | 0 | 364 | 0 | 0 | 333 | 0 | 1,040 |
| 0 | 31 | PLANT EXPANSION - CONSTRUCTION -2014 SC | CW | S3 | 05 | -4,000 | -310 | 0 | 0 | 0 | -4,310 | 0 | -4,310 | 0 | 0 | -712 | 0 | -2,219 | 0 | 0 | -1,379 | 0 | -4,310 |
| 1 | 5 | PLANT EXPANSION - CONSTRUCTION | CW | S2 | 05 | 5,115 | 1,000 | 0 | 0 | 0 | 6,115 | 0 | 6,115 | 0 | 0 | 1,289 | 0 | 2,869 | 0 | 0 | 1,957 | 0 | 6,115 |
| | | Sub-total | | | | 3,815 | 6,130 | 0 | 0 | 0 | 9,945 | 0 | 9,945 | 0 | 0 | 3,178 | 0 | 5,824 | 0 | 0 | 943 | 0 | 0 | 9,945 |
| WAT000014 | | WATER STORAGE EXPANSION | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | DUFFERIN RES. EXT. - DESIGN AND CONT. ADMIN | CW | S2 | 05 | 19 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 5 | 0 | 14 | 0 | 0 | 0 | 0 | 19 |
| 0 | 2 | Milliken PS and Reservoir - Engineering | CW | S2 | 05 | 25 | 25 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 10 | 0 | 22 | 0 | 0 | 18 | 0 | 50 |
| 0 | 5 | Dufferin Reservoir Expansion - CONST | CW | S2 | 05 | 100 | 1,100 | 0 | 0 | 0 | 1,200 | 0 | 1,200 | 0 | 0 | 372 | 0 | 828 | 0 | 0 | 0 | 0 | 1,200 |
| 0 | 18 | MILLIKEN P.S. CONSTRUCTION | CW | S2 | 05 | 100 | 1,200 | 0 | 0 | 0 | 1,300 | 0 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,300 | 0 | 1,300 |
| 0 | 28 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION | CW | S2 | 05 | 100 | 2,400 | 0 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 519 | 0 | 1,041 | 0 | 0 | 940 | 0 | 2,500 |
| 0 | 42 | DUFFERIN RES. EXT. DESIGN & CONT ADMIN -2014 SC | CW | S3 | 05 | -14 | 5 | 0 | 0 | 0 | -9 | 0 | -9 | 0 | 0 | 1 | 0 | -10 | 0 | 0 | 0 | 0 | -9 |
| 0 | 44 | Dufferin Reservoir Expansion - CONST -2014 SC | CW | S3 | 05 | -100 | -1,100 | 0 | 0 | 0 | -1,200 | 0 | -1,200 | 0 | 0 | -372 | 0 | -828 | 0 | 0 | 0 | 0 | -1,200 |
| 0 | 45 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION -2014 SC | CW | S3 | 05 | -100 | -2,400 | 0 | 0 | 0 | -2,500 | 0 | -2,500 | 0 | 0 | -519 | 0 | -1,041 | 0 | 0 | -940 | 0 | -2,500 |
| 0 | 46 | MILLIKEN P.S. CONSTRUCTION -2014 SC | CW | S3 | 05 | -100 | -1,200 | 0 | 0 | 0 | -1,300 | 0 | -1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1,300 | 0 | -1,300 |
| 0 | 47 | Milliken PS and Reservoir - Engineering - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | -10 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 30 | 30 | 0 | 0 | 0 | 60 | 0 | 60 | 0 | 0 | 26 | 0 | 16 | 0 | 0 | 18 | 0 | 0 | 60 |
| WAT000018 | | CLARK RESIDUE MGMT. FACILITIES | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24 | RESIDUALS RETROFITS & UPGRADES | CW | S2 | 02 | 400 | 100 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 25 | 0 | 475 | 0 | 0 | 0 | 0 | 500 |
| 0 | 26 | RESIDUALS RETROFITS & UPGRADES -2014 SC | CW | S3 | 02 | -200 | 350 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | -25 | 0 | 175 | 0 | 0 | 0 | 0 | 150 |
| | | Sub-total | | | | 200 | 450 | 0 | 0 | 0 | 650 | 0 | 650 | 0 | 0 | 0 | 0 | 650 | 0 | 0 | 0 | 0 | 0 | 650 |
| WAT000021 | | WATER EFFICIENCY PROGRAM | | | | | | | | | | | | | | | | | | | | | |
| 0 | 10 | ICI INDOOR WATER AUDIT | CW | S2 | 05 | 368 | 300 | 300 | 300 | 0 | 1,268 | 0 | 1,268 | 0 | 0 | 1,268 | 0 | 0 | 0 | 0 | 0 | 0 | 1,268 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Project Priority | Project No. | Project Name / Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT000021 | WATER EFFICIENCY PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 11 | PUBLIC EDUCATION & PROMOTIONS | CW | S2 | 05 | 198 | 150 | 150 | 150 | 0 | 648 | 0 | 648 | 0 | 0 | 389 | 0 | 259 | 0 | 0 | 0 | 0 | 648 |
| 0 | 12 | ANCILLARY COSTS | CW | S2 | 05 | 70 | 70 | 70 | 70 | 0 | 280 | 0 | 280 | 0 | 0 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 280 |
| 0 | 82 | WATER EFFICIENCY FUTURE YEAR | CW | S6 | 05 | 0 | 0 | 0 | 0 | 520 | 520 | 2,600 | 3,120 | 0 | 0 | 3,120 | 0 | 0 | 0 | 0 | 0 | 0 | 3,120 |
| 0 | 87 | PUBLIC EDUCATION & PROMOTIONS -2014 SC | CW | S3 | 05 | -48 | 0 | 0 | 0 | 0 | -48 | 0 | -48 | 0 | 0 | 211 | 0 | -259 | 0 | 0 | 0 | 0 | -48 |
| 0 | 90 | ICI INDOOR WATER AUDIT - 2014 SC | CW | S3 | 05 | -68 | 0 | 0 | 0 | 0 | -68 | 0 | -68 | 0 | 0 | -68 | 0 | 0 | 0 | 0 | 0 | 0 | -68 |
| | | Sub-total | | | | 520 | 520 | 520 | 520 | 520 | 2,600 | 2,600 | 5,200 | 0 | 0 | 5,200 | 0 | 0 | 0 | 0 | 0 | 0 | 5,200 |
| WAT000340 | ISLAND PLANT WINTERIZATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | PLANT WINTERIZATION & SUMMERIZATION | CW | S2 | 04 | 505 | 0 | 0 | 0 | 0 | 505 | 0 | 505 | 0 | 0 | 0 | 0 | 505 | 0 | 0 | 0 | 0 | 505 |
| 0 | 13 | PLANT WINTERIZATION & SUMMERIZATION- 2014 SC | CW | S3 | 04 | -335 | 388 | 0 | 0 | 0 | 53 | 0 | 53 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 53 |
| | | Sub-total | | | | 170 | 388 | 0 | 0 | 0 | 558 | 0 | 558 | 0 | 0 | 0 | 0 | 558 | 0 | 0 | 0 | 0 | 558 |
| WAT000352 | WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | JOS WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | CW | S2 | 05 | 316 | 0 | 0 | 0 | 0 | 316 | 0 | 316 | 0 | 0 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 316 |
| 0 | 18 | JOS MARKHAM/SHEPPARD BAYVIEW/FINCH HYDRO -2014 SC | CW | S3 | 05 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 84 |
| | | Sub-total | | | | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 400 |
| WAT000363 | ENGINEERING STUDIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | IMPROVED TREATMENT STUDIES | CW | S2 | 04 | 20 | 20 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 40 |
| 0 | 18 | Controlled Substances ID and Abatement | CW | S2 | 02 | 200 | 200 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 400 |
| 0 | 25 | FACILITY FORECAST/SOGR | CW | S6 | 03 | 0 | 0 | 100 | 150 | 50 | 300 | 250 | 550 | 0 | 0 | 0 | 0 | 550 | 0 | 0 | 0 | 0 | 550 |
| 0 | 31 | ENERGY EFFICIENCY IMPLEMENTATION - 2014 SC | CW | S3 | 04 | 50 | 50 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| 0 | 38 | CORROSION CONTROL | CW | S2 | 02 | 7,360 | 110 | 0 | 0 | 0 | 7,470 | 0 | 7,470 | 0 | 0 | 0 | 0 | 7,470 | 0 | 0 | 0 | 0 | 7,470 |
| 0 | 55 | CORROSION CONTROL -2014 SC | CW | S3 | 02 | -1,272 | 1,291 | 0 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 455 | 0 | -436 | 0 | 0 | 0 | 0 | 19 |
| 0 | 56 | IMPROVED TREATMENT STUDIES -2014 SC | CW | S3 | 04 | 620 | 80 | 50 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 750 |
| | | Sub-total | | | | 6,978 | 1,751 | 150 | 150 | 50 | 9,079 | 250 | 9,329 | 0 | 0 | 455 | 0 | 8,874 | 0 | 0 | 0 | 0 | 9,329 |
| WAT906334 | BUSINESS SYSTEM INFRASTRUCTURE - PW | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | NETWORK EQUIPMENT REPLACEMENT | CW | S2 | 03 | 205 | 1,163 | 0 | 0 | 0 | 1,368 | 0 | 1,368 | 0 | 0 | 0 | 0 | 1,368 | 0 | 0 | 0 | 0 | 1,368 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. Sub-project | Project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906334 | BUSINESS SYSTEM INFRASTRUCTURE - PW | | | | | | | | | | | | | | | | | | | | | | |
| 0 8 | NETWORK CABLE LIFECYCLE REPLACEMENT | | CW | S2 | 03 | 4,490 | 560 | 165 | 0 | 0 | 5,215 | 0 | 5,215 | 0 | 0 | 0 | 0 | 5,215 | 0 | 0 | 0 | 0 | 5,215 |
| 0 9 | TRUNK RADIO SYSTEM | | CW | S2 | 04 | 0 | 0 | 200 | 100 | 0 | 300 | 0 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 300 |
| 0 12 | PCS LEGACY ALARM IMPROVEMENT - 2014 SC | | CW | S3 | 04 | 0 | 600 | 0 | 0 | 0 | 600 | 0 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | 600 |
| 0 23 | RELIABILITY IMPROVEMENT PROGRAM | | CW | S2 | 04 | 475 | 600 | 500 | 150 | 150 | 1,875 | 350 | 2,225 | 0 | 0 | 0 | 0 | 2,225 | 0 | 0 | 0 | 0 | 2,225 |
| 0 39 | PCS LEGACY ALARM IMPROVEMENT | | CW | S2 | 04 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 750 |
| 0 41 | BUSINESS & TECH IMPROVEMENT - PHASE 2 | | CW | S2 | 04 | 1,524 | 500 | 0 | 0 | 0 | 2,024 | 0 | 2,024 | 0 | 0 | 0 | 0 | 2,024 | 0 | 0 | 0 | 0 | 2,024 |
| 0 42 | WTP WS PLC PLATFORM UPGRADE AND PCS IMPROVEMENTS | | CW | S2 | 04 | 1,610 | 3,000 | 440 | 0 | 0 | 5,050 | 0 | 5,050 | 0 | 0 | 0 | 0 | 5,050 | 0 | 0 | 0 | 0 | 5,050 |
| 0 43 | NETWORK EQUIPMENT REPLACEMENT -FUTURE YEAR | | CW | S6 | 04 | 0 | 0 | 1,586 | 1,700 | 710 | 3,996 | 8,390 | 12,386 | 0 | 0 | 0 | 0 | 12,386 | 0 | 0 | 0 | 0 | 12,386 |
| 0 54 | NETWORK EQUIPMENT REPLACEMENT -2014 SC | | CW | S3 | 03 | 360 | 360 | 0 | 0 | 0 | 720 | 0 | 720 | 0 | 0 | 0 | 0 | 720 | 0 | 0 | 0 | 0 | 720 |
| 0 55 | NETWORK CABLE LIFECYCLE REPLACEMENT -2014 SC | | CW | S3 | 03 | -2,530 | 4,980 | 1,951 | 11 | 0 | 4,412 | 0 | 4,412 | 0 | 0 | 0 | 0 | 4,412 | 0 | 0 | 0 | 0 | 4,412 |
| 0 56 | RELIABILITY IMPROVEMENT PROGRAM - 2014 SC | | CW | S3 | 04 | -275 | -400 | -500 | -150 | -150 | -1,475 | -350 | -1,825 | 0 | 0 | 0 | 0 | -1,825 | 0 | 0 | 0 | 0 | -1,825 |
| 0 57 | BUSINESS & TECH IMPROVEMENT - PHASE 2 -2014 SC | | CW | S3 | 04 | 1,172 | 1,068 | 970 | 1,047 | 792 | 5,049 | 0 | 5,049 | 0 | 0 | 0 | 0 | 5,049 | 0 | 0 | 0 | 0 | 5,049 |
| 0 58 | WTP WS PLC PLATFORM UPGRADE & PCS IMPROV -2014 SC | | CW | S3 | 04 | 1,049 | -1,500 | -200 | 760 | 0 | 109 | 0 | 109 | 0 | 0 | 0 | 0 | 109 | 0 | 0 | 0 | 0 | 109 |
| 0 61 | RELIABILITY IMPROVEMENT PROGRAM - FUTURE YEARS | | CW | S6 | 04 | 0 | 0 | 200 | 200 | 200 | 600 | 1,000 | 1,600 | 0 | 0 | 0 | 0 | 1,600 | 0 | 0 | 0 | 0 | 1,600 |
| | Sub-total | | | | | 8,830 | 10,931 | 5,312 | 3,818 | 1,702 | 30,593 | 9,390 | 39,983 | 0 | 0 | 0 | 0 | 39,983 | 0 | 0 | 0 | 0 | 39,983 |
| WAT906340 | METERING & METER READING SYS | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | AUTOMATED METER READING SYSTEM | | CW | S2 | 04 | 49,957 | 44,531 | 38,150 | 0 | 0 | 132,638 | 0 | 132,638 | 0 | 0 | 0 | 0 | 132,638 | 0 | 0 | 0 | 0 | 132,638 |
| 0 13 | AUTOMATED METER READING SYSTEM - 2014 SC | | CW | S3 | 04 | -2,507 | 1,125 | 6,525 | 5,000 | 0 | 10,143 | 0 | 10,143 | 0 | 0 | 0 | 0 | 10,143 | 0 | 0 | 0 | 0 | 10,143 |
| | Sub-total | | | | | 47,450 | 45,656 | 44,675 | 5,000 | 0 | 142,781 | 0 | 142,781 | 0 | 0 | 0 | 0 | 142,781 | 0 | 0 | 0 | 0 | 142,781 |
| WAT906467 | AVENUE ROAD TRUNKMAIN REPLACEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | AVENUE RD WM ENGINEERING - HI LEVEL TO LAWRENCE | | CW | S2 | 03 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 93 | 0 | 0 | 19 | 0 | 112 |
| 0 2 | AVENUE RD WM CONSTRUCTION - HI LEVELTO LAWRENCE | | CW | S2 | 03 | 1,500 | 1,500 | 700 | 0 | 0 | 3,700 | 0 | 3,700 | 0 | 0 | 47 | 0 | 2,962 | 0 | 0 | 691 | 0 | 3,700 |
| 0 23 | AVENUE RD WM ENG - HI LEVEL TO LAWRENCE -2014 SC | | CW | S3 | 03 | 23 | 0 | 0 | 0 | 0 | 23 | 0 | 23 | 0 | 0 | 68 | 0 | -51 | 0 | 0 | 6 | 0 | 23 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906467 | | AVENUE ROAD TRUNKMAIN REPLACEMENT | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24 | AVENUE RD WM CONS - HI LEVELTO LAWRENCE -2014 SC | CW | S3 | 03 | -1,300 | 0 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,818 | 0 | -1,818 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 335 | 1,500 | 2,000 | 0 | 0 | 3,835 | 0 | 3,835 | 0 | 0 | 1,933 | 0 | 1,186 | 0 | 0 | 716 | 0 | 0 | 3,835 |
| WAT906468 | | HORGAN TRUNK MAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | JOS - HORGAN TO ELLESMERE WM - ENGINEERING | CW | S2 | 05 | 200 | 200 | 200 | 200 | 200 | 1,000 | 0 | 1,000 | 0 | 0 | 190 | 0 | 485 | 0 | 0 | 325 | 0 | 0 | 1,000 |
| 0 | 3 | HORGAN TO ELLESMERE - CONSTRUCTION | CW | S2 | 05 | 0 | 3,000 | 5,000 | 10,000 | 10,000 | 28,000 | 20,000 | 48,000 | 0 | 0 | 9,077 | 0 | 23,342 | 0 | 0 | 15,581 | 0 | 0 | 48,000 |
| 0 | 39 | JOS - HORGAN TO ELLESMERE WM - ENG -2014 SC | CW | S3 | 05 | -98 | 100 | 650 | 650 | 300 | 1,602 | 20 | 1,622 | 0 | 0 | 807 | 0 | 290 | 0 | 0 | 525 | 0 | 0 | 1,622 |
| 0 | 40 | HORGAN TO ELLESMERE - CONSTRUCTION -2014 SC | CW | S3 | 05 | 0 | -2,500 | 1,000 | 8,000 | 8,000 | 14,500 | 500 | 15,000 | 0 | 0 | 14,833 | 0 | -4,703 | 0 | 0 | 4,870 | 0 | 0 | 15,000 |
| | | Sub-total | | | | 102 | 800 | 6,850 | 18,850 | 18,500 | 45,102 | 20,520 | 65,622 | 0 | 0 | 24,907 | 0 | 19,414 | 0 | 0 | 21,301 | 0 | 0 | 65,622 |
| WAT906470 | | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | CHEMICAL & RESIDUALS MNGT - ENG | CW | S2 | 02 | 1,150 | 200 | 200 | 200 | 200 | 1,950 | 450 | 2,400 | 0 | 0 | 121 | 0 | 2,279 | 0 | 0 | 0 | 0 | 0 | 2,400 |
| 0 | 11 | CHEMICAL & RESIDUALS MNGT - CONST | CW | S6 | 02 | 0 | 0 | 1,000 | 3,000 | 6,000 | 10,000 | 15,000 | 25,000 | 0 | 0 | 912 | 0 | 24,088 | 0 | 0 | 0 | 0 | 0 | 25,000 |
| 0 | 26 | CHEMICAL & RESIDUALS MNGT - ENG -2014 SC | CW | S3 | 02 | -1,000 | 500 | 350 | 50 | 50 | -50 | 50 | 0 | 0 | 0 | -121 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 150 | 700 | 1,550 | 3,250 | 6,250 | 11,900 | 15,500 | 27,400 | 0 | 0 | 912 | 0 | 26,488 | 0 | 0 | 0 | 0 | 0 | 27,400 |
| WAT906481 | | DISTRICT WATERMAINS - NEW | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | DIST W/MAINS NEW | CW | S2 | 05 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 296 | 0 | 204 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 | 3 | 10 YEAR NEW WATERMAINS | CW | S6 | 05 | 0 | 0 | 0 | 500 | 500 | 1,000 | 2,500 | 3,500 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 12 | DIST W/MAINS NEW -2014 SC | CW | S3 | 05 | -306 | 350 | 500 | 0 | 0 | 544 | 0 | 544 | 0 | 0 | -296 | 0 | 840 | 0 | 0 | 0 | 0 | 0 | 544 |
| | | Sub-total | | | | 194 | 350 | 500 | 500 | 500 | 2,044 | 2,500 | 4,544 | 0 | 0 | 3,500 | 0 | 1,044 | 0 | 0 | 0 | 0 | 0 | 4,544 |
| WAT906483 | | PW ENGINEERING | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | CAPITAL PRGMG & FACILITY ASSET PLANNING | CW | S2 | 03 | 1,110 | 750 | 0 | 0 | 0 | 1,860 | 0 | 1,860 | 0 | 0 | 0 | 0 | 1,860 | 0 | 0 | 0 | 0 | 0 | 1,860 |
| 0 | 5 | WATERMAIN ASSET PLANNING | CW | S2 | 03 | 561 | 400 | 0 | 0 | 0 | 961 | 0 | 961 | 0 | 0 | 0 | 0 | 961 | 0 | 0 | 0 | 0 | 0 | 961 |
| 0 | 7 | EASEMENT ACQUISITION | CW | S2 | 04 | 472 | 300 | 0 | 0 | 0 | 772 | 0 | 772 | 0 | 0 | 0 | 0 | 772 | 0 | 0 | 0 | 0 | 0 | 772 |
| 0 | 22 | WATER LOSS REDUCTION STRATEGY | CW | S2 | 03 | 364 | 225 | 1,500 | 2,000 | 2,500 | 6,589 | 350 | 6,939 | 0 | 0 | 0 | 0 | 6,939 | 0 | 0 | 0 | 0 | 0 | 6,939 |
| 0 | 37 | ASSET MANAGEMENT IMPLEMENTATION | CW | S6 | 04 | 0 | 500 | 1,000 | 1,000 | 1,000 | 3,500 | 3,500 | 7,000 | 0 | 0 | 0 | 0 | 7,000 | 0 | 0 | 0 | 0 | 0 | 7,000 |
| 0 | 38 | WATERMAIN ASSET PLANNING - 10 YR FORECAST | CW | S6 | 04 | 0 | 0 | 400 | 400 | 400 | 1,200 | 2,000 | 3,200 | 0 | 0 | 480 | 0 | 2,720 | 0 | 0 | 0 | 0 | 0 | 3,200 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906483 | PW ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 44 | WATERMAIN ASSET PLANNING -2014 SC | CW | S3 | 03 | 429 | 260 | 460 | 360 | 160 | 1,669 | 0 | 1,669 | 0 | 0 | 658 | 0 | 1,011 | 0 | 0 | 0 | 0 | 1,669 |
| 0 | 45 | JOS UPDATE - 2014 SC | CW | S3 | 05 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 0 | 46 | EASEMENT ACQUISITION - 2014 SC | CW | S3 | 04 | -172 | 0 | 0 | 0 | 0 | -172 | 0 | -172 | 0 | 0 | 0 | 0 | -172 | 0 | 0 | 0 | 0 | -172 |
| 0 | 47 | WATER LOSS REDUCTION STRATEGY - 2014 SC | CW | S3 | 03 | -14 | 78 | -800 | -1,000 | -1,500 | -3,236 | 650 | -2,586 | 0 | 0 | 0 | 0 | -2,586 | 0 | 0 | 0 | 0 | -2,586 |
| 0 | 48 | CAPITAL PRGMG & FACILITY ASSET PLANNING - 2014 SC | CW | S3 | 03 | -692 | 0 | 0 | 0 | 0 | -692 | 0 | -692 | 0 | 0 | 0 | 0 | -692 | 0 | 0 | 0 | 0 | -692 |
| | | Sub-total | | | | 2,068 | 2,513 | 2,560 | 2,760 | 2,560 | 12,461 | 6,500 | 18,961 | 0 | 0 | 1,148 | 0 | 17,813 | 0 | 0 | 0 | 0 | 18,961 |
| WAT906749 | DOWNTOWN W/M ENHANCEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | JOS - GERRARD ST WM - ENGINEERING | CW | S2 | 03 | 731 | 378 | 15 | 7 | 0 | 1,131 | 0 | 1,131 | 0 | 0 | 112 | 0 | 155 | 0 | 0 | 864 | 0 | 1,131 |
| 0 | 4 | JOS - GERRARD ST WM - CONSTRUCTION | CW | S2 | 03 | 24,554 | 14,920 | 0 | 0 | 0 | 39,474 | 0 | 39,474 | 0 | 0 | 3,916 | 0 | 5,373 | 0 | 0 | 30,185 | 0 | 39,474 |
| 0 | 35 | JOS - GERRARD ST WM - ENGINEERING -2014 SC | CW | S3 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 132 | 0 | -108 | 0 | 0 | 76 | 0 | 100 |
| 0 | 36 | JOS BATHURST-DUPONT W/M - ENG -2014 SC | CW | S3 | 05 | -33 | 0 | 0 | 0 | 0 | -33 | 0 | -33 | 0 | 0 | -6 | 0 | -27 | 0 | 0 | 0 | 0 | -33 |
| 0 | 37 | JOS - GERRARD ST WM - CONSTRUCTION -2014 SC | CW | S3 | 03 | -6,000 | -1,000 | 7,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,943 | 0 | -3,944 | 0 | 0 | 1 | 0 | 0 |
| 1 | 3 | JOS BATHURST-DUPONT W/M - ENG | CW | S2 | 05 | 33 | 0 | 0 | 0 | 0 | 33 | 0 | 33 | 0 | 0 | 6 | 0 | 27 | 0 | 0 | 0 | 0 | 33 |
| | | Sub-total | | | | 19,385 | 14,298 | 7,015 | 7 | 0 | 40,705 | 0 | 40,705 | 0 | 0 | 8,103 | 0 | 1,476 | 0 | 0 | 31,126 | 0 | 40,705 |
| WAT906752 | TRANSMISSION R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 49 | TRUNK WATERMAIN REHAB | CW | S2 | 03 | 250 | 250 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 500 |
| 0 | 50 | 10 YR TRUNK WATERMAIN REHAB | CW | S6 | 03 | 0 | 0 | 250 | 250 | 250 | 750 | 1,250 | 2,000 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 |
| 0 | 51 | CAST IRON TRUNK REPLC - PHASE 2 | CW | S2 | 03 | 1,000 | 5,000 | 2,200 | 320 | 0 | 8,520 | 0 | 8,520 | 0 | 0 | 0 | 0 | 8,520 | 0 | 0 | 0 | 0 | 8,520 |
| 0 | 52 | CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING | CW | S4 | 03 | 300 | 400 | 600 | 800 | 700 | 2,800 | 1,440 | 4,240 | 0 | 0 | 0 | 0 | 4,240 | 0 | 0 | 0 | 0 | 4,240 |
| 0 | 58 | CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION | CW | S6 | 03 | 0 | 0 | 2,000 | 3,500 | 2,350 | 7,850 | 18,400 | 26,250 | 0 | 0 | 0 | 0 | 26,250 | 0 | 0 | 0 | 0 | 26,250 |
| 0 | 59 | CAST IRON TRUNK REPLC - PHASE 2 - 2014 SC | CW | S3 | 03 | -1 | -196 | 310 | -56 | 0 | 57 | 0 | 57 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 57 |
| 1 | 2 | TRANSF & SW'GEAR REPLACMENT DESIGN | CW | S4 | 03 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 50 |
| | | Sub-total | | | | 1,599 | 5,454 | 5,360 | 4,814 | 3,300 | 20,527 | 21,090 | 41,617 | 0 | 0 | 0 | 0 | 41,617 | 0 | 0 | 0 | 0 | 41,617 |
| WAT906900 | TRANSMISSION R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | TRANS FACILITIES REHAB | CW | S2 | 03 | 548 | 0 | 0 | 0 | 0 | 548 | 0 | 548 | 0 | 0 | 0 | 0 | 548 | 0 | 0 | 0 | 0 | 548 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906900 | TRANSMISSION R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | ELLESMERE P.S. UPGRADE | CW | S2 | 05 | 0 | 25 | 525 | 0 | 0 | 550 | 0 | 550 | 0 | 0 | 63 | 0 | 139 | 0 | 0 | 348 | 0 | 550 |
| 0 | 7 | RESERVOIR REHAB -FUTURE | CW | S6 | 03 | 0 | 0 | 0 | 250 | 4,400 | 4,650 | 26,600 | 31,250 | 0 | 0 | 0 | 0 | 31,250 | 0 | 0 | 0 | 0 | 31,250 |
| 0 | 26 | SCARBOROUGH PS - PUMP REPLC | CW | S2 | 03 | 884 | 20 | 0 | 0 | 0 | 904 | 0 | 904 | 0 | 0 | 0 | 0 | 904 | 0 | 0 | 0 | 0 | 904 |
| 0 | 27 | EGLINTON PS -PUMP REPLC | CW | S2 | 03 | 2,982 | 100 | 0 | 0 | 0 | 3,082 | 0 | 3,082 | 0 | 0 | 0 | 0 | 3,082 | 0 | 0 | 0 | 0 | 3,082 |
| 0 | 32 | ELLESMERE P.S. UPGRADE -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | -64 | 0 | 0 | 0 | 0 | 0 |
| 0 | 33 | SCARBOROUGH PS - PUMP REPLC -2014 SC | CW | S3 | 03 | -284 | 230 | 0 | 0 | 0 | -54 | 0 | -54 | 0 | 0 | 0 | 0 | -54 | 0 | 0 | 0 | 0 | -54 |
| 0 | 34 | EGLINTON PS -PUMP REPLC -2014 SC | CW | S3 | 03 | -1,182 | 650 | 0 | 0 | 0 | -532 | 0 | -532 | 0 | 0 | 0 | 0 | -532 | 0 | 0 | 0 | 0 | -532 |
| 0 | 35 | TRANS FACILITIES REHAB - 2014 SC | CW | S3 | 03 | 17 | 150 | 0 | 0 | 0 | 167 | 0 | 167 | 0 | 0 | 0 | 0 | 167 | 0 | 0 | 0 | 0 | 167 |
| 0 | 36 | RESERVOIR REHAB/WATER QUALITY PROTECTION | CW | S4 | 03 | 300 | 5,250 | 500 | 0 | 0 | 6,050 | 0 | 6,050 | 0 | 0 | 0 | 0 | 6,050 | 0 | 0 | 0 | 0 | 6,050 |
| | | Sub-total | | | | 3,265 | 6,425 | 1,025 | 250 | 4,400 | 15,365 | 26,600 | 41,965 | 0 | 0 | 127 | 0 | 41,490 | 0 | 0 | 348 | 0 | 41,965 |
| WAT906902 | HARRIS W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | BUILDING ENVELOPE REHAB | CW | S2 | 03 | 20 | 10 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 30 |
| 0 | 3 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 0 | 500 | 500 | 500 | 500 | 2,000 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 |
| 0 | 6 | LIQUID CHEMICAL SYSTEM RELOCATION | CW | S2 | 04 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 16 |
| 0 | 13 | FILTER MEDIA REPLACEMENT PH2 | CW | S2 | 03 | 350 | 350 | 0 | 0 | 150 | 850 | 300 | 1,150 | 0 | 0 | 0 | 0 | 1,150 | 0 | 0 | 0 | 0 | 1,150 |
| 0 | 15 | OFFSHORE CHLORINATION REHAB | CW | S6 | 03 | 0 | 200 | 1,000 | 3,000 | 3,000 | 7,200 | 3,000 | 10,200 | 0 | 0 | 0 | 0 | 10,200 | 0 | 0 | 0 | 0 | 10,200 |
| 0 | 21 | HVAC REHAB - CONSTRUCTION | CW | S2 | 03 | 1,059 | 1,000 | 1,000 | 0 | 0 | 3,059 | 0 | 3,059 | 0 | 0 | 0 | 0 | 3,059 | 0 | 0 | 0 | 0 | 3,059 |
| 0 | 22 | TRAVELLING SCREEN REPLACEMENT | CW | S2 | 03 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 0 | 0 | 0 | 780 |
| 0 | 29 | HARRIS FILTERS REHABILITATION | CW | S6 | 03 | 0 | 0 | 0 | 2,000 | 8,000 | 10,000 | 40,000 | 50,000 | 0 | 0 | 0 | 0 | 50,000 | 0 | 0 | 0 | 0 | 50,000 |
| 0 | 30 | HARRIS DISINFECTION MODIFICATIONS | CW | S6 | 04 | 0 | 250 | 1,500 | 3,500 | 3,500 | 8,750 | 0 | 8,750 | 0 | 0 | 320 | 0 | 8,430 | 0 | 0 | 0 | 0 | 8,750 |
| 0 | 56 | REHAB OF SETTLING BASIN ROOF & SLUICE GATES | CW | S2 | 03 | 2,396 | 2,200 | 2,020 | 0 | 0 | 6,616 | 0 | 6,616 | 0 | 0 | 0 | 0 | 6,616 | 0 | 0 | 0 | 0 | 6,616 |
| 0 | 65 | FILTER MEDIA REPLACEMENT PH2 -2014 SC | CW | S3 | 03 | -150 | -150 | 150 | 0 | -150 | -300 | -300 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | -600 |
| 0 | 66 | FACILITY & PROCESS UPGRADES -2014 SC | CW | S3 | 03 | 500 | 0 | -500 | -500 | -500 | -1,000 | 0 | -1,000 | 0 | 0 | 0 | 0 | -1,000 | 0 | 0 | 0 | 0 | -1,000 |
| 0 | 67 | TRAVELLING SCREEN REPLACEMENT -2014 SC | CW | S3 | 03 | 320 | 0 | 0 | 0 | 0 | 320 | 0 | 320 | 0 | 0 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 320 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906902 | HARRIS W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 68 | HVAC REHAB - CONSTRUCTION -2014 SC | CW | S3 | 03 | -264 | 0 | 0 | 250 | 0 | -14 | 0 | -14 | 0 | 0 | 0 | 0 | -14 | 0 | 0 | 0 | 0 | 0 | -14 |
| 0 | 69 | REHAB OF SETTLING BASIN ROOF&SLUICE GATES -2014 SC | CW | S3 | 03 | 1,024 | 6,000 | 2,500 | 0 | 0 | 9,524 | 0 | 9,524 | 0 | 0 | 0 | 0 | 9,524 | 0 | 0 | 0 | 0 | 0 | 9,524 |
| 0 | 70 | FILTER MEDIA REPLACEMENT PH2 | CW | S6 | 03 | 0 | 0 | 0 | 0 | 150 | 150 | 300 | 450 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 | 450 |
| 0 | 71 | FACILITY & PROCESS UPGRADES | CW | S6 | 03 | 0 | 0 | 500 | 500 | 500 | 1,500 | 2,500 | 4,000 | 0 | 0 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 0 | 4,000 |
| 0 | 72 | BUILDING ENVELOPE REHAB - 2014 SC | CW | S3 | 03 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | 0 | -10 |
| 0 | 73 | LIQUID CHEMICAL SYSTEM RELOCATION - 2014 SC | CW | S3 | 04 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | -8 |
| | | Sub-total | | | | 6,033 | 10,360 | 8,670 | 9,250 | 15,150 | 49,463 | 45,800 | 95,263 | 0 | 0 | 320 | 0 | 94,943 | 0 | 0 | 0 | 0 | 0 | 95,263 |
| WAT906903 | FJ HORGAN W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 614 | 500 | 500 | 500 | 500 | 2,614 | 2,000 | 4,614 | 0 | 0 | 0 | 0 | 4,614 | 0 | 0 | 0 | 0 | 0 | 4,614 |
| 0 | 8 | RAW WATER PUMP UPGRADES | CW | S2 | 03 | 512 | 700 | 0 | 0 | 0 | 1,212 | 0 | 1,212 | 0 | 0 | 0 | 0 | 1,212 | 0 | 0 | 0 | 0 | 0 | 1,212 |
| 0 | 15 | REPLACEMENT OF MCCS | CW | S2 | 03 | 1,450 | 2,265 | 2,360 | 725 | 0 | 6,800 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 | 0 | 0 | 0 | 0 | 0 | 6,800 |
| 0 | 16 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT | CW | S2 | 03 | 534 | 2,500 | 1,950 | 0 | 0 | 4,984 | 0 | 4,984 | 0 | 0 | 0 | 0 | 4,984 | 0 | 0 | 0 | 0 | 0 | 4,984 |
| 0 | 26 | FACILITY & PROCESS UPGRADES -2014 SC | CW | S3 | 03 | 244 | 444 | -150 | -500 | -500 | -462 | -2,000 | -2,462 | 0 | 0 | 0 | 0 | -2,462 | 0 | 0 | 0 | 0 | 0 | -2,462 |
| 0 | 27 | REPLACEMENT OF MCCS -2014 SC | CW | S3 | 03 | -1,150 | -795 | 990 | 875 | 200 | 120 | 0 | 120 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 | 120 |
| 0 | 28 | FACILITY & PROCESS UPGRADES | CW | S6 | 03 | 0 | 0 | 885 | 885 | 885 | 2,655 | 1,000 | 3,655 | 0 | 0 | 0 | 0 | 3,655 | 0 | 0 | 0 | 0 | 0 | 3,655 |
| 0 | 29 | RAW WATER PUMP UPGRADES - 2014 SC | CW | S3 | 03 | 188 | -160 | 0 | 0 | 0 | 28 | 0 | 28 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 28 |
| 0 | 30 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT - 2014 SC | CW | S3 | 03 | -484 | -2,000 | 550 | 1,950 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 16 |
| | | Sub-total | | | | 1,908 | 3,454 | 7,085 | 4,435 | 1,085 | 17,967 | 1,000 | 18,967 | 0 | 0 | 0 | 0 | 18,967 | 0 | 0 | 0 | 0 | 0 | 18,967 |
| WAT906906 | TRUNK WATERMAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | JOS - D4 W/M ENGINEERING | CW | S3 | 05 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 10 |
| 0 | 13 | CAST IRON T-M REPLACEMENT - PH1 | CW | S2 | 03 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 40 |
| 0 | 25 | JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG | CW | S2 | 05 | 702 | 400 | 400 | 0 | 0 | 1,502 | 0 | 1,502 | 0 | 0 | 357 | 0 | 803 | 0 | 0 | 342 | 0 | 0 | 1,502 |
| 0 | 38 | JOS - Scar PS to St. Clair and Midland (CONST) | CW | S6 | 05 | 0 | 500 | 2,000 | 7,000 | 7,000 | 16,500 | 9,500 | 26,000 | 0 | 0 | 7,473 | 0 | 12,621 | 0 | 0 | 5,906 | 0 | 0 | 26,000 |
| 0 | 57 | JOS-MT. PLEASANT WM-ENGINEERING | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906906 | TRUNK WATERMAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 63 | JOS WM SCAR PS TO ST CLAIR&MIDLAND -ENG -2014 SC | CW | S3 | 05 | -102 | 200 | 150 | 400 | 0 | 648 | 0 | 648 | 0 | 0 | 672 | 0 | -170 | 0 | 0 | 146 | 0 | 648 |
| 0 | 64 | CAST IRON T-M REPLACEMENT - PH1 - 2014 SC | CW | S3 | 03 | -40 | 0 | 0 | 0 | 0 | -40 | 0 | -40 | 0 | 0 | 0 | 0 | -40 | 0 | 0 | 0 | 0 | -40 |
| | | Sub-total | | | | 610 | 1,100 | 2,550 | 7,400 | 7,000 | 18,660 | 9,500 | 28,160 | 0 | 0 | 8,502 | 0 | 13,264 | 0 | 0 | 6,394 | 0 | 28,160 |
| WAT906914 | SWITCH GEAR TRANSFORMER | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | ARC FLASH ANALYSIS | CW | S2 | 01 | 288 | 0 | 0 | 0 | 0 | 288 | 0 | 288 | 0 | 0 | 0 | 0 | 288 | 0 | 0 | 0 | 0 | 288 |
| 0 | 13 | INDOOR/OUTDOOR SWITCHGEAR (5 Stations Phase 3) | CW | S2 | 03 | 5,140 | 6,900 | 2,435 | 0 | 0 | 14,475 | 0 | 14,475 | 0 | 0 | 0 | 0 | 14,475 | 0 | 0 | 0 | 0 | 14,475 |
| 0 | 25 | ARC FLASH ANALYSIS -2014 SC | CW | S3 | 01 | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 62 |
| 0 | 26 | INDOOR/OUTDOOR SWITCHGEAR(5 Stations Ph3) -2014 SC | CW | S3 | 03 | -4,465 | -500 | 3,800 | 0 | 0 | -1,165 | 0 | -1,165 | 0 | 0 | 0 | 0 | -1,165 | 0 | 0 | 0 | 0 | -1,165 |
| | | Sub-total | | | | 1,025 | 6,400 | 6,235 | 0 | 0 | 13,660 | 0 | 13,660 | 0 | 0 | 0 | 0 | 13,660 | 0 | 0 | 0 | 0 | 13,660 |
| WAT906917 | TRANSMISSION OPERATIONS OPTIMIZER | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | TRANSMISSION OPERATIONS OPTIMIZER | CW | S2 | 04 | 448 | 0 | 0 | 0 | 0 | 448 | 0 | 448 | 0 | 0 | 0 | 0 | 448 | 0 | 0 | 0 | 0 | 448 |
| 0 | 9 | TRANSMISSION OPERATIONS OPTIMIZER - 2014 SC | CW | S3 | 04 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 112 |
| | | Sub-total | | | | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 560 |
| WAT906918 | WATER SUSTAINABILITY PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | WATER SUSTAINABILITY PROGRAM | CW | S2 | 04 | 4,200 | 5,300 | 5,000 | 0 | 0 | 14,500 | 0 | 14,500 | 0 | 0 | 0 | 0 | 14,500 | 0 | 0 | 0 | 0 | 14,500 |
| 0 | 8 | WATER SUSTAINABILITY PROGRAM -2014 SC | CW | S3 | 04 | -4,000 | -2,550 | -650 | 4,000 | 0 | -3,200 | 0 | -3,200 | 0 | 0 | 686 | 0 | -3,886 | 0 | 0 | 0 | 0 | -3,200 |
| | | Sub-total | | | | 200 | 2,750 | 4,350 | 4,000 | 0 | 11,300 | 0 | 11,300 | 0 | 0 | 686 | 0 | 10,614 | 0 | 0 | 0 | 0 | 11,300 |
| WAT906919 | RL CLARK W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 603 | 300 | 300 | 300 | 100 | 1,603 | 0 | 1,603 | 0 | 0 | 0 | 0 | 1,603 | 0 | 0 | 0 | 0 | 1,603 |
| 0 | 8 | PROCESS EQUIPMENT UPGRADE ENGINEERING | CW | S2 | 03 | 1,535 | 625 | 665 | 584 | 25 | 3,434 | 25 | 3,459 | 0 | 0 | 0 | 0 | 3,459 | 0 | 0 | 0 | 0 | 3,459 |
| 0 | 11 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION - FUTURE | CW | S6 | 03 | 0 | 0 | 0 | 0 | 2,724 | 2,724 | 68,574 | 71,298 | 0 | 0 | 0 | 0 | 71,298 | 0 | 0 | 0 | 0 | 71,298 |
| 0 | 12 | FACILITY & PROCESS UPGRADES - FUTURE | CW | S6 | 03 | 0 | 0 | 150 | 150 | 150 | 450 | 750 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 0 | 0 | 0 | 1,200 |
| 0 | 15 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION | CW | S2 | 03 | 8,790 | 10,000 | 12,000 | 12,000 | 12,724 | 55,514 | 68,574 | 124,088 | 0 | 0 | 0 | 0 | 124,088 | 0 | 0 | 0 | 0 | 124,088 |
| 0 | 44 | EVALUATION & COMMUNICATION SYSTEMS | CW | S2 | 03 | 1,140 | 125 | 0 | 0 | 0 | 1,265 | 0 | 1,265 | 0 | 0 | 0 | 0 | 1,265 | 0 | 0 | 0 | 0 | 1,265 |
| 0 | 49 | PROCESS EQUIPMENT UPGRADE ENGINEERING -2014 SC | CW | S3 | 03 | -280 | 0 | 0 | 0 | 0 | -280 | 0 | -280 | 0 | 0 | 194 | 0 | -474 | 0 | 0 | 0 | 0 | -280 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. Sub-Proj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906919 | RL CLARK W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 50 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION -2014 SC | | CW | S3 | 03 | -674 | 0 | 0 | 0 | -2,724 | -3,398 | -68,574 | -71,972 | 0 | 0 | 3,169 | 0 | -75,141 | 0 | 0 | 0 | 0 | -71,972 |
| 0 51 | EVALUATION & COMMUNICATION SYSTEMS -2014 SC | | CW | S3 | 03 | -391 | 1,080 | 117 | 20 | 7 | 833 | 0 | 833 | 0 | 0 | 0 | 0 | 833 | 0 | 0 | 0 | 0 | 833 |
| 0 52 | FACILITY & PROCESS UPGRADES - 2014 SC | | CW | S3 | 03 | -303 | -130 | -300 | -300 | -100 | -1,133 | 0 | -1,133 | 0 | 0 | 0 | 0 | -1,133 | 0 | 0 | 0 | 0 | -1,133 |
| | Sub-total | | | | | 10,420 | 12,000 | 12,932 | 12,754 | 12,906 | 61,012 | 69,349 | 130,361 | 0 | 0 | 3,363 | 0 | 126,998 | 0 | 0 | 0 | 0 | 130,361 |
| WAT906930 | DIST W/M REPLACEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 4 | 10Yr Watermain Replacement | | CW | S6 | 03 | 0 | 34,750 | 55,620 | 59,630 | 84,000 | 234,000 | 507,000 | 741,000 | 0 | 0 | 69,134 | 0 | 671,866 | 0 | 0 | 0 | 0 | 741,000 |
| 0 15 | W/M REPLACEMENT - STAND ALONE | | CW | S2 | 03 | 14,924 | 0 | 0 | 0 | 0 | 14,924 | 0 | 14,924 | 0 | 0 | 0 | 0 | 14,924 | 0 | 0 | 0 | 0 | 14,924 |
| 0 29 | DIST W/M REPLACEMENT - 2012 | | CW | S2 | 03 | 4,732 | 0 | 0 | 0 | 0 | 4,732 | 0 | 4,732 | 0 | 0 | 0 | 0 | 4,732 | 0 | 0 | 0 | 0 | 4,732 |
| 0 39 | DIST W/M REPLACEMENT 2013 | | CW | S2 | 03 | 11,083 | 0 | 0 | 0 | 0 | 11,083 | 0 | 11,083 | 0 | 0 | 0 | 0 | 11,083 | 0 | 0 | 0 | 0 | 11,083 |
| 0 41 | WATERMAIN UPGRADES | | CW | S2 | 05 | 1,035 | 0 | 0 | 0 | 0 | 1,035 | 0 | 1,035 | 0 | 0 | 613 | 0 | 422 | 0 | 0 | 0 | 0 | 1,035 |
| 0 42 | 10 YEAR WATERMAIN UPGRADES | | CW | S6 | 05 | 0 | 6,700 | 12,000 | 12,000 | 12,000 | 42,700 | 76,000 | 118,700 | 0 | 0 | 22,158 | 0 | 96,542 | 0 | 0 | 0 | 0 | 118,700 |
| 0 50 | DIST W/M REPLACEMENT 2013 - 2014 SC | | CW | S3 | 03 | -6,150 | 4,450 | 0 | 0 | 0 | -1,700 | 0 | -1,700 | 0 | 0 | 0 | 0 | -1,700 | 0 | 0 | 0 | 0 | -1,700 |
| 0 51 | DIST WM REPLACMENT - 2014 | | CW | S4 | 03 | 19,719 | 10,482 | 2,000 | 0 | 0 | 32,201 | 0 | 32,201 | 0 | 0 | 0 | 0 | 32,201 | 0 | 0 | 0 | 0 | 32,201 |
| 0 52 | WATERMAIN UPGRADES - 2014 | | CW | S4 | 05 | 5,407 | 3,990 | 1,000 | 0 | 0 | 10,397 | 0 | 10,397 | 0 | 0 | 0 | 0 | 10,397 | 0 | 0 | 0 | 0 | 10,397 |
| 0 53 | W/M REPLACEMENT - STAND ALONE -2014 SC | | CW | S3 | 03 | -6,045 | 6,936 | 0 | 0 | 0 | 891 | 0 | 891 | 0 | 0 | 0 | 0 | 891 | 0 | 0 | 0 | 0 | 891 |
| 0 54 | WATERMAIN UPGRADES -2014 SC | | CW | S3 | 05 | 3,121 | 2,000 | 0 | 0 | 0 | 5,121 | 0 | 5,121 | 0 | 0 | -613 | 0 | 5,734 | 0 | 0 | 0 | 0 | 5,121 |
| 0 55 | WATERMAIN REPLACEMENT - METROLINX | | CW | S4 | 03 | 25 | 600 | 600 | 1,000 | 875 | 3,100 | 0 | 3,100 | 0 | 0 | 0 | 0 | 3,100 | 0 | 0 | 0 | 0 | 3,100 |
| 0 56 | DIST W/M REPLACEMENT - 2012 - 2014 SC | | CW | S3 | 03 | -2,888 | 3,125 | 0 | 0 | 0 | 237 | 0 | 237 | 0 | 0 | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 237 |
| | Sub-total | | | | | 44,963 | 73,033 | 71,220 | 72,630 | 96,875 | 358,721 | 583,000 | 941,721 | 0 | 0 | 91,292 | 0 | 850,429 | 0 | 0 | 0 | 0 | 941,721 |
| WAT906932 | DIST W/M REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | WATERMAIN CLEANING &LINING | | CW | S2 | 04 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 200 |
| 0 3 | 10 Year Watermain Rehabilitation | | CW | S6 | 03 | 0 | 0 | 1,500 | 23,700 | 45,200 | 70,400 | 299,300 | 369,700 | 0 | 0 | 0 | 0 | 369,700 | 0 | 0 | 0 | 0 | 369,700 |
| 0 4 | Hydrant & Valve Repair | | CW | S2 | 03 | 645 | 0 | 0 | 0 | 0 | 645 | 0 | 645 | 0 | 0 | 0 | 0 | 645 | 0 | 0 | 0 | 0 | 645 |
| 0 5 | CUT REPAIRS - 2014 SC | | CW | S3 | 03 | 1,994 | 4,371 | 0 | 0 | 0 | 6,365 | 0 | 6,365 | 0 | 0 | 0 | 0 | 6,365 | 0 | 0 | 0 | 0 | 6,365 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906932 | DIST W/M REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | WATERMAIN STRUCTURAL LINING | CW | S2 | 03 | 17,559 | 0 | 0 | 0 | 0 | 17,559 | 0 | 17,559 | 0 | 0 | 0 | 0 | 17,559 | 0 | 0 | 0 | 0 | 0 | 17,559 |
| 0 | 7 | CATHODIC PROTECTION | CW | S2 | 03 | 5,244 | 0 | 0 | 0 | 0 | 5,244 | 0 | 5,244 | 0 | 0 | 0 | 0 | 5,244 | 0 | 0 | 0 | 0 | 0 | 5,244 |
| 0 | 30 | CUT REPAIRS | CW | S2 | 03 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 0 | 0 | 0 | 0 | 2,250 |
| 0 | 34 | CUT REPAIRS- FUTURE YEAR | CW | S6 | 03 | 0 | 0 | 4,502 | 4,637 | 4,776 | 13,915 | 26,118 | 40,033 | 0 | 0 | 0 | 0 | 40,033 | 0 | 0 | 0 | 0 | 0 | 40,033 |
| 0 | 38 | Hydrant & Valve Repair -2014 SC | CW | S3 | 03 | 355 | 1,000 | 1,000 | 1,000 | 0 | 3,355 | 0 | 3,355 | 0 | 0 | 0 | 0 | 3,355 | 0 | 0 | 0 | 0 | 0 | 3,355 |
| 0 | 39 | WATERMAIN STRUCTURAL LINING -2014 SC | CW | S3 | 03 | 13,697 | 31,500 | 35,000 | 30,500 | 0 | 110,697 | 0 | 110,697 | 0 | 0 | 0 | 0 | 110,697 | 0 | 0 | 0 | 0 | 0 | 110,697 |
| 0 | 40 | CATHODIC PROTECTION -2014 SC | CW | S3 | 03 | -1,209 | 3,500 | 3,500 | 3,500 | 0 | 9,291 | 0 | 9,291 | 0 | 0 | 0 | 0 | 9,291 | 0 | 0 | 0 | 0 | 0 | 9,291 |
| 0 | 41 | WATERMAIN CLEANING &LINING - 2014 SC | CW | S3 | 04 | -56 | 0 | 0 | 0 | 0 | -56 | 0 | -56 | 0 | 0 | 0 | 0 | -56 | 0 | 0 | 0 | 0 | 0 | -56 |
| | | Sub-total | | | | 40,679 | 40,371 | 45,502 | 63,337 | 49,976 | 239,865 | 325,418 | 565,283 | 0 | 0 | 0 | 0 | 565,283 | 0 | 0 | 0 | 0 | 0 | 565,283 |
| WAT906934 | DIST WATER SERVICE REPAIR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 4 | 10 YR ALL DIST WSR - LEAD | CW | S6 | 02 | 0 | 0 | 0 | 0 | 9,835 | 9,835 | 53,779 | 63,614 | 0 | 0 | 0 | 0 | 63,614 | 0 | 0 | 0 | 0 | 0 | 63,614 |
| 0 | 6 | 10Yr All Dist WSR - SOGR | CW | S6 | 02 | 0 | 0 | 5,665 | 5,835 | 6,010 | 17,510 | 32,046 | 49,556 | 0 | 0 | 0 | 0 | 49,556 | 0 | 0 | 0 | 0 | 0 | 49,556 |
| 0 | 12 | ALL DISTRICT WSR - LEAD REPLACEMENT | CW | S2 | 02 | 10,000 | 1,989 | 0 | 0 | 0 | 11,989 | 0 | 11,989 | 0 | 0 | 0 | 0 | 11,989 | 0 | 0 | 0 | 0 | 0 | 11,989 |
| 0 | 20 | WATER SERVICE REPAIR - STAND ALONE | CW | S2 | 02 | 514 | 0 | 0 | 0 | 0 | 514 | 0 | 514 | 0 | 0 | 0 | 0 | 514 | 0 | 0 | 0 | 0 | 0 | 514 |
| 0 | 32 | WSR CUT REPAIRS | CW | S2 | 03 | 2,170 | 0 | 0 | 0 | 0 | 2,170 | 0 | 2,170 | 0 | 0 | 0 | 0 | 2,170 | 0 | 0 | 0 | 0 | 0 | 2,170 |
| 0 | 41 | 2013 WATER SERVICE REPLACMENT -SOGR | CW | S2 | 02 | 1,834 | 0 | 0 | 0 | 0 | 1,834 | 0 | 1,834 | 0 | 0 | 0 | 0 | 1,834 | 0 | 0 | 0 | 0 | 0 | 1,834 |
| 0 | 45 | WSR CUT REPAIRS - FUTURE | CW | S6 | 03 | 0 | 0 | 2,251 | 2,319 | 2,388 | 6,958 | 13,061 | 20,019 | 0 | 0 | 0 | 0 | 20,019 | 0 | 0 | 0 | 0 | 0 | 20,019 |
| 0 | 52 | 2014 WATER SERVICE REPLACEMENT - SOGR | CW | S4 | 02 | 3,000 | 5,000 | 0 | 0 | 0 | 8,000 | 0 | 8,000 | 0 | 0 | 0 | 0 | 8,000 | 0 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 53 | ALL DISTRICT WSR - LEAD REPLACEMENT -2014 SC | CW | S3 | 02 | -116 | 7,850 | 9,250 | 9,250 | 0 | 26,234 | 0 | 26,234 | 0 | 0 | 0 | 0 | 26,234 | 0 | 0 | 0 | 0 | 0 | 26,234 |
| 0 | 54 | WATER SERVICE REPAIR - STAND ALONE -2014 SC | CW | S3 | 02 | 918 | 0 | 0 | 0 | 0 | 918 | 0 | 918 | 0 | 0 | 0 | 0 | 918 | 0 | 0 | 0 | 0 | 0 | 918 |
| 0 | 55 | WSR CUT REPAIRS - 2014 SC | CW | S3 | 03 | -48 | 2,186 | 0 | 0 | 0 | 2,138 | 0 | 2,138 | 0 | 0 | 0 | 0 | 2,138 | 0 | 0 | 0 | 0 | 0 | 2,138 |
| 0 | 56 | 2012 WATER SERVICE REPLACEMENT - 2014 SC | CW | S3 | 02 | 84 | 50 | 0 | 0 | 0 | 134 | 0 | 134 | 0 | 0 | 0 | 0 | 134 | 0 | 0 | 0 | 0 | 0 | 134 |
| 0 | 57 | 2013 WATER SERVICE REPLACMENT -SOGR - 2014 SC | CW | S3 | 02 | -207 | 2,550 | 0 | 0 | 0 | 2,343 | 0 | 2,343 | 0 | 0 | 0 | 0 | 2,343 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | Sub-total | | | | 18,149 | 19,625 | 17,166 | 17,404 | 18,233 | 90,577 | 98,886 | 189,463 | 0 | 0 | 0 | 0 | 189,463 | 0 | 0 | 0 | 0 | 0 | 189,463 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906935 | NEW SERVICE CONNECTIONS | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | NEW SERVICE CONNECTIONS - CUT REPAIRS | CW | S2 | 05 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 7 | NEW SERVICE CONNECTIONS - SITE SERVICING | CW | S2 | 05 | 14,000 | 4,000 | 0 | 0 | 0 | 18,000 | 0 | 18,000 | 0 | 0 | 0 | 0 | 18,000 | 0 | 0 | 0 | 0 | 0 | 18,000 |
| 0 | 14 | 10 YEAR WATER SERVICES CONNECTIONS | CW | S6 | 05 | 0 | 0 | 14,000 | 14,000 | 14,000 | 42,000 | 70,000 | 112,000 | 0 | 0 | 0 | 0 | 112,000 | 0 | 0 | 0 | 0 | 0 | 112,000 |
| 0 | 15 | NEW SERVICE CONNECTIONS - CUT REPAIRS - FUTURE | CW | S6 | 05 | 0 | 0 | 3,500 | 3,500 | 3,500 | 10,500 | 17,500 | 28,000 | 0 | 0 | 0 | 0 | 28,000 | 0 | 0 | 0 | 0 | 0 | 28,000 |
| 0 | 16 | NEW SERVICE CONNECTIONS - CUT REPAIRS -2014 SC | CW | S3 | 05 | 0 | 3,500 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 17 | NEW SERVICE CONNECTIONS - SITE SERVICING - 2014 SC | CW | S3 | 05 | 0 | 10,000 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| | | Sub-total | | | | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 87,500 | 87,500 | 175,000 | 0 | 0 | 0 | 0 | 175,000 | 0 | 0 | 0 | 0 | 0 | 175,000 |
| WAT906951 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | ROAD RESTORATION - 2014 SC | CW | S3 | 03 | 5,198 | 0 | 0 | 0 | 0 | 5,198 | 0 | 5,198 | 0 | 0 | 0 | 0 | 5,198 | 0 | 0 | 0 | 0 | 0 | 5,198 |
| 0 | 2 | CONSULTING FEES | CW | S2 | 03 | 5,834 | 9,000 | 0 | 0 | 0 | 14,834 | 0 | 14,834 | 0 | 0 | 0 | 0 | 14,834 | 0 | 0 | 0 | 0 | 0 | 14,834 |
| 0 | 5 | 10 YEAR ENGINEERING | CW | S6 | 03 | 0 | 25,623 | 26,892 | 27,684 | 28,499 | 108,698 | 175,611 | 284,309 | 0 | 0 | 0 | 0 | 284,309 | 0 | 0 | 0 | 0 | 0 | 284,309 |
| 0 | 37 | SALARIES: LEGAL SALARIES - 2014 SC | CW | S3 | 03 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 | 188 |
| 0 | 45 | ECS SALARIES | CW | S4 | 03 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 0 | 0 | 0 | 0 | 12,033 |
| 0 | 46 | SALARIES: DISTRICT OPERATIONS - 2014 SC | CW | S3 | 03 | 623 | 0 | 0 | 0 | 0 | 623 | 0 | 623 | 0 | 0 | 0 | 0 | 623 | 0 | 0 | 0 | 0 | 0 | 623 |
| 0 | 49 | ROAD RESTORATION - FUTURE | CW | S6 | 03 | 0 | 5,354 | 5,515 | 0 | 0 | 10,869 | 0 | 10,869 | 0 | 0 | 0 | 0 | 10,869 | 0 | 0 | 0 | 0 | 0 | 10,869 |
| 0 | 50 | CONSULTING FEES -2014 SC | CW | S3 | 03 | -2,618 | -5,025 | 6,687 | 5,912 | 5,445 | 10,401 | 9,176 | 19,577 | 0 | 0 | 0 | 0 | 19,577 | 0 | 0 | 0 | 0 | 0 | 19,577 |
| | | Sub-total | | | | 21,258 | 34,952 | 39,094 | 33,596 | 33,944 | 162,844 | 184,787 | 347,631 | 0 | 0 | 0 | 0 | 347,631 | 0 | 0 | 0 | 0 | 0 | 347,631 |
| WAT906977 | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 491 | 375 | 375 | 0 | 0 | 1,241 | 0 | 1,241 | 0 | 0 | 0 | 0 | 1,241 | 0 | 0 | 0 | 0 | 0 | 1,241 |
| 0 | 7 | FILTER MEDIA REPLC | CW | S2 | 03 | 75 | 150 | 0 | 150 | 0 | 375 | 300 | 675 | 0 | 0 | 0 | 0 | 675 | 0 | 0 | 0 | 0 | 0 | 675 |
| 0 | 12 | FACILITY UPGRADE | CW | S4 | 03 | 300 | 1,600 | 1,100 | 0 | 0 | 3,000 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| 0 | 18 | VALVE CHAMBER UPGRADES | CW | S2 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0 | 20 | ISLAND SBS CONVERSION | CW | S2 | 04 | 44 | 0 | 0 | 0 | 0 | 44 | 0 | 44 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 44 |
| 0 | 25 | ISLAND FILTER AIR SCOUR SYSTEM | CW | S2 | 04 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 0 | 0 | 0 | 0 | 850 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906977 | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | TRAVELLING SCREEN REPLACEMENT | CW | S6 | 03 | 0 | 560 | 1,150 | 290 | 0 | 2,000 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 |
| 0 | 33 | ISLAND SEAWALL REHABILITATION | CW | S2 | 03 | 1,336 | 0 | 0 | 0 | 0 | 1,336 | 0 | 1,336 | 0 | 0 | 0 | 0 | 1,336 | 0 | 0 | 0 | 0 | 1,336 |
| 0 | 44 | ISLAND ENWAVE/RETROFIT PROJECT | CW | S2 | 04 | 1,100 | 0 | 0 | 0 | 0 | 1,100 | 0 | 1,100 | 0 | 0 | 0 | 0 | 1,100 | 0 | 0 | 0 | 0 | 1,100 |
| 0 | 50 | AMMONIA AND FLOURIDE SYSTEM UPGRADES | CW | S4 | 03 | 75 | 890 | 1,285 | 0 | 0 | 2,250 | 0 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 0 | 0 | 0 | 2,250 |
| 0 | 51 | CHEMICAL SYSTEMS ELEC FEED DISTRIBUTION | CW | S4 | 03 | 55 | 465 | 0 | 0 | 0 | 520 | 0 | 520 | 0 | 0 | 0 | 0 | 520 | 0 | 0 | 0 | 0 | 520 |
| 0 | 52 | CONDITION ASSESSMENT & REHAB OF RAW WATER WETWELL | CW | S4 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| 0 | 53 | FACILITY & PROCESS UPGRADES - FUTURE | CW | S6 | 03 | 0 | 0 | 375 | 375 | 375 | 1,125 | 1,875 | 3,000 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 |
| 0 | 54 | FILTER MEDIA REPLC - FUTURE | CW | S6 | 03 | 0 | 0 | 150 | 0 | 150 | 300 | 300 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | 600 |
| 0 | 55 | FILTER MEDIA REPLC - 2014 SC | CW | S3 | 03 | 0 | -150 | 0 | -150 | 0 | -300 | -300 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | -600 |
| 0 | 56 | VALVE CHAMBER UPGRADES - 2014 SC | CW | S3 | 03 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | 0 | 0 | 0 | -100 |
| 0 | 57 | ISLAND SBS CONVERSION - 2014 SC | CW | S3 | 04 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| 0 | 58 | FACILITY & PROCESS UPGRADES - 2014 SC | CW | S3 | 03 | 507 | 227 | -149 | 0 | 0 | 585 | 0 | 585 | 0 | 0 | 0 | 0 | 585 | 0 | 0 | 0 | 0 | 585 |
| 0 | 59 | ISLAND SEAWALL REHABILITATION - 2014 SC | CW | S3 | 03 | -616 | 0 | 0 | 0 | 0 | -616 | 0 | -616 | 0 | 0 | 0 | 0 | -616 | 0 | 0 | 0 | 0 | -616 |
| 0 | 60 | ISLAND FILTER AIR SCOUR SYSTEM - 2014 SC | CW | S3 | 04 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 82 | 0 | 418 | 0 | 0 | 0 | 0 | 500 |
| 0 | 61 | ISLAND ENWAVE/RETROFIT PROJECT - 2014 SC | CW | S3 | 04 | -926 | 260 | 350 | 0 | 0 | -316 | 0 | -316 | 0 | 0 | 0 | 0 | -316 | 0 | 0 | 0 | 0 | -316 |
| | | Sub-total | | | | 3,397 | 4,877 | 4,636 | 665 | 525 | 14,100 | 2,175 | 16,275 | 0 | 0 | 82 | 0 | 16,193 | 0 | 0 | 0 | 0 | 16,275 |
| WAT906979 | D2/D4 TRUNK WATERMAIN UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 4 | JOS - NEILSON (ELLESMERE-SHEPPARD) WM CONSTRUCTION | CW | S2 | 05 | 1,170 | 0 | 0 | 0 | 0 | 1,170 | 0 | 1,170 | 0 | 0 | 157 | 0 | 583 | 0 | 0 | 430 | 0 | 1,170 |
| 0 | 7 | Ellesmere WM (Markham to Neilson) ENG | CW | S2 | 05 | 0 | 0 | 0 | 0 | 100 | 100 | 1,070 | 1,170 | 0 | 0 | 156 | 0 | 352 | 0 | 0 | 662 | 0 | 1,170 |
| 0 | 8 | ELLESMERE WM (MARKHAM TO NEILSON) CONST | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | EASTMALL W-M ENGINEERING | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 10 | EASTMALL CAST IRON WM CONSTRUCTION | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 11 | JOS - VICTORIA PARK WM CONSTRUCTION | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 52,000 | 52,000 | 0 | 0 | 15,005 | 0 | 27,972 | 0 | 0 | 9,023 | 0 | 52,000 |
| 0 | 26 | JOS VICTORIA PARK WM - ENGINEERING | CW | S6 | 05 | 0 | 0 | 0 | 0 | 300 | 300 | 2,325 | 2,625 | 0 | 0 | 756 | 0 | 1,869 | 0 | 0 | 0 | 0 | 2,625 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906979 | D2/D4 TRUNK WATERMAIN UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 29 | JOS -NEILSON(ELLESMERE-SHEPPARD)WM CONS -2014 SC | CW | S3 | 05 | 130 | 0 | 0 | 0 | 0 | 130 | 0 | 130 | 0 | 0 | 191 | 0 | -110 | 0 | 0 | 49 | 0 | 0 | 130 |
| 0 30 | Ellesmere WM (Markham to Neilson) ENG -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | -100 | -100 | -1,070 | -1,170 | 0 | 0 | -156 | 0 | -352 | 0 | 0 | -662 | 0 | 0 | -1,170 |
| | Sub-total | | | | 1,300 | 0 | 0 | 0 | 300 | 1,600 | 54,325 | 55,925 | 0 | 0 | 16,109 | 0 | 30,314 | 0 | 0 | 9,502 | 0 | 0 | 55,925 |
| WAT907135 | BAYVIEW TRUNK WATERMAIN - PH2 | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | JOS - MT- PLEASANT WM - CONST | CW | S2 | 05 | 0 | 0 | 0 | 0 | 1,000 | 1,000 | 80,000 | 81,000 | 0 | 0 | 502 | 0 | 1,287 | 0 | 0 | 79,211 | 0 | 0 | 81,000 |
| 0 5 | HPEC W-M - BAYVIEW TO KEELE | CW | S6 | 05 | 0 | 0 | 400 | 100 | 400 | 900 | 8,000 | 8,900 | 0 | 0 | 3,321 | 0 | 5,579 | 0 | 0 | 0 | 0 | 0 | 8,900 |
| 0 8 | JOS - MT- PLEASANT WM - CONST -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | -1,000 | -1,000 | -80,000 | -81,000 | 0 | 0 | -502 | 0 | -1,287 | 0 | 0 | -79,211 | 0 | 0 | -81,000 |
| | Sub-total | | | | 0 | 0 | 400 | 100 | 400 | 900 | 8,000 | 8,900 | 0 | 0 | 3,321 | 0 | 5,579 | 0 | 0 | 0 | 0 | 0 | 8,900 |
| WAT907353 | LAWRENCE ALLAN REVITALIZATION PLAN | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | LAWRENCE ALLAN REVITALIZATION PLAN-INFRASTURCTURE | CW | S2 | 05 | 0 | 3,668 | 3,354 | 12,641 | 2,127 | 21,790 | 3,531 | 25,321 | 0 | 0 | 0 | 0 | 25,321 | 0 | 0 | 0 | 0 | 0 | 25,321 |
| 0 2 | LAWRENCE ALLAN REVITALIZATION PLAN-EXTERNAL SEWER | CW | S2 | 05 | 0 | 2,803 | 0 | 5,437 | 0 | 8,240 | 0 | 8,240 | 0 | 0 | 3,461 | 0 | 4,779 | 0 | 0 | 0 | 0 | 0 | 8,240 |
| 0 4 | LAWRENCE ALLAN REVITALIZATION-EXTERNAL -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,779 | 0 | -4,779 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 5 | LAWRENCE ALLAN REVITALIZATION PLAN-INTER - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,868 | 0 | -4,868 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sub-total | | | | 0 | 6,471 | 3,354 | 18,078 | 2,127 | 30,030 | 3,531 | 33,561 | 0 | 0 | 13,108 | 0 | 20,453 | 0 | 0 | 0 | 0 | 0 | 33,561 |
| WAT907558 | REGENT PARK CAPITAL CONTRIBUTION | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | REGENT PARK CAPITAL CONTRIBUTION | 28 | S2 | 05 | 0 | 859 | 330 | 132 | 745 | 2,066 | 984 | 3,050 | 0 | 0 | 0 | 0 | 3,050 | 0 | 0 | 0 | 0 | 0 | 3,050 |
| 0 8 | REGENT PARK CAPITAL CONTRIBUTION - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 162 | 162 | 0 | 0 | 3,212 | 0 | -3,050 | 0 | 0 | 0 | 0 | 0 | 162 |
| | Sub-total | | | | 0 | 859 | 330 | 132 | 745 | 2,066 | 1,146 | 3,212 | 0 | 0 | 3,212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,212 |
| WAT907946 | BUSINESS IT PROJECTS | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | BUSINESS INTELLIGENCE INITIATIVES | CW | S2 | 04 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 0 | 0 | 0 | 0 | 425 |
| 0 2 | BACKFLOW INSPECTION PORTAL | CW | S2 | 04 | 250 | 200 | 0 | 0 | 0 | 450 | 0 | 450 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 | 450 |
| 0 3 | DISASTER RECOVERY - DRP - 2014 SC | CW | S3 | 04 | 121 | 0 | 0 | 0 | 0 | 121 | 0 | 121 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 121 |
| 0 4 | EDOCS | CW | S2 | 04 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0 5 | BACKFLOW INSPECTION PORTAL -2014 SC | CW | S3 | 04 | -250 | -200 | 200 | 200 | 0 | -50 | 0 | -50 | 0 | 0 | 0 | 0 | -50 | 0 | 0 | 0 | 0 | 0 | -50 |
| 0 6 | EDOCS -2014 SC | CW | S3 | 04 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT907946 | BUSINESS IT PROJECTS | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT | CW | S4 | 04 | 875 | 1,175 | 1,225 | 975 | 975 | 5,225 | 0 | 5,225 | 0 | 0 | 0 | 0 | 5,225 | 0 | 0 | 0 | 0 | 0 | 5,225 |
| 0 | 8 | BUSINESS INTELLIGENCE INITIATIVES - 2014 SC | CW | S3 | 04 | -150 | 280 | 0 | 0 | 0 | 130 | 0 | 130 | 0 | 0 | 0 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 130 |
| 0 | 9 | DISASTER RECOVERY | CW | S2 | 04 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 84 |
| | | Sub-total | | | | 1,505 | 1,455 | 1,425 | 1,175 | 975 | 6,535 | 0 | 6,535 | 0 | 0 | 0 | 0 | 6,535 | 0 | 0 | 0 | 0 | 0 | 6,535 |
| WAT000426 | TASTE AND ODOUR MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | TASTE AND ODOUR MANAGEMENT | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 12,500 | 12,500 | 0 | 0 | 0 | 0 | 12,500 | 0 | 0 | 0 | 0 | 0 | 12,500 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 12,500 | 12,500 | 0 | 0 | 0 | 0 | 12,500 | 0 | 0 | 0 | 0 | 0 | 12,500 |
| **Total Program Expenditure** | | | | | | 264,998 | 333,103 | 319,966 | 302,375 | 295,523 | 1,515,965 | 1,591,867 | 3,107,832 | 0 | 0 | 189,484 | 0 | 2,848,000 | 0 | 0 | 70,348 | 0 | 0 | 3,107,832 |

Report Phase 2 - Program 10 Water Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments and Estimates | | | | | | | | Current and Future Year Cash Flow Commitments and Estimates Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| Financed By: | | | | | | | | | | | | | | | | | | | | | | | | |
| | Development Charges | | | | | 7,715 | 19,760 | 16,893 | 25,184 | 22,167 | 91,719 | 97,765 | 189,484 | 0 | 0 | 189,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189,484 |
| | Reserve Funds (Ind."XR" Ref.) | | | | | 241,320 | 301,073 | 294,200 | 269,386 | 265,761 | 1,371,740 | 1,476,260 | 2,848,000 | 0 | 0 | 0 | 0 | 2,848,000 | 0 | 0 | 0 | 0 | 0 | 2,848,000 |
| | Other2 (External) | | | | | 15,963 | 12,270 | 8,873 | 7,805 | 7,595 | 52,506 | 17,842 | 70,348 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70,348 | 0 | 0 | 70,348 |
| **Total Program Financing** | | | | | | 264,998 | 333,103 | 319,966 | 302,375 | 295,523 | 1,515,965 | 1,591,867 | 3,107,832 | 0 | 0 | 189,484 | 0 | 2,848,000 | 0 | 0 | 70,348 | 0 | 0 | 3,107,832 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |
| S3 | S3 Prior Year - Change of Scope 2014 and\or Future Year Cost\Cashflow) |
| S4 | S4 New - Stand-Alone Project (Current Year Only) |
| S5 | S5 New (On-going or Phased Projects) |
| S6 | S6 New - Future Year (Commencing in 2015 & Beyond) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS000007 | ASHBRIDGES BAY WWTP REHAB | | | | | | | | | | | | | | | | | | | | | | |
| 0 17 | STANDBY POWER GENERATION | | CW | S2 | 04 | 7,009 | 4,400 | 55 | 15 | 0 | 11,479 | 0 | 11,479 | 0 | 0 | 344 | 0 | 11,135 | 0 | 0 | 0 | 0 | 11,479 |
| 0 19 | FERROUS UPGRADES | | CW | S2 | 03 | 1,920 | 4,700 | 1,750 | 120 | 0 | 8,490 | 0 | 8,490 | 0 | 0 | 256 | 0 | 8,234 | 0 | 0 | 0 | 0 | 8,490 |
| 0 30 | ELECTRICAL REHAB | | CW | S2 | 01 | 9,073 | 5,620 | 0 | 0 | 0 | 14,693 | 0 | 14,693 | 0 | 0 | 0 | 0 | 14,693 | 0 | 0 | 0 | 0 | 14,693 |
| 0 41 | POLYMER UPGRADE | | CW | S2 | 03 | 1,410 | 4,100 | 3,750 | 800 | 60 | 10,120 | 0 | 10,120 | 0 | 0 | 0 | 0 | 10,120 | 0 | 0 | 0 | 0 | 10,120 |
| 0 46 | Rehab of Grounds and Buildings | | CW | S2 | 03 | 658 | 5 | 0 | 0 | 0 | 663 | 0 | 663 | 0 | 0 | 0 | 0 | 663 | 0 | 0 | 0 | 0 | 663 |
| 0 47 | PT ENGINEERING DESIGN & CONTRACT ADMIN | | CW | S2 | 03 | 1,320 | 1,100 | 1,000 | 750 | 250 | 4,420 | 49 | 4,469 | 0 | 0 | 134 | 0 | 4,335 | 0 | 0 | 0 | 0 | 4,469 |
| 0 49 | PROCESS UPGRADES AND ODOUR CONTROL ENGINEERING | | CW | S2 | 04 | 1,424 | 300 | 87 | 0 | 0 | 1,811 | 0 | 1,811 | 0 | 0 | 55 | 0 | 1,756 | 0 | 0 | 0 | 0 | 1,811 |
| 0 189 | PROCESS AND EQUIPMENT | | CW | S2 | 03 | 4,460 | 2,840 | 0 | 0 | 0 | 7,300 | 0 | 7,300 | 0 | 0 | 0 | 0 | 7,300 | 0 | 0 | 0 | 0 | 7,300 |
| 0 190 | FACILITY AND GROUNDS | | CW | S2 | 03 | 4,403 | 3,267 | 0 | 0 | 0 | 7,670 | 0 | 7,670 | 0 | 0 | 0 | 0 | 7,670 | 0 | 0 | 0 | 0 | 7,670 |
| 0 200 | PROCESS AND FACILITIES -FUTURE | | CW | S6 | 03 | 0 | 0 | 2,510 | 3,010 | 3,510 | 9,030 | 20,570 | 29,600 | 0 | 0 | 0 | 0 | 29,600 | 0 | 0 | 0 | 0 | 29,600 |
| 0 206 | STANDBY POWER GENERATION -2014 SC | | CW | S3 | 04 | -2,109 | -327 | -50 | 0 | 0 | -2,486 | 0 | -2,486 | 0 | 0 | 379 | 0 | -2,865 | 0 | 0 | 0 | 0 | -2,486 |
| 0 207 | PT ENGINEERING DESIGN & CONTRACT ADMIN -2014 SC | | CW | S3 | 03 | 690 | 1,110 | 1,084 | 238 | 635 | 3,757 | 250 | 4,007 | 0 | 0 | 549 | 0 | 3,458 | 0 | 0 | 0 | 0 | 4,007 |
| 0 208 | ELECTRICAL REHAB -ECAP -2014 SC | | CW | S3 | 01 | -6,944 | 554 | 6,025 | 2,105 | 421 | 2,161 | 0 | 2,161 | 0 | 0 | 0 | 0 | 2,161 | 0 | 0 | 0 | 0 | 2,161 |
| 0 209 | Rehab of Grounds and Buildings -2014 SC | | CW | S3 | 03 | -79 | 20 | 0 | 0 | 0 | -59 | 0 | -59 | 0 | 0 | 0 | 0 | -59 | 0 | 0 | 0 | 0 | -59 |
| 0 210 | PROCESS UPGRADES & ODOUR CONTROL ENG -2014 SC | | CW | S3 | 04 | -114 | 700 | 323 | 34 | 0 | 943 | 0 | 943 | 0 | 0 | 166 | 0 | 777 | 0 | 0 | 0 | 0 | 943 |
| 0 211 | FERROUS UPGRADES -2014 SC | | CW | S3 | 03 | -1,320 | -4,225 | 4,322 | 6,580 | 3,185 | 8,542 | 255 | 8,797 | 0 | 0 | 1,143 | 0 | 7,654 | 0 | 0 | 0 | 0 | 8,797 |
| 0 212 | PROCESS AND EQUIPMENT -2014 SC | | CW | S3 | 03 | -2,360 | 30 | 3,610 | 4,004 | 4 | 5,288 | 0 | 5,288 | 0 | 0 | 0 | 0 | 5,288 | 0 | 0 | 0 | 0 | 5,288 |
| 0 213 | FACILITY AND GROUNDS -2014 SC | | CW | S3 | 03 | -2,907 | -1,302 | 2,002 | 0 | 0 | -2,207 | 0 | -2,207 | 0 | 0 | 0 | 0 | -2,207 | 0 | 0 | 0 | 0 | -2,207 |
| 0 214 | POLYMER UPGRADE -2014 SC | | CW | S3 | 03 | -850 | -3,540 | -2,950 | 9,100 | 12,140 | 13,900 | 12,380 | 26,280 | 0 | 0 | 0 | 0 | 26,280 | 0 | 0 | 0 | 0 | 26,280 |
| 0 215 | DIGESTERS CLEANING REHAB 10 YEAR PLAN | | CW | S4 | 03 | 700 | 3,700 | 3,600 | 3,100 | 0 | 11,100 | 0 | 11,100 | 0 | 0 | 0 | 0 | 11,100 | 0 | 0 | 0 | 0 | 11,100 |
| 0 216 | OPERATIONS CENTRE - ENGINEERING | | CW | S4 | 03 | 300 | 400 | 0 | 0 | 0 | 700 | 0 | 700 | 0 | 0 | 0 | 0 | 700 | 0 | 0 | 0 | 0 | 700 |
| 0 217 | ELECTRICAL REHAB - FUTURE | | CW | S6 | 03 | 0 | 100 | 1,350 | 6,620 | 6,125 | 14,195 | 3,425 | 17,620 | 0 | 0 | 0 | 0 | 17,620 | 0 | 0 | 0 | 0 | 17,620 |
| | Sub-total | | | | | 16,684 | 23,552 | 28,468 | 36,476 | 26,330 | 131,510 | 36,929 | 168,439 | 0 | 0 | 3,026 | 0 | 165,413 | 0 | 0 | 0 | 0 | 168,439 |
| WAS000115 | HUMBER T.P. | | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS000115 | HUMBER T.P. | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | HTP CO-GENERATION | | CW | S6 | 04 | 0 | 200 | 200 | 109 | 0 | 509 | 0 | 509 | 0 | 0 | 0 | 0 | 509 | 0 | 0 | 0 | 0 | 509 |
| | Sub-total | | | | | 0 | 200 | 200 | 109 | 0 | 509 | 0 | 509 | 0 | 0 | 0 | 0 | 509 | 0 | 0 | 0 | 0 | 509 |
| WAS000160 | ASHBRIDGES BAY TREATMENT PLANT - III | | | | | | | | | | | | | | | | | | | | | | |
| 0 19 | BIOSOLIDS IMPRVS & STUDIES | | CW | S2 | 04 | 165 | 0 | 0 | 0 | 0 | 165 | 0 | 165 | 0 | 0 | 5 | 0 | 160 | 0 | 0 | 0 | 0 | 165 |
| 0 43 | BIOSOLIDS IMPRVS & STUDIES -2014 SC | | CW | S3 | 04 | -165 | 0 | 0 | 0 | 0 | -165 | 0 | -165 | 0 | 0 | -5 | 0 | -160 | 0 | 0 | 0 | 0 | -165 |
| | Sub-total | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAS000259 | TRUNK SEWER SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| 0 15 | TRUNK SEVWER REHAB-2012 | | CW | S2 | 03 | 24,464 | 12,900 | 3,000 | 500 | 0 | 40,864 | 0 | 40,864 | 0 | 0 | 0 | 0 | 40,864 | 0 | 0 | 0 | 0 | 40,864 |
| 0 18 | Keele Trunk Sewer Design & Construction | | CW | S6 | 05 | 0 | 0 | 500 | 1,000 | 5,000 | 6,500 | 78,000 | 84,500 | 0 | 0 | 31,543 | 0 | 52,957 | 0 | 0 | 0 | 0 | 84,500 |
| 0 23 | TRUNK SEWER REHABILITATION | | CW | S2 | 03 | 395 | 225 | 0 | 0 | 0 | 620 | 0 | 620 | 0 | 0 | 0 | 0 | 620 | 0 | 0 | 0 | 0 | 620 |
| 0 24 | TRUNK SEWER REHABILITATION - FORECAST | | CW | S6 | 03 | 0 | 0 | 0 | 18,000 | 19,000 | 37,000 | 100,000 | 137,000 | 0 | 0 | 0 | 0 | 137,000 | 0 | 0 | 0 | 0 | 137,000 |
| 0 27 | TRUNK SEWER REHABILITATION - 2014 | | CW | S4 | 03 | 455 | 12,880 | 18,225 | 3,543 | 7 | 35,110 | 0 | 35,110 | 0 | 0 | 0 | 0 | 35,110 | 0 | 0 | 0 | 0 | 35,110 |
| 0 33 | TRUNK SEVWER REHAB-2012 -2014 SC | | CW | S3 | 03 | -16,893 | -6,984 | 1,884 | 1,111 | 381 | -20,501 | 49 | -20,452 | 0 | 0 | 0 | 0 | -20,452 | 0 | 0 | 0 | 0 | -20,452 |
| 0 34 | KEELE TRUNK SEWER PROPERTY ACQUISTION -2014 SC | | CW | S3 | 05 | 500 | 500 | 0 | 0 | 0 | 1,000 | 0 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 1,000 |
| 0 36 | TRUNK SEWER REPLACEMENT-FORECAST | | CW | S6 | 03 | 0 | 0 | 5,000 | 5,000 | 5,000 | 15,000 | 25,000 | 40,000 | 0 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 40,000 |
| 0 37 | TRUNK SEWER REHABILITATION - 2014 SC | | CW | S3 | 03 | -225 | -55 | 0 | 0 | 0 | -280 | 0 | -280 | 0 | 0 | 0 | 0 | -280 | 0 | 0 | 0 | 0 | -280 |
| | Sub-total | | | | | 8,696 | 19,466 | 28,609 | 29,154 | 29,388 | 115,313 | 203,049 | 318,362 | 0 | 0 | 31,543 | 0 | 286,819 | 0 | 0 | 0 | 0 | 318,362 |
| WAS000442 | BASEMENT FLOODING RELIEF | | | | | | | | | | | | | | | | | | | | | | |
| 0 8 | BASEMENT FLOODING STUDIES & EAS | | CW | S2 | 04 | 3,236 | 0 | 0 | 0 | 0 | 3,236 | 0 | 3,236 | 0 | 0 | 0 | 0 | 3,236 | 0 | 0 | 0 | 0 | 3,236 |
| 0 9 | BASEMENT FLOODING RELIEF - TUNNEL PROJECT | | CW | S2 | 04 | 33,063 | 0 | 0 | 0 | 0 | 33,063 | 0 | 33,063 | 0 | 0 | 0 | 0 | 33,063 | 0 | 0 | 0 | 0 | 33,063 |
| 0 12 | ROAD RESTORATION FOR BSMT FLDG | | CW | S2 | 04 | 5,013 | 3,000 | 0 | 0 | 0 | 8,013 | 0 | 8,013 | 0 | 0 | 0 | 0 | 8,013 | 0 | 0 | 0 | 0 | 8,013 |
| 0 14 | BASEMENT FLOODING DESIGN - GROUP 1 | | CW | S2 | 04 | 4,363 | 100 | 50 | 0 | 0 | 4,513 | 0 | 4,513 | 0 | 0 | 0 | 0 | 4,513 | 0 | 0 | 0 | 0 | 4,513 |
| 0 18 | BASEMENT FLOODING DESIGN - GROUP 2 | | CW | S2 | 04 | 7,000 | 7,000 | 6,000 | 5,000 | 0 | 25,000 | 0 | 25,000 | 0 | 0 | 0 | 0 | 25,000 | 0 | 0 | 0 | 0 | 25,000 |
| 0 19 | BASEMENT FLOODING RELIEF- GROUP 2 | | CW | S4 | 04 | 17,292 | 41,222 | 39,832 | 49,299 | 1,500 | 149,145 | 0 | 149,145 | 0 | 0 | 0 | 0 | 149,145 | 0 | 0 | 0 | 0 | 149,145 |
| 0 20 | BASEMENT FLOODING DESIGN - GROUP 3 | | CW | S4 | 04 | 100 | 3,000 | 4,000 | 5,000 | 5,000 | 17,100 | 8,000 | 25,100 | 0 | 0 | 0 | 0 | 25,100 | 0 | 0 | 0 | 0 | 25,100 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS000442 | BASEMENT FLOODING RELIEF | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 29 | BASEMENT FLOODING RELIEF - GROUP 1 | CW | S2 | 04 | 47,555 | 75 | 75 | 75 | 0 | 47,780 | 0 | 47,780 | 0 | 0 | 0 | 0 | 47,780 | 0 | 0 | 0 | 0 | 0 | 47,780 |
| 0 | 52 | BASEMENT FLOODING RELIEF-FUTURE | CW | S6 | 04 | 0 | 0 | 0 | 0 | 48,451 | 48,451 | 445,000 | 493,451 | 0 | 0 | 0 | 0 | 493,451 | 0 | 0 | 0 | 0 | 0 | 493,451 |
| 0 | 59 | BASEMENT FLOODING RELIEF -BACKFLOW GRANTS -2014 SC | CW | S3 | 04 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 15,000 | 17,500 | 32,500 | 0 | 0 | 0 | 0 | 32,500 | 0 | 0 | 0 | 0 | 0 | 32,500 |
| 0 | 60 | BASEMENT FLOODING STUDIES & EAS -2014 SC | CW | S3 | 04 | -585 | 1,618 | 1,485 | 0 | 0 | 2,518 | 0 | 2,518 | 0 | 0 | 0 | 0 | 2,518 | 0 | 0 | 0 | 0 | 0 | 2,518 |
| 0 | 61 | BASEMENT FLOODING DESIGN GROUP 1 -2014 SC | CW | S3 | 04 | -3,075 | 1,788 | 1,850 | 0 | 0 | 563 | 0 | 563 | 0 | 0 | 0 | 0 | 563 | 0 | 0 | 0 | 0 | 0 | 563 |
| 0 | 62 | BASEMENT FLOODING DESIGH GROUP 2 - 2014 SC | CW | S3 | 04 | -900 | -1,100 | -500 | 500 | 25 | -1,975 | 0 | -1,975 | 0 | 0 | 0 | 0 | -1,975 | 0 | 0 | 0 | 0 | 0 | -1,975 |
| 0 | 63 | BASEMENT FLOODING RELIEF - GROUP 1 -2014 SC | CW | S3 | 04 | -22,432 | 11,635 | 15,000 | 0 | 0 | 4,203 | 0 | 4,203 | 0 | 0 | 0 | 0 | 4,203 | 0 | 0 | 0 | 0 | 0 | 4,203 |
| 0 | 64 | ROAD RESTORATION FOR BSMT FLDG -2014 SC | CW | S3 | 04 | -2,321 | -2,228 | 0 | 0 | 0 | -4,549 | 0 | -4,549 | 0 | 0 | 0 | 0 | -4,549 | 0 | 0 | 0 | 0 | 0 | -4,549 |
| 0 | 65 | BASEMENT FLOODING RELIEF -TUNNEL PROJECT -2014 SC | CW | S3 | 04 | -32,553 | 10,000 | 32,000 | 37,000 | 40,500 | 86,947 | 30,000 | 116,947 | 0 | 0 | 0 | 0 | 116,947 | 0 | 0 | 0 | 0 | 0 | 116,947 |
| 1 | 1 | BASEMENT FLOODING RELIEF - BACKFLOW GRANTS | CW | S2 | 04 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 12,500 | 10,000 | 22,500 | 0 | 0 | 0 | 0 | 22,500 | 0 | 0 | 0 | 0 | 0 | 22,500 |
| | | Sub-total | | | | 61,256 | 81,610 | 105,292 | 102,374 | 100,976 | 451,508 | 510,500 | 962,008 | 0 | 0 | 0 | 0 | 962,008 | 0 | 0 | 0 | 0 | 0 | 962,008 |
| WAS000521 | HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | HCTP BLDG REHAB & IMPROVEMENTS | CW | S2 | 03 | 500 | 4,000 | 4,000 | 3,000 | 0 | 11,500 | 0 | 11,500 | 0 | 0 | 0 | 0 | 11,500 | 0 | 0 | 0 | 0 | 0 | 11,500 |
| 0 | 6 | HCTP BLDG REHAB & IMPROVEMENTS - 2014 SC | CW | S3 | 03 | 998 | -500 | 0 | 0 | 0 | 498 | 0 | 498 | 0 | 0 | 0 | 0 | 498 | 0 | 0 | 0 | 0 | 0 | 498 |
| | | Sub-total | | | | 1,498 | 3,500 | 4,000 | 3,000 | 0 | 11,998 | 0 | 11,998 | 0 | 0 | 0 | 0 | 11,998 | 0 | 0 | 0 | 0 | 0 | 11,998 |
| WAS000523 | HIGHLAND CREEK WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | PLANT FIRM CAPACITY UPGRADES - PHASE V | CW | S6 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 3,000 | 0 | 0 | 145 | 0 | 2,855 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 3,000 | 0 | 0 | 145 | 0 | 2,855 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| WAS906322 | W&WW LABORATORIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 9 | LAB EQUIPMENT | CW | S2 | 03 | 112 | 100 | 0 | 0 | 0 | 212 | 0 | 212 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 212 |
| 0 | 22 | LAB & EMP FACILITIES | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 19,300 | 19,300 | 0 | 0 | 0 | 0 | 19,300 | 0 | 0 | 0 | 0 | 0 | 19,300 |
| 0 | 24 | LAB EQUIPMENT -2014 SC | CW | S3 | 03 | 8 | 50 | 0 | 0 | 0 | 58 | 0 | 58 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 58 |
| | | Sub-total | | | | 120 | 150 | 0 | 0 | 0 | 270 | 19,300 | 19,570 | 0 | 0 | 0 | 0 | 19,570 | 0 | 0 | 0 | 0 | 0 | 19,570 |
| WAS906328 | SWM END OF PIPE FACILITIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | DON VALLEY SWM | CW | S6 | 04 | 0 | 0 | 0 | 0 | 40 | 40 | 3,920 | 3,960 | 0 | 0 | 318 | 0 | 3,642 | 0 | 0 | 0 | 0 | 0 | 3,960 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS906328 | SWM END OF PIPE FACILITIES | | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | | NORTH TORONTO CSO CONSTR | CW | S2 | 04 | 5,000 | 500 | 0 | 0 | 0 | 5,500 | 0 | 5,500 | 0 | 0 | 550 | 0 | 4,950 | 0 | 0 | 0 | 0 | 0 | 5,500 |
| 0 10 | | ETOBICOKE WATERFRONT SWM CONST | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 52,500 | 52,500 | 0 | 0 | 4,224 | 0 | 48,276 | 0 | 0 | 0 | 0 | 0 | 52,500 |
| 0 11 | | BONAR CREEK CONSTRUCTION | CW | S4 | 04 | 200 | 800 | 2,150 | 5,400 | 5,250 | 13,800 | 2,600 | 16,400 | 0 | 0 | 1,320 | 0 | 15,080 | 0 | 0 | 0 | 0 | 0 | 16,400 |
| 0 12 | | EARL BALES SWM FACILITY - PHASE 2 | CW | S2 | 04 | 3,500 | 1,000 | 500 | 0 | 0 | 5,000 | 0 | 5,000 | 0 | 0 | 0 | 0 | 5,000 | 0 | 0 | 0 | 0 | 0 | 5,000 |
| 0 35 | | EASTERN BEACHES WATER QUALITY IMPROVEMENTS | CW | S2 | 04 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 | 0 | 0 | 25 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 250 |
| 0 38 | | COATSWORTH CUT DESIGN & CONSTRUCTION | CW | S6 | 04 | 0 | 0 | 0 | 0 | 300 | 300 | 9,900 | 10,200 | 0 | 0 | 821 | 0 | 9,379 | 0 | 0 | 0 | 0 | 0 | 10,200 |
| 0 39 | | SCARBOROUGH WATERFRONT CSO CONSTRUCTION | CW | S6 | 04 | 0 | 0 | 0 | 1,150 | 4,000 | 5,150 | 42,800 | 47,950 | 0 | 0 | 3,860 | 0 | 44,090 | 0 | 0 | 0 | 0 | 0 | 47,950 |
| 0 49 | | NORTH TORONTO CSO CONSTR -2014 SC | CW | S3 | 04 | -4,500 | 2,500 | 2,500 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | -68 | 0 | 568 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 50 | | EARL BALES SWM FACILITY - PHASE 2 -2014 SC | CW | S3 | 04 | -3,000 | 2,000 | 1,500 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 442 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 51 | | EASTERN BEACHES WATER QUALITY IMPROVEMENTS-2014 SC | CW | S3 | 04 | -250 | 0 | 0 | 0 | 0 | -250 | 0 | -250 | 0 | 0 | -25 | 0 | -225 | 0 | 0 | 0 | 0 | 0 | -250 |
| | | Sub-total | | | | 1,200 | 6,800 | 6,650 | 6,550 | 9,590 | 30,790 | 111,720 | 142,510 | 0 | 0 | 11,467 | 0 | 131,043 | 0 | 0 | 0 | 0 | 0 | 142,510 |
| WAS906331 | SWM SOURCE CONTROL PROG | | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | | DOWNSPOUT DISCONNECTION PROGRAM | CW | S2 | 04 | 150 | 150 | 250 | 150 | 150 | 850 | 0 | 850 | 0 | 0 | 85 | 0 | 765 | 0 | 0 | 0 | 0 | 0 | 850 |
| 0 14 | | DOWNSPOUT DISCONNECTION PROGRAM -2014 SC | CW | S3 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -85 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 150 | 150 | 250 | 150 | 150 | 850 | 0 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 0 | 0 | 0 | 0 | 850 |
| WAS906380 | HIGHLAND CREEK WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | | ODOUR CONTROL UPGRADES - PHASE 1 ENG | CW | S2 | 04 | 876 | 510 | 250 | 650 | 100 | 2,386 | 5 | 2,391 | 0 | 0 | 48 | 0 | 2,343 | 0 | 0 | 0 | 0 | 0 | 2,391 |
| 0 2 | | ODOUR CONTROL UPGRADES PHASE 1 CONST | CW | S2 | 02 | 20,760 | 20,000 | 20,000 | 9,000 | 0 | 69,760 | 0 | 69,760 | 0 | 0 | 1,395 | 0 | 68,365 | 0 | 0 | 0 | 0 | 0 | 69,760 |
| 0 3 | | ODOUR CONTROL UPGRADES - PH 2 | CW | S6 | 02 | 0 | 0 | 0 | 0 | 400 | 400 | 34,700 | 35,100 | 0 | 0 | 1,695 | 0 | 33,405 | 0 | 0 | 0 | 0 | 0 | 35,100 |
| 0 14 | | ODOUR CONTROL UPGRADES - PHASE 1 ENG -2014 SC | CW | S3 | 04 | -416 | 0 | 230 | 150 | 0 | -36 | 0 | -36 | 0 | 0 | 141 | 0 | -177 | 0 | 0 | 0 | 0 | 0 | -36 |
| 0 15 | | ODOUR CONTROL UPGRADES PHASE 1 CONST -2014 SC | CW | S3 | 02 | -15,760 | -5,000 | -5,000 | 6,000 | 15,000 | -4,760 | 10,000 | 5,240 | 0 | 0 | 4,640 | 0 | 600 | 0 | 0 | 0 | 0 | 0 | 5,240 |
| | | Sub-total | | | | 5,460 | 15,510 | 15,480 | 15,800 | 15,500 | 67,750 | 44,705 | 112,455 | 0 | 0 | 7,919 | 0 | 104,536 | 0 | 0 | 0 | 0 | 0 | 112,455 |
| WAS906486 | ASHBRIDGES BAY T.P. - III YR2004 | | | | | | | | | | | | | | | | | | | | | | | |
| 0 3 | | PCS-PLANT SRVS | CW | S2 | 04 | 1,300 | 360 | 30 | 0 | 0 | 1,690 | 0 | 1,690 | 0 | 0 | 51 | 0 | 1,639 | 0 | 0 | 0 | 0 | 0 | 1,690 |
| 0 4 | | LANDSCAPE SITE DESIGN | CW | S2 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 800 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | 0 | 800 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906486 | ASHBRIDGES BAY T.P. - III YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 43 | PCS-PLANT SRVS -2014 SC | CW | S3 | 04 | -170 | 1,170 | 20 | 30 | 0 | 1,050 | 0 | 1,050 | 0 | 0 | 169 | 0 | 881 | 0 | 0 | 0 | 0 | 0 | 1,050 |
| | Sub-total | | | | 1,130 | 1,530 | 50 | 30 | 0 | 2,740 | 800 | 3,540 | 0 | 0 | 220 | 0 | 3,320 | 0 | 0 | 0 | 0 | 0 | 3,540 |
| WAS906487 | HIGHLAND CREEK T.P. - IV YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | PCS PLANT SERVICES | CW | S2 | 04 | 115 | 213 | 0 | 0 | 0 | 328 | 0 | 328 | 0 | 0 | 7 | 0 | 321 | 0 | 0 | 0 | 0 | 0 | 328 |
| 0 19 | PCS PLANT SERVICES -2014 SC | CW | S3 | 04 | 90 | -150 | 3 | 0 | 0 | -57 | 0 | -57 | 0 | 0 | 15 | 0 | -72 | 0 | 0 | 0 | 0 | 0 | -57 |
| | Sub-total | | | | 205 | 63 | 3 | 0 | 0 | 271 | 0 | 271 | 0 | 0 | 22 | 0 | 249 | 0 | 0 | 0 | 0 | 0 | 271 |
| WAS906488 | HUMBER T.P. - II YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | PCS PLANT SERVICES | CW | S2 | 04 | 130 | 55 | 0 | 0 | 0 | 185 | 0 | 185 | 0 | 0 | 3 | 0 | 182 | 0 | 0 | 0 | 0 | 0 | 185 |
| 0 21 | PCS PLANT SERVICES -2014 SC | CW | S3 | 04 | -25 | 125 | 5 | 7 | 0 | 112 | 0 | 112 | 0 | 0 | 20 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 112 |
| | Sub-total | | | | 105 | 180 | 5 | 7 | 0 | 297 | 0 | 297 | 0 | 0 | 23 | 0 | 274 | 0 | 0 | 0 | 0 | 0 | 297 |
| WAS906492 | WET WEATHER FLOW MP | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | SWM INA-EA | CW | S2 | 04 | 1,045 | 615 | 475 | 0 | 0 | 2,135 | 0 | 2,135 | 0 | 0 | 215 | 0 | 1,920 | 0 | 0 | 0 | 0 | 0 | 2,135 |
| 0 2 | WWFMP - PUBLIC EDUCATION | CW | S2 | 04 | 860 | 500 | 500 | 0 | 0 | 1,860 | 0 | 1,860 | 0 | 0 | 93 | 0 | 1,767 | 0 | 0 | 0 | 0 | 0 | 1,860 |
| 0 10 | 10 Yr WWFMP Public Ed - Communications | CW | S6 | 04 | 0 | 0 | 3,000 | 4,000 | 5,125 | 12,125 | 30,000 | 42,125 | 0 | 0 | 3,390 | 0 | 38,735 | 0 | 0 | 0 | 0 | 0 | 42,125 |
| 0 11 | 10 Yr WWFMMP Implementation | CW | S6 | 04 | 0 | 0 | 0 | 500 | 500 | 1,000 | 2,500 | 3,500 | 0 | 0 | 280 | 0 | 3,220 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 14 | WWFMP IMPLEMENTATION - DESIGN&CONTRACT ADMIN | CW | S2 | 04 | 3,107 | 1,241 | 0 | 0 | 0 | 4,348 | 0 | 4,348 | 0 | 0 | 434 | 0 | 3,914 | 0 | 0 | 0 | 0 | 0 | 4,348 |
| 0 15 | WWF MONITORING STATIONS | CW | S2 | 04 | 0 | 0 | 250 | 250 | 250 | 750 | 0 | 750 | 0 | 0 | 39 | 0 | 711 | 0 | 0 | 0 | 0 | 0 | 750 |
| 0 40 | 10 YEAR SWM - CONVEYANCE | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 6,000 | 6,000 | 0 | 0 | 482 | 0 | 5,518 | 0 | 0 | 0 | 0 | 0 | 6,000 |
| 0 44 | SWM CONVEYANCE 2013 | CW | S2 | 04 | 2,604 | 0 | 0 | 0 | 0 | 2,604 | 0 | 2,604 | 0 | 0 | 259 | 0 | 2,345 | 0 | 0 | 0 | 0 | 0 | 2,604 |
| 0 51 | SWM CONVEYANCE 2014 | CW | S4 | 04 | 3,461 | 2,048 | 0 | 0 | 0 | 5,509 | 0 | 5,509 | 0 | 0 | 0 | 0 | 5,509 | 0 | 0 | 0 | 0 | 0 | 5,509 |
| 0 52 | SWM INA-EA -2014 SC | CW | S3 | 04 | -665 | -85 | -325 | 150 | 150 | -775 | 0 | -775 | 0 | 0 | -105 | 0 | -670 | 0 | 0 | 0 | 0 | 0 | -775 |
| 0 53 | WWFMP - PUBLIC EDUCATION -2014 SC | CW | S3 | 04 | -360 | 0 | 0 | 0 | 0 | -360 | 0 | -360 | 0 | 0 | 27 | 0 | -387 | 0 | 0 | 0 | 0 | 0 | -360 |
| 0 54 | WWFMP IMPLEMENTATION-DESIGN&CON ADMIN -2014 SC | CW | S3 | 04 | -1,807 | -141 | 1,000 | 500 | 0 | -448 | 0 | -448 | 0 | 0 | -120 | 0 | -328 | 0 | 0 | 0 | 0 | 0 | -448 |
| 0 55 | WWF MONITORING STATIONS -2014 SC | CW | S3 | 04 | 0 | 0 | -250 | -250 | 250 | -250 | 600 | 350 | 0 | 0 | 49 | 0 | 301 | 0 | 0 | 0 | 0 | 0 | 350 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Project Priority | Project No. | Project Name / Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906492 | | WET WEATHER FLOW MP | | | | | | | | | | | | | | | | | | | | | |
| 0 | 56 | SWM CONVEYANCE 2013 -2014 SC | CW | S3 | 04 | -354 | 0 | 0 | 0 | 0 | -354 | 0 | -354 | 0 | 0 | -78 | 0 | -276 | 0 | 0 | 0 | 0 | -354 |
| | | Sub-total | | | | 7,891 | 4,178 | 4,650 | 5,150 | 6,275 | 28,144 | 39,100 | 67,244 | 0 | 0 | 4,965 | 0 | 62,279 | 0 | 0 | 0 | 0 | 67,244 |
| WAS906495 | | SEWER ASSET PLANNING | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | Sewer Asset Planning | CW | S2 | 03 | 1,194 | 1,000 | 1,000 | 0 | 0 | 3,194 | 0 | 3,194 | 0 | 0 | 0 | 0 | 3,194 | 0 | 0 | 0 | 0 | 3,194 |
| 0 | 7 | Sewer System Inspection | CW | S2 | 03 | 9,117 | 8,000 | 8,000 | 9,000 | 0 | 34,117 | 0 | 34,117 | 0 | 0 | 0 | 0 | 34,117 | 0 | 0 | 0 | 0 | 34,117 |
| 0 | 17 | SEWER ASSET PLANNING - 10 YR FORECAST | CW | S6 | 04 | 0 | 0 | 1,000 | 1,000 | 1,000 | 3,000 | 5,000 | 8,000 | 0 | 0 | 384 | 0 | 7,616 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 18 | SEWER SYSTEM INSPECTION - 10 YR FORECAST | CW | S6 | 03 | 0 | 0 | 0 | 0 | 0 | 0 | 40,000 | 40,000 | 0 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 40,000 |
| 0 | 21 | PPD - INFRASTRUCTURE PLANNING STUDIES | CW | S4 | 05 | 150 | 150 | 0 | 0 | 0 | 300 | 0 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 300 |
| 0 | 22 | PPD - INFRASTRUCTURE PLANNING STUDIES - 10 YR PLAN | CW | S6 | 05 | 0 | 0 | 150 | 150 | 150 | 450 | 750 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 0 | 0 | 0 | 1,200 |
| 0 | 23 | Sewer Asset Planning -2014 SC | CW | S3 | 03 | 54 | 825 | -385 | 0 | 0 | 494 | 0 | 494 | 0 | 0 | 296 | 0 | 198 | 0 | 0 | 0 | 0 | 494 |
| 0 | 24 | Sewer System Inspection -2014 SC | CW | S3 | 03 | -3,158 | 3,048 | 4,000 | 3,000 | 12,000 | 18,890 | 15,000 | 33,890 | 0 | 0 | 0 | 0 | 33,890 | 0 | 0 | 0 | 0 | 33,890 |
| | | Sub-total | | | | 7,357 | 13,023 | 13,765 | 13,150 | 13,150 | 60,445 | 60,750 | 121,195 | 0 | 0 | 680 | 0 | 120,515 | 0 | 0 | 0 | 0 | 121,195 |
| WAS906500 | | NEW SEWER CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | |
| 0 | 4 | 10 Year New Sewer Construction | CW | S6 | 05 | 0 | 0 | 1,000 | 1,000 | 1,000 | 3,000 | 5,000 | 8,000 | 0 | 0 | 2,984 | 0 | 5,016 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 5 | NEW SEWERS | CW | S2 | 05 | 1,202 | 0 | 0 | 0 | 0 | 1,202 | 0 | 1,202 | 0 | 0 | 1,082 | 0 | 120 | 0 | 0 | 0 | 0 | 1,202 |
| 0 | 16 | 10 YEAR SEWER UPGRADES (CORRIDOR STUDIES) | CW | S6 | 05 | 0 | 0 | 0 | 2,000 | 4,000 | 6,000 | 38,000 | 44,000 | 0 | 0 | 13,200 | 0 | 30,800 | 0 | 0 | 0 | 0 | 44,000 |
| 0 | 17 | WATERFRONT SANITARY MASTER SERV PIAN IMP | CW | S6 | 05 | 0 | 1,000 | 3,000 | 5,000 | 5,000 | 14,000 | 25,000 | 39,000 | 0 | 0 | 0 | 0 | 39,000 | 0 | 0 | 0 | 0 | 39,000 |
| 0 | 18 | DOWNSVIEW LANDS EXTERNAL UPGRADES | CW | S6 | 05 | 0 | 2,000 | 4,000 | 2,000 | 0 | 8,000 | 0 | 8,000 | 0 | 0 | 8,000 | 0 | 0 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 22 | NEW SEWERS -2014 SC | CW | S3 | 05 | -1,000 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -334 | 0 | 334 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 202 | 4,000 | 8,000 | 10,000 | 10,000 | 32,202 | 68,000 | 100,202 | 0 | 0 | 24,932 | 0 | 75,270 | 0 | 0 | 0 | 0 | 100,202 |
| WAS906501 | | YARD & BUILDING RENOVATION | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | YARD & BUILDING RENOVATION | CW | S2 | 04 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| 0 | 10 | YARD & BUILDING RENOVATION - 2014 SC | CW | S3 | 04 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | 0 | 0 | 0 | -100 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAS906735 | | DIST SEWER REHAB OPS YR2005 | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. Sub-Proj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906735 | DIST SEWER REHAB OPS YR2005 | | | | | | | | | | | | | | | | | | | | | | |
| 0 10 | GROUP 1 SEWAGE PUMPING STATION UPGRADES | | CW | S2 | 03 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 800 | 0 | 0 | 61 | 0 | 739 | 0 | 0 | 0 | 0 | 0 | 800 |
| 0 15 | GROUP 1 SEWAGE PUMPING STATION UPGRADES -2014 SC | | CW | S3 | 03 | -500 | 188 | 12 | 0 | 0 | -300 | 0 | -300 | 0 | 0 | -21 | 0 | -279 | 0 | 0 | 0 | 0 | 0 | -300 |
| | Sub-total | | | | | 300 | 188 | 12 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 40 | 0 | 460 | 0 | 0 | 0 | 0 | 0 | 500 |
| WAS906741 | HIGHLAND CREEK TP YR2005 | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | WAS THICKENING AND DEWATERING ENG | | CW | S2 | 03 | 410 | 17 | 10 | 0 | 4 | 441 | 0 | 441 | 0 | 0 | 7 | 0 | 434 | 0 | 0 | 0 | 0 | 0 | 441 |
| 0 16 | WAS THICKENING AND DEWATERING ENG -2014 SC | | CW | S3 | 03 | -160 | 300 | 303 | 0 | 1 | 444 | 0 | 444 | 0 | 0 | 64 | 0 | 380 | 0 | 0 | 0 | 0 | 0 | 444 |
| | Sub-total | | | | | 250 | 317 | 313 | 0 | 5 | 885 | 0 | 885 | 0 | 0 | 71 | 0 | 814 | 0 | 0 | 0 | 0 | 0 | 885 |
| WAS906742 | HUMBER TP YR2005 | | | | | | | | | | | | | | | | | | | | | | |
| 0 6 | HEADHOUSE UPGRADES Phase 1 | | CW | S2 | 03 | 10 | 5 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 15 |
| 0 8 | ODOUR CONTROL ENGINEERING | | CW | S2 | 04 | 982 | 600 | 101 | 0 | 0 | 1,683 | 0 | 1,683 | 0 | 0 | 16 | 0 | 1,667 | 0 | 0 | 0 | 0 | 0 | 1,683 |
| 0 51 | ODOUR CONTROL ENGINEERING -2014 SC | | CW | S3 | 04 | 18 | 400 | 320 | 100 | 101 | 939 | 0 | 939 | 0 | 0 | -16 | 0 | 955 | 0 | 0 | 0 | 0 | 0 | 939 |
| 0 52 | HEADHOUSE UPGRADES Phase 1 - 2014 SC | | CW | S3 | 03 | 508 | 15 | 0 | 0 | 0 | 523 | 0 | 523 | 0 | 0 | 44 | 0 | 479 | 0 | 0 | 0 | 0 | 0 | 523 |
| | Sub-total | | | | | 1,518 | 1,020 | 421 | 100 | 101 | 3,160 | 0 | 3,160 | 0 | 0 | 44 | 0 | 3,116 | 0 | 0 | 0 | 0 | 0 | 3,160 |
| WAS906743 | ASHRIDGES BAY TP YR2005 | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | Process & Equip Upgrades | | CW | S2 | 03 | 450 | 165 | 540 | 830 | 0 | 1,985 | 0 | 1,985 | 0 | 0 | 59 | 0 | 1,926 | 0 | 0 | 0 | 0 | 0 | 1,985 |
| 0 48 | Process & Equip Upgrades -2014 SC | | CW | S3 | 03 | -310 | 315 | -218 | -372 | 82 | -503 | 0 | -503 | 0 | 0 | 61 | 0 | -564 | 0 | 0 | 0 | 0 | 0 | -503 |
| 0 49 | M & T Retrofit -2014 SC | | CW | S3 | 03 | -10 | 753 | 0 | 0 | 0 | 743 | 0 | 743 | 0 | 0 | 0 | 0 | 743 | 0 | 0 | 0 | 0 | 0 | 743 |
| 0 50 | SERVICE AIR UPGRADES -2014 SC | | CW | S3 | 03 | -4,750 | 2,790 | 2,674 | 550 | 617 | 1,881 | 0 | 1,881 | 0 | 0 | 0 | 0 | 1,881 | 0 | 0 | 0 | 0 | 0 | 1,881 |
| 1 4 | M & T IMPROVEMENTS (EQUIPMENT) | | CW | S2 | 03 | 1,827 | 0 | 0 | 0 | 0 | 1,827 | 0 | 1,827 | 0 | 0 | 0 | 0 | 1,827 | 0 | 0 | 0 | 0 | 0 | 1,827 |
| 1 7 | SERVICE AIR UPGRADES | | CW | S2 | 03 | 7,150 | 1,210 | 176 | 0 | 0 | 8,536 | 0 | 8,536 | 0 | 0 | 0 | 0 | 8,536 | 0 | 0 | 0 | 0 | 0 | 8,536 |
| | Sub-total | | | | | 4,357 | 5,233 | 3,172 | 1,008 | 699 | 14,469 | 0 | 14,469 | 0 | 0 | 120 | 0 | 14,349 | 0 | 0 | 0 | 0 | 0 | 14,469 |
| WAS906755 | WESTERN BEACHES RETROFIT | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | WESTERN BEACHES RETROFIT | | CW | S2 | 03 | 1,000 | 4,000 | 200 | 0 | 0 | 5,200 | 0 | 5,200 | 0 | 0 | 0 | 0 | 5,200 | 0 | 0 | 0 | 0 | 0 | 5,200 |
| 0 9 | WESTERN BEACHES RETROFIT -2014 SC | | CW | S3 | 03 | -200 | -1,450 | 2,350 | 0 | 0 | 700 | 0 | 700 | 0 | 0 | 474 | 0 | 226 | 0 | 0 | 0 | 0 | 0 | 700 |
| | Sub-total | | | | | 800 | 2,550 | 2,550 | 0 | 0 | 5,900 | 0 | 5,900 | 0 | 0 | 474 | 0 | 5,426 | 0 | 0 | 0 | 0 | 0 | 5,900 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906926 | OPERATIONAL SUPPORT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | DIVISIONAL SECURITY | CW | S2 | 04 | 814 | 0 | 0 | 0 | 0 | 814 | 0 | 814 | 0 | 0 | 0 | 0 | 814 | 0 | 0 | 0 | 0 | 814 |
| 0 | 7 | RENOVATION - MERTON STREET | CW | S2 | 04 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0 | 17 | Desginated Substance Abatement | CW | S2 | 02 | 173 | 0 | 0 | 0 | 0 | 173 | 0 | 173 | 0 | 0 | 0 | 0 | 173 | 0 | 0 | 0 | 0 | 173 |
| 0 | 23 | HAND HELD DEVICES - UPDATED | CW | S2 | 04 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 150 |
| 0 | 40 | WWTP PLC PLATFORM UPGRADE | CW | S2 | 04 | 3,000 | 4,000 | 5,000 | 5,000 | 4,500 | 21,500 | 0 | 21,500 | 0 | 0 | 0 | 0 | 21,500 | 0 | 0 | 0 | 0 | 21,500 |
| 0 | 49 | DISTRICT OPERATION FACILITY UPGRADES | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 3,900 | 3,900 | 0 | 0 | 0 | 0 | 3,900 | 0 | 0 | 0 | 0 | 3,900 |
| 0 | 71 | YARDS & FACILITIES - 10 YR PLAN | CW | S6 | 03 | 0 | 650 | 1,600 | 1,600 | 1,600 | 5,450 | 6,400 | 11,850 | 0 | 0 | 0 | 0 | 11,850 | 0 | 0 | 0 | 0 | 11,850 |
| 0 | 82 | FACILITY RENOVATION -2014 SC | CW | S3 | 04 | 800 | 1,000 | 0 | 0 | 0 | 1,800 | 0 | 1,800 | 0 | 0 | 0 | 0 | 1,800 | 0 | 0 | 0 | 0 | 1,800 |
| 0 | 83 | WWTP PLC PLATFORM UPGRADE -2014 SC | CW | S3 | 04 | -1,000 | -800 | -500 | 0 | -200 | -2,500 | 500 | -2,000 | 0 | 0 | 0 | 0 | -2,000 | 0 | 0 | 0 | 0 | -2,000 |
| 0 | 84 | HAND HELD DEVICES - UPDATED - 2014 SC | CW | S3 | 04 | -150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 85 | DIVISIONAL SECURITY - 2014 SC | CW | S3 | 04 | -164 | 0 | 0 | 0 | 0 | -164 | 0 | -164 | 0 | 0 | 0 | 0 | -164 | 0 | 0 | 0 | 0 | -164 |
| 0 | 86 | RENOVATION - MERTON STREET - 2014 SC | CW | S3 | 04 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0 | 87 | Desginated Substance Abatement - 2014 SC | CW | S3 | 02 | -73 | 0 | 0 | 0 | 0 | -73 | 0 | -73 | 0 | 0 | 0 | 0 | -73 | 0 | 0 | 0 | 0 | -73 |
| | | Sub-total | | | | 3,553 | 5,003 | 6,100 | 6,600 | 5,900 | 27,156 | 10,800 | 37,956 | 0 | 0 | 0 | 0 | 37,956 | 0 | 0 | 0 | 0 | 37,956 |
| WAS906958 | SEWER SYSTEM REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | Group 2 & 3 Sewage P.S. Upgrades | CW | S2 | 03 | 14 | 31 | 0 | 0 | 0 | 45 | 0 | 45 | 0 | 0 | 3 | 0 | 42 | 0 | 0 | 0 | 0 | 45 |
| 0 | 5 | CCTV Inspection | CW | S2 | 03 | 1,123 | 1,000 | 0 | 0 | 0 | 2,123 | 0 | 2,123 | 0 | 0 | 0 | 0 | 2,123 | 0 | 0 | 0 | 0 | 2,123 |
| 0 | 6 | LATERAL REHAB | CW | S2 | 03 | 399 | 0 | 0 | 0 | 0 | 399 | 0 | 399 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 0 | 0 | 399 |
| 0 | 7 | 10 Year Sewer Rehabilitation | CW | S6 | 03 | 0 | 0 | 0 | 6,000 | 45,000 | 51,000 | 263,817 | 314,817 | 0 | 0 | 0 | 0 | 314,817 | 0 | 0 | 0 | 0 | 314,817 |
| 0 | 8 | SPS SCADA UPGRADES - ENGINEERING | CW | S2 | 04 | 1,202 | 315 | 13 | 12 | 0 | 1,542 | 0 | 1,542 | 0 | 0 | 0 | 0 | 1,542 | 0 | 0 | 0 | 0 | 1,542 |
| 0 | 9 | SEWER REHABILITATION | CW | S2 | 03 | 18,873 | 30,000 | 0 | 0 | 0 | 48,873 | 0 | 48,873 | 0 | 0 | 0 | 0 | 48,873 | 0 | 0 | 0 | 0 | 48,873 |
| 0 | 23 | SEWAGE PUMPING STATION STANDBY POWER | CW | S2 | 02 | 1,925 | 0 | 0 | 0 | 0 | 1,925 | 0 | 1,925 | 0 | 0 | 0 | 0 | 1,925 | 0 | 0 | 0 | 0 | 1,925 |
| 0 | 24 | GROUP 5 SEWAGE PUMPING STATION CAPACITY UPGRADES | CW | S2 | 05 | 3,675 | 0 | 1,700 | 1,800 | 1,700 | 8,875 | 0 | 8,875 | 0 | 0 | 666 | 0 | 8,209 | 0 | 0 | 0 | 0 | 8,875 |
| 0 | 60 | Group 2 & 3 Sewage P.S. Upgrades -2014 SC | CW | S3 | 03 | -8 | 3 | 0 | 0 | 0 | -5 | 0 | -5 | 0 | 0 | 0 | 0 | -5 | 0 | 0 | 0 | 0 | -5 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS906958 | SEWER SYSTEM REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 61 | CCTV Inspection -2014 SC | CW | S3 | 03 | -223 | 0 | 1,000 | 0 | 0 | 777 | 0 | 777 | 0 | 0 | 0 | 0 | 777 | 0 | 0 | 0 | 0 | 777 |
| 0 | 62 | LATERAL REHAB -2014 SC | CW | S3 | 03 | 396 | 0 | 0 | 0 | 0 | 396 | 0 | 396 | 0 | 0 | 0 | 0 | 396 | 0 | 0 | 0 | 0 | 396 |
| 0 | 63 | SPS SCADA UPGRADES - ENGINEERING -2014 SC | CW | S3 | 04 | -587 | 285 | 0 | 0 | 0 | -302 | 0 | -302 | 0 | 0 | 99 | 0 | -401 | 0 | 0 | 0 | 0 | -302 |
| 0 | 64 | SEWER REHABILITATION -2014 SC | CW | S3 | 03 | 3,287 | -2,039 | 37,700 | 37,700 | 0 | 76,648 | 0 | 76,648 | 0 | 0 | 0 | 0 | 76,648 | 0 | 0 | 0 | 0 | 76,648 |
| 0 | 65 | SEWAGE PUMPING STATION STANDBY POWER -2014 SC | CW | S3 | 02 | -585 | 810 | 0 | 0 | 0 | 225 | 0 | 225 | 0 | 0 | 173 | 0 | 52 | 0 | 0 | 0 | 0 | 225 |
| 0 | 66 | GROUP 5 SEWAGE PS CAPACITY UPGRADES -2014 SC | CW | S3 | 05 | -3,350 | 3,250 | 4,550 | 3,450 | 2,320 | 10,220 | 20 | 10,240 | 0 | 0 | 874 | 0 | 9,366 | 0 | 0 | 0 | 0 | 10,240 |
| | | Sub-total | | | | 26,141 | 33,655 | 44,963 | 48,962 | 49,020 | 202,741 | 263,837 | 466,578 | 0 | 0 | 1,815 | 0 | 464,763 | 0 | 0 | 0 | 0 | 466,578 |
| WAS906960 | STREAM RESTORATION & EROSION CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | HIGHLAND CREEK STREAM RESTORATION | CW | S2 | 04 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 1,000 | 0 | 0 | 100 | 0 | 900 | 0 | 0 | 0 | 0 | 1,000 |
| 0 | 5 | 10 Year Stream Restoration - All Districts | CW | S6 | 03 | 0 | 0 | 0 | 5,160 | 5,310 | 10,470 | 53,950 | 64,420 | 0 | 0 | 5,186 | 0 | 59,234 | 0 | 0 | 0 | 0 | 64,420 |
| 0 | 7 | STREAM RESTORATION | CW | S2 | 03 | 4,788 | 7,500 | 0 | 0 | 0 | 12,288 | 0 | 12,288 | 0 | 0 | 1,228 | 0 | 11,060 | 0 | 0 | 0 | 0 | 12,288 |
| 0 | 26 | STREAM RESTORATION-CRITICAL LOCATIONS | CW | S2 | 03 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 50 | 0 | 450 | 0 | 0 | 0 | 0 | 500 |
| 0 | 27 | HIGHLAND CREEK STREAM RESTORATION - 10 YEAR | CW | S6 | 03 | 0 | 0 | 1,000 | 1,000 | 1,000 | 3,000 | 5,000 | 8,000 | 0 | 0 | 0 | 0 | 8,000 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 28 | STREAM RESTORATION CRITICAL LOCAITONS - 10 YR | CW | S6 | 03 | 0 | 0 | 500 | 500 | 500 | 1,500 | 2,500 | 4,000 | 0 | 0 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 4,000 |
| 0 | 31 | HIGHLAND CREEK STREAM RESTORATION -2014 SC | CW | S3 | 04 | 40 | 1,000 | 0 | 0 | 0 | 1,040 | 0 | 1,040 | 0 | 0 | 64 | 0 | 976 | 0 | 0 | 0 | 0 | 1,040 |
| 0 | 32 | STREAM RESTORATION -2014 SC | CW | S3 | 03 | 1,712 | 0 | 5,370 | 2,500 | 310 | 9,892 | 950 | 10,842 | 0 | 0 | 634 | 0 | 10,208 | 0 | 0 | 0 | 0 | 10,842 |
| 0 | 33 | STREAM RESTORATION-CRITICAL LOCATIONS -2014 SC | CW | S3 | 03 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | -50 | 0 | 550 | 0 | 0 | 0 | 0 | 500 |
| | | Sub-total | | | | 8,040 | 9,000 | 6,870 | 9,160 | 7,120 | 40,190 | 62,400 | 102,590 | 0 | 0 | 7,212 | 0 | 95,378 | 0 | 0 | 0 | 0 | 102,590 |
| WAS906964 | CONVEYANCE CONTROLS - REPLC & REHAB | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 9 | 2008 STORM SEWER REHABILITATION | CW | S2 | 03 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 18 |
| 0 | 18 | COATSWORTH CUT - PHASE 1 CONSTRUCTION | CW | S2 | 04 | 43 | 110 | 110 | 110 | 0 | 373 | 0 | 373 | 0 | 0 | 37 | 0 | 336 | 0 | 0 | 0 | 0 | 373 |
| 0 | 26 | COATSWORTH CUT - PHASE 1 CONSTRUCTION -2014 SC | CW | S3 | 04 | 0 | -90 | -110 | -110 | 0 | -310 | 0 | -310 | 0 | 0 | -37 | 0 | -273 | 0 | 0 | 0 | 0 | -310 |
| 0 | 27 | 2008 STORM SEWER REHABILITATION - 2014 SC | CW | S3 | 03 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| | | Sub-total | | | | 65 | 20 | 0 | 0 | 0 | 85 | 0 | 85 | 0 | 0 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 85 |
| WAS906966 | SWM TRCA FUNDING | | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906966 | SWM TRCA FUNDING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | 10 Year TRCA Funding | CW | S6 | 04 | 0 | 4,069 | 4,171 | 4,275 | 4,382 | 16,897 | 23,609 | 40,506 | 0 | 0 | 3,260 | 0 | 37,246 | 0 | 0 | 0 | 0 | 0 | 40,506 |
| 0 | 17 | TRCA FUNDING - 2014 SC | CW | S3 | 04 | 3,970 | 0 | 0 | 0 | 0 | 3,970 | 0 | 3,970 | 0 | 0 | 320 | 0 | 3,650 | 0 | 0 | 0 | 0 | 0 | 3,970 |
| | | Sub-total | | | | 3,970 | 4,069 | 4,171 | 4,275 | 4,382 | 20,867 | 23,609 | 44,476 | 0 | 0 | 3,580 | 0 | 40,896 | 0 | 0 | 0 | 0 | 0 | 44,476 |
| WAS906968 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | CONSULTING FEES | CW | S2 | 03 | 2,928 | 2,000 | 0 | 0 | 0 | 4,928 | 0 | 4,928 | 0 | 0 | 0 | 0 | 4,928 | 0 | 0 | 0 | 0 | 0 | 4,928 |
| 0 | 31 | ROAD RESTORATION | CW | S2 | 03 | 1,118 | 0 | 0 | 0 | 0 | 1,118 | 0 | 1,118 | 0 | 0 | 0 | 0 | 1,118 | 0 | 0 | 0 | 0 | 0 | 1,118 |
| 0 | 48 | ROAD RESTORATION -FUTURE | CW | S6 | 03 | 0 | 2,732 | 2,814 | 0 | 0 | 5,546 | 0 | 5,546 | 0 | 0 | 0 | 0 | 5,546 | 0 | 0 | 0 | 0 | 0 | 5,546 |
| 0 | 51 | CONSULTING FEES-2014 SC | CW | S3 | 03 | 27 | 3,298 | 6,874 | 5,912 | 5,445 | 21,556 | 9,176 | 30,732 | 0 | 0 | 0 | 0 | 30,732 | 0 | 0 | 0 | 0 | 0 | 30,732 |
| 0 | 52 | ECS SALARIES | CW | S4 | 03 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 0 | 0 | 0 | 0 | 12,033 |
| 0 | 53 | ROAD RESTORATION - 2014 SC | CW | S3 | 03 | 1,534 | 0 | 0 | 0 | 0 | 1,534 | 0 | 1,534 | 0 | 0 | 0 | 0 | 1,534 | 0 | 0 | 0 | 0 | 0 | 1,534 |
| | | Sub-total | | | | 17,640 | 8,030 | 9,688 | 5,912 | 5,445 | 46,715 | 9,176 | 55,891 | 0 | 0 | 0 | 0 | 55,891 | 0 | 0 | 0 | 0 | 0 | 55,891 |
| WAS906973 | SEWER REPLACEMENT PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | 10 Year Sewer Replacement | CW | S6 | 03 | 0 | 20,000 | 31,000 | 35,000 | 40,000 | 126,000 | 255,000 | 381,000 | 0 | 0 | 18,397 | 0 | 362,603 | 0 | 0 | 0 | 0 | 0 | 381,000 |
| 0 | 24 | SEWAGE FORCEMAIN REPLACEMENT | CW | S2 | 03 | 4,243 | 0 | 0 | 0 | 0 | 4,243 | 0 | 4,243 | 0 | 0 | 0 | 0 | 4,243 | 0 | 0 | 0 | 0 | 0 | 4,243 |
| 0 | 25 | SEWER REPLACEMENT 2012 | CW | S2 | 03 | 1,700 | 0 | 0 | 0 | 0 | 1,700 | 0 | 1,700 | 0 | 0 | 170 | 0 | 1,530 | 0 | 0 | 0 | 0 | 0 | 1,700 |
| 0 | 35 | SEWER REPLACMENT - 2013 PROGRAM | CW | S2 | 03 | 16,748 | 0 | 0 | 0 | 0 | 16,748 | 0 | 16,748 | 0 | 0 | 0 | 0 | 16,748 | 0 | 0 | 0 | 0 | 0 | 16,748 |
| 0 | 36 | SEWER REPLACEMENT -2014 | CW | S4 | 03 | 13,132 | 6,596 | 2,000 | 0 | 0 | 21,728 | 0 | 21,728 | 0 | 0 | 0 | 0 | 21,728 | 0 | 0 | 0 | 0 | 0 | 21,728 |
| 0 | 37 | FORCEMENT REPLACEMENT - 10 YEAR | CW | S6 | 03 | 0 | 1,000 | 2,000 | 2,000 | 2,000 | 7,000 | 10,000 | 17,000 | 0 | 0 | 0 | 0 | 17,000 | 0 | 0 | 0 | 0 | 0 | 17,000 |
| 0 | 44 | COXWELL TRUNK EMERGENCY REPAIR | CW | S2 | 03 | 1,747 | 1,541 | 0 | 0 | 0 | 3,288 | 0 | 3,288 | 0 | 0 | 0 | 0 | 3,288 | 0 | 0 | 0 | 0 | 0 | 3,288 |
| 0 | 46 | WATERFRONT STORMWATER INFRASTRUCTURE | CW | S2 | 04 | 11,750 | 0 | 0 | 0 | 0 | 11,750 | 0 | 11,750 | 0 | 0 | 4,860 | 0 | 6,890 | 0 | 0 | 0 | 0 | 0 | 11,750 |
| 0 | 47 | WATERFRONT SANITARY SERVICING INFRASTRUCTURE | CW | S2 | 04 | 16,020 | 0 | 0 | 0 | 0 | 16,020 | 0 | 16,020 | 0 | 0 | 10,480 | 0 | 5,540 | 0 | 0 | 0 | 0 | 0 | 16,020 |
| 0 | 48 | SEWER REPLACEMENT 2012 -2014 SC | CW | S3 | 03 | -1,059 | 2,122 | 0 | 0 | 0 | 1,063 | 0 | 1,063 | 0 | 0 | -170 | 0 | 1,233 | 0 | 0 | 0 | 0 | 0 | 1,063 |
| 0 | 49 | SEWER REPLACMENT - 2013 PROGRAM -2014 SC | CW | S3 | 03 | -9,278 | 4,522 | 0 | 0 | 0 | -4,756 | 0 | -4,756 | 0 | 0 | 965 | 0 | -5,721 | 0 | 0 | 0 | 0 | 0 | -4,756 |
| 0 | 52 | SEWER REPLACEMENT - METROLINX | CW | S4 | 03 | 50 | 2,195 | 1,608 | 1,096 | 603 | 5,552 | 0 | 5,552 | 0 | 0 | 0 | 0 | 5,552 | 0 | 0 | 0 | 0 | 0 | 5,552 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906973 | SEWER REPLACEMENT PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 54 | SEWAGE FORCEMAIN REPLACEMENT - 2014 SC | CW | S3 | 03 | -3,243 | 1,000 | 0 | 0 | 0 | -2,243 | 0 | -2,243 | 0 | 0 | 0 | 0 | -2,243 | 0 | 0 | 0 | 0 | -2,243 |
| 0 | 55 | SEWER REPLACEMENT - LESLIE ST | CW | S4 | 03 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 10,000 |
| 0 | 56 | COXWELL TRUNK EMERGENCY REPAIR - 2014 SC | CW | S3 | 03 | -747 | 0 | 0 | 0 | 0 | -747 | 0 | -747 | 0 | 0 | 0 | 0 | -747 | 0 | 0 | 0 | 0 | -747 |
| | | Sub-total | | | | 61,063 | 38,976 | 36,608 | 38,096 | 42,603 | 217,346 | 265,000 | 482,346 | 0 | 0 | 34,702 | 0 | 447,644 | 0 | 0 | 0 | 0 | 482,346 |
| WAS906980 | ASHBRIDGES BAY T.P. YR2006 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | MEDIATION AGREEMENT IMPLEMENTATION - PART 2 | CW | S2 | 04 | 45 | 25 | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 0 | 3 | 0 | 67 | 0 | 0 | 0 | 0 | 70 |
| 0 | 9 | DEWATERING EQUIPMENT UPGRADES | CW | S2 | 03 | 2,580 | 143 | 10 | 0 | 0 | 2,733 | 0 | 2,733 | 0 | 0 | 81 | 0 | 2,652 | 0 | 0 | 0 | 0 | 2,733 |
| 0 | 34 | MEDIATION AGREEMENT IMPLEMENTATION-PART 2 -2014 SC | CW | S3 | 04 | -20 | 0 | 0 | 0 | 0 | -20 | 0 | -20 | 0 | 0 | 1 | 0 | -21 | 0 | 0 | 0 | 0 | -20 |
| 0 | 35 | DEWATERING EQUIPMENT UPGRADES -2014 SC | CW | S3 | 03 | -1,780 | 1,467 | 2,216 | 0 | 0 | 1,903 | 0 | 1,903 | 0 | 0 | 292 | 0 | 1,611 | 0 | 0 | 0 | 0 | 1,903 |
| | | Sub-total | | | | 825 | 1,635 | 2,226 | 0 | 0 | 4,686 | 0 | 4,686 | 0 | 0 | 377 | 0 | 4,309 | 0 | 0 | 0 | 0 | 4,686 |
| WAS906981 | HIGHLAND CREEK WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | PROCESS & FACILITY UPGRADE | CW | S2 | 04 | 3,095 | 850 | 810 | 240 | 0 | 4,995 | 0 | 4,995 | 0 | 0 | 0 | 0 | 4,995 | 0 | 0 | 0 | 0 | 4,995 |
| 0 | 3 | BIOSOLIDS TREATMENT UPGRADES | CW | S2 | 03 | 25,530 | 21,007 | 20,700 | 14,021 | 30 | 81,288 | 0 | 81,288 | 0 | 0 | 1,625 | 0 | 79,663 | 0 | 0 | 0 | 0 | 81,288 |
| 0 | 5 | TRANSFORMERS AND SWITCHGEAR | CW | S2 | 05 | 0 | 0 | 1,000 | 1,250 | 1,690 | 3,940 | 1,200 | 5,140 | 0 | 0 | 0 | 0 | 5,140 | 0 | 0 | 0 | 0 | 5,140 |
| 0 | 7 | MECH & ELECTRICAL UPGRADE ENGINEERING | CW | S2 | 03 | 1,452 | 685 | 0 | 0 | 0 | 2,137 | 0 | 2,137 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 0 | 0 | 2,137 |
| 0 | 8 | DIGESTER GAS SYSTEM UPGRADES | CW | S2 | 03 | 1,830 | 4,950 | 4,680 | 50 | 0 | 11,510 | 0 | 11,510 | 0 | 0 | 0 | 0 | 11,510 | 0 | 0 | 0 | 0 | 11,510 |
| 0 | 16 | MECH SYSTEMS UPGRADES - CONSTR | CW | S2 | 03 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 0 | 0 | 0 | 1,200 |
| 0 | 23 | ELECTRICAL UPGRADES-ECAR | CW | S2 | 03 | 2,430 | 2,381 | 9,065 | 0 | 0 | 13,876 | 0 | 13,876 | 0 | 0 | 0 | 0 | 13,876 | 0 | 0 | 0 | 0 | 13,876 |
| 0 | 31 | ELEC SYSTEM UPGRADES - CONSTR | CW | S2 | 03 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 32 | CEPA COMPLIANCE -HCTP - 2014 SC | CW | S3 | 02 | 200 | 2,000 | 300 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 0 | 0 | 2,500 | 0 | 0 | 0 | 0 | 2,500 |
| 0 | 72 | PROCESS & FACILITY UPGRADE -2014 SC | CW | S3 | 04 | -795 | 1,930 | 513 | 370 | 620 | 2,638 | 1,079 | 3,717 | 0 | 0 | 0 | 0 | 3,717 | 0 | 0 | 0 | 0 | 3,717 |
| 0 | 73 | BIOSOLIDS TREATMENT UPGRADES -2014 SC | CW | S3 | 03 | -18,772 | -10,115 | -50 | 6,060 | 9,120 | -13,757 | 30 | -13,727 | 0 | 0 | 3,838 | 0 | -17,565 | 0 | 0 | 0 | 0 | -13,727 |
| 0 | 74 | TRANSFORMERS AND SWITCHGEAR -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 414 | 0 | -414 | 0 | 0 | 0 | 0 | 0 |
| 0 | 75 | MECH & ELECTRICAL UPGRADE ENGINEERING -2014 SC | CW | S3 | 03 | -1,027 | 782 | 57 | 0 | 0 | -188 | 0 | -188 | 0 | 0 | 0 | 0 | -188 | 0 | 0 | 0 | 0 | -188 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906981 | HIGHLAND CREEK WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 76 | MECH SYSTEMS UPGRADES - CONSTR -2014 SC | CW | S3 | 03 | -1,000 | 1,031 | 0 | 0 | 0 | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 31 |
| 0 | 77 | ELEC SYSTEM UPGRADES - CONSTR -2014 SC | CW | S3 | 03 | -1,800 | 1,076 | 0 | 0 | 0 | -724 | 0 | -724 | 0 | 0 | 0 | 0 | -724 | 0 | 0 | 0 | 0 | -724 |
| 0 | 78 | DIGESTER GAS SYSTEM UPGRADES -2014 SC | CW | S3 | 03 | -1,630 | -3,280 | 270 | 4,630 | 50 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 40 |
| 0 | 79 | ELECTRICAL UPGRADES-ECAR -2014 SC | CW | S3 | 03 | -218 | -41 | -5,930 | 590 | 2,720 | -2,879 | 4,800 | 1,921 | 0 | 0 | 0 | 0 | 1,921 | 0 | 0 | 0 | 0 | 1,921 |
| 0 | 80 | RAS AND BLOWER UPGRADES | CW | S6 | 04 | 0 | 2,500 | 3,500 | 3,500 | 3,500 | 13,000 | 6,500 | 19,500 | 0 | 0 | 0 | 0 | 19,500 | 0 | 0 | 0 | 0 | 19,500 |
| 0 | 82 | DIGESTERS CLEANING REHAB 10 YEAR PLAN | CW | S4 | 03 | 1,600 | 2,000 | 0 | 0 | 0 | 3,600 | 0 | 3,600 | 0 | 0 | 0 | 0 | 3,600 | 0 | 0 | 0 | 0 | 3,600 |
| 0 | 83 | PLANT FIRM CAPACITY - CONCEPT DESIGN | CW | S4 | 03 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 400 |
| | | Sub-total | | | | 15,995 | 27,756 | 34,915 | 30,711 | 17,730 | 127,107 | 13,609 | 140,716 | 0 | 0 | 5,877 | 0 | 134,839 | 0 | 0 | 0 | 0 | 140,716 |
| WAS906982 | HUMBER WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | BUILDING UPGRADE ENGINEERING | CW | S2 | 03 | 34 | 0 | 0 | 0 | 0 | 34 | 0 | 34 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 34 |
| 0 | 2 | Chlorine Building Upgrade | CW | S2 | 01 | 5,226 | 36 | 0 | 0 | 0 | 5,262 | 0 | 5,262 | 0 | 0 | 0 | 0 | 5,262 | 0 | 0 | 0 | 0 | 5,262 |
| 0 | 5 | FLOOD PROTECTION | CW | S2 | 02 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 150 |
| 0 | 6 | NEW SUBSTATION | CW | S2 | 03 | 7,934 | 0 | 0 | 0 | 0 | 7,934 | 0 | 7,934 | 0 | 0 | 0 | 0 | 7,934 | 0 | 0 | 0 | 0 | 7,934 |
| 0 | 7 | ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS | CW | S2 | 01 | 3,842 | 4,000 | 4,750 | 2,000 | 2,700 | 17,292 | 5,300 | 22,592 | 0 | 0 | 0 | 0 | 22,592 | 0 | 0 | 0 | 0 | 22,592 |
| 0 | 8 | NEW GROUNDSKEEPING BUILDING and RAS Control Room | CW | S2 | 01 | 1,490 | 0 | 0 | 0 | 0 | 1,490 | 0 | 1,490 | 0 | 0 | 0 | 0 | 1,490 | 0 | 0 | 0 | 0 | 1,490 |
| 0 | 20 | BLDG & GROUNDS UPGRADE | CW | S2 | 03 | 320 | 376 | 0 | 0 | 0 | 696 | 0 | 696 | 0 | 0 | 0 | 0 | 696 | 0 | 0 | 0 | 0 | 696 |
| 0 | 29 | ADMIN BUILDING EXPANSION | CW | S4 | 04 | 100 | 250 | 400 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 750 |
| 0 | 52 | HVAC UPGRADES | CW | S2 | 03 | 1,146 | 210 | 0 | 0 | 0 | 1,356 | 0 | 1,356 | 0 | 0 | 0 | 0 | 1,356 | 0 | 0 | 0 | 0 | 1,356 |
| 0 | 62 | Chlorine Building Upgrade -2014 SC | CW | S3 | 01 | -826 | 2,230 | 25 | 25 | 0 | 1,454 | 0 | 1,454 | 0 | 0 | 0 | 0 | 1,454 | 0 | 0 | 0 | 0 | 1,454 |
| 0 | 63 | ELECTRICAL CONDITION ASSESSMENT REC -2014 SC | CW | S3 | 01 | -2,167 | -1,871 | -1,225 | 425 | -450 | -5,288 | -1,800 | -7,088 | 0 | 0 | 0 | 0 | -7,088 | 0 | 0 | 0 | 0 | -7,088 |
| 0 | 64 | NEW SUBSTATION -2014 SC | CW | S3 | 03 | -4,971 | 2,080 | 3,015 | 0 | 0 | 124 | 0 | 124 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 124 |
| 0 | 65 | BLDG & GROUNDS UPGRADE -2014 SC | CW | S3 | 03 | -320 | -376 | 0 | 0 | 0 | -696 | 0 | -696 | 0 | 0 | 0 | 0 | -696 | 0 | 0 | 0 | 0 | -696 |
| 0 | 66 | HVAC UPGRADES -2014 SC | CW | S3 | 03 | -546 | 3,290 | 1,620 | 20 | 10 | 4,394 | 0 | 4,394 | 0 | 0 | 0 | 0 | 4,394 | 0 | 0 | 0 | 0 | 4,394 |
| 0 | 68 | ADMIN BUILDING EXPANSION | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 8,455 | 8,455 | 0 | 0 | 0 | 0 | 8,455 | 0 | 0 | 0 | 0 | 8,455 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS906982 | HUMBER WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 69 | DIGESTERS CLEANING REHAB 10 YEAR PLAN | CW | S6 | 03 | 0 | 410 | 825 | 825 | 825 | 2,885 | 1,225 | 4,110 | 0 | 0 | 0 | 0 | 4,110 | 0 | 0 | 0 | 0 | 4,110 |
| 0 | 70 | FLOOD PROTECTION - 2014 SC | CW | S3 | 02 | 0 | 250 | 0 | 0 | 0 | 250 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 |
| 0 | 71 | BUILDING UPGRADE ENGINEERING - 2014 SC | CW | S3 | 03 | 218 | 0 | 0 | 0 | 0 | 218 | 0 | 218 | 0 | 0 | 0 | 0 | 218 | 0 | 0 | 0 | 0 | 218 |
| 0 | 72 | NEW GROUNDSKEEPING BDLG & RAS CONTROL - 2014 SC | CW | S3 | 01 | -40 | 350 | 0 | 0 | 0 | 310 | 0 | 310 | 0 | 0 | 0 | 0 | 310 | 0 | 0 | 0 | 0 | 310 |
| | | Sub-total | | | | 11,590 | 11,235 | 9,410 | 3,295 | 3,085 | 38,615 | 13,180 | 51,795 | 0 | 0 | 0 | 0 | 51,795 | 0 | 0 | 0 | 0 | 51,795 |
| WAS906994 | HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | HCTP BIOSOLIDS IMPLEMENTATION - ENGINEERING | CW | S2 | 04 | 1,911 | 5,000 | 4,200 | 3,000 | 3,000 | 17,111 | 4,300 | 21,411 | 0 | 0 | 428 | 0 | 20,983 | 0 | 0 | 0 | 0 | 21,411 |
| 0 | 3 | WAS THICKENING AND DEWATERING CONSTR | CW | S2 | 03 | 4,733 | 0 | 16 | 0 | 0 | 4,749 | 0 | 4,749 | 0 | 0 | 95 | 0 | 4,654 | 0 | 0 | 0 | 0 | 4,749 |
| 0 | 8 | HCTP -BIOSOLID IMPLEMENTATION - CONSTRUCTION | CW | S6 | 04 | 0 | 0 | 0 | 3,000 | 25,000 | 28,000 | 106,197 | 134,197 | 0 | 0 | 6,478 | 0 | 127,719 | 0 | 0 | 0 | 0 | 134,197 |
| 0 | 11 | WAS THICKENING AND DEWATERING CONSTR -2014 SC | CW | S3 | 03 | -3,083 | 3,000 | 4,031 | 0 | 0 | 3,948 | 0 | 3,948 | 0 | 0 | 606 | 0 | 3,342 | 0 | 0 | 0 | 0 | 3,948 |
| 0 | 12 | HCTP - BIOSOLIDS IMPLEMENTATION - ENG -2014 SC | CW | S3 | 04 | -711 | -700 | -1,200 | 0 | 0 | -2,611 | -1,800 | -4,411 | 0 | 0 | 939 | 0 | -5,350 | 0 | 0 | 0 | 0 | -4,411 |
| | | Sub-total | | | | 2,850 | 7,300 | 7,047 | 6,000 | 28,000 | 51,197 | 108,697 | 159,894 | 0 | 0 | 8,546 | 0 | 151,348 | 0 | 0 | 0 | 0 | 159,894 |
| WAS907038 | Land Acquisition for Source Water Protect | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | EROSION PROTECTION & LAND ACQUISITION | CW | S2 | 04 | 2,000 | 2,000 | 0 | 0 | 0 | 4,000 | 0 | 4,000 | 0 | 0 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 4,000 |
| 0 | 9 | TRCA CRITICAL EROSION - FUTRE | CW | S6 | 04 | 0 | 0 | 2,000 | 2,000 | 2,000 | 6,000 | 10,000 | 16,000 | 0 | 0 | 1,288 | 0 | 14,712 | 0 | 0 | 0 | 0 | 16,000 |
| 0 | 11 | EROSION PROTECTION & LAND ACQUISITION -2014 SC | CW | S3 | 04 | 5,000 | 5,000 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 1,128 | 0 | 8,872 | 0 | 0 | 0 | 0 | 10,000 |
| | | Sub-total | | | | 7,000 | 7,000 | 2,000 | 2,000 | 2,000 | 20,000 | 10,000 | 30,000 | 0 | 0 | 2,416 | 0 | 27,584 | 0 | 0 | 0 | 0 | 30,000 |
| WAS907097 | ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | CONTROLLED SUBSTANCE IDENTIFICATION AND ABATEMENT | 32 | S2 | 02 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 270 |
| 0 | 19 | CITY IMPROVEMENTS RE: TH COGEN | CW | S2 | 04 | 1,020 | 1,300 | 2,500 | 2,200 | 1,000 | 8,020 | 50 | 8,070 | 0 | 0 | 0 | 0 | 8,070 | 0 | 0 | 0 | 0 | 8,070 |
| 0 | 21 | BLOWER BLDG AND OLD NORTH SUBSTAION IMPROVEMENTS | CW | S2 | 04 | 0 | 0 | 700 | 1,760 | 1,950 | 4,410 | 1,105 | 5,515 | 0 | 0 | 0 | 0 | 5,515 | 0 | 0 | 0 | 0 | 5,515 |
| 0 | 40 | GROVE LANDSCAPING PH1 | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 2,000 | 2,000 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 |
| 0 | 45 | CONTROLLED SUBSTANCE IDENTIFICATION - 2014 SC | CW | S3 | 02 | 0 | 270 | 0 | 0 | 0 | 270 | 0 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 270 |
| 0 | 46 | CITY IMPROVEMENTS RE: TH COGEN -2014 SC | CW | S3 | 04 | -870 | -400 | -1,200 | 300 | 1,200 | -970 | 1,000 | 30 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 30 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS907097 | ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |
| 0 49 | BLOWER BLDG & OLD NORTH SUBSTAION IMPROV - 2014 SC | CW | S3 | 04 | 700 | 1,950 | 2,105 | -1,700 | -1,950 | 1,105 | -1,105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sub-total | | | | 1,120 | 3,120 | 4,105 | 2,560 | 2,200 | 13,105 | 3,050 | 16,155 | 0 | 0 | 0 | 0 | 16,155 | 0 | 0 | 0 | 0 | 16,155 |
| WAS907098 | ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | ABTP DISINFECTION ENGINEERING | CW | S2 | 02 | 4,498 | 5,260 | 4,000 | 4,000 | 1,720 | 19,478 | 20 | 19,498 | 0 | 0 | 586 | 0 | 18,912 | 0 | 0 | 0 | 0 | 19,498 |
| 0 2 | OUTFALL CONSTRUCTION | CW | S6 | 02 | 0 | 0 | 0 | 0 | 5,000 | 5,000 | 345,200 | 350,200 | 0 | 0 | 16,910 | 0 | 333,290 | 0 | 0 | 0 | 0 | 350,200 |
| 0 13 | ABTP OUTFALL ASSESSMENT | CW | S2 | 02 | 688 | 0 | 0 | 0 | 0 | 688 | 0 | 688 | 0 | 0 | 20 | 0 | 668 | 0 | 0 | 0 | 0 | 688 |
| 0 14 | ABTP OUTFALL ENGINEERING | CW | S6 | 02 | 0 | 700 | 6,300 | 5,000 | 6,000 | 18,000 | 16,500 | 34,500 | 0 | 0 | 1,665 | 0 | 32,835 | 0 | 0 | 0 | 0 | 34,500 |
| 0 15 | ABTP DISINFECTION CONSTRUCTION | CW | S6 | 02 | 0 | 1,000 | 4,000 | 35,000 | 70,000 | 110,000 | 75,500 | 185,500 | 0 | 0 | 8,957 | 0 | 176,543 | 0 | 0 | 0 | 0 | 185,500 |
| 0 19 | ABTP DISINFECTION ENGINEERING -2014 SC | CW | S3 | 02 | -3,498 | -3,611 | -500 | 410 | -110 | -7,309 | 1,119 | -6,190 | 0 | 0 | 486 | 0 | -6,676 | 0 | 0 | 0 | 0 | -6,190 |
| 0 20 | ABTP OUTFALL ASSESSMENT -2014 SC | CW | S3 | 02 | -475 | 1,300 | 0 | 0 | 0 | 825 | 0 | 825 | 0 | 0 | 102 | 0 | 723 | 0 | 0 | 0 | 0 | 825 |
| | Sub-total | | | | 1,213 | 4,649 | 13,800 | 44,410 | 82,610 | 146,682 | 438,339 | 585,021 | 0 | 0 | 28,726 | 0 | 556,295 | 0 | 0 | 0 | 0 | 585,021 |
| WAS907099 | ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | FINE BUBBLE AERATION IMPLEMENTATION | CW | S2 | 03 | 12,450 | 4,000 | 0 | 0 | 0 | 16,450 | 0 | 16,450 | 0 | 0 | 494 | 0 | 15,956 | 0 | 0 | 0 | 0 | 16,450 |
| 0 2 | PRIMARY TREATMENT UPGRADE - DESIGN & CONST CONT #2 | CW | S6 | 04 | 0 | 0 | 0 | 0 | 2,000 | 2,000 | 50,000 | 52,000 | 0 | 0 | 2,512 | 0 | 49,488 | 0 | 0 | 0 | 0 | 52,000 |
| 0 3 | PRIMARY TREATMENT UPGRADE CONT #1 | CW | S2 | 03 | 37,680 | 35,200 | 30,200 | 29,200 | 0 | 132,280 | 0 | 132,280 | 0 | 0 | 3,969 | 0 | 128,311 | 0 | 0 | 0 | 0 | 132,280 |
| 0 5 | FINE BUBBLE AERATION CONSTR CONT#2 | CW | S6 | 03 | 0 | 0 | 0 | 1,000 | 22,000 | 23,000 | 188,000 | 211,000 | 0 | 0 | 10,189 | 0 | 200,811 | 0 | 0 | 0 | 0 | 211,000 |
| 0 6 | M & T PUMPING STATION CRITICAL REPAIRS | CW | S4 | 03 | 1,200 | 4,500 | 2,670 | 0 | 0 | 8,370 | 0 | 8,370 | 0 | 0 | 0 | 0 | 8,370 | 0 | 0 | 0 | 0 | 8,370 |
| 0 7 | Primary and Secondary Tanks Rehabilitation | CW | S2 | 03 | 414 | 0 | 0 | 0 | 0 | 414 | 4,618 | 5,032 | 0 | 0 | 156 | 0 | 4,876 | 0 | 0 | 0 | 0 | 5,032 |
| 0 10 | INTERGRATED PUMPING STATION - ENGINEERING | CW | S2 | 03 | 4,144 | 9,955 | 4,005 | 3,000 | 3,000 | 24,104 | 11,000 | 35,104 | 0 | 0 | 1,053 | 0 | 34,051 | 0 | 0 | 0 | 0 | 35,104 |
| 0 12 | WORK AREA 1 REHAB | CW | S2 | 03 | 20 | 20 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 40 |
| 0 13 | WORK AREA 5 REHAB | CW | S2 | 03 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 400 |
| 0 39 | INTEGRATED PUMPING STATION - CONSTRUCTION | CW | S2 | 03 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 105 | 0 | 3,395 | 0 | 0 | 0 | 0 | 3,500 |
| 0 45 | WORK AREA 1 REHAB-2014 SC | CW | S3 | 03 | 175 | -18 | 0 | 0 | 0 | 157 | 0 | 157 | 0 | 0 | 0 | 0 | 157 | 0 | 0 | 0 | 0 | 157 |
| 0 46 | WORK AREA 5 REHAB-2014 SC | CW | S3 | 03 | -400 | 0 | 0 | 0 | 0 | -400 | 0 | -400 | 0 | 0 | 0 | 0 | -400 | 0 | 0 | 0 | 0 | -400 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS907099 | ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 51 | FINE BUBBLE AERATION IMPLEMENTATION -2014 SC | CW | S3 | 03 | -10,000 | 5,500 | 8,000 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 1,112 | 0 | 2,388 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 52 | INTEGRATED PUMPING STATION - ENGINEERING -2014 SC | CW | S3 | 03 | -2,236 | -5,455 | 3,045 | 4,050 | 4,000 | 3,404 | 10,233 | 13,637 | 0 | 0 | -1,053 | 0 | 14,690 | 0 | 0 | 0 | 0 | 0 | 13,637 |
| 0 | 53 | PRIMARY TREATMENT UPGRADE CONT #1 -2014 SC | CW | S3 | 03 | -16,980 | -9,225 | -200 | 4,300 | 28,000 | 5,895 | 0 | 5,895 | 0 | 0 | 7,150 | 0 | -1,255 | 0 | 0 | 0 | 0 | 0 | 5,895 |
| 0 | 54 | INTEGRATED PUMPING STATION - CONS -2014 SC | CW | S3 | 03 | -3,500 | 0 | 10,000 | 35,000 | 45,000 | 86,500 | 235,000 | 321,500 | 0 | 0 | -105 | 0 | 321,605 | 0 | 0 | 0 | 0 | 0 | 321,500 |
| 0 | 55 | Primary and Secondary Tanks Rehab -2014 SC | CW | S3 | 03 | 1,486 | 1,100 | 100 | 0 | 0 | 2,686 | -4,618 | -1,932 | 0 | 0 | 95 | 0 | -2,027 | 0 | 0 | 0 | 0 | 0 | -1,932 |
| | | Sub-total | | | | 28,353 | 45,577 | 57,820 | 76,550 | 104,000 | 312,300 | 494,233 | 806,533 | 0 | 0 | 25,677 | 0 | 780,856 | 0 | 0 | 0 | 0 | 0 | 806,533 |
| WAS907100 | ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING | CW | S2 | 03 | 3,760 | 2,800 | 2,200 | 2,000 | 2,000 | 12,760 | 4,100 | 16,860 | 0 | 0 | 506 | 0 | 16,354 | 0 | 0 | 0 | 0 | 0 | 16,860 |
| 0 | 4 | DIGESTERS 9-12 REFURBISHMENT | CW | S2 | 03 | 5,320 | 13,510 | 12,310 | 40 | 30 | 31,210 | 0 | 31,210 | 0 | 0 | 935 | 0 | 30,275 | 0 | 0 | 0 | 0 | 0 | 31,210 |
| 0 | 8 | BIOSOLIDS PELLETIZER RETROFIT | CW | S2 | 03 | 400 | 400 | 0 | 0 | 0 | 800 | 0 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | 0 | 800 |
| 0 | 22 | WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION | CW | S6 | 03 | 0 | 0 | 5,000 | 15,000 | 20,000 | 40,000 | 45,000 | 85,000 | 0 | 0 | 4,103 | 0 | 80,897 | 0 | 0 | 0 | 0 | 0 | 85,000 |
| 0 | 25 | PELLETIZER TRUCK LOADING FACILITY UPGRADES | CW | S2 | 03 | 1,480 | 0 | 0 | 0 | 0 | 1,480 | 0 | 1,480 | 0 | 0 | 0 | 0 | 1,480 | 0 | 0 | 0 | 0 | 0 | 1,480 |
| 0 | 28 | DIGESTERS 9-12 REFURBISHMENT -2014 SC | CW | S3 | 03 | -4,670 | -13,160 | -1,310 | 10,970 | 8,280 | 110 | 70 | 180 | 0 | 0 | 1,590 | 0 | -1,410 | 0 | 0 | 0 | 0 | 0 | 180 |
| 0 | 29 | WASTE ACTIVATED SLUDGE UPGRADE - ENG -2014 SC | CW | S3 | 03 | -1,760 | -300 | 1,800 | 500 | 0 | 240 | 0 | 240 | 0 | 0 | 870 | 0 | -630 | 0 | 0 | 0 | 0 | 0 | 240 |
| 0 | 30 | PELLETIZER TRUCK LOADING FACILITY UPGRADE -2014 SC | CW | S3 | 03 | -930 | 1,000 | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 70 |
| | | Sub-total | | | | 3,600 | 4,250 | 20,000 | 28,510 | 30,310 | 86,670 | 49,170 | 135,840 | 0 | 0 | 8,004 | 0 | 127,836 | 0 | 0 | 0 | 0 | 0 | 135,840 |
| WAS907101 | ASHBRIDGES BAY WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | PROCESS & EQUIP UPGRADES | CW | S2 | 03 | 46 | 0 | 0 | 0 | 0 | 46 | 0 | 46 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 46 |
| 0 | 6 | MESI UPGRADES | CW | S2 | 03 | 2,311 | 0 | 0 | 0 | 0 | 2,311 | 0 | 2,311 | 0 | 0 | 0 | 0 | 2,311 | 0 | 0 | 0 | 0 | 0 | 2,311 |
| 0 | 7 | MISC MECH REHAB | CW | S2 | 03 | 6,216 | 4,000 | 0 | 0 | 0 | 10,216 | 0 | 10,216 | 0 | 0 | 0 | 0 | 10,216 | 0 | 0 | 0 | 0 | 0 | 10,216 |
| 0 | 18 | MISC MECH REHAB -2014 SC | CW | S3 | 03 | -4,877 | 1,500 | 5,000 | 0 | 0 | 1,623 | 0 | 1,623 | 0 | 0 | 0 | 0 | 1,623 | 0 | 0 | 0 | 0 | 0 | 1,623 |
| 0 | 19 | Process & Equip Upgrades -2014 SC | CW | S3 | 03 | 23 | 69 | 0 | 0 | 0 | 92 | 0 | 92 | 0 | 0 | 0 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 92 |
| 0 | 20 | MESI UPGRADES -2014 SC | CW | S3 | 03 | 0 | 2,500 | 0 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 0 | 0 | 2,500 | 0 | 0 | 0 | 0 | 0 | 2,500 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS907101 | ASHBRIDGES BAY WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 21 | MESI UPGRADES - FUTURE YEAR | CW | S6 | 03 | 0 | 0 | 2,500 | 2,500 | 2,500 | 7,500 | 12,500 | 20,000 | 0 | 0 | 0 | 0 | 20,000 | 0 | 0 | 0 | 0 | 20,000 |
| | | Sub-total | | | | 3,719 | 8,069 | 7,500 | 2,500 | 2,500 | 24,288 | 12,500 | 36,788 | 0 | 0 | 0 | 0 | 36,788 | 0 | 0 | 0 | 0 | 36,788 |
| WAS907102 | ASHBRIDGES BAY WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | BIOFILTERS UPGRADE | CW | S2 | 03 | 7,396 | 7,091 | 2,100 | 122 | 0 | 16,709 | 0 | 16,709 | 0 | 0 | 502 | 0 | 16,207 | 0 | 0 | 0 | 0 | 16,709 |
| 0 | 13 | D BUILDING TREATMENT & BIOFILTER | CW | S2 | 03 | 1,700 | 0 | 0 | 0 | 0 | 1,700 | 0 | 1,700 | 0 | 0 | 51 | 0 | 1,649 | 0 | 0 | 0 | 0 | 1,700 |
| 0 | 29 | D BUILDING TREATMENT & BIOFILTER -2014 SC | CW | S3 | 03 | -500 | 1,613 | 0 | 0 | 0 | 1,113 | 0 | 1,113 | 0 | 0 | 176 | 0 | 937 | 0 | 0 | 0 | 0 | 1,113 |
| 0 | 31 | BIOFILTERS UPGRADE -2014 SC | CW | S3 | 03 | -6,299 | -251 | 6,642 | 6,000 | 0 | 6,092 | 0 | 6,092 | 0 | 0 | 1,333 | 0 | 4,759 | 0 | 0 | 0 | 0 | 6,092 |
| | | Sub-total | | | | 2,297 | 8,453 | 8,742 | 6,122 | 0 | 25,614 | 0 | 25,614 | 0 | 0 | 2,062 | 0 | 23,552 | 0 | 0 | 0 | 0 | 25,614 |
| WAS907104 | HUMBER WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | SECONDARY TREATMENT UPGRADES | CW | S2 | 03 | 13,998 | 23,245 | 28,245 | 43,225 | 43,225 | 151,938 | 122,720 | 274,658 | 0 | 0 | 2,745 | 0 | 271,913 | 0 | 0 | 0 | 0 | 274,658 |
| 0 | 15 | SECONDARY TREATMENT UPGRADES -2014 SC | CW | S3 | 03 | -9,133 | -14,917 | -24,754 | -40,000 | -40,113 | -128,917 | -117,990 | -246,907 | 0 | 0 | -2,745 | 0 | -244,162 | 0 | 0 | 0 | 0 | -246,907 |
| 0 | 16 | SECONDARY TREATMENT UPGRADES - SOUTH - CONSTRUCTIO | CW | S6 | 03 | 0 | 0 | 5,000 | 30,000 | 40,000 | 75,000 | 165,000 | 240,000 | 0 | 0 | 0 | 0 | 240,000 | 0 | 0 | 0 | 0 | 240,000 |
| 0 | 17 | SECONDARY TREATMENT UPGRADES - NORTH PLANT | CW | S6 | 03 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 3,000 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 |
| | | Sub-total | | | | 4,865 | 8,328 | 8,491 | 33,225 | 43,112 | 98,021 | 172,730 | 270,751 | 0 | 0 | 0 | 0 | 270,751 | 0 | 0 | 0 | 0 | 270,751 |
| WAS907105 | HUMBER WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | Digester 7 & 8 Upgrades & Cogen Upgrades | CW | S2 | 03 | 9,850 | 4,000 | 1,000 | 0 | 0 | 14,850 | 0 | 14,850 | 0 | 0 | 0 | 0 | 14,850 | 0 | 0 | 0 | 0 | 14,850 |
| 0 | 2 | LIQUID STREAM UPGRADES | CW | S2 | 03 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 300 | 0 | 0 | 3 | 0 | 297 | 0 | 0 | 0 | 0 | 300 |
| 0 | 11 | DIGESTER CLEANING & UPGRADES | CW | S2 | 03 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | 600 |
| 0 | 24 | Digester 7 & 8 Upgrades & Cogen Upgrades -2014 SC | CW | S3 | 03 | -4,700 | 4,634 | 2,304 | 0 | 0 | 2,238 | 0 | 2,238 | 0 | 0 | 0 | 0 | 2,238 | 0 | 0 | 0 | 0 | 2,238 |
| 0 | 25 | LIQUID STREAM UPGRADES -2014 SC | CW | S3 | 03 | -250 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | -21 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | DIGESTER CLEANING & UPGRADES - 2014 SC | CW | S3 | 03 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | -600 |
| | | Sub-total | | | | 5,200 | 8,884 | 3,304 | 0 | 0 | 17,388 | 0 | 17,388 | 0 | 0 | 24 | 0 | 17,364 | 0 | 0 | 0 | 0 | 17,388 |
| WAS907106 | HUMBER WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | Odour Control Implementation Phase 1 | CW | S2 | 02 | 19,550 | 15,000 | 15,000 | 10,000 | 0 | 59,550 | 0 | 59,550 | 0 | 0 | 596 | 0 | 58,954 | 0 | 0 | 0 | 0 | 59,550 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS907106 | HUMBER WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 10 | Odour Control Implementation Phase 1 -2014 SC | CW | S3 | 02 | -14,550 | 0 | 5,000 | 10,000 | 5,000 | 5,450 | 0 | 5,450 | 0 | 0 | 4,635 | 0 | 815 | 0 | 0 | 0 | 0 | 0 | 5,450 |
| | Sub-total | | | | 5,000 | 15,000 | 20,000 | 20,000 | 5,000 | 65,000 | 0 | 65,000 | 0 | 0 | 5,231 | 0 | 59,769 | 0 | 0 | 0 | 0 | 0 | 65,000 |
| WAS907224 | SEWAGE PUMPING STATION UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | SPS UPGRADES | CW | S2 | 02 | 9,072 | 4,800 | 5,030 | 2,990 | 1,094 | 22,986 | 0 | 22,986 | 0 | 0 | 1,724 | 0 | 21,262 | 0 | 0 | 0 | 0 | 0 | 22,986 |
| 0 2 | SCOTT STREET PS UPGRADES | CW | S2 | 05 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| 0 4 | SUNNYSIDE AND MARYPORT SPS UPGRADES | CW | S2 | 03 | 1,511 | 0 | 0 | 0 | 0 | 1,511 | 0 | 1,511 | 0 | 0 | 114 | 0 | 1,397 | 0 | 0 | 0 | 0 | 0 | 1,511 |
| 0 18 | SPS UPGRADES -GROUP 6&7 | CW | S6 | 02 | 0 | 0 | 110 | 410 | 3,550 | 4,070 | 40,410 | 44,480 | 0 | 0 | 0 | 0 | 44,480 | 0 | 0 | 0 | 0 | 0 | 44,480 |
| 0 19 | SCOTT STREET PS UPGRADES -2014 SC | CW | S3 | 05 | 15 | 20 | 0 | 0 | 0 | 35 | 0 | 35 | 0 | 0 | 4 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 35 |
| 0 20 | SUNNYSIDE AND MARYPORT SPS UPGRADES -2014 SC | CW | S3 | 03 | 1,024 | 202 | 2 | 0 | 0 | 1,228 | 0 | 1,228 | 0 | 0 | 106 | 0 | 1,122 | 0 | 0 | 0 | 0 | 0 | 1,228 |
| 0 21 | SPS UPGRADES -2014 SC | CW | S3 | 02 | -2,372 | 420 | -2,980 | -2,590 | -1,094 | -8,616 | 0 | -8,616 | 0 | 0 | -568 | 0 | -8,048 | 0 | 0 | 0 | 0 | 0 | -8,616 |
| | Sub-total | | | | 9,255 | 5,442 | 2,162 | 810 | 3,550 | 21,219 | 40,410 | 61,629 | 0 | 0 | 1,380 | 0 | 60,249 | 0 | 0 | 0 | 0 | 0 | 61,629 |
| WAS907559 | DON & WATERFRONT TRUNK CSO | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN | CW | S2 | 04 | 3,440 | 3,000 | 3,000 | 3,000 | 1,800 | 14,240 | 5,400 | 19,640 | 0 | 0 | 1,964 | 0 | 17,676 | 0 | 0 | 0 | 0 | 0 | 19,640 |
| 0 3 | DON AND WATERFRONT TRUNK/CSO - PKG 1 - CONST | CW | S6 | 04 | 0 | 0 | 1,000 | 20,000 | 30,000 | 51,000 | 152,000 | 203,000 | 0 | 0 | 9,800 | 0 | 193,200 | 0 | 0 | 0 | 0 | 0 | 203,000 |
| 0 4 | DON & WATERFRONT CSO/TRUNK - PKG 2 - CONST | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 26,000 | 26,000 | 0 | 0 | 1,255 | 0 | 24,745 | 0 | 0 | 0 | 0 | 0 | 26,000 |
| 0 8 | Don & Waterfront Trunk/CSO CONS - BEYOND 2021 | CW | S6 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 40,000 | 40,000 | 0 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | 40,000 |
| 0 9 | DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN -2014 SC | CW | S3 | 04 | -1,608 | 3,589 | 8,347 | 7,347 | 8,547 | 26,222 | 11,400 | 37,622 | 0 | 0 | 2,644 | 0 | 34,978 | 0 | 0 | 0 | 0 | 0 | 37,622 |
| | Sub-total | | | | 1,832 | 6,589 | 12,347 | 30,347 | 40,347 | 91,462 | 234,800 | 326,262 | 0 | 0 | 15,663 | 0 | 310,599 | 0 | 0 | 0 | 0 | 0 | 326,262 |
| WAS907700 | NORTH TORONTO WTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | NTTP-ELECTRICAL UPGRADES | CW | S2 | 01 | 1,750 | 1,500 | 0 | 0 | 0 | 3,250 | 0 | 3,250 | 0 | 0 | 0 | 0 | 3,250 | 0 | 0 | 0 | 0 | 0 | 3,250 |
| 0 7 | NTTP-ELECTRICAL UPGRADES -2014 SC | CW | S3 | 01 | -983 | -585 | 777 | 522 | 253 | -16 | 0 | -16 | 0 | 0 | 0 | 0 | -16 | 0 | 0 | 0 | 0 | 0 | -16 |
| | Sub-total | | | | 767 | 915 | 777 | 522 | 253 | 3,234 | 0 | 3,234 | 0 | 0 | 0 | 0 | 3,234 | 0 | 0 | 0 | 0 | 0 | 3,234 |
| WASWP003 | EMERY CREEK POND | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | EMERY CREEK POND | CW | S2 | 04 | 2,258 | 2,550 | 550 | 0 | 0 | 5,358 | 0 | 5,358 | 0 | 0 | 536 | 0 | 4,822 | 0 | 0 | 0 | 0 | 0 | 5,358 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WASWP003 | | EMERY CREEK POND | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 12 | EMERY CREEK POND -2014 SC | CW | S3 | 04 | 152 | 0 | 0 | 0 | 0 | 152 | 0 | 152 | 0 | 0 | -93 | 0 | 245 | 0 | 0 | 0 | 0 | 0 | 152 |
| | | Sub-total | | | | 2,410 | 2,550 | 550 | 0 | 0 | 5,510 | 0 | 5,510 | 0 | 0 | 443 | 0 | 5,067 | 0 | 0 | 0 | 0 | 0 | 5,510 |
| WASWP050 | | EQUIPMENT REPLACEMENT & REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 26 | REHAB OF SOUTH PRIMARY CLARIFIERS | CW | S2 | 03 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 30 | ABTP - DIG. TANKS #1-8 MODS. | CW | S2 | 03 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 10 |
| 0 | 35 | MTI REAL TIME CONTROL | CW | S2 | 04 | 2,200 | 2,000 | 0 | 0 | 0 | 4,200 | 0 | 4,200 | 0 | 0 | 210 | 0 | 3,990 | 0 | 0 | 0 | 0 | 0 | 4,200 |
| 0 | 122 | North Primaries Pumping Equipment -2014 SC | CW | S3 | 03 | -904 | 1,020 | 1,500 | 705 | 0 | 2,321 | 0 | 2,321 | 0 | 0 | 0 | 0 | 2,321 | 0 | 0 | 0 | 0 | 0 | 2,321 |
| 0 | 123 | MTI REAL TIME CONTROL -2014 SC | CW | S3 | 04 | -2,000 | -2,000 | 0 | 2,000 | 2,000 | 0 | 0 | 0 | 0 | 0 | -210 | 0 | 210 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 124 | ABTP - DIG. TANKS #1-8 MODS. -2014 SC | CW | S3 | 03 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | 0 | -10 |
| 0 | 126 | REHAB OF SOUTH PRIMARY CLARIFIERS - 2014 SC | CW | S3 | 03 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | -8 |
| 1 | 78 | North Primaries Pumping Equipment | CW | S2 | 03 | 1,424 | 1,500 | 830 | 450 | 0 | 4,204 | 0 | 4,204 | 0 | 0 | 0 | 0 | 4,204 | 0 | 0 | 0 | 0 | 0 | 4,204 |
| | | Sub-total | | | | 730 | 2,520 | 2,330 | 3,155 | 2,000 | 10,735 | 0 | 10,735 | 0 | 0 | 0 | 0 | 10,735 | 0 | 0 | 0 | 0 | 0 | 10,735 |
| **Total Program Expenditure** | | | | | | 348,272 | 461,245 | 547,816 | 626,780 | 693,331 | 2,677,444 | 3,323,393 | 6,000,837 | 0 | 0 | 237,426 | 0 | 5,763,411 | 0 | 0 | 0 | 0 | 0 | 6,000,837 |

Report Phase 2 - Program 11 Wastewater Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 3: 2014 Recommended Capital Budget; 2015 to 2023 Capital Plan

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments and Estimates | | | | | | | | Current and Future Year Cash Flow Commitments and Estimates Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| Financed By: | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Charges | | | | | | 24,566 | 17,245 | 21,967 | 22,394 | 23,812 | 109,984 | 127,442 | 237,426 | 0 | 0 | 237,426 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 237,426 |
| Reserve Funds (Ind."XR" Ref.) | | | | | | 323,706 | 444,000 | 525,849 | 604,386 | 669,519 | 2,567,460 | 3,195,951 | 5,763,411 | 0 | 0 | 0 | 0 | 5,763,411 | 0 | 0 | 0 | 0 | 0 | 5,763,411 |
| **Total Program Financing** | | | | | | 348,272 | 461,245 | 547,816 | 626,780 | 693,331 | 2,677,444 | 3,323,393 | 6,000,837 | 0 | 0 | 237,426 | 0 | 5,763,411 | 0 | 0 | 0 | 0 | 0 | 6,000,837 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |
| S3 | S3 Prior Year - Change of Scope 2014 and\or Future Year Cost\Cashflow) |
| S4 | S4 New - Stand-Alone Project (Current Year Only) |
| S5 | S5 New (On-going or Phased Projects) |
| S6 | S6 New - Future Year (Commencing in 2015 & Beyond) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

# Appendix 4

## 2014 Recommended Cash Flow and Future Year Commitments

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT000004 | HORGAN W.T.P. EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | PLANT EXPANSION - DESIGN & CONSTR ADMIN | CW | S2 | 05 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 21 | 0 | 47 | 0 | 0 | 32 | 0 0 | 100 |
| 0 18 | SUPERNATANT AND FORCEMAIN INSTALLATION | CW | S2 | 05 | 4,098 | 0 | 0 | 0 | 0 | 4,098 | 0 | 4,098 | 0 | 0 | 864 | 0 | 3,234 | 0 | 0 | 0 | 0 0 | 4,098 |
| 0 29 | SUPERNATANT AND FORCEMAIN INSTALLATION -2014 SC | CW | S3 | 05 | -1,598 | 4,500 | 0 | 0 | 0 | 2,902 | 0 | 2,902 | 0 | 0 | 1,373 | 0 | 1,529 | 0 | 0 | 0 | 0 0 | 2,902 |
| 0 30 | PLANT EXPANSION - DESIGN & CONSTR ADMIN -2014 SC | CW | S3 | 05 | 100 | 940 | 0 | 0 | 0 | 1,040 | 0 | 1,040 | 0 | 0 | 343 | 0 | 364 | 0 | 0 | 333 | 0 0 | 1,040 |
| 0 31 | PLANT EXPANSION - CONSTRUCTION -2014 SC | CW | S3 | 05 | -4,000 | -310 | 0 | 0 | 0 | -4,310 | 0 | -4,310 | 0 | 0 | -712 | 0 | -2,219 | 0 | 0 | -1,379 | 0 0 | -4,310 |
| 1 5 | PLANT EXPANSION - CONSTRUCTION | CW | S2 | 05 | 5,115 | 1,000 | 0 | 0 | 0 | 6,115 | 0 | 6,115 | 0 | 0 | 1,289 | 0 | 2,869 | 0 | 0 | 1,957 | 0 0 | 6,115 |
| | Sub-total | | | | 3,815 | 6,130 | 0 | 0 | 0 | 9,945 | 0 | 9,945 | 0 | 0 | 3,178 | 0 | 5,824 | 0 | 0 | 943 | 0 0 | 9,945 |
| WAT000014 | WATER STORAGE EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | DUFFERIN RES. EXT. - DESIGN AND CONT. ADMIN | CW | S2 | 05 | 19 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 5 | 0 | 14 | 0 | 0 | 0 | 0 0 | 19 |
| 0 2 | Milliken PS and Reservoir - Engineering | CW | S2 | 05 | 25 | 25 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 10 | 0 | 22 | 0 | 0 | 18 | 0 0 | 50 |
| 0 5 | Dufferin Reservoir Expansion - CONST | CW | S2 | 05 | 100 | 1,100 | 0 | 0 | 0 | 1,200 | 0 | 1,200 | 0 | 0 | 372 | 0 | 828 | 0 | 0 | 0 | 0 0 | 1,200 |
| 0 18 | MILLIKEN P.S. CONSTRUCTION | CW | S2 | 05 | 100 | 1,200 | 0 | 0 | 0 | 1,300 | 0 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,300 | 0 0 | 1,300 |
| 0 28 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION | CW | S2 | 05 | 100 | 2,400 | 0 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 519 | 0 | 1,041 | 0 | 0 | 940 | 0 0 | 2,500 |
| 0 42 | DUFFERIN RES. EXT. DESIGN & CONT ADMIN -2014 SC | CW | S3 | 05 | -14 | 5 | 0 | 0 | 0 | -9 | 0 | -9 | 0 | 0 | 1 | 0 | -10 | 0 | 0 | 0 | 0 0 | -9 |
| 0 44 | Dufferin Reservoir Expansion - CONST -2014 SC | CW | S3 | 05 | -100 | -1,100 | 0 | 0 | 0 | -1,200 | 0 | -1,200 | 0 | 0 | -372 | 0 | -828 | 0 | 0 | 0 | 0 0 | -1,200 |
| 0 45 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION -2014 SC | CW | S3 | 05 | -100 | -2,400 | 0 | 0 | 0 | -2,500 | 0 | -2,500 | 0 | 0 | -519 | 0 | -1,041 | 0 | 0 | -940 | 0 0 | -2,500 |
| 0 46 | MILLIKEN P.S. CONSTRUCTION -2014 SC | CW | S3 | 05 | -100 | -1,200 | 0 | 0 | 0 | -1,300 | 0 | -1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1,300 | 0 0 | -1,300 |
| 0 47 | Milliken PS and Reservoir - Engineering - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | -10 | 0 | 0 | 0 | 0 0 | 0 |
| | Sub-total | | | | 30 | 30 | 0 | 0 | 0 | 60 | 0 | 60 | 0 | 0 | 26 | 0 | 16 | 0 | 0 | 18 | 0 0 | 60 |
| WAT000018 | CLARK RESIDUE MGMT. FACILITIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 24 | RESIDUALS RETROFITS & UPGRADES | CW | S2 | 02 | 400 | 100 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 25 | 0 | 475 | 0 | 0 | 0 | 0 0 | 500 |
| 0 26 | RESIDUALS RETROFITS & UPGRADES -2014 SC | CW | S3 | 02 | -200 | 350 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | -25 | 0 | 175 | 0 | 0 | 0 | 0 0 | 150 |
| | Sub-total | | | | 200 | 450 | 0 | 0 | 0 | 650 | 0 | 650 | 0 | 0 | 0 | 0 | 650 | 0 | 0 | 0 | 0 0 | 650 |
| WAT000021 | WATER EFFICIENCY PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 10 | ICI INDOOR WATER AUDIT | CW | S2 | 05 | 368 | 300 | 300 | 300 | 0 | 1,268 | 0 | 1,268 | 0 | 0 | 1,268 | 0 | 0 | 0 | 0 | 0 | 0 0 | 1,268 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT000021 | WATER EFFICIENCY PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 11 | PUBLIC EDUCATION & PROMOTIONS | CW | S2 | 05 | 198 | 150 | 150 | 150 | 0 | 648 | 0 | 648 | 0 | 0 | 389 | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 648 |
| 0 12 | ANCILLARY COSTS | CW | S2 | 05 | 70 | 70 | 70 | 70 | 0 | 280 | 0 | 280 | 0 | 0 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 |
| 0 87 | PUBLIC EDUCATION & PROMOTIONS -2014 SC | CW | S3 | 05 | -48 | 0 | 0 | 0 | 0 | -48 | 0 | -48 | 0 | 0 | 211 | 0 | -259 | 0 | 0 | 0 | 0 | 0 | -48 |
| 0 90 | ICI INDOOR WATER AUDIT - 2014 SC | CW | S3 | 05 | -68 | 0 | 0 | 0 | 0 | -68 | 0 | -68 | 0 | 0 | -68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -68 |
| | Sub-total | | | | 520 | 520 | 520 | 520 | 0 | 2,080 | 0 | 2,080 | 0 | 0 | 2,080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,080 |
| WAT000340 | ISLAND PLANT WINTERIZATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | PLANT WINTERIZATION & SUMMERIZATION | CW | S2 | 04 | 505 | 0 | 0 | 0 | 0 | 505 | 0 | 505 | 0 | 0 | 0 | 0 | 505 | 0 | 0 | 0 | 0 | 0 | 505 |
| 0 13 | PLANT WINTERIZATION & SUMMERIZATION- 2014 SC | CW | S3 | 04 | -335 | 388 | 0 | 0 | 0 | 53 | 0 | 53 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 53 |
| | Sub-total | | | | 170 | 388 | 0 | 0 | 0 | 558 | 0 | 558 | 0 | 0 | 0 | 0 | 558 | 0 | 0 | 0 | 0 | 0 | 558 |
| WAT000352 | WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | | | | | | | | | | | | | | | | | | | | | | |
| 0 7 | JOS WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | CW | S2 | 05 | 316 | 0 | 0 | 0 | 0 | 316 | 0 | 316 | 0 | 0 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 0 | 316 |
| 0 18 | JOS MARKHAM/SHEPPARD BAYVIEW/FINCH HYDRO -2014 SC | CW | S3 | 05 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 84 |
| | Sub-total | | | | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 0 | 400 |
| WAT000363 | ENGINEERING STUDIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | IMPROVED TREATMENT STUDIES | CW | S2 | 04 | 20 | 20 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 40 |
| 0 18 | Controlled Substances ID and Abatement | CW | S2 | 02 | 200 | 200 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 0 | 400 |
| 0 31 | ENERGY EFFICIENCY IMPLEMENTATION - 2014 SC | CW | S3 | 04 | 50 | 50 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0 38 | CORROSION CONTROL | CW | S2 | 02 | 7,360 | 110 | 0 | 0 | 0 | 7,470 | 0 | 7,470 | 0 | 0 | 0 | 0 | 7,470 | 0 | 0 | 0 | 0 | 0 | 7,470 |
| 0 55 | CORROSION CONTROL -2014 SC | CW | S3 | 02 | -1,272 | 1,291 | 0 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 455 | 0 | -436 | 0 | 0 | 0 | 0 | 0 | 19 |
| 0 56 | IMPROVED TREATMENT STUDIES -2014 SC | CW | S3 | 04 | 620 | 80 | 50 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 0 | 750 |
| | Sub-total | | | | 6,978 | 1,751 | 50 | 0 | 0 | 8,779 | 0 | 8,779 | 0 | 0 | 455 | 0 | 8,324 | 0 | 0 | 0 | 0 | 0 | 8,779 |
| WAT906334 | BUSINESS SYSTEM INFRASTRUCTURE - PW | | | | | | | | | | | | | | | | | | | | | | |
| 0 7 | NETWORK EQUIPMENT REPLACEMENT | CW | S2 | 03 | 205 | 1,163 | 0 | 0 | 0 | 1,368 | 0 | 1,368 | 0 | 0 | 0 | 0 | 1,368 | 0 | 0 | 0 | 0 | 0 | 1,368 |
| 0 8 | NETWORK CABLE LIFECYCLE REPLACEMENT | CW | S2 | 03 | 4,490 | 560 | 165 | 0 | 0 | 5,215 | 0 | 5,215 | 0 | 0 | 0 | 0 | 5,215 | 0 | 0 | 0 | 0 | 0 | 5,215 |
| 0 9 | TRUNK RADIO SYSTEM | CW | S2 | 04 | 0 | 0 | 200 | 100 | 0 | 300 | 0 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 0 | 300 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAT906334 | | BUSINESS SYSTEM INFRASTRUCTURE - PW | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 12 | PCS LEGACY ALARM IMPROVEMENT - 2014 SC | CW | S3 | 04 | 0 | 600 | 0 | 0 | 0 | 600 | 0 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | 0 | 600 |
| 0 | 23 | RELIABILITY IMPROVEMENT PROGRAM | CW | S2 | 04 | 475 | 600 | 500 | 150 | 150 | 1,875 | 350 | 2,225 | 0 | 0 | 0 | 0 | 2,225 | 0 | 0 | 0 | 0 | 0 | 2,225 |
| 0 | 39 | PCS LEGACY ALARM IMPROVEMENT | CW | S2 | 04 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 0 | 750 |
| 0 | 41 | BUSINESS & TECH IMPROVEMENT - PHASE 2 | CW | S2 | 04 | 1,524 | 500 | 0 | 0 | 0 | 2,024 | 0 | 2,024 | 0 | 0 | 0 | 0 | 2,024 | 0 | 0 | 0 | 0 | 0 | 2,024 |
| 0 | 42 | WTP WS PLC PLATFORM UPGRADE AND PCS IMPROVEMENTS | CW | S2 | 04 | 1,610 | 3,000 | 440 | 0 | 0 | 5,050 | 0 | 5,050 | 0 | 0 | 0 | 0 | 5,050 | 0 | 0 | 0 | 0 | 0 | 5,050 |
| 0 | 54 | NETWORK EQUIPMENT REPLACEMENT -2014 SC | CW | S3 | 03 | 360 | 360 | 0 | 0 | 0 | 720 | 0 | 720 | 0 | 0 | 0 | 0 | 720 | 0 | 0 | 0 | 0 | 0 | 720 |
| 0 | 55 | NETWORK CABLE LIFECYCLE REPLACEMENT -2014 SC | CW | S3 | 03 | -2,530 | 4,980 | 1,951 | 11 | 0 | 4,412 | 0 | 4,412 | 0 | 0 | 0 | 0 | 4,412 | 0 | 0 | 0 | 0 | 0 | 4,412 |
| 0 | 56 | RELIABILITY IMPROVEMENT PROGRAM - 2014 SC | CW | S3 | 04 | -275 | -400 | -500 | -150 | -150 | -1,475 | -350 | -1,825 | 0 | 0 | 0 | 0 | -1,825 | 0 | 0 | 0 | 0 | 0 | -1,825 |
| 0 | 57 | BUSINESS & TECH IMPROVEMENT - PHASE 2 -2014 SC | CW | S3 | 04 | 1,172 | 1,068 | 970 | 1,047 | 792 | 5,049 | 0 | 5,049 | 0 | 0 | 0 | 0 | 5,049 | 0 | 0 | 0 | 0 | 0 | 5,049 |
| 0 | 58 | WTP WS PLC PLATFORM UPGRADE & PCS IMPROV -2014 SC | CW | S3 | 04 | 1,049 | -1,500 | -200 | 760 | 0 | 109 | 0 | 109 | 0 | 0 | 0 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 109 |
| | | Sub-total | | | | 8,830 | 10,931 | 3,526 | 1,918 | 792 | 25,997 | 0 | 25,997 | 0 | 0 | 0 | 0 | 25,997 | 0 | 0 | 0 | 0 | 0 | 25,997 |
| WAT906340 | | METERING & METER READING SYS | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | AUTOMATED METER READING SYSTEM | CW | S2 | 04 | 49,957 | 44,531 | 38,150 | 0 | 0 | 132,638 | 0 | 132,638 | 0 | 0 | 0 | 0 | 132,638 | 0 | 0 | 0 | 0 | 0 | 132,638 |
| 0 | 13 | AUTOMATED METER READING SYSTEM - 2014 SC | CW | S3 | 04 | -2,507 | 1,125 | 6,525 | 5,000 | 0 | 10,143 | 0 | 10,143 | 0 | 0 | 0 | 0 | 10,143 | 0 | 0 | 0 | 0 | 0 | 10,143 |
| | | Sub-total | | | | 47,450 | 45,656 | 44,675 | 5,000 | 0 | 142,781 | 0 | 142,781 | 0 | 0 | 0 | 0 | 142,781 | 0 | 0 | 0 | 0 | 0 | 142,781 |
| WAT906467 | | AVENUE ROAD TRUNKMAIN REPLACEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | AVENUE RD WM ENGINEERING - HI LEVEL TO LAWRENCE | CW | S2 | 03 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 93 | 0 | 0 | 19 | 0 | 0 | 112 |
| 0 | 2 | AVENUE RD WM CONSTRUCTION - HI LEVELTO LAWRENCE | CW | S2 | 03 | 1,500 | 1,500 | 700 | 0 | 0 | 3,700 | 0 | 3,700 | 0 | 0 | 47 | 0 | 2,962 | 0 | 0 | 691 | 0 | 0 | 3,700 |
| 0 | 23 | AVENUE RD WM ENG - HI LEVEL TO LAWRENCE -2014 SC | CW | S3 | 03 | 23 | 0 | 0 | 0 | 0 | 23 | 0 | 23 | 0 | 0 | 68 | 0 | -51 | 0 | 0 | 6 | 0 | 0 | 23 |
| 0 | 24 | AVENUE RD WM CONS - HI LEVELTO LAWRENCE -2014 SC | CW | S3 | 03 | -1,300 | 0 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,818 | 0 | -1,818 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 335 | 1,500 | 2,000 | 0 | 0 | 3,835 | 0 | 3,835 | 0 | 0 | 1,933 | 0 | 1,186 | 0 | 0 | 716 | 0 | 0 | 3,835 |
| WAT906468 | | HORGAN TRUNK MAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | JOS - HORGAN TO ELLESMERE WM - ENGINEERING | CW | S2 | 05 | 200 | 200 | 200 | 200 | 200 | 1,000 | 0 | 1,000 | 0 | 0 | 190 | 0 | 485 | 0 | 0 | 325 | 0 | 0 | 1,000 |
| 0 | 3 | HORGAN TO ELLESMERE - CONSTRUCTION | CW | S2 | 05 | 0 | 3,000 | 5,000 | 10,000 | 10,000 | 28,000 | 20,000 | 48,000 | 0 | 0 | 9,077 | 0 | 23,342 | 0 | 0 | 15,581 | 0 | 0 | 48,000 |
| 0 | 39 | JOS - HORGAN TO ELLESMERE WM - ENG -2014 SC | CW | S3 | 05 | -98 | 100 | 650 | 650 | 300 | 1,602 | 20 | 1,622 | 0 | 0 | 807 | 0 | 290 | 0 | 0 | 525 | 0 | 0 | 1,622 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906468 | HORGAN TRUNK MAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 40 | HORGAN TO ELLESMERE - CONSTRUCTION -2014 SC | CW | S3 | 05 | 0 | -2,500 | 1,000 | 8,000 | 8,000 | 14,500 | 500 | 15,000 | 0 | 0 | 14,833 | 0 | -4,703 | 0 | 0 | 4,870 | 0 | 0 | 15,000 |
| | Sub-total | | | | 102 | 800 | 6,850 | 18,850 | 18,500 | 45,102 | 20,520 | 65,622 | 0 | 0 | 24,907 | 0 | 19,414 | 0 | 0 | 21,301 | 0 | 0 | 65,622 |
| WAT906470 | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 8 | CHEMICAL & RESIDUALS MNGT - ENG | CW | S2 | 02 | 1,150 | 200 | 200 | 200 | 200 | 1,950 | 450 | 2,400 | 0 | 0 | 121 | 0 | 2,279 | 0 | 0 | 0 | 0 | 0 | 2,400 |
| 0 26 | CHEMICAL & RESIDUALS MNGT - ENG -2014 SC | CW | S3 | 02 | -1,000 | 500 | 350 | 50 | 50 | -50 | 50 | 0 | 0 | 0 | -121 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sub-total | | | | 150 | 700 | 550 | 250 | 250 | 1,900 | 500 | 2,400 | 0 | 0 | 0 | 0 | 2,400 | 0 | 0 | 0 | 0 | 0 | 2,400 |
| WAT906481 | DISTRICT WATERMAINS - NEW | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | DIST W/MAINS NEW | CW | S2 | 05 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 296 | 0 | 204 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 12 | DIST W/MAINS NEW -2014 SC | CW | S3 | 05 | -306 | 350 | 500 | 0 | 0 | 544 | 0 | 544 | 0 | 0 | -296 | 0 | 840 | 0 | 0 | 0 | 0 | 0 | 544 |
| | Sub-total | | | | 194 | 350 | 500 | 0 | 0 | 1,044 | 0 | 1,044 | 0 | 0 | 0 | 0 | 1,044 | 0 | 0 | 0 | 0 | 0 | 1,044 |
| WAT906483 | PW ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | CAPITAL PRGMG & FACILITY ASSET PLANNING | CW | S2 | 03 | 1,110 | 750 | 0 | 0 | 0 | 1,860 | 0 | 1,860 | 0 | 0 | 0 | 0 | 1,860 | 0 | 0 | 0 | 0 | 0 | 1,860 |
| 0 5 | WATERMAIN ASSET PLANNING | CW | S2 | 03 | 561 | 400 | 0 | 0 | 0 | 961 | 0 | 961 | 0 | 0 | 0 | 0 | 961 | 0 | 0 | 0 | 0 | 0 | 961 |
| 0 7 | EASEMENT ACQUISITION | CW | S2 | 04 | 472 | 300 | 0 | 0 | 0 | 772 | 0 | 772 | 0 | 0 | 0 | 0 | 772 | 0 | 0 | 0 | 0 | 0 | 772 |
| 0 22 | WATER LOSS REDUCTION STRATEGY | CW | S2 | 03 | 364 | 225 | 1,500 | 2,000 | 2,500 | 6,589 | 350 | 6,939 | 0 | 0 | 0 | 0 | 6,939 | 0 | 0 | 0 | 0 | 0 | 6,939 |
| 0 44 | WATERMAIN ASSET PLANNING -2014 SC | CW | S3 | 03 | 429 | 260 | 460 | 360 | 160 | 1,669 | 0 | 1,669 | 0 | 0 | 658 | 0 | 1,011 | 0 | 0 | 0 | 0 | 0 | 1,669 |
| 0 45 | JOS UPDATE - 2014 SC | CW | S3 | 05 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 0 46 | EASEMENT ACQUISITION - 2014 SC | CW | S3 | 04 | -172 | 0 | 0 | 0 | 0 | -172 | 0 | -172 | 0 | 0 | 0 | 0 | -172 | 0 | 0 | 0 | 0 | 0 | -172 |
| 0 47 | WATER LOSS REDUCTION STRATEGY - 2014 SC | CW | S3 | 03 | -14 | 78 | -800 | -1,000 | -1,500 | -3,236 | 650 | -2,586 | 0 | 0 | 0 | 0 | -2,586 | 0 | 0 | 0 | 0 | 0 | -2,586 |
| 0 48 | CAPITAL PRGMG & FACILITY ASSET PLANNING - 2014 SC | CW | S3 | 03 | -692 | 0 | 0 | 0 | 0 | -692 | 0 | -692 | 0 | 0 | 0 | 0 | -692 | 0 | 0 | 0 | 0 | 0 | -692 |
| | Sub-total | | | | 2,068 | 2,013 | 1,160 | 1,360 | 1,160 | 7,761 | 1,000 | 8,761 | 0 | 0 | 668 | 0 | 8,093 | 0 | 0 | 0 | 0 | 0 | 8,761 |
| WAT906749 | DOWNTOWN W/M ENHANCEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | JOS - GERRARD ST WM - ENGINEERING | CW | S2 | 03 | 731 | 378 | 15 | 7 | 0 | 1,131 | 0 | 1,131 | 0 | 0 | 112 | 0 | 155 | 0 | 0 | 864 | 0 | 0 | 1,131 |
| 0 4 | JOS - GERRARD ST WM - CONSTRUCTION | CW | S2 | 03 | 24,554 | 14,920 | 0 | 0 | 0 | 39,474 | 0 | 39,474 | 0 | 0 | 3,916 | 0 | 5,373 | 0 | 0 | 30,185 | 0 | 0 | 39,474 |
| 0 35 | JOS - GERRARD ST WM - ENGINEERING -2014 SC | CW | S3 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 132 | 0 | -108 | 0 | 0 | 76 | 0 | 0 | 100 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAT906749 | | DOWNTOWN W/M ENHANCEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 36 | JOS BATHURST-DUPONT W/M - ENG -2014 SC | CW | S3 | 05 | -33 | 0 | 0 | 0 | 0 | -33 | 0 | -33 | 0 | 0 | -6 | 0 | -27 | 0 | 0 | 0 | 0 | 0 | -33 |
| 0 | 37 | JOS - GERRARD ST WM - CONSTRUCTION -2014 SC | CW | S3 | 03 | -6,000 | -1,000 | 7,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,943 | 0 | -3,944 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 3 | JOS BATHURST-DUPONT W/M - ENG | CW | S2 | 05 | 33 | 0 | 0 | 0 | 0 | 33 | 0 | 33 | 0 | 0 | 6 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 33 |
| | | Sub-total | | | | 19,385 | 14,298 | 7,015 | 7 | 0 | 40,705 | 0 | 40,705 | 0 | 0 | 8,103 | 0 | 1,476 | 0 | 0 | 31,126 | 0 | 0 | 40,705 |
| WAT906752 | | TRANSMISSION R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 49 | TRUNK WATERMAIN REHAB | CW | S2 | 03 | 250 | 250 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 | 51 | CAST IRON TRUNK REPLC - PHASE 2 | CW | S2 | 03 | 1,000 | 5,000 | 2,200 | 320 | 0 | 8,520 | 0 | 8,520 | 0 | 0 | 0 | 0 | 8,520 | 0 | 0 | 0 | 0 | 0 | 8,520 |
| 0 | 52 | CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING | CW | S4 | 03 | 300 | 400 | 600 | 800 | 700 | 2,800 | 1,440 | 4,240 | 0 | 0 | 0 | 0 | 4,240 | 0 | 0 | 0 | 0 | 0 | 4,240 |
| 0 | 59 | CAST IRON TRUNK REPLC - PHASE 2 - 2014 SC | CW | S3 | 03 | -1 | -196 | 310 | -56 | 0 | 57 | 0 | 57 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 57 |
| 1 | 2 | TRANSF & SW'GEAR REPLACMENT DESIGN | CW | S4 | 03 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 50 |
| | | Sub-total | | | | 1,599 | 5,454 | 3,110 | 1,064 | 700 | 11,927 | 1,440 | 13,367 | 0 | 0 | 0 | 0 | 13,367 | 0 | 0 | 0 | 0 | 0 | 13,367 |
| WAT906900 | | TRANSMISSION R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | TRANS FACILITIES REHAB | CW | S2 | 03 | 548 | 0 | 0 | 0 | 0 | 548 | 0 | 548 | 0 | 0 | 0 | 0 | 548 | 0 | 0 | 0 | 0 | 0 | 548 |
| 0 | 6 | ELLESMERE P.S. UPGRADE | CW | S2 | 05 | 0 | 25 | 525 | 0 | 0 | 550 | 0 | 550 | 0 | 0 | 63 | 0 | 139 | 0 | 0 | 348 | 0 | 0 | 550 |
| 0 | 26 | SCARBOROUGH PS - PUMP REPLC | CW | S2 | 03 | 884 | 20 | 0 | 0 | 0 | 904 | 0 | 904 | 0 | 0 | 0 | 0 | 904 | 0 | 0 | 0 | 0 | 0 | 904 |
| 0 | 27 | EGLINTON PS -PUMP REPLC | CW | S2 | 03 | 2,982 | 100 | 0 | 0 | 0 | 3,082 | 0 | 3,082 | 0 | 0 | 0 | 0 | 3,082 | 0 | 0 | 0 | 0 | 0 | 3,082 |
| 0 | 32 | ELLESMERE P.S. UPGRADE -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | -64 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 33 | SCARBOROUGH PS - PUMP REPLC -2014 SC | CW | S3 | 03 | -284 | 230 | 0 | 0 | 0 | -54 | 0 | -54 | 0 | 0 | 0 | 0 | -54 | 0 | 0 | 0 | 0 | 0 | -54 |
| 0 | 34 | EGLINTON PS -PUMP REPLC -2014 SC | CW | S3 | 03 | -1,182 | 650 | 0 | 0 | 0 | -532 | 0 | -532 | 0 | 0 | 0 | 0 | -532 | 0 | 0 | 0 | 0 | 0 | -532 |
| 0 | 35 | TRANS FACILITIES REHAB - 2014 SC | CW | S3 | 03 | 17 | 150 | 0 | 0 | 0 | 167 | 0 | 167 | 0 | 0 | 0 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 167 |
| 0 | 36 | RESERVOIR REHAB/WATER QUALITY PROTECTION | CW | S4 | 03 | 300 | 5,250 | 500 | 0 | 0 | 6,050 | 0 | 6,050 | 0 | 0 | 0 | 0 | 6,050 | 0 | 0 | 0 | 0 | 0 | 6,050 |
| | | Sub-total | | | | 3,265 | 6,425 | 1,025 | 0 | 0 | 10,715 | 0 | 10,715 | 0 | 0 | 127 | 0 | 10,240 | 0 | 0 | 348 | 0 | 0 | 10,715 |
| WAT906902 | | HARRIS W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | BUILDING ENVELOPE REHAB | CW | S2 | 03 | 20 | 10 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 3 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 0 | 500 | 500 | 500 | 500 | 2,000 | 0 | 2,000 | 0 | 0 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 2,000 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906902 | HARRIS W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 6 | LIQUID CHEMICAL SYSTEM RELOCATION | | CW | S2 | 04 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 16 |
| 0 13 | FILTER MEDIA REPLACEMENT PH2 | | CW | S2 | 03 | 350 | 350 | 0 | 0 | 150 | 850 | 300 | 1,150 | 0 | 0 | 0 | 0 | 1,150 | 0 | 0 | 0 | 0 | 1,150 |
| 0 21 | HVAC REHAB - CONSTRUCTION | | CW | S2 | 03 | 1,059 | 1,000 | 1,000 | 0 | 0 | 3,059 | 0 | 3,059 | 0 | 0 | 0 | 0 | 3,059 | 0 | 0 | 0 | 0 | 3,059 |
| 0 22 | TRAVELLING SCREEN REPLACEMENT | | CW | S2 | 03 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 0 | 0 | 0 | 780 |
| 0 56 | REHAB OF SETTLING BASIN ROOF & SLUICE GATES | | CW | S2 | 03 | 2,396 | 2,200 | 2,020 | 0 | 0 | 6,616 | 0 | 6,616 | 0 | 0 | 0 | 0 | 6,616 | 0 | 0 | 0 | 0 | 6,616 |
| 0 65 | FILTER MEDIA REPLACEMENT PH2 -2014 SC | | CW | S3 | 03 | -150 | -150 | 150 | 0 | -150 | -300 | -300 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | -600 |
| 0 66 | FACILITY & PROCESS UPGRADES -2014 SC | | CW | S3 | 03 | 500 | 0 | -500 | -500 | -500 | -1,000 | 0 | -1,000 | 0 | 0 | 0 | 0 | -1,000 | 0 | 0 | 0 | 0 | -1,000 |
| 0 67 | TRAVELLING SCREEN REPLACEMENT -2014 SC | | CW | S3 | 03 | 320 | 0 | 0 | 0 | 0 | 320 | 0 | 320 | 0 | 0 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 320 |
| 0 68 | HVAC REHAB - CONSTRUCTION -2014 SC | | CW | S3 | 03 | -264 | 0 | 0 | 250 | 0 | -14 | 0 | -14 | 0 | 0 | 0 | 0 | -14 | 0 | 0 | 0 | 0 | -14 |
| 0 69 | REHAB OF SETTLING BASIN ROOF&SLUICE GATES -2014 SC | | CW | S3 | 03 | 1,024 | 6,000 | 2,500 | 0 | 0 | 9,524 | 0 | 9,524 | 0 | 0 | 0 | 0 | 9,524 | 0 | 0 | 0 | 0 | 9,524 |
| 0 72 | BUILDING ENVELOPE REHAB - 2014 SC | | CW | S3 | 03 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | -10 |
| 0 73 | LIQUID CHEMICAL SYSTEM RELOCATION - 2014 SC | | CW | S3 | 04 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 0 | -8 |
| | Sub-total | | | | | 6,033 | 9,910 | 5,670 | 250 | 0 | 21,863 | 0 | 21,863 | 0 | 0 | 0 | 0 | 21,863 | 0 | 0 | 0 | 0 | 21,863 |
| WAT906903 | FJ HORGAN W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 5 | FACILITY & PROCESS UPGRADES | | CW | S2 | 03 | 614 | 500 | 500 | 500 | 500 | 2,614 | 2,000 | 4,614 | 0 | 0 | 0 | 0 | 4,614 | 0 | 0 | 0 | 0 | 4,614 |
| 0 8 | RAW WATER PUMP UPGRADES | | CW | S2 | 03 | 512 | 700 | 0 | 0 | 0 | 1,212 | 0 | 1,212 | 0 | 0 | 0 | 0 | 1,212 | 0 | 0 | 0 | 0 | 1,212 |
| 0 15 | REPLACEMENT OF MCCS | | CW | S2 | 03 | 1,450 | 2,265 | 2,360 | 725 | 0 | 6,800 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 | 0 | 0 | 0 | 0 | 6,800 |
| 0 16 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT | | CW | S2 | 03 | 534 | 2,500 | 1,950 | 0 | 0 | 4,984 | 0 | 4,984 | 0 | 0 | 0 | 0 | 4,984 | 0 | 0 | 0 | 0 | 4,984 |
| 0 26 | FACILITY & PROCESS UPGRADES -2014 SC | | CW | S3 | 03 | 244 | 444 | -150 | -500 | -500 | -462 | -2,000 | -2,462 | 0 | 0 | 0 | 0 | -2,462 | 0 | 0 | 0 | 0 | -2,462 |
| 0 27 | REPLACEMENT OF MCCS -2014 SC | | CW | S3 | 03 | -1,150 | -795 | 990 | 875 | 200 | 120 | 0 | 120 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 120 |
| 0 29 | RAW WATER PUMP UPGRADES - 2014 SC | | CW | S3 | 03 | 188 | -160 | 0 | 0 | 0 | 28 | 0 | 28 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 28 |
| 0 30 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT - 2014 SC | | CW | S3 | 03 | -484 | -2,000 | 550 | 1,950 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 16 |
| | Sub-total | | | | | 1,908 | 3,454 | 6,200 | 3,550 | 200 | 15,312 | 0 | 15,312 | 0 | 0 | 0 | 0 | 15,312 | 0 | 0 | 0 | 0 | 15,312 |
| WAT906906 | TRUNK WATERMAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAT906906 | TRUNK WATERMAIN EXPANSION | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | JOS - D4 W/M ENGINEERING | CW | S3 | 05 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 |
| 0 13 | CAST IRON T-M REPLACEMENT - PH1 | CW | S2 | 03 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 40 |
| 0 25 | JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG | CW | S2 | 05 | 702 | 400 | 400 | 0 | 0 | 1,502 | 0 | 1,502 | 0 | 0 | 357 | 0 | 803 | 0 | 0 | 342 | 0 | 1,502 |
| 0 63 | JOS WM SCAR PS TO ST CLAIR&MIDLAND -ENG -2014 SC | CW | S3 | 05 | -102 | 200 | 150 | 400 | 0 | 648 | 0 | 648 | 0 | 0 | 672 | 0 | -170 | 0 | 0 | 146 | 0 | 648 |
| 0 64 | CAST IRON T-M REPLACEMENT - PH1 - 2014 SC | CW | S3 | 03 | -40 | 0 | 0 | 0 | 0 | -40 | 0 | -40 | 0 | 0 | 0 | 0 | -40 | 0 | 0 | 0 | 0 | -40 |
| | Sub-total | | | | 610 | 600 | 550 | 400 | 0 | 2,160 | 0 | 2,160 | 0 | 0 | 1,029 | 0 | 643 | 0 | 0 | 488 | 0 | 2,160 |
| WAT906914 | SWITCH GEAR TRANSFORMER | | | | | | | | | | | | | | | | | | | | | | |
| 0 3 | ARC FLASH ANALYSIS | CW | S2 | 01 | 288 | 0 | 0 | 0 | 0 | 288 | 0 | 288 | 0 | 0 | 0 | 0 | 288 | 0 | 0 | 0 | 0 | 288 |
| 0 13 | INDOOR/OUTDOOR SWITCHGEAR (5 Stations Phase 3) | CW | S2 | 03 | 5,140 | 6,900 | 2,435 | 0 | 0 | 14,475 | 0 | 14,475 | 0 | 0 | 0 | 0 | 14,475 | 0 | 0 | 0 | 0 | 14,475 |
| 0 25 | ARC FLASH ANALYSIS -2014 SC | CW | S3 | 01 | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 62 |
| 0 26 | INDOOR/OUTDOOR SWITCHGEAR(5 Stations Ph3) -2014 SC | CW | S3 | 03 | -4,465 | -500 | 3,800 | 0 | 0 | -1,165 | 0 | -1,165 | 0 | 0 | 0 | 0 | -1,165 | 0 | 0 | 0 | 0 | -1,165 |
| | Sub-total | | | | 1,025 | 6,400 | 6,235 | 0 | 0 | 13,660 | 0 | 13,660 | 0 | 0 | 0 | 0 | 13,660 | 0 | 0 | 0 | 0 | 13,660 |
| WAT906917 | TRANSMISSION OPERATIONS OPTIMIZER | | | | | | | | | | | | | | | | | | | | | | |
| 0 8 | TRANSMISSION OPERATIONS OPTIMIZER | CW | S2 | 04 | 448 | 0 | 0 | 0 | 0 | 448 | 0 | 448 | 0 | 0 | 0 | 0 | 448 | 0 | 0 | 0 | 0 | 448 |
| 0 9 | TRANSMISSION OPERATIONS OPTIMIZER - 2014 SC | CW | S3 | 04 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 112 |
| | Sub-total | | | | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 560 |
| WAT906918 | WATER SUSTAINABILITY PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | WATER SUSTAINABILITY PROGRAM | CW | S2 | 04 | 4,200 | 5,300 | 5,000 | 0 | 0 | 14,500 | 0 | 14,500 | 0 | 0 | 0 | 0 | 14,500 | 0 | 0 | 0 | 0 | 14,500 |
| 0 8 | WATER SUSTAINABILITY PROGRAM -2014 SC | CW | S3 | 04 | -4,000 | -2,550 | -650 | 4,000 | 0 | -3,200 | 0 | -3,200 | 0 | 0 | 686 | 0 | -3,886 | 0 | 0 | 0 | 0 | -3,200 |
| | Sub-total | | | | 200 | 2,750 | 4,350 | 4,000 | 0 | 11,300 | 0 | 11,300 | 0 | 0 | 686 | 0 | 10,614 | 0 | 0 | 0 | 0 | 11,300 |
| WAT906919 | RL CLARK W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 603 | 300 | 300 | 300 | 100 | 1,603 | 0 | 1,603 | 0 | 0 | 0 | 0 | 1,603 | 0 | 0 | 0 | 0 | 1,603 |
| 0 8 | PROCESS EQUIPMENT UPGRADE ENGINEERING | CW | S2 | 03 | 1,535 | 625 | 665 | 584 | 25 | 3,434 | 25 | 3,459 | 0 | 0 | 0 | 0 | 3,459 | 0 | 0 | 0 | 0 | 3,459 |
| 0 15 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION | CW | S2 | 03 | 8,790 | 10,000 | 12,000 | 12,000 | 12,724 | 55,514 | 68,574 | 124,088 | 0 | 0 | 0 | 0 | 124,088 | 0 | 0 | 0 | 0 | 124,088 |
| 0 44 | EVALUATION & COMMUNICATION SYSTEMS | CW | S2 | 03 | 1,140 | 125 | 0 | 0 | 0 | 1,265 | 0 | 1,265 | 0 | 0 | 0 | 0 | 1,265 | 0 | 0 | 0 | 0 | 1,265 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906919 | RL CLARK W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 49 | PROCESS EQUIPMENT UPGRADE ENGINEERING -2014 SC | CW | S3 | 03 | -280 | 0 | 0 | 0 | 0 | -280 | 0 | -280 | 0 | 0 | 194 | 0 | -474 | 0 | 0 | 0 | 0 | 0 | -280 |
| 0 | 50 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION -2014 SC | CW | S3 | 03 | -674 | 0 | 0 | 0 | -2,724 | -3,398 | -68,574 | -71,972 | 0 | 0 | 3,169 | 0 | -75,141 | 0 | 0 | 0 | 0 | 0 | -71,972 |
| 0 | 51 | EVALUATION & COMMUNICATION SYSTEMS -2014 SC | CW | S3 | 03 | -391 | 1,080 | 117 | 20 | 7 | 833 | 0 | 833 | 0 | 0 | 0 | 0 | 833 | 0 | 0 | 0 | 0 | 0 | 833 |
| 0 | 52 | FACILITY & PROCESS UPGRADES - 2014 SC | CW | S3 | 03 | -303 | -130 | -300 | -300 | -100 | -1,133 | 0 | -1,133 | 0 | 0 | 0 | 0 | -1,133 | 0 | 0 | 0 | 0 | 0 | -1,133 |
| | | Sub-total | | | | 10,420 | 12,000 | 12,782 | 12,604 | 10,032 | 57,838 | 25 | 57,863 | 0 | 0 | 3,363 | 0 | 54,500 | 0 | 0 | 0 | 0 | 0 | 57,863 |
| WAT906930 | DIST W/M REPLACEMENT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 15 | W/M REPLACEMENT - STAND ALONE | CW | S2 | 03 | 14,924 | 0 | 0 | 0 | 0 | 14,924 | 0 | 14,924 | 0 | 0 | 0 | 0 | 14,924 | 0 | 0 | 0 | 0 | 0 | 14,924 |
| 0 | 29 | DIST W/M REPLACEMENT - 2012 | CW | S2 | 03 | 4,732 | 0 | 0 | 0 | 0 | 4,732 | 0 | 4,732 | 0 | 0 | 0 | 0 | 4,732 | 0 | 0 | 0 | 0 | 0 | 4,732 |
| 0 | 39 | DIST W/M REPLACEMENT 2013 | CW | S2 | 03 | 11,083 | 0 | 0 | 0 | 0 | 11,083 | 0 | 11,083 | 0 | 0 | 0 | 0 | 11,083 | 0 | 0 | 0 | 0 | 0 | 11,083 |
| 0 | 41 | WATERMAIN UPGRADES | CW | S2 | 05 | 1,035 | 0 | 0 | 0 | 0 | 1,035 | 0 | 1,035 | 0 | 0 | 613 | 0 | 422 | 0 | 0 | 0 | 0 | 0 | 1,035 |
| 0 | 50 | DIST W/M REPLACEMENT 2013 - 2014 SC | CW | S3 | 03 | -6,150 | 4,450 | 0 | 0 | 0 | -1,700 | 0 | -1,700 | 0 | 0 | 0 | 0 | -1,700 | 0 | 0 | 0 | 0 | 0 | -1,700 |
| 0 | 51 | DIST WM REPLACMENT - 2014 | CW | S4 | 03 | 19,719 | 10,482 | 2,000 | 0 | 0 | 32,201 | 0 | 32,201 | 0 | 0 | 0 | 0 | 32,201 | 0 | 0 | 0 | 0 | 0 | 32,201 |
| 0 | 52 | WATERMAIN UPGRADES - 2014 | CW | S4 | 05 | 5,407 | 3,990 | 1,000 | 0 | 0 | 10,397 | 0 | 10,397 | 0 | 0 | 0 | 0 | 10,397 | 0 | 0 | 0 | 0 | 0 | 10,397 |
| 0 | 53 | W/M REPLACEMENT - STAND ALONE -2014 SC | CW | S3 | 03 | -6,045 | 6,936 | 0 | 0 | 0 | 891 | 0 | 891 | 0 | 0 | 0 | 0 | 891 | 0 | 0 | 0 | 0 | 0 | 891 |
| 0 | 54 | WATERMAIN UPGRADES -2014 SC | CW | S3 | 05 | 3,121 | 2,000 | 0 | 0 | 0 | 5,121 | 0 | 5,121 | 0 | 0 | -613 | 0 | 5,734 | 0 | 0 | 0 | 0 | 0 | 5,121 |
| 0 | 55 | WATERMAIN REPLACEMENT - METROLINX | CW | S4 | 03 | 25 | 600 | 600 | 1,000 | 875 | 3,100 | 0 | 3,100 | 0 | 0 | 0 | 0 | 3,100 | 0 | 0 | 0 | 0 | 0 | 3,100 |
| 0 | 56 | DIST W/M REPLACEMENT - 2012 - 2014 SC | CW | S3 | 03 | -2,888 | 3,125 | 0 | 0 | 0 | 237 | 0 | 237 | 0 | 0 | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 237 |
| | | Sub-total | | | | 44,963 | 31,583 | 3,600 | 1,000 | 875 | 82,021 | 0 | 82,021 | 0 | 0 | 0 | 0 | 82,021 | 0 | 0 | 0 | 0 | 0 | 82,021 |
| WAT906932 | DIST W/M REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | WATERMAIN CLEANING &LINING | CW | S2 | 04 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 200 |
| 0 | 4 | Hydrant & Valve Repair | CW | S2 | 03 | 645 | 0 | 0 | 0 | 0 | 645 | 0 | 645 | 0 | 0 | 0 | 0 | 645 | 0 | 0 | 0 | 0 | 0 | 645 |
| 0 | 5 | CUT REPAIRS - 2014 SC | CW | S3 | 03 | 1,994 | 4,371 | 0 | 0 | 0 | 6,365 | 0 | 6,365 | 0 | 0 | 0 | 0 | 6,365 | 0 | 0 | 0 | 0 | 0 | 6,365 |
| 0 | 6 | WATERMAIN STRUCTURAL LINING | CW | S2 | 03 | 17,559 | 0 | 0 | 0 | 0 | 17,559 | 0 | 17,559 | 0 | 0 | 0 | 0 | 17,559 | 0 | 0 | 0 | 0 | 0 | 17,559 |
| 0 | 7 | CATHODIC PROTECTION | CW | S2 | 03 | 5,244 | 0 | 0 | 0 | 0 | 5,244 | 0 | 5,244 | 0 | 0 | 0 | 0 | 5,244 | 0 | 0 | 0 | 0 | 0 | 5,244 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAT906932 | DIST W/M REHABILITATION | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 30 | CUT REPAIRS | CW | S2 | 03 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 0 | 0 | 0 | 0 | 2,250 |
| 0 | 38 | Hydrant & Valve Repair -2014 SC | CW | S3 | 03 | 355 | 1,000 | 1,000 | 1,000 | 0 | 3,355 | 0 | 3,355 | 0 | 0 | 0 | 0 | 3,355 | 0 | 0 | 0 | 0 | 0 | 3,355 |
| 0 | 39 | WATERMAIN STRUCTURAL LINING -2014 SC | CW | S3 | 03 | 13,697 | 31,500 | 35,000 | 30,500 | 0 | 110,697 | 0 | 110,697 | 0 | 0 | 0 | 0 | 110,697 | 0 | 0 | 0 | 0 | 0 | 110,697 |
| 0 | 40 | CATHODIC PROTECTION -2014 SC | CW | S3 | 03 | -1,209 | 3,500 | 3,500 | 3,500 | 0 | 9,291 | 0 | 9,291 | 0 | 0 | 0 | 0 | 9,291 | 0 | 0 | 0 | 0 | 0 | 9,291 |
| 0 | 41 | WATERMAIN CLEANING &LINING - 2014 SC | CW | S3 | 04 | -56 | 0 | 0 | 0 | 0 | -56 | 0 | -56 | 0 | 0 | 0 | 0 | -56 | 0 | 0 | 0 | 0 | 0 | -56 |
| | | Sub-total | | | | 40,679 | 40,371 | 39,500 | 35,000 | 0 | 155,550 | 0 | 155,550 | 0 | 0 | 0 | 0 | 155,550 | 0 | 0 | 0 | 0 | 0 | 155,550 |
| WAT906934 | DIST WATER SERVICE REPAIR | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 12 | ALL DISTRICT WSR - LEAD REPLACEMENT | CW | S2 | 02 | 10,000 | 1,989 | 0 | 0 | 0 | 11,989 | 0 | 11,989 | 0 | 0 | 0 | 0 | 11,989 | 0 | 0 | 0 | 0 | 0 | 11,989 |
| 0 | 20 | WATER SERVICE REPAIR - STAND ALONE | CW | S2 | 02 | 514 | 0 | 0 | 0 | 0 | 514 | 0 | 514 | 0 | 0 | 0 | 0 | 514 | 0 | 0 | 0 | 0 | 0 | 514 |
| 0 | 32 | WSR CUT REPAIRS | CW | S2 | 03 | 2,170 | 0 | 0 | 0 | 0 | 2,170 | 0 | 2,170 | 0 | 0 | 0 | 0 | 2,170 | 0 | 0 | 0 | 0 | 0 | 2,170 |
| 0 | 41 | 2013 WATER SERVICE REPLACMENT -SOGR | CW | S2 | 02 | 1,834 | 0 | 0 | 0 | 0 | 1,834 | 0 | 1,834 | 0 | 0 | 0 | 0 | 1,834 | 0 | 0 | 0 | 0 | 0 | 1,834 |
| 0 | 52 | 2014 WATER SERVICE REPLACEMENT - SOGR | CW | S4 | 02 | 3,000 | 5,000 | 0 | 0 | 0 | 8,000 | 0 | 8,000 | 0 | 0 | 0 | 0 | 8,000 | 0 | 0 | 0 | 0 | 0 | 8,000 |
| 0 | 53 | ALL DISTRICT WSR - LEAD REPLACEMENT -2014 SC | CW | S3 | 02 | -116 | 7,850 | 9,250 | 9,250 | 0 | 26,234 | 0 | 26,234 | 0 | 0 | 0 | 0 | 26,234 | 0 | 0 | 0 | 0 | 0 | 26,234 |
| 0 | 54 | WATER SERVICE REPAIR - STAND ALONE -2014 SC | CW | S3 | 02 | 918 | 0 | 0 | 0 | 0 | 918 | 0 | 918 | 0 | 0 | 0 | 0 | 918 | 0 | 0 | 0 | 0 | 0 | 918 |
| 0 | 55 | WSR CUT REPAIRS - 2014 SC | CW | S3 | 03 | -48 | 2,186 | 0 | 0 | 0 | 2,138 | 0 | 2,138 | 0 | 0 | 0 | 0 | 2,138 | 0 | 0 | 0 | 0 | 0 | 2,138 |
| 0 | 56 | 2012 WATER SERVICE REPLACEMENT - 2014 SC | CW | S3 | 02 | 84 | 50 | 0 | 0 | 0 | 134 | 0 | 134 | 0 | 0 | 0 | 0 | 134 | 0 | 0 | 0 | 0 | 0 | 134 |
| 0 | 57 | 2013 WATER SERVICE REPLACMENT -SOGR - 2014 SC | CW | S3 | 02 | -207 | 2,550 | 0 | 0 | 0 | 2,343 | 0 | 2,343 | 0 | 0 | 0 | 0 | 2,343 | 0 | 0 | 0 | 0 | 0 | 2,343 |
| | | Sub-total | | | | 18,149 | 19,625 | 9,250 | 9,250 | 0 | 56,274 | 0 | 56,274 | 0 | 0 | 0 | 0 | 56,274 | 0 | 0 | 0 | 0 | 0 | 56,274 |
| WAT906935 | NEW SERVICE CONNECTIONS | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | NEW SERVICE CONNECTIONS - CUT REPAIRS | CW | S2 | 05 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 7 | NEW SERVICE CONNECTIONS - SITE SERVICING | CW | S2 | 05 | 14,000 | 4,000 | 0 | 0 | 0 | 18,000 | 0 | 18,000 | 0 | 0 | 0 | 0 | 18,000 | 0 | 0 | 0 | 0 | 0 | 18,000 |
| 0 | 16 | NEW SERVICE CONNECTIONS - CUT REPAIRS -2014 SC | CW | S3 | 05 | 0 | 3,500 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 17 | NEW SERVICE CONNECTIONS - SITE SERVICING - 2014 SC | CW | S3 | 05 | 0 | 10,000 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| | | Sub-total | | | | 17,500 | 17,500 | 0 | 0 | 0 | 35,000 | 0 | 35,000 | 0 | 0 | 0 | 0 | 35,000 | 0 | 0 | 0 | 0 | 0 | 35,000 |
| WAT906951 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906951 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | ROAD RESTORATION - 2014 SC | CW | S3 | 03 | 5,198 | 0 | 0 | 0 | 0 | 5,198 | 0 | 5,198 | 0 | 0 | 0 | 0 | 5,198 | 0 | 0 | 0 | 0 | 0 | 5,198 |
| 0 | 2 | CONSULTING FEES | CW | S2 | 03 | 5,834 | 9,000 | 0 | 0 | 0 | 14,834 | 0 | 14,834 | 0 | 0 | 0 | 0 | 14,834 | 0 | 0 | 0 | 0 | 0 | 14,834 |
| 0 | 37 | SALARIES: LEGAL SALARIES - 2014 SC | CW | S3 | 03 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 | 188 |
| 0 | 45 | ECS SALARIES | CW | S4 | 03 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 0 | 0 | 0 | 0 | 12,033 |
| 0 | 46 | SALARIES: DISTRICT OPERATIONS - 2014 SC | CW | S3 | 03 | 623 | 0 | 0 | 0 | 0 | 623 | 0 | 623 | 0 | 0 | 0 | 0 | 623 | 0 | 0 | 0 | 0 | 0 | 623 |
| 0 | 50 | CONSULTING FEES -2014 SC | CW | S3 | 03 | -2,618 | -5,025 | 6,687 | 5,912 | 5,445 | 10,401 | 9,176 | 19,577 | 0 | 0 | 0 | 0 | 19,577 | 0 | 0 | 0 | 0 | 0 | 19,577 |
| | | Sub-total | | | | 21,258 | 3,975 | 6,687 | 5,912 | 5,445 | 43,277 | 9,176 | 52,453 | 0 | 0 | 0 | 0 | 52,453 | 0 | 0 | 0 | 0 | 0 | 52,453 |
| WAT906977 | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | FACILITY & PROCESS UPGRADES | CW | S2 | 03 | 491 | 375 | 375 | 0 | 0 | 1,241 | 0 | 1,241 | 0 | 0 | 0 | 0 | 1,241 | 0 | 0 | 0 | 0 | 0 | 1,241 |
| 0 | 7 | FILTER MEDIA REPLC | CW | S2 | 03 | 75 | 150 | 0 | 150 | 0 | 375 | 300 | 675 | 0 | 0 | 0 | 0 | 675 | 0 | 0 | 0 | 0 | 0 | 675 |
| 0 | 12 | FACILITY UPGRADE | CW | S4 | 03 | 300 | 1,600 | 1,100 | 0 | 0 | 3,000 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| 0 | 18 | VALVE CHAMBER UPGRADES | CW | S2 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0 | 20 | ISLAND SBS CONVERSION | CW | S2 | 04 | 44 | 0 | 0 | 0 | 0 | 44 | 0 | 44 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 44 |
| 0 | 25 | ISLAND FILTER AIR SCOUR SYSTEM | CW | S2 | 04 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 0 | 0 | 0 | 0 | 850 |
| 0 | 33 | ISLAND SEAWALL REHABILITATION | CW | S2 | 03 | 1,336 | 0 | 0 | 0 | 0 | 1,336 | 0 | 1,336 | 0 | 0 | 0 | 0 | 1,336 | 0 | 0 | 0 | 0 | 0 | 1,336 |
| 0 | 44 | ISLAND ENWAVE/RETROFIT PROJECT | CW | S2 | 04 | 1,100 | 0 | 0 | 0 | 0 | 1,100 | 0 | 1,100 | 0 | 0 | 0 | 0 | 1,100 | 0 | 0 | 0 | 0 | 0 | 1,100 |
| 0 | 50 | AMMONIA AND FLOURIDE SYSTEM UPGRADES | CW | S4 | 03 | 75 | 890 | 1,285 | 0 | 0 | 2,250 | 0 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 0 | 0 | 0 | 0 | 2,250 |
| 0 | 51 | CHEMICAL SYSTEMS ELEC FEED DISTRIBUTION | CW | S4 | 03 | 55 | 465 | 0 | 0 | 0 | 520 | 0 | 520 | 0 | 0 | 0 | 0 | 520 | 0 | 0 | 0 | 0 | 0 | 520 |
| 0 | 52 | CONDITION ASSESSMENT & REHAB OF RAW WATER WETWELL | CW | S4 | 03 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0 | 55 | FILTER MEDIA REPLC - 2014 SC | CW | S3 | 03 | 0 | -150 | 0 | -150 | 0 | -300 | -300 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | 0 | -600 |
| 0 | 56 | VALVE CHAMBER UPGRADES - 2014 SC | CW | S3 | 03 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | 0 | 0 | 0 | 0 | -100 |
| 0 | 57 | ISLAND SBS CONVERSION - 2014 SC | CW | S3 | 04 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| 0 | 58 | FACILITY & PROCESS UPGRADES - 2014 SC | CW | S3 | 03 | 507 | 227 | -149 | 0 | 0 | 585 | 0 | 585 | 0 | 0 | 0 | 0 | 585 | 0 | 0 | 0 | 0 | 0 | 585 |
| 0 | 59 | ISLAND SEAWALL REHABILITATION - 2014 SC | CW | S3 | 03 | -616 | 0 | 0 | 0 | 0 | -616 | 0 | -616 | 0 | 0 | 0 | 0 | -616 | 0 | 0 | 0 | 0 | 0 | -616 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT906977 | ISLAND W.T.P. R&R | | | | | | | | | | | | | | | | | | | | | | |
| 0 60 | | ISLAND FILTER AIR SCOUR SYSTEM - 2014 SC | CW | S3 | 04 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 82 | 0 | 418 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 61 | | ISLAND ENWAVE/RETROFIT PROJECT - 2014 SC | CW | S3 | 04 | -926 | 260 | 350 | 0 | 0 | -316 | 0 | -316 | 0 | 0 | 0 | 0 | -316 | 0 | 0 | 0 | 0 | 0 | -316 |
| | | Sub-total | | | | 3,397 | 4,317 | 2,961 | 0 | 0 | 10,675 | 0 | 10,675 | 0 | 0 | 82 | 0 | 10,593 | 0 | 0 | 0 | 0 | 0 | 10,675 |
| WAT906979 | D2/D4 TRUNK WATERMAIN UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 4 | | JOS - NEILSON (ELLESMERE-SHEPPARD) WM CONSTRUCTION | CW | S2 | 05 | 1,170 | 0 | 0 | 0 | 0 | 1,170 | 0 | 1,170 | 0 | 0 | 157 | 0 | 583 | 0 | 0 | 430 | 0 | 0 | 1,170 |
| 0 7 | | Ellesmere WM (Markham to Neilson) ENG | CW | S2 | 05 | 0 | 0 | 0 | 0 | 100 | 100 | 1,070 | 1,170 | 0 | 0 | 156 | 0 | 352 | 0 | 0 | 662 | 0 | 0 | 1,170 |
| 0 29 | | JOS -NEILSON(ELLESMERE-SHEPPARD)WM CONS -2014 SC | CW | S3 | 05 | 130 | 0 | 0 | 0 | 0 | 130 | 0 | 130 | 0 | 0 | 191 | 0 | -110 | 0 | 0 | 49 | 0 | 0 | 130 |
| 0 30 | | Ellesmere WM (Markham to Neilson) ENG -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | -100 | -100 | -1,070 | -1,170 | 0 | 0 | -156 | 0 | -352 | 0 | 0 | -662 | 0 | 0 | -1,170 |
| | | Sub-total | | | | 1,300 | 0 | 0 | 0 | 0 | 1,300 | 0 | 1,300 | 0 | 0 | 348 | 0 | 473 | 0 | 0 | 479 | 0 | 0 | 1,300 |
| WAT907135 | BAYVIEW TRUNK WATERMAIN - PH2 | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | | JOS - MT- PLEASANT WM - CONST | CW | S2 | 05 | 0 | 0 | 0 | 0 | 1,000 | 1,000 | 80,000 | 81,000 | 0 | 0 | 502 | 0 | 1,287 | 0 | 0 | 79,211 | 0 | 0 | 81,000 |
| 0 8 | | JOS - MT- PLEASANT WM - CONST -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | -1,000 | -1,000 | -80,000 | -81,000 | 0 | 0 | -502 | 0 | -1,287 | 0 | 0 | -79,211 | 0 | 0 | -81,000 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAT907353 | LAWRENCE ALLAN REVITALIZATION PLAN | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | | LAWRENCE ALLAN REVITALIZATION PLAN-INFRASTURCTURE | CW | S2 | 05 | 0 | 3,668 | 3,354 | 12,641 | 2,127 | 21,790 | 3,531 | 25,321 | 0 | 0 | 0 | 0 | 25,321 | 0 | 0 | 0 | 0 | 0 | 25,321 |
| 0 2 | | LAWRENCE ALLAN REVITALIZATION PLAN-EXTERNAL SEWER | CW | S2 | 05 | 0 | 2,803 | 0 | 5,437 | 0 | 8,240 | 0 | 8,240 | 0 | 0 | 3,461 | 0 | 4,779 | 0 | 0 | 0 | 0 | 0 | 8,240 |
| 0 4 | | LAWRENCE ALLAN REVITALIZATION-EXTERNAL -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,779 | 0 | -4,779 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 5 | | LAWRENCE ALLAN REVITALIZATION PLAN-INTER - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,868 | 0 | -4,868 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 0 | 6,471 | 3,354 | 18,078 | 2,127 | 30,030 | 3,531 | 33,561 | 0 | 0 | 13,108 | 0 | 20,453 | 0 | 0 | 0 | 0 | 0 | 33,561 |
| WAT907558 | REGENT PARK CAPITAL CONTRIBUTION | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | | REGENT PARK CAPITAL CONTRIBUTION | 28 | S2 | 05 | 0 | 859 | 330 | 132 | 745 | 2,066 | 984 | 3,050 | 0 | 0 | 0 | 0 | 3,050 | 0 | 0 | 0 | 0 | 0 | 3,050 |
| 0 8 | | REGENT PARK CAPITAL CONTRIBUTION - 2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 162 | 162 | 0 | 0 | 3,212 | 0 | -3,050 | 0 | 0 | 0 | 0 | 0 | 162 |
| | | Sub-total | | | | 0 | 859 | 330 | 132 | 745 | 2,066 | 1,146 | 3,212 | 0 | 0 | 3,212 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,212 |
| WAT907946 | BUSINESS IT PROJECTS | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | | BUSINESS INTELLIGENCE INITIATIVES | CW | S2 | 04 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 0 | 0 | 0 | 0 | 425 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAT907946 | BUSINESS IT PROJECTS | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | BACKFLOW INSPECTION PORTAL | CW | S2 | 04 | 250 | 200 | 0 | 0 | 0 | 450 | 0 | 450 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 450 |
| 0 | 3 | DISASTER RECOVERY - DRP - 2014 SC | CW | S3 | 04 | 121 | 0 | 0 | 0 | 0 | 121 | 0 | 121 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 121 |
| 0 | 4 | EDOCS | CW | S2 | 04 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 50 |
| 0 | 5 | BACKFLOW INSPECTION PORTAL -2014 SC | CW | S3 | 04 | -250 | -200 | 200 | 200 | 0 | -50 | 0 | -50 | 0 | 0 | 0 | 0 | -50 | 0 | 0 | 0 | 0 | -50 |
| 0 | 6 | EDOCS -2014 SC | CW | S3 | 04 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| 0 | 7 | ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT | CW | S4 | 04 | 875 | 1,175 | 1,225 | 975 | 975 | 5,225 | 0 | 5,225 | 0 | 0 | 0 | 0 | 5,225 | 0 | 0 | 0 | 0 | 5,225 |
| 0 | 8 | BUSINESS INTELLIGENCE INITIATIVES - 2014 SC | CW | S3 | 04 | -150 | 280 | 0 | 0 | 0 | 130 | 0 | 130 | 0 | 0 | 0 | 0 | 130 | 0 | 0 | 0 | 0 | 130 |
| 0 | 9 | DISASTER RECOVERY | CW | S2 | 04 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 84 |
| | | Sub-total | | | | 1,505 | 1,455 | 1,425 | 1,175 | 975 | 6,535 | 0 | 6,535 | 0 | 0 | 0 | 0 | 6,535 | 0 | 0 | 0 | 0 | 6,535 |
| **Total Program Expenditure** | | | | | | 264,998 | 258,666 | 173,875 | 120,320 | 41,801 | 859,660 | 37,338 | 896,998 | 0 | 0 | 63,305 | 0 | 778,274 | 0 | 0 | 55,419 | 0 | 896,998 |

Report Phase 2 - Program 10 Water Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2 Part C Sub-Project Status S2,S3,S4,S5

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Water Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments and Estimates | | | | | | | | Current and Future Year Cash Flow Commitments and Estimates Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| Financed By: | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Development Charges | | | | 7,715 | 15,114 | 8,588 | 14,535 | 8,416 | 54,368 | 8,937 | 63,305 | 0 | 0 | 63,305 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63,305 |
| | | Reserve Funds (Ind."XR" Ref.) | | | | 241,320 | 231,396 | 156,868 | 99,570 | 27,380 | 756,534 | 21,740 | 778,274 | 0 | 0 | 0 | 0 | 778,274 | 0 | 0 | 0 | 0 | 0 | 778,274 |
| | | Other2 (External) | | | | 15,963 | 12,156 | 8,419 | 6,215 | 6,005 | 48,758 | 6,661 | 55,419 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55,419 | 0 | 0 | 55,419 |
| **Total Program Financing** | | | | | | 264,998 | 258,666 | 173,875 | 120,320 | 41,801 | 859,660 | 37,338 | 896,998 | 0 | 0 | 63,305 | 0 | 778,274 | 0 | 0 | 55,419 | 0 | 0 | 896,998 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |
| S3 | S3 Prior Year - Change of Scope 2014 and\or Future Year Cost\Cashflow) |
| S4 | S4 New - Stand-Alone Project (Current Year Only) |
| S5 | S5 New (On-going or Phased Projects) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

Report Phase 2 - Program 11 Wastewater Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2 Part C Sub-Project Status S2,S3,S4,S5

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS000007 | ASHBRIDGES BAY WWTP REHAB | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 17 | STANDBY POWER GENERATION | CW | S2 | 04 | 7,009 | 4,400 | 55 | 15 | 0 | 11,479 | 0 | 11,479 | 0 | 0 | 344 | 0 | 11,135 | 0 | 0 | 0 | 0 | 11,479 |
| 0 | 19 | FERROUS UPGRADES | CW | S2 | 03 | 1,920 | 4,700 | 1,750 | 120 | 0 | 8,490 | 0 | 8,490 | 0 | 0 | 256 | 0 | 8,234 | 0 | 0 | 0 | 0 | 8,490 |
| 0 | 30 | ELECTRICAL REHAB | CW | S2 | 01 | 9,073 | 5,620 | 0 | 0 | 0 | 14,693 | 0 | 14,693 | 0 | 0 | 0 | 0 | 14,693 | 0 | 0 | 0 | 0 | 14,693 |
| 0 | 41 | POLYMER UPGRADE | CW | S2 | 03 | 1,410 | 4,100 | 3,750 | 800 | 60 | 10,120 | 0 | 10,120 | 0 | 0 | 0 | 0 | 10,120 | 0 | 0 | 0 | 0 | 10,120 |
| 0 | 46 | Rehab of Grounds and Buildings | CW | S2 | 03 | 658 | 5 | 0 | 0 | 0 | 663 | 0 | 663 | 0 | 0 | 0 | 0 | 663 | 0 | 0 | 0 | 0 | 663 |
| 0 | 47 | PT ENGINEERING DESIGN & CONTRACT ADMIN | CW | S2 | 03 | 1,320 | 1,100 | 1,000 | 750 | 250 | 4,420 | 49 | 4,469 | 0 | 0 | 134 | 0 | 4,335 | 0 | 0 | 0 | 0 | 4,469 |
| 0 | 49 | PROCESS UPGRADES AND ODOUR CONTROL ENGINEERING | CW | S2 | 04 | 1,424 | 300 | 87 | 0 | 0 | 1,811 | 0 | 1,811 | 0 | 0 | 55 | 0 | 1,756 | 0 | 0 | 0 | 0 | 1,811 |
| 0 | 189 | PROCESS AND EQUIPMENT | CW | S2 | 03 | 4,460 | 2,840 | 0 | 0 | 0 | 7,300 | 0 | 7,300 | 0 | 0 | 0 | 0 | 7,300 | 0 | 0 | 0 | 0 | 7,300 |
| 0 | 190 | FACILITY AND GROUNDS | CW | S2 | 03 | 4,403 | 3,267 | 0 | 0 | 0 | 7,670 | 0 | 7,670 | 0 | 0 | 0 | 0 | 7,670 | 0 | 0 | 0 | 0 | 7,670 |
| 0 | 206 | STANDBY POWER GENERATION -2014 SC | CW | S3 | 04 | -2,109 | -327 | -50 | 0 | 0 | -2,486 | 0 | -2,486 | 0 | 0 | 379 | 0 | -2,865 | 0 | 0 | 0 | 0 | -2,486 |
| 0 | 207 | PT ENGINEERING DESIGN & CONTRACT ADMIN -2014 SC | CW | S3 | 03 | 690 | 1,110 | 1,084 | 238 | 635 | 3,757 | 250 | 4,007 | 0 | 0 | 549 | 0 | 3,458 | 0 | 0 | 0 | 0 | 4,007 |
| 0 | 208 | ELECTRICAL REHAB -ECAP -2014 SC | CW | S3 | 01 | -6,944 | 554 | 6,025 | 2,105 | 421 | 2,161 | 0 | 2,161 | 0 | 0 | 0 | 0 | 2,161 | 0 | 0 | 0 | 0 | 2,161 |
| 0 | 209 | Rehab of Grounds and Buildings -2014 SC | CW | S3 | 03 | -79 | 20 | 0 | 0 | 0 | -59 | 0 | -59 | 0 | 0 | 0 | 0 | -59 | 0 | 0 | 0 | 0 | -59 |
| 0 | 210 | PROCESS UPGRADES & ODOUR CONTROL ENG -2014 SC | CW | S3 | 04 | -114 | 700 | 323 | 34 | 0 | 943 | 0 | 943 | 0 | 0 | 166 | 0 | 777 | 0 | 0 | 0 | 0 | 943 |
| 0 | 211 | FERROUS UPGRADES -2014 SC | CW | S3 | 03 | -1,320 | -4,225 | 4,322 | 6,580 | 3,185 | 8,542 | 255 | 8,797 | 0 | 0 | 1,143 | 0 | 7,654 | 0 | 0 | 0 | 0 | 8,797 |
| 0 | 212 | PROCESS AND EQUIPMENT -2014 SC | CW | S3 | 03 | -2,360 | 30 | 3,610 | 4,004 | 4 | 5,288 | 0 | 5,288 | 0 | 0 | 0 | 0 | 5,288 | 0 | 0 | 0 | 0 | 5,288 |
| 0 | 213 | FACILITY AND GROUNDS -2014 SC | CW | S3 | 03 | -2,907 | -1,302 | 2,002 | 0 | 0 | -2,207 | 0 | -2,207 | 0 | 0 | 0 | 0 | -2,207 | 0 | 0 | 0 | 0 | -2,207 |
| 0 | 214 | POLYMER UPGRADE -2014 SC | CW | S3 | 03 | -850 | -3,540 | -2,950 | 9,100 | 12,140 | 13,900 | 12,380 | 26,280 | 0 | 0 | 0 | 0 | 26,280 | 0 | 0 | 0 | 0 | 26,280 |
| 0 | 215 | DIGESTERS CLEANING REHAB 10 YEAR PLAN | CW | S4 | 03 | 700 | 3,700 | 3,600 | 3,100 | 0 | 11,100 | 0 | 11,100 | 0 | 0 | 0 | 0 | 11,100 | 0 | 0 | 0 | 0 | 11,100 |
| 0 | 216 | OPERATIONS CENTRE - ENGINEERING | CW | S4 | 03 | 300 | 400 | 0 | 0 | 0 | 700 | 0 | 700 | 0 | 0 | 0 | 0 | 700 | 0 | 0 | 0 | 0 | 700 |
| | | Sub-total | | | | 16,684 | 23,452 | 24,608 | 26,846 | 16,695 | 108,285 | 12,934 | 121,219 | 0 | 0 | 3,026 | 0 | 118,193 | 0 | 0 | 0 | 0 | 121,219 |
| WAS000160 | ASHBRIDGES BAY TREATMENT PLANT - III | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 19 | BIOSOLIDS IMPRVS & STUDIES | CW | S2 | 04 | 165 | 0 | 0 | 0 | 0 | 165 | 0 | 165 | 0 | 0 | 5 | 0 | 160 | 0 | 0 | 0 | 0 | 165 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS000160 | ASHBRIDGES BAY TREATMENT PLANT - III | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 43 | BIOSOLIDS IMPRVS & STUDIES -2014 SC | CW | S3 | 04 | -165 | 0 | 0 | 0 | 0 | -165 | 0 | -165 | 0 | 0 | -5 | 0 | -160 | 0 | 0 | 0 | 0 | 0 | -165 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAS000259 | TRUNK SEWER SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 15 | TRUNK SEVWER REHAB-2012 | CW | S2 | 03 | 24,464 | 12,900 | 3,000 | 500 | 0 | 40,864 | 0 | 40,864 | 0 | 0 | 0 | 0 | 40,864 | 0 | 0 | 0 | 0 | 0 | 40,864 |
| 0 | 23 | TRUNK SEWER REHABILITATION | CW | S2 | 03 | 395 | 225 | 0 | 0 | 0 | 620 | 0 | 620 | 0 | 0 | 0 | 0 | 620 | 0 | 0 | 0 | 0 | 0 | 620 |
| 0 | 27 | TRUNK SEWER REHABILITATION - 2014 | CW | S4 | 03 | 455 | 12,880 | 18,225 | 3,543 | 7 | 35,110 | 0 | 35,110 | 0 | 0 | 0 | 0 | 35,110 | 0 | 0 | 0 | 0 | 0 | 35,110 |
| 0 | 33 | TRUNK SEVWER REHAB-2012 -2014 SC | CW | S3 | 03 | -16,893 | -6,984 | 1,884 | 1,111 | 381 | -20,501 | 49 | -20,452 | 0 | 0 | 0 | 0 | -20,452 | 0 | 0 | 0 | 0 | 0 | -20,452 |
| 0 | 34 | KEELE TRUNK SEWER PROPERTY ACQUISTION -2014 SC | CW | S3 | 05 | 500 | 500 | 0 | 0 | 0 | 1,000 | 0 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 | 1,000 |
| 0 | 37 | TRUNK SEWER REHABILITATION - 2014 SC | CW | S3 | 03 | -225 | -55 | 0 | 0 | 0 | -280 | 0 | -280 | 0 | 0 | 0 | 0 | -280 | 0 | 0 | 0 | 0 | 0 | -280 |
| | | Sub-total | | | | 8,696 | 19,466 | 23,109 | 5,154 | 388 | 56,813 | 49 | 56,862 | 0 | 0 | 0 | 0 | 56,862 | 0 | 0 | 0 | 0 | 0 | 56,862 |
| WAS000442 | BASEMENT FLOODING RELIEF | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | BASEMENT FLOODING STUDIES & EAS | CW | S2 | 04 | 3,236 | 0 | 0 | 0 | 0 | 3,236 | 0 | 3,236 | 0 | 0 | 0 | 0 | 3,236 | 0 | 0 | 0 | 0 | 0 | 3,236 |
| 0 | 9 | BASEMENT FLOODING RELIEF - TUNNEL PROJECT | CW | S2 | 04 | 33,063 | 0 | 0 | 0 | 0 | 33,063 | 0 | 33,063 | 0 | 0 | 0 | 0 | 33,063 | 0 | 0 | 0 | 0 | 0 | 33,063 |
| 0 | 12 | ROAD RESTORATION FOR BSMT FLDG | CW | S2 | 04 | 5,013 | 3,000 | 0 | 0 | 0 | 8,013 | 0 | 8,013 | 0 | 0 | 0 | 0 | 8,013 | 0 | 0 | 0 | 0 | 0 | 8,013 |
| 0 | 14 | BASEMENT FLOODING DESIGN - GROUP 1 | CW | S2 | 04 | 4,363 | 100 | 50 | 0 | 0 | 4,513 | 0 | 4,513 | 0 | 0 | 0 | 0 | 4,513 | 0 | 0 | 0 | 0 | 0 | 4,513 |
| 0 | 18 | BASEMENT FLOODING DESIGN - GROUP 2 | CW | S2 | 04 | 7,000 | 7,000 | 6,000 | 5,000 | 0 | 25,000 | 0 | 25,000 | 0 | 0 | 0 | 0 | 25,000 | 0 | 0 | 0 | 0 | 0 | 25,000 |
| 0 | 19 | BASEMENT FLOODING RELIEF- GROUP 2 | CW | S4 | 04 | 17,292 | 41,222 | 39,832 | 49,299 | 1,500 | 149,145 | 0 | 149,145 | 0 | 0 | 0 | 0 | 149,145 | 0 | 0 | 0 | 0 | 0 | 149,145 |
| 0 | 20 | BASEMENT FLOODING DESIGN - GROUP 3 | CW | S4 | 04 | 100 | 3,000 | 4,000 | 5,000 | 5,000 | 17,100 | 8,000 | 25,100 | 0 | 0 | 0 | 0 | 25,100 | 0 | 0 | 0 | 0 | 0 | 25,100 |
| 0 | 29 | BASEMENT FLOODING RELIEF - GROUP 1 | CW | S2 | 04 | 47,555 | 75 | 75 | 75 | 0 | 47,780 | 0 | 47,780 | 0 | 0 | 0 | 0 | 47,780 | 0 | 0 | 0 | 0 | 0 | 47,780 |
| 0 | 59 | BASEMENT FLOODING RELIEF -BACKFLOW GRANTS -2014 SC | CW | S3 | 04 | 3,000 | 3,000 | 3,000 | 3,000 | 3,000 | 15,000 | 17,500 | 32,500 | 0 | 0 | 0 | 0 | 32,500 | 0 | 0 | 0 | 0 | 0 | 32,500 |
| 0 | 60 | BASEMENT FLOODING STUDIES & EAS -2014 SC | CW | S3 | 04 | -585 | 1,618 | 1,485 | 0 | 0 | 2,518 | 0 | 2,518 | 0 | 0 | 0 | 0 | 2,518 | 0 | 0 | 0 | 0 | 0 | 2,518 |
| 0 | 61 | BASEMENT FLOODING DESIGN GROUP 1 -2014 SC | CW | S3 | 04 | -3,075 | 1,788 | 1,850 | 0 | 0 | 563 | 0 | 563 | 0 | 0 | 0 | 0 | 563 | 0 | 0 | 0 | 0 | 0 | 563 |
| 0 | 62 | BASEMENT FLOODING DESIGH GROUP 2 - 2014 SC | CW | S3 | 04 | -900 | -1,100 | -500 | 500 | 25 | -1,975 | 0 | -1,975 | 0 | 0 | 0 | 0 | -1,975 | 0 | 0 | 0 | 0 | 0 | -1,975 |
| 0 | 63 | BASEMENT FLOODING RELIEF - GROUP 1 -2014 SC | CW | S3 | 04 | -22,432 | 11,635 | 15,000 | 0 | 0 | 4,203 | 0 | 4,203 | 0 | 0 | 0 | 0 | 4,203 | 0 | 0 | 0 | 0 | 0 | 4,203 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS000442 | BASEMENT FLOODING RELIEF | | | | | | | | | | | | | | | | | | | | | | |
| 0 64 | ROAD RESTORATION FOR BSMT FLDG -2014 SC | | CW | S3 | 04 | -2,321 | -2,228 | 0 | 0 | 0 | -4,549 | 0 | -4,549 | 0 | 0 | 0 | 0 | -4,549 | 0 | 0 | 0 | 0 | -4,549 |
| 0 65 | BASEMENT FLOODING RELIEF -TUNNEL PROJECT -2014 SC | | CW | S3 | 04 | -32,553 | 10,000 | 32,000 | 37,000 | 40,500 | 86,947 | 30,000 | 116,947 | 0 | 0 | 0 | 0 | 116,947 | 0 | 0 | 0 | 0 | 116,947 |
| 1 1 | BASEMENT FLOODING RELIEF - BACKFLOW GRANTS | | CW | S2 | 04 | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 12,500 | 10,000 | 22,500 | 0 | 0 | 0 | 0 | 22,500 | 0 | 0 | 0 | 0 | 22,500 |
| | Sub-total | | | | | 61,256 | 81,610 | 105,292 | 102,374 | 52,525 | 403,057 | 65,500 | 468,557 | 0 | 0 | 0 | 0 | 468,557 | 0 | 0 | 0 | 0 | 468,557 |
| WAS000521 | HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |
| 0 3 | HCTP BLDG REHAB & IMPROVEMENTS | | CW | S2 | 03 | 500 | 4,000 | 4,000 | 3,000 | 0 | 11,500 | 0 | 11,500 | 0 | 0 | 0 | 0 | 11,500 | 0 | 0 | 0 | 0 | 11,500 |
| 0 6 | HCTP BLDG REHAB & IMPROVEMENTS - 2014 SC | | CW | S3 | 03 | 998 | -500 | 0 | 0 | 0 | 498 | 0 | 498 | 0 | 0 | 0 | 0 | 498 | 0 | 0 | 0 | 0 | 498 |
| | Sub-total | | | | | 1,498 | 3,500 | 4,000 | 3,000 | 0 | 11,998 | 0 | 11,998 | 0 | 0 | 0 | 0 | 11,998 | 0 | 0 | 0 | 0 | 11,998 |
| WAS906322 | W&WW LABORATORIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | LAB EQUIPMENT | | CW | S2 | 03 | 112 | 100 | 0 | 0 | 0 | 212 | 0 | 212 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 212 |
| 0 24 | LAB EQUIPMENT -2014 SC | | CW | S3 | 03 | 8 | 50 | 0 | 0 | 0 | 58 | 0 | 58 | 0 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 58 |
| | Sub-total | | | | | 120 | 150 | 0 | 0 | 0 | 270 | 0 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 270 |
| WAS906328 | SWM END OF PIPE FACILITIES | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | NORTH TORONTO CSO CONSTR | | CW | S2 | 04 | 5,000 | 500 | 0 | 0 | 0 | 5,500 | 0 | 5,500 | 0 | 0 | 550 | 0 | 4,950 | 0 | 0 | 0 | 0 | 5,500 |
| 0 11 | BONAR CREEK CONSTRUCTION | | CW | S4 | 04 | 200 | 800 | 2,150 | 5,400 | 5,250 | 13,800 | 2,600 | 16,400 | 0 | 0 | 1,320 | 0 | 15,080 | 0 | 0 | 0 | 0 | 16,400 |
| 0 12 | EARL BALES SWM FACILITY - PHASE 2 | | CW | S2 | 04 | 3,500 | 1,000 | 500 | 0 | 0 | 5,000 | 0 | 5,000 | 0 | 0 | 0 | 0 | 5,000 | 0 | 0 | 0 | 0 | 5,000 |
| 0 35 | EASTERN BEACHES WATER QUALITY IMPROVEMENTS | | CW | S2 | 04 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 250 | 0 | 0 | 25 | 0 | 225 | 0 | 0 | 0 | 0 | 250 |
| 0 49 | NORTH TORONTO CSO CONSTR -2014 SC | | CW | S3 | 04 | -4,500 | 2,500 | 2,500 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | -68 | 0 | 568 | 0 | 0 | 0 | 0 | 500 |
| 0 50 | EARL BALES SWM FACILITY - PHASE 2 -2014 SC | | CW | S3 | 04 | -3,000 | 2,000 | 1,500 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 442 | 0 | 58 | 0 | 0 | 0 | 0 | 500 |
| 0 51 | EASTERN BEACHES WATER QUALITY IMPROVEMENTS-2014 SC | | CW | S3 | 04 | -250 | 0 | 0 | 0 | 0 | -250 | 0 | -250 | 0 | 0 | -25 | 0 | -225 | 0 | 0 | 0 | 0 | -250 |
| | Sub-total | | | | | 1,200 | 6,800 | 6,650 | 5,400 | 5,250 | 25,300 | 2,600 | 27,900 | 0 | 0 | 2,244 | 0 | 25,656 | 0 | 0 | 0 | 0 | 27,900 |
| WAS906331 | SWM SOURCE CONTROL PROG | | | | | | | | | | | | | | | | | | | | | | |
| 0 9 | DOWNSPOUT DISCONNECTION PROGRAM | | CW | S2 | 04 | 150 | 150 | 250 | 150 | 150 | 850 | 0 | 850 | 0 | 0 | 85 | 0 | 765 | 0 | 0 | 0 | 0 | 850 |
| 0 14 | DOWNSPOUT DISCONNECTION PROGRAM -2014 SC | | CW | S3 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -85 | 0 | 85 | 0 | 0 | 0 | 0 | 0 |
| | Sub-total | | | | | 150 | 150 | 250 | 150 | 150 | 850 | 0 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 0 | 0 | 0 | 850 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906380 | HIGHLAND CREEK WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | ODOUR CONTROL UPGRADES - PHASE 1 ENG | | CW | S2 | 04 | 876 | 510 | 250 | 650 | 100 | 2,386 | 5 | 2,391 | 0 | 0 | 48 | 0 | 2,343 | 0 | 0 | 0 | 0 | 2,391 |
| 0 2 | ODOUR CONTROL UPGRADES PHASE 1 CONST | | CW | S2 | 02 | 20,760 | 20,000 | 20,000 | 9,000 | 0 | 69,760 | 0 | 69,760 | 0 | 0 | 1,395 | 0 | 68,365 | 0 | 0 | 0 | 0 | 69,760 |
| 0 14 | ODOUR CONTROL UPGRADES - PHASE 1 ENG -2014 SC | | CW | S3 | 04 | -416 | 0 | 230 | 150 | 0 | -36 | 0 | -36 | 0 | 0 | 141 | 0 | -177 | 0 | 0 | 0 | 0 | -36 |
| 0 15 | ODOUR CONTROL UPGRADES PHASE 1 CONST -2014 SC | | CW | S3 | 02 | -15,760 | -5,000 | -5,000 | 6,000 | 15,000 | -4,760 | 10,000 | 5,240 | 0 | 0 | 4,640 | 0 | 600 | 0 | 0 | 0 | 0 | 5,240 |
| | Sub-total | | | | | 5,460 | 15,510 | 15,480 | 15,800 | 15,100 | 67,350 | 10,005 | 77,355 | 0 | 0 | 6,224 | 0 | 71,131 | 0 | 0 | 0 | 0 | 77,355 |
| WAS906486 | ASHBRIDGES BAY T.P. - III YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 3 | PCS-PLANT SRVS | | CW | S2 | 04 | 1,300 | 360 | 30 | 0 | 0 | 1,690 | 0 | 1,690 | 0 | 0 | 51 | 0 | 1,639 | 0 | 0 | 0 | 0 | 1,690 |
| 0 4 | LANDSCAPE SITE DESIGN | | CW | S2 | 04 | 0 | 0 | 0 | 0 | 0 | 0 | 800 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | 800 |
| 0 43 | PCS-PLANT SRVS -2014 SC | | CW | S3 | 04 | -170 | 1,170 | 20 | 30 | 0 | 1,050 | 0 | 1,050 | 0 | 0 | 169 | 0 | 881 | 0 | 0 | 0 | 0 | 1,050 |
| | Sub-total | | | | | 1,130 | 1,530 | 50 | 30 | 0 | 2,740 | 800 | 3,540 | 0 | 0 | 220 | 0 | 3,320 | 0 | 0 | 0 | 0 | 3,540 |
| WAS906487 | HIGHLAND CREEK T.P. - IV YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | PCS PLANT SERVICES | | CW | S2 | 04 | 115 | 213 | 0 | 0 | 0 | 328 | 0 | 328 | 0 | 0 | 7 | 0 | 321 | 0 | 0 | 0 | 0 | 328 |
| 0 19 | PCS PLANT SERVICES -2014 SC | | CW | S3 | 04 | 90 | -150 | 3 | 0 | 0 | -57 | 0 | -57 | 0 | 0 | 15 | 0 | -72 | 0 | 0 | 0 | 0 | -57 |
| | Sub-total | | | | | 205 | 63 | 3 | 0 | 0 | 271 | 0 | 271 | 0 | 0 | 22 | 0 | 249 | 0 | 0 | 0 | 0 | 271 |
| WAS906488 | HUMBER T.P. - II YR2004 | | | | | | | | | | | | | | | | | | | | | | |
| 0 2 | PCS PLANT SERVICES | | CW | S2 | 04 | 130 | 55 | 0 | 0 | 0 | 185 | 0 | 185 | 0 | 0 | 3 | 0 | 182 | 0 | 0 | 0 | 0 | 185 |
| 0 21 | PCS PLANT SERVICES -2014 SC | | CW | S3 | 04 | -25 | 125 | 5 | 7 | 0 | 112 | 0 | 112 | 0 | 0 | 20 | 0 | 92 | 0 | 0 | 0 | 0 | 112 |
| | Sub-total | | | | | 105 | 180 | 5 | 7 | 0 | 297 | 0 | 297 | 0 | 0 | 23 | 0 | 274 | 0 | 0 | 0 | 0 | 297 |
| WAS906492 | WET WEATHER FLOW MP | | | | | | | | | | | | | | | | | | | | | | |
| 0 1 | SWM INA-EA | | CW | S2 | 04 | 1,045 | 615 | 475 | 0 | 0 | 2,135 | 0 | 2,135 | 0 | 0 | 215 | 0 | 1,920 | 0 | 0 | 0 | 0 | 2,135 |
| 0 2 | WWFMP - PUBLIC EDUCATION | | CW | S2 | 04 | 860 | 500 | 500 | 0 | 0 | 1,860 | 0 | 1,860 | 0 | 0 | 93 | 0 | 1,767 | 0 | 0 | 0 | 0 | 1,860 |
| 0 14 | WWFMP IMPLEMENTATION - DESIGN&CONTRACT ADMIN | | CW | S2 | 04 | 3,107 | 1,241 | 0 | 0 | 0 | 4,348 | 0 | 4,348 | 0 | 0 | 434 | 0 | 3,914 | 0 | 0 | 0 | 0 | 4,348 |
| 0 15 | WWF MONITORING STATIONS | | CW | S2 | 04 | 0 | 0 | 250 | 250 | 250 | 750 | 0 | 750 | 0 | 0 | 39 | 0 | 711 | 0 | 0 | 0 | 0 | 750 |
| 0 44 | SWM CONVEYANCE 2013 | | CW | S2 | 04 | 2,604 | 0 | 0 | 0 | 0 | 2,604 | 0 | 2,604 | 0 | 0 | 259 | 0 | 2,345 | 0 | 0 | 0 | 0 | 2,604 |
| 0 51 | SWM CONVEYANCE 2014 | | CW | S4 | 04 | 3,461 | 2,048 | 0 | 0 | 0 | 5,509 | 0 | 5,509 | 0 | 0 | 0 | 0 | 5,509 | 0 | 0 | 0 | 0 | 5,509 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906492 | WET WEATHER FLOW MP | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 52 | SWM INA-EA -2014 SC | CW | S3 | 04 | -665 | -85 | -325 | 150 | 150 | -775 | 0 | -775 | 0 | 0 | -105 | 0 | -670 | 0 | 0 | 0 | 0 | -775 |
| 0 | 53 | WWFMP - PUBLIC EDUCATION -2014 SC | CW | S3 | 04 | -360 | 0 | 0 | 0 | 0 | -360 | 0 | -360 | 0 | 0 | 27 | 0 | -387 | 0 | 0 | 0 | 0 | -360 |
| 0 | 54 | WWFMP IMPLEMENTATION-DESIGN&CON ADMIN -2014 SC | CW | S3 | 04 | -1,807 | -141 | 1,000 | 500 | 0 | -448 | 0 | -448 | 0 | 0 | -120 | 0 | -328 | 0 | 0 | 0 | 0 | -448 |
| 0 | 55 | WWF MONITORING STATIONS -2014 SC | CW | S3 | 04 | 0 | 0 | -250 | -250 | 250 | -250 | 600 | 350 | 0 | 0 | 49 | 0 | 301 | 0 | 0 | 0 | 0 | 350 |
| 0 | 56 | SWM CONVEYANCE 2013 -2014 SC | CW | S3 | 04 | -354 | 0 | 0 | 0 | 0 | -354 | 0 | -354 | 0 | 0 | -78 | 0 | -276 | 0 | 0 | 0 | 0 | -354 |
| | | Sub-total | | | | 7,891 | 4,178 | 1,650 | 650 | 650 | 15,019 | 600 | 15,619 | 0 | 0 | 813 | 0 | 14,806 | 0 | 0 | 0 | 0 | 15,619 |
| WAS906495 | SEWER ASSET PLANNING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | Sewer Asset Planning | CW | S2 | 03 | 1,194 | 1,000 | 1,000 | 0 | 0 | 3,194 | 0 | 3,194 | 0 | 0 | 0 | 0 | 3,194 | 0 | 0 | 0 | 0 | 3,194 |
| 0 | 7 | Sewer System Inspection | CW | S2 | 03 | 9,117 | 8,000 | 8,000 | 9,000 | 0 | 34,117 | 0 | 34,117 | 0 | 0 | 0 | 0 | 34,117 | 0 | 0 | 0 | 0 | 34,117 |
| 0 | 21 | PPD - INFRASTRUCTURE PLANNING STUDIES | CW | S4 | 05 | 150 | 150 | 0 | 0 | 0 | 300 | 0 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 300 |
| 0 | 23 | Sewer Asset Planning -2014 SC | CW | S3 | 03 | 54 | 825 | -385 | 0 | 0 | 494 | 0 | 494 | 0 | 0 | 296 | 0 | 198 | 0 | 0 | 0 | 0 | 494 |
| 0 | 24 | Sewer System Inspection -2014 SC | CW | S3 | 03 | -3,158 | 3,048 | 4,000 | 3,000 | 12,000 | 18,890 | 15,000 | 33,890 | 0 | 0 | 0 | 0 | 33,890 | 0 | 0 | 0 | 0 | 33,890 |
| | | Sub-total | | | | 7,357 | 13,023 | 12,615 | 12,000 | 12,000 | 56,995 | 15,000 | 71,995 | 0 | 0 | 296 | 0 | 71,699 | 0 | 0 | 0 | 0 | 71,995 |
| WAS906500 | NEW SEWER CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | NEW SEWERS | CW | S2 | 05 | 1,202 | 0 | 0 | 0 | 0 | 1,202 | 0 | 1,202 | 0 | 0 | 1,082 | 0 | 120 | 0 | 0 | 0 | 0 | 1,202 |
| 0 | 22 | NEW SEWERS -2014 SC | CW | S3 | 05 | -1,000 | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -334 | 0 | 334 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 202 | 1,000 | 0 | 0 | 0 | 1,202 | 0 | 1,202 | 0 | 0 | 748 | 0 | 454 | 0 | 0 | 0 | 0 | 1,202 |
| WAS906501 | YARD & BUILDING RENOVATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | YARD & BUILDING RENOVATION | CW | S2 | 04 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| 0 | 10 | YARD & BUILDING RENOVATION - 2014 SC | CW | S3 | 04 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | 0 | 0 | 0 | -100 |
| | | Sub-total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WAS906735 | DIST SEWER REHAB OPS YR2005 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 10 | GROUP 1 SEWAGE PUMPING STATION UPGRADES | CW | S2 | 03 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 800 | 0 | 0 | 61 | 0 | 739 | 0 | 0 | 0 | 0 | 800 |
| 0 | 15 | GROUP 1 SEWAGE PUMPING STATION UPGRADES -2014 SC | CW | S3 | 03 | -500 | 188 | 12 | 0 | 0 | -300 | 0 | -300 | 0 | 0 | -21 | 0 | -279 | 0 | 0 | 0 | 0 | -300 |
| | | Sub-total | | | | 300 | 188 | 12 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 40 | 0 | 460 | 0 | 0 | 0 | 0 | 500 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS906741 | HIGHLAND CREEK TP YR2005 | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | WAS THICKENING AND DEWATERING ENG | CW | S2 | 03 | 410 | 17 | 10 | 0 | 4 | 441 | 0 | 441 | 0 | 0 | 7 | 0 | 434 | 0 | 0 | 0 | 0 | 0 | 441 |
| 0 | 16 | WAS THICKENING AND DEWATERING ENG -2014 SC | CW | S3 | 03 | -160 | 300 | 303 | 0 | 1 | 444 | 0 | 444 | 0 | 0 | 64 | 0 | 380 | 0 | 0 | 0 | 0 | 0 | 444 |
| | | Sub-total | | | | 250 | 317 | 313 | 0 | 5 | 885 | 0 | 885 | 0 | 0 | 71 | 0 | 814 | 0 | 0 | 0 | 0 | 0 | 885 |
| WAS906742 | HUMBER TP YR2005 | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | HEADHOUSE UPGRADES Phase 1 | CW | S2 | 03 | 10 | 5 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 15 |
| 0 | 8 | ODOUR CONTROL ENGINEERING | CW | S2 | 04 | 982 | 600 | 101 | 0 | 0 | 1,683 | 0 | 1,683 | 0 | 0 | 16 | 0 | 1,667 | 0 | 0 | 0 | 0 | 0 | 1,683 |
| 0 | 51 | ODOUR CONTROL ENGINEERING -2014 SC | CW | S3 | 04 | 18 | 400 | 320 | 100 | 101 | 939 | 0 | 939 | 0 | 0 | -16 | 0 | 955 | 0 | 0 | 0 | 0 | 0 | 939 |
| 0 | 52 | HEADHOUSE UPGRADES Phase 1 - 2014 SC | CW | S3 | 03 | 508 | 15 | 0 | 0 | 0 | 523 | 0 | 523 | 0 | 0 | 44 | 0 | 479 | 0 | 0 | 0 | 0 | 0 | 523 |
| | | Sub-total | | | | 1,518 | 1,020 | 421 | 100 | 101 | 3,160 | 0 | 3,160 | 0 | 0 | 44 | 0 | 3,116 | 0 | 0 | 0 | 0 | 0 | 3,160 |
| WAS906743 | ASHRIDGES BAY TP YR2005 | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | Process & Equip Upgrades | CW | S2 | 03 | 450 | 165 | 540 | 830 | 0 | 1,985 | 0 | 1,985 | 0 | 0 | 59 | 0 | 1,926 | 0 | 0 | 0 | 0 | 0 | 1,985 |
| 0 | 48 | Process & Equip Upgrades -2014 SC | CW | S3 | 03 | -310 | 315 | -218 | -372 | 82 | -503 | 0 | -503 | 0 | 0 | 61 | 0 | -564 | 0 | 0 | 0 | 0 | 0 | -503 |
| 0 | 49 | M & T Retrofit -2014 SC | CW | S3 | 03 | -10 | 753 | 0 | 0 | 0 | 743 | 0 | 743 | 0 | 0 | 0 | 0 | 743 | 0 | 0 | 0 | 0 | 0 | 743 |
| 0 | 50 | SERVICE AIR UPGRADES -2014 SC | CW | S3 | 03 | -4,750 | 2,790 | 2,674 | 550 | 617 | 1,881 | 0 | 1,881 | 0 | 0 | 0 | 0 | 1,881 | 0 | 0 | 0 | 0 | 0 | 1,881 |
| 1 | 4 | M & T IMPROVEMENTS (EQUIPMENT) | CW | S2 | 03 | 1,827 | 0 | 0 | 0 | 0 | 1,827 | 0 | 1,827 | 0 | 0 | 0 | 0 | 1,827 | 0 | 0 | 0 | 0 | 0 | 1,827 |
| 1 | 7 | SERVICE AIR UPGRADES | CW | S2 | 03 | 7,150 | 1,210 | 176 | 0 | 0 | 8,536 | 0 | 8,536 | 0 | 0 | 0 | 0 | 8,536 | 0 | 0 | 0 | 0 | 0 | 8,536 |
| | | Sub-total | | | | 4,357 | 5,233 | 3,172 | 1,008 | 699 | 14,469 | 0 | 14,469 | 0 | 0 | 120 | 0 | 14,349 | 0 | 0 | 0 | 0 | 0 | 14,469 |
| WAS906755 | WESTERN BEACHES RETROFIT | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | WESTERN BEACHES RETROFIT | CW | S2 | 03 | 1,000 | 4,000 | 200 | 0 | 0 | 5,200 | 0 | 5,200 | 0 | 0 | 0 | 0 | 5,200 | 0 | 0 | 0 | 0 | 0 | 5,200 |
| 0 | 9 | WESTERN BEACHES RETROFIT -2014 SC | CW | S3 | 03 | -200 | -1,450 | 2,350 | 0 | 0 | 700 | 0 | 700 | 0 | 0 | 474 | 0 | 226 | 0 | 0 | 0 | 0 | 0 | 700 |
| | | Sub-total | | | | 800 | 2,550 | 2,550 | 0 | 0 | 5,900 | 0 | 5,900 | 0 | 0 | 474 | 0 | 5,426 | 0 | 0 | 0 | 0 | 0 | 5,900 |
| WAS906926 | OPERATIONAL SUPPORT | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | DIVISIONAL SECURITY | CW | S2 | 04 | 814 | 0 | 0 | 0 | 0 | 814 | 0 | 814 | 0 | 0 | 0 | 0 | 814 | 0 | 0 | 0 | 0 | 0 | 814 |
| 0 | 7 | RENOVATION - MERTON STREET | CW | S2 | 04 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 17 | Desginated Substance Abatement | CW | S2 | 02 | 173 | 0 | 0 | 0 | 0 | 173 | 0 | 173 | 0 | 0 | 0 | 0 | 173 | 0 | 0 | 0 | 0 | 0 | 173 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906926 | OPERATIONAL SUPPORT | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 23 | HAND HELD DEVICES - UPDATED | CW | S2 | 04 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 150 |
| 0 | 40 | WWTP PLC PLATFORM UPGRADE | CW | S2 | 04 | 3,000 | 4,000 | 5,000 | 5,000 | 4,500 | 21,500 | 0 | 21,500 | 0 | 0 | 0 | 0 | 21,500 | 0 | 0 | 0 | 0 | 21,500 |
| 0 | 82 | FACILITY RENOVATION -2014 SC | CW | S3 | 04 | 800 | 1,000 | 0 | 0 | 0 | 1,800 | 0 | 1,800 | 0 | 0 | 0 | 0 | 1,800 | 0 | 0 | 0 | 0 | 1,800 |
| 0 | 83 | WWTP PLC PLATFORM UPGRADE -2014 SC | CW | S3 | 04 | -1,000 | -800 | -500 | 0 | -200 | -2,500 | 500 | -2,000 | 0 | 0 | 0 | 0 | -2,000 | 0 | 0 | 0 | 0 | -2,000 |
| 0 | 84 | HAND HELD DEVICES - UPDATED - 2014 SC | CW | S3 | 04 | -150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 85 | DIVISIONAL SECURITY - 2014 SC | CW | S3 | 04 | -164 | 0 | 0 | 0 | 0 | -164 | 0 | -164 | 0 | 0 | 0 | 0 | -164 | 0 | 0 | 0 | 0 | -164 |
| 0 | 86 | RENOVATION - MERTON STREET - 2014 SC | CW | S3 | 04 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 0 | 87 | Desginated Substance Abatement - 2014 SC | CW | S3 | 02 | -73 | 0 | 0 | 0 | 0 | -73 | 0 | -73 | 0 | 0 | 0 | 0 | -73 | 0 | 0 | 0 | 0 | -73 |
| | | Sub-total | | | | 3,553 | 4,353 | 4,500 | 5,000 | 4,300 | 21,706 | 500 | 22,206 | 0 | 0 | 0 | 0 | 22,206 | 0 | 0 | 0 | 0 | 22,206 |
| WAS906958 | SEWER SYSTEM REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | Group 2 & 3 Sewage P.S. Upgrades | CW | S2 | 03 | 14 | 31 | 0 | 0 | 0 | 45 | 0 | 45 | 0 | 0 | 3 | 0 | 42 | 0 | 0 | 0 | 0 | 45 |
| 0 | 5 | CCTV Inspection | CW | S2 | 03 | 1,123 | 1,000 | 0 | 0 | 0 | 2,123 | 0 | 2,123 | 0 | 0 | 0 | 0 | 2,123 | 0 | 0 | 0 | 0 | 2,123 |
| 0 | 6 | LATERAL REHAB | CW | S2 | 03 | 399 | 0 | 0 | 0 | 0 | 399 | 0 | 399 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 0 | 0 | 399 |
| 0 | 8 | SPS SCADA UPGRADES - ENGINEERING | CW | S2 | 04 | 1,202 | 315 | 13 | 12 | 0 | 1,542 | 0 | 1,542 | 0 | 0 | 0 | 0 | 1,542 | 0 | 0 | 0 | 0 | 1,542 |
| 0 | 9 | SEWER REHABILITATION | CW | S2 | 03 | 18,873 | 30,000 | 0 | 0 | 0 | 48,873 | 0 | 48,873 | 0 | 0 | 0 | 0 | 48,873 | 0 | 0 | 0 | 0 | 48,873 |
| 0 | 23 | SEWAGE PUMPING STATION STANDBY POWER | CW | S2 | 02 | 1,925 | 0 | 0 | 0 | 0 | 1,925 | 0 | 1,925 | 0 | 0 | 0 | 0 | 1,925 | 0 | 0 | 0 | 0 | 1,925 |
| 0 | 24 | GROUP 5 SEWAGE PUMPING STATION CAPACITY UPGRADES | CW | S2 | 05 | 3,675 | 0 | 1,700 | 1,800 | 1,700 | 8,875 | 0 | 8,875 | 0 | 0 | 666 | 0 | 8,209 | 0 | 0 | 0 | 0 | 8,875 |
| 0 | 60 | Group 2 & 3 Sewage P.S. Upgrades -2014 SC | CW | S3 | 03 | -8 | 3 | 0 | 0 | 0 | -5 | 0 | -5 | 0 | 0 | 0 | 0 | -5 | 0 | 0 | 0 | 0 | -5 |
| 0 | 61 | CCTV Inspection -2014 SC | CW | S3 | 03 | -223 | 0 | 1,000 | 0 | 0 | 777 | 0 | 777 | 0 | 0 | 0 | 0 | 777 | 0 | 0 | 0 | 0 | 777 |
| 0 | 62 | LATERAL REHAB -2014 SC | CW | S3 | 03 | 396 | 0 | 0 | 0 | 0 | 396 | 0 | 396 | 0 | 0 | 0 | 0 | 396 | 0 | 0 | 0 | 0 | 396 |
| 0 | 63 | SPS SCADA UPGRADES - ENGINEERING -2014 SC | CW | S3 | 04 | -587 | 285 | 0 | 0 | 0 | -302 | 0 | -302 | 0 | 0 | 99 | 0 | -401 | 0 | 0 | 0 | 0 | -302 |
| 0 | 64 | SEWER REHABILITATION -2014 SC | CW | S3 | 03 | 3,287 | -2,039 | 37,700 | 37,700 | 0 | 76,648 | 0 | 76,648 | 0 | 0 | 0 | 0 | 76,648 | 0 | 0 | 0 | 0 | 76,648 |
| 0 | 65 | SEWAGE PUMPING STATION STANDBY POWER -2014 SC | CW | S3 | 02 | -585 | 810 | 0 | 0 | 0 | 225 | 0 | 225 | 0 | 0 | 173 | 0 | 52 | 0 | 0 | 0 | 0 | 225 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906958 | SEWER SYSTEM REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 66 | GROUP 5 SEWAGE PS CAPACITY UPGRADES -2014 SC | CW | S3 | 05 | -3,350 | 3,250 | 4,550 | 3,450 | 2,320 | 10,220 | 20 | 10,240 | 0 | 0 | 874 | 0 | 9,366 | 0 | 0 | 0 | 0 | 0 | 10,240 |
| | | Sub-total | | | | 26,141 | 33,655 | 44,963 | 42,962 | 4,020 | 151,741 | 20 | 151,761 | 0 | 0 | 1,815 | 0 | 149,946 | 0 | 0 | 0 | 0 | 0 | 151,761 |
| WAS906960 | STREAM RESTORATION & EROSION CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | HIGHLAND CREEK STREAM RESTORATION | CW | S2 | 04 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 1,000 | 0 | 0 | 100 | 0 | 900 | 0 | 0 | 0 | 0 | 0 | 1,000 |
| 0 | 7 | STREAM RESTORATION | CW | S2 | 03 | 4,788 | 7,500 | 0 | 0 | 0 | 12,288 | 0 | 12,288 | 0 | 0 | 1,228 | 0 | 11,060 | 0 | 0 | 0 | 0 | 0 | 12,288 |
| 0 | 26 | STREAM RESTORATION-CRITICAL LOCATIONS | CW | S2 | 03 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | 50 | 0 | 450 | 0 | 0 | 0 | 0 | 0 | 500 |
| 0 | 31 | HIGHLAND CREEK STREAM RESTORATION -2014 SC | CW | S3 | 04 | 40 | 1,000 | 0 | 0 | 0 | 1,040 | 0 | 1,040 | 0 | 0 | 64 | 0 | 976 | 0 | 0 | 0 | 0 | 0 | 1,040 |
| 0 | 32 | STREAM RESTORATION -2014 SC | CW | S3 | 03 | 1,712 | 0 | 5,370 | 2,500 | 310 | 9,892 | 950 | 10,842 | 0 | 0 | 634 | 0 | 10,208 | 0 | 0 | 0 | 0 | 0 | 10,842 |
| 0 | 33 | STREAM RESTORATION-CRITICAL LOCATIONS -2014 SC | CW | S3 | 03 | 0 | 500 | 0 | 0 | 0 | 500 | 0 | 500 | 0 | 0 | -50 | 0 | 550 | 0 | 0 | 0 | 0 | 0 | 500 |
| | | Sub-total | | | | 8,040 | 9,000 | 5,370 | 2,500 | 310 | 25,220 | 950 | 26,170 | 0 | 0 | 2,026 | 0 | 24,144 | 0 | 0 | 0 | 0 | 0 | 26,170 |
| WAS906964 | CONVEYANCE CONTROLS - REPLC & REHAB | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 9 | 2008 STORM SEWER REHABILITATION | CW | S2 | 03 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 18 | COATSWORTH CUT - PHASE 1 CONSTRUCTION | CW | S2 | 04 | 43 | 110 | 110 | 110 | 0 | 373 | 0 | 373 | 0 | 0 | 37 | 0 | 336 | 0 | 0 | 0 | 0 | 0 | 373 |
| 0 | 26 | COATSWORTH CUT - PHASE 1 CONSTRUCTION -2014 SC | CW | S3 | 04 | 0 | -90 | -110 | -110 | 0 | -310 | 0 | -310 | 0 | 0 | -37 | 0 | -273 | 0 | 0 | 0 | 0 | 0 | -310 |
| 0 | 27 | 2008 STORM SEWER REHABILITATION - 2014 SC | CW | S3 | 03 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| | | Sub-total | | | | 65 | 20 | 0 | 0 | 0 | 85 | 0 | 85 | 0 | 0 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 85 |
| WAS906966 | SWM TRCA FUNDING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 17 | TRCA FUNDING - 2014 SC | CW | S3 | 04 | 3,970 | 0 | 0 | 0 | 0 | 3,970 | 0 | 3,970 | 0 | 0 | 320 | 0 | 3,650 | 0 | 0 | 0 | 0 | 0 | 3,970 |
| | | Sub-total | | | | 3,970 | 0 | 0 | 0 | 0 | 3,970 | 0 | 3,970 | 0 | 0 | 320 | 0 | 3,650 | 0 | 0 | 0 | 0 | 0 | 3,970 |
| WAS906968 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | CONSULTING FEES | CW | S2 | 03 | 2,928 | 2,000 | 0 | 0 | 0 | 4,928 | 0 | 4,928 | 0 | 0 | 0 | 0 | 4,928 | 0 | 0 | 0 | 0 | 0 | 4,928 |
| 0 | 31 | ROAD RESTORATION | CW | S2 | 03 | 1,118 | 0 | 0 | 0 | 0 | 1,118 | 0 | 1,118 | 0 | 0 | 0 | 0 | 1,118 | 0 | 0 | 0 | 0 | 0 | 1,118 |
| 0 | 51 | CONSULTING FEES-2014 SC | CW | S3 | 03 | 27 | 3,298 | 6,874 | 5,912 | 5,445 | 21,556 | 9,176 | 30,732 | 0 | 0 | 0 | 0 | 30,732 | 0 | 0 | 0 | 0 | 0 | 30,732 |
| 0 | 52 | ECS SALARIES | CW | S4 | 03 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 0 | 0 | 0 | 0 | 12,033 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906968 | ENGINEERING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 53 | ROAD RESTORATION - 2014 SC | CW | S3 | 03 | 1,534 | 0 | 0 | 0 | 0 | 1,534 | 0 | 1,534 | 0 | 0 | 0 | 0 | 1,534 | 0 | 0 | 0 | 0 | 0 | 1,534 |
| | | Sub-total | | | | 17,640 | 5,298 | 6,874 | 5,912 | 5,445 | 41,169 | 9,176 | 50,345 | 0 | 0 | 0 | 0 | 50,345 | 0 | 0 | 0 | 0 | 0 | 50,345 |
| WAS906973 | SEWER REPLACEMENT PROGRAM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 24 | SEWAGE FORCEMAIN REPLACEMENT | CW | S2 | 03 | 4,243 | 0 | 0 | 0 | 0 | 4,243 | 0 | 4,243 | 0 | 0 | 0 | 0 | 4,243 | 0 | 0 | 0 | 0 | 0 | 4,243 |
| 0 | 25 | SEWER REPLACEMENT 2012 | CW | S2 | 03 | 1,700 | 0 | 0 | 0 | 0 | 1,700 | 0 | 1,700 | 0 | 0 | 170 | 0 | 1,530 | 0 | 0 | 0 | 0 | 0 | 1,700 |
| 0 | 35 | SEWER REPLACMENT - 2013 PROGRAM | CW | S2 | 03 | 16,748 | 0 | 0 | 0 | 0 | 16,748 | 0 | 16,748 | 0 | 0 | 0 | 0 | 16,748 | 0 | 0 | 0 | 0 | 0 | 16,748 |
| 0 | 36 | SEWER REPLACEMENT -2014 | CW | S4 | 03 | 13,132 | 6,596 | 2,000 | 0 | 0 | 21,728 | 0 | 21,728 | 0 | 0 | 0 | 0 | 21,728 | 0 | 0 | 0 | 0 | 0 | 21,728 |
| 0 | 44 | COXWELL TRUNK EMERGENCY REPAIR | CW | S2 | 03 | 1,747 | 1,541 | 0 | 0 | 0 | 3,288 | 0 | 3,288 | 0 | 0 | 0 | 0 | 3,288 | 0 | 0 | 0 | 0 | 0 | 3,288 |
| 0 | 46 | WATERFRONT STORMWATER INFRASTRUCTURE | CW | S2 | 04 | 11,750 | 0 | 0 | 0 | 0 | 11,750 | 0 | 11,750 | 0 | 0 | 4,860 | 0 | 6,890 | 0 | 0 | 0 | 0 | 0 | 11,750 |
| 0 | 47 | WATERFRONT SANITARY SERVICING INFRASTRUCTURE | CW | S2 | 04 | 16,020 | 0 | 0 | 0 | 0 | 16,020 | 0 | 16,020 | 0 | 0 | 10,480 | 0 | 5,540 | 0 | 0 | 0 | 0 | 0 | 16,020 |
| 0 | 48 | SEWER REPLACEMENT 2012 -2014 SC | CW | S3 | 03 | -1,059 | 2,122 | 0 | 0 | 0 | 1,063 | 0 | 1,063 | 0 | 0 | -170 | 0 | 1,233 | 0 | 0 | 0 | 0 | 0 | 1,063 |
| 0 | 49 | SEWER REPLACMENT - 2013 PROGRAM -2014 SC | CW | S3 | 03 | -9,278 | 4,522 | 0 | 0 | 0 | -4,756 | 0 | -4,756 | 0 | 0 | 965 | 0 | -5,721 | 0 | 0 | 0 | 0 | 0 | -4,756 |
| 0 | 52 | SEWER REPLACEMENT - METROLINX | CW | S4 | 03 | 50 | 2,195 | 1,608 | 1,096 | 603 | 5,552 | 0 | 5,552 | 0 | 0 | 0 | 0 | 5,552 | 0 | 0 | 0 | 0 | 0 | 5,552 |
| 0 | 54 | SEWAGE FORCEMAIN REPLACEMENT - 2014 SC | CW | S3 | 03 | -3,243 | 1,000 | 0 | 0 | 0 | -2,243 | 0 | -2,243 | 0 | 0 | 0 | 0 | -2,243 | 0 | 0 | 0 | 0 | 0 | -2,243 |
| 0 | 55 | SEWER REPLACEMENT - LESLIE ST | CW | S4 | 03 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| 0 | 56 | COXWELL TRUNK EMERGENCY REPAIR - 2014 SC | CW | S3 | 03 | -747 | 0 | 0 | 0 | 0 | -747 | 0 | -747 | 0 | 0 | 0 | 0 | -747 | 0 | 0 | 0 | 0 | 0 | -747 |
| | | Sub-total | | | | 61,063 | 17,976 | 3,608 | 1,096 | 603 | 84,346 | 0 | 84,346 | 0 | 0 | 16,305 | 0 | 68,041 | 0 | 0 | 0 | 0 | 0 | 84,346 |
| WAS906980 | ASHBRIDGES BAY T.P. YR2006 | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | MEDIATION AGREEMENT IMPLEMENTATION - PART 2 | CW | S2 | 04 | 45 | 25 | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 0 | 3 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0 | 9 | DEWATERING EQUIPMENT UPGRADES | CW | S2 | 03 | 2,580 | 143 | 10 | 0 | 0 | 2,733 | 0 | 2,733 | 0 | 0 | 81 | 0 | 2,652 | 0 | 0 | 0 | 0 | 0 | 2,733 |
| 0 | 34 | MEDIATION AGREEMENT IMPLEMENTATION-PART 2 -2014 SC | CW | S3 | 04 | -20 | 0 | 0 | 0 | 0 | -20 | 0 | -20 | 0 | 0 | 1 | 0 | -21 | 0 | 0 | 0 | 0 | 0 | -20 |
| 0 | 35 | DEWATERING EQUIPMENT UPGRADES -2014 SC | CW | S3 | 03 | -1,780 | 1,467 | 2,216 | 0 | 0 | 1,903 | 0 | 1,903 | 0 | 0 | 292 | 0 | 1,611 | 0 | 0 | 0 | 0 | 0 | 1,903 |
| | | Sub-total | | | | 825 | 1,635 | 2,226 | 0 | 0 | 4,686 | 0 | 4,686 | 0 | 0 | 377 | 0 | 4,309 | 0 | 0 | 0 | 0 | 0 | 4,686 |
| WAS906981 | HIGHLAND CREEK WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | PROCESS & FACILITY UPGRADE | CW | S2 | 04 | 3,095 | 850 | 810 | 240 | 0 | 4,995 | 0 | 4,995 | 0 | 0 | 0 | 0 | 4,995 | 0 | 0 | 0 | 0 | 0 | 4,995 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS906981 | HIGHLAND CREEK WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | BIOSOLIDS TREATMENT UPGRADES | CW | S2 | 03 | 25,530 | 21,007 | 20,700 | 14,021 | 30 | 81,288 | 0 | 81,288 | 0 | 0 | 1,625 | 0 | 79,663 | 0 | 0 | 0 | 0 | 0 | 81,288 |
| 0 | 5 | TRANSFORMERS AND SWITCHGEAR | CW | S2 | 05 | 0 | 0 | 1,000 | 1,250 | 1,690 | 3,940 | 1,200 | 5,140 | 0 | 0 | 0 | 0 | 5,140 | 0 | 0 | 0 | 0 | 0 | 5,140 |
| 0 | 7 | MECH & ELECTRICAL UPGRADE ENGINEERING | CW | S2 | 03 | 1,452 | 685 | 0 | 0 | 0 | 2,137 | 0 | 2,137 | 0 | 0 | 0 | 0 | 2,137 | 0 | 0 | 0 | 0 | 0 | 2,137 |
| 0 | 8 | DIGESTER GAS SYSTEM UPGRADES | CW | S2 | 03 | 1,830 | 4,950 | 4,680 | 50 | 0 | 11,510 | 0 | 11,510 | 0 | 0 | 0 | 0 | 11,510 | 0 | 0 | 0 | 0 | 0 | 11,510 |
| 0 | 16 | MECH SYSTEMS UPGRADES - CONSTR | CW | S2 | 03 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 1,200 | 0 | 0 | 0 | 0 | 1,200 | 0 | 0 | 0 | 0 | 0 | 1,200 |
| 0 | 23 | ELECTRICAL UPGRADES-ECAR | CW | S2 | 03 | 2,430 | 2,381 | 9,065 | 0 | 0 | 13,876 | 0 | 13,876 | 0 | 0 | 0 | 0 | 13,876 | 0 | 0 | 0 | 0 | 0 | 13,876 |
| 0 | 31 | ELEC SYSTEM UPGRADES - CONSTR | CW | S2 | 03 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 32 | CEPA COMPLIANCE -HCTP - 2014 SC | CW | S3 | 02 | 200 | 2,000 | 300 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 0 | 0 | 2,500 | 0 | 0 | 0 | 0 | 0 | 2,500 |
| 0 | 72 | PROCESS & FACILITY UPGRADE -2014 SC | CW | S3 | 04 | -795 | 1,930 | 513 | 370 | 620 | 2,638 | 1,079 | 3,717 | 0 | 0 | 0 | 0 | 3,717 | 0 | 0 | 0 | 0 | 0 | 3,717 |
| 0 | 73 | BIOSOLIDS TREATMENT UPGRADES -2014 SC | CW | S3 | 03 | -18,772 | -10,115 | -50 | 6,060 | 9,120 | -13,757 | 30 | -13,727 | 0 | 0 | 3,838 | 0 | -17,565 | 0 | 0 | 0 | 0 | 0 | -13,727 |
| 0 | 74 | TRANSFORMERS AND SWITCHGEAR -2014 SC | CW | S3 | 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 414 | 0 | -414 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 75 | MECH & ELECTRICAL UPGRADE ENGINEERING -2014 SC | CW | S3 | 03 | -1,027 | 782 | 57 | 0 | 0 | -188 | 0 | -188 | 0 | 0 | 0 | 0 | -188 | 0 | 0 | 0 | 0 | 0 | -188 |
| 0 | 76 | MECH SYSTEMS UPGRADES - CONSTR -2014 SC | CW | S3 | 03 | -1,000 | 1,031 | 0 | 0 | 0 | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 31 |
| 0 | 77 | ELEC SYSTEM UPGRADES - CONSTR -2014 SC | CW | S3 | 03 | -1,800 | 1,076 | 0 | 0 | 0 | -724 | 0 | -724 | 0 | 0 | 0 | 0 | -724 | 0 | 0 | 0 | 0 | 0 | -724 |
| 0 | 78 | DIGESTER GAS SYSTEM UPGRADES -2014 SC | CW | S3 | 03 | -1,630 | -3,280 | 270 | 4,630 | 50 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 40 |
| 0 | 79 | ELECTRICAL UPGRADES-ECAR -2014 SC | CW | S3 | 03 | -218 | -41 | -5,930 | 590 | 2,720 | -2,879 | 4,800 | 1,921 | 0 | 0 | 0 | 0 | 1,921 | 0 | 0 | 0 | 0 | 0 | 1,921 |
| 0 | 82 | DIGESTERS CLEANING REHAB 10 YEAR PLAN | CW | S4 | 03 | 1,600 | 2,000 | 0 | 0 | 0 | 3,600 | 0 | 3,600 | 0 | 0 | 0 | 0 | 3,600 | 0 | 0 | 0 | 0 | 0 | 3,600 |
| 0 | 83 | PLANT FIRM CAPACITY - CONCEPT DESIGN | CW | S4 | 03 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 0 | 400 |
| | | Sub-total | | | | 15,995 | 25,256 | 31,415 | 27,211 | 14,230 | 114,107 | 7,109 | 121,216 | 0 | 0 | 5,877 | 0 | 115,339 | 0 | 0 | 0 | 0 | 0 | 121,216 |
| WAS906982 | HUMBER WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | BUILDING UPGRADE ENGINEERING | CW | S2 | 03 | 34 | 0 | 0 | 0 | 0 | 34 | 0 | 34 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0 | 2 | Chlorine Building Upgrade | CW | S2 | 01 | 5,226 | 36 | 0 | 0 | 0 | 5,262 | 0 | 5,262 | 0 | 0 | 0 | 0 | 5,262 | 0 | 0 | 0 | 0 | 0 | 5,262 |
| 0 | 5 | FLOOD PROTECTION | CW | S2 | 02 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 150 |
| 0 | 6 | NEW SUBSTATION | CW | S2 | 03 | 7,934 | 0 | 0 | 0 | 0 | 7,934 | 0 | 7,934 | 0 | 0 | 0 | 0 | 7,934 | 0 | 0 | 0 | 0 | 0 | 7,934 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS906982 | HUMBER WWTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS | CW | S2 | 01 | 3,842 | 4,000 | 4,750 | 2,000 | 2,700 | 17,292 | 5,300 | 22,592 | 0 | 0 | 0 | 0 | 22,592 | 0 | 0 | 0 | 0 | 22,592 |
| 0 | 8 | NEW GROUNDSKEEPING BUILDING and RAS Control Room | CW | S2 | 01 | 1,490 | 0 | 0 | 0 | 0 | 1,490 | 0 | 1,490 | 0 | 0 | 0 | 0 | 1,490 | 0 | 0 | 0 | 0 | 1,490 |
| 0 | 20 | BLDG & GROUNDS UPGRADE | CW | S2 | 03 | 320 | 376 | 0 | 0 | 0 | 696 | 0 | 696 | 0 | 0 | 0 | 0 | 696 | 0 | 0 | 0 | 0 | 696 |
| 0 | 29 | ADMIN BUILDING EXPANSION | CW | S4 | 04 | 100 | 250 | 400 | 0 | 0 | 750 | 0 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 750 |
| 0 | 52 | HVAC UPGRADES | CW | S2 | 03 | 1,146 | 210 | 0 | 0 | 0 | 1,356 | 0 | 1,356 | 0 | 0 | 0 | 0 | 1,356 | 0 | 0 | 0 | 0 | 1,356 |
| 0 | 62 | Chlorine Building Upgrade -2014 SC | CW | S3 | 01 | -826 | 2,230 | 25 | 25 | 0 | 1,454 | 0 | 1,454 | 0 | 0 | 0 | 0 | 1,454 | 0 | 0 | 0 | 0 | 1,454 |
| 0 | 63 | ELECTRICAL CONDITION ASSESSMENT REC -2014 SC | CW | S3 | 01 | -2,167 | -1,871 | -1,225 | 425 | -450 | -5,288 | -1,800 | -7,088 | 0 | 0 | 0 | 0 | -7,088 | 0 | 0 | 0 | 0 | -7,088 |
| 0 | 64 | NEW SUBSTATION -2014 SC | CW | S3 | 03 | -4,971 | 2,080 | 3,015 | 0 | 0 | 124 | 0 | 124 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 124 |
| 0 | 65 | BLDG & GROUNDS UPGRADE -2014 SC | CW | S3 | 03 | -320 | -376 | 0 | 0 | 0 | -696 | 0 | -696 | 0 | 0 | 0 | 0 | -696 | 0 | 0 | 0 | 0 | -696 |
| 0 | 66 | HVAC UPGRADES -2014 SC | CW | S3 | 03 | -546 | 3,290 | 1,620 | 20 | 10 | 4,394 | 0 | 4,394 | 0 | 0 | 0 | 0 | 4,394 | 0 | 0 | 0 | 0 | 4,394 |
| 0 | 70 | FLOOD PROTECTION - 2014 SC | CW | S3 | 02 | 0 | 250 | 0 | 0 | 0 | 250 | 0 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 250 |
| 0 | 71 | BUILDING UPGRADE ENGINEERING - 2014 SC | CW | S3 | 03 | 218 | 0 | 0 | 0 | 0 | 218 | 0 | 218 | 0 | 0 | 0 | 0 | 218 | 0 | 0 | 0 | 0 | 218 |
| 0 | 72 | NEW GROUNDSKEEPING BDLG & RAS CONTROL - 2014 SC | CW | S3 | 01 | -40 | 350 | 0 | 0 | 0 | 310 | 0 | 310 | 0 | 0 | 0 | 0 | 310 | 0 | 0 | 0 | 0 | 310 |
| | | Sub-total | | | | 11,590 | 10,825 | 8,585 | 2,470 | 2,260 | 35,730 | 3,500 | 39,230 | 0 | 0 | 0 | 0 | 39,230 | 0 | 0 | 0 | 0 | 39,230 |
| WAS906994 | HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | HCTP BIOSOLIDS IMPLEMENTATION - ENGINEERING | CW | S2 | 04 | 1,911 | 5,000 | 4,200 | 3,000 | 3,000 | 17,111 | 4,300 | 21,411 | 0 | 0 | 428 | 0 | 20,983 | 0 | 0 | 0 | 0 | 21,411 |
| 0 | 3 | WAS THICKENING AND DEWATERING CONSTR | CW | S2 | 03 | 4,733 | 0 | 16 | 0 | 0 | 4,749 | 0 | 4,749 | 0 | 0 | 95 | 0 | 4,654 | 0 | 0 | 0 | 0 | 4,749 |
| 0 | 11 | WAS THICKENING AND DEWATERING CONSTR -2014 SC | CW | S3 | 03 | -3,083 | 3,000 | 4,031 | 0 | 0 | 3,948 | 0 | 3,948 | 0 | 0 | 606 | 0 | 3,342 | 0 | 0 | 0 | 0 | 3,948 |
| 0 | 12 | HCTP - BIOSOLIDS IMPLEMENTATION - ENG -2014 SC | CW | S3 | 04 | -711 | -700 | -1,200 | 0 | 0 | -2,611 | -1,800 | -4,411 | 0 | 0 | 939 | 0 | -5,350 | 0 | 0 | 0 | 0 | -4,411 |
| | | Sub-total | | | | 2,850 | 7,300 | 7,047 | 3,000 | 3,000 | 23,197 | 2,500 | 25,697 | 0 | 0 | 2,068 | 0 | 23,629 | 0 | 0 | 0 | 0 | 25,697 |
| WAS907038 | Land Acquisition for Source Water Protect | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | EROSION PROTECTION & LAND ACQUISITION | CW | S2 | 04 | 2,000 | 2,000 | 0 | 0 | 0 | 4,000 | 0 | 4,000 | 0 | 0 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 4,000 |
| 0 | 11 | EROSION PROTECTION & LAND ACQUISITION -2014 SC | CW | S3 | 04 | 5,000 | 5,000 | 0 | 0 | 0 | 10,000 | 0 | 10,000 | 0 | 0 | 1,128 | 0 | 8,872 | 0 | 0 | 0 | 0 | 10,000 |
| | | Sub-total | | | | 7,000 | 7,000 | 0 | 0 | 0 | 14,000 | 0 | 14,000 | 0 | 0 | 1,128 | 0 | 12,872 | 0 | 0 | 0 | 0 | 14,000 |
| WAS907097 | ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WAS907097 | ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 7 | CONTROLLED SUBSTANCE IDENTIFICATION AND ABATEMENT | 32 | S2 | 02 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 270 |
| 0 | 19 | CITY IMPROVEMENTS RE: TH COGEN | CW | S2 | 04 | 1,020 | 1,300 | 2,500 | 2,200 | 1,000 | 8,020 | 50 | 8,070 | 0 | 0 | 0 | 0 | 8,070 | 0 | 0 | 0 | 0 | 0 | 8,070 |
| 0 | 21 | BLOWER BLDG AND OLD NORTH SUBSTAION IMPROVEMENTS | CW | S2 | 04 | 0 | 0 | 700 | 1,760 | 1,950 | 4,410 | 1,105 | 5,515 | 0 | 0 | 0 | 0 | 5,515 | 0 | 0 | 0 | 0 | 0 | 5,515 |
| 0 | 45 | CONTROLLED SUBSTANCE IDENTIFICATION - 2014 SC | CW | S3 | 02 | 0 | 270 | 0 | 0 | 0 | 270 | 0 | 270 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 270 |
| 0 | 46 | CITY IMPROVEMENTS RE: TH COGEN -2014 SC | CW | S3 | 04 | -870 | -400 | -1,200 | 300 | 1,200 | -970 | 1,000 | 30 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 30 |
| 0 | 49 | BLOWER BLDG & OLD NORTH SUBSTAION IMPROV - 2014 SC | CW | S3 | 04 | 700 | 1,950 | 2,105 | -1,700 | -1,950 | 1,105 | -1,105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Sub-total | | | | 1,120 | 3,120 | 4,105 | 2,560 | 2,200 | 13,105 | 1,050 | 14,155 | 0 | 0 | 0 | 0 | 14,155 | 0 | 0 | 0 | 0 | 0 | 14,155 |
| WAS907098 | ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | ABTP DISINFECTION ENGINEERING | CW | S2 | 02 | 4,498 | 5,260 | 4,000 | 4,000 | 1,720 | 19,478 | 20 | 19,498 | 0 | 0 | 586 | 0 | 18,912 | 0 | 0 | 0 | 0 | 0 | 19,498 |
| 0 | 13 | ABTP OUTFALL ASSESSMENT | CW | S2 | 02 | 688 | 0 | 0 | 0 | 0 | 688 | 0 | 688 | 0 | 0 | 20 | 0 | 668 | 0 | 0 | 0 | 0 | 0 | 688 |
| 0 | 19 | ABTP DISINFECTION ENGINEERING -2014 SC | CW | S3 | 02 | -3,498 | -3,611 | -500 | 410 | -110 | -7,309 | 1,119 | -6,190 | 0 | 0 | 486 | 0 | -6,676 | 0 | 0 | 0 | 0 | 0 | -6,190 |
| 0 | 20 | ABTP OUTFALL ASSESSMENT -2014 SC | CW | S3 | 02 | -475 | 1,300 | 0 | 0 | 0 | 825 | 0 | 825 | 0 | 0 | 102 | 0 | 723 | 0 | 0 | 0 | 0 | 0 | 825 |
| | | Sub-total | | | | 1,213 | 2,949 | 3,500 | 4,410 | 1,610 | 13,682 | 1,139 | 14,821 | 0 | 0 | 1,194 | 0 | 13,627 | 0 | 0 | 0 | 0 | 0 | 14,821 |
| WAS907099 | ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | FINE BUBBLE AERATION IMPLEMENTATION | CW | S2 | 03 | 12,450 | 4,000 | 0 | 0 | 0 | 16,450 | 0 | 16,450 | 0 | 0 | 494 | 0 | 15,956 | 0 | 0 | 0 | 0 | 0 | 16,450 |
| 0 | 3 | PRIMARY TREATMENT UPGRADE CONT #1 | CW | S2 | 03 | 37,680 | 35,200 | 30,200 | 29,200 | 0 | 132,280 | 0 | 132,280 | 0 | 0 | 3,969 | 0 | 128,311 | 0 | 0 | 0 | 0 | 0 | 132,280 |
| 0 | 6 | M & T PUMPING STATION CRITICAL REPAIRS | CW | S4 | 03 | 1,200 | 4,500 | 2,670 | 0 | 0 | 8,370 | 0 | 8,370 | 0 | 0 | 0 | 0 | 8,370 | 0 | 0 | 0 | 0 | 0 | 8,370 |
| 0 | 7 | Primary and Secondary Tanks Rehabilitation | CW | S2 | 03 | 414 | 0 | 0 | 0 | 0 | 414 | 4,618 | 5,032 | 0 | 0 | 156 | 0 | 4,876 | 0 | 0 | 0 | 0 | 0 | 5,032 |
| 0 | 10 | INTERGRATED PUMPING STATION - ENGINEERING | CW | S2 | 03 | 4,144 | 9,955 | 4,005 | 3,000 | 3,000 | 24,104 | 11,000 | 35,104 | 0 | 0 | 1,053 | 0 | 34,051 | 0 | 0 | 0 | 0 | 0 | 35,104 |
| 0 | 12 | WORK AREA 1 REHAB | CW | S2 | 03 | 20 | 20 | 0 | 0 | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 40 |
| 0 | 13 | WORK AREA 5 REHAB | CW | S2 | 03 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 0 | 400 |
| 0 | 39 | INTEGRATED PUMPING STATION - CONSTRUCTION | CW | S2 | 03 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 105 | 0 | 3,395 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 | 45 | WORK AREA 1 REHAB-2014 SC | CW | S3 | 03 | 175 | -18 | 0 | 0 | 0 | 157 | 0 | 157 | 0 | 0 | 0 | 0 | 157 | 0 | 0 | 0 | 0 | 0 | 157 |
| 0 | 46 | WORK AREA 5 REHAB-2014 SC | CW | S3 | 03 | -400 | 0 | 0 | 0 | 0 | -400 | 0 | -400 | 0 | 0 | 0 | 0 | -400 | 0 | 0 | 0 | 0 | 0 | -400 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS907099 | ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 51 | FINE BUBBLE AERATION IMPLEMENTATION -2014 SC | CW | S3 | 03 | -10,000 | 5,500 | 8,000 | 0 | 0 | 3,500 | 0 | 3,500 | 0 | 0 | 1,112 | 0 | 2,388 | 0 | 0 | 0 | 0 | 0 | 3,500 |
| 0 52 | INTEGRATED PUMPING STATION - ENGINEERING -2014 SC | CW | S3 | 03 | -2,236 | -5,455 | 3,045 | 4,050 | 4,000 | 3,404 | 10,233 | 13,637 | 0 | 0 | -1,053 | 0 | 14,690 | 0 | 0 | 0 | 0 | 0 | 13,637 |
| 0 53 | PRIMARY TREATMENT UPGRADE CONT #1 -2014 SC | CW | S3 | 03 | -16,980 | -9,225 | -200 | 4,300 | 28,000 | 5,895 | 0 | 5,895 | 0 | 0 | 7,150 | 0 | -1,255 | 0 | 0 | 0 | 0 | 0 | 5,895 |
| 0 54 | INTEGRATED PUMPING STATION - CONS -2014 SC | CW | S3 | 03 | -3,500 | 0 | 10,000 | 35,000 | 45,000 | 86,500 | 235,000 | 321,500 | 0 | 0 | -105 | 0 | 321,605 | 0 | 0 | 0 | 0 | 0 | 321,500 |
| 0 55 | Primary and Secondary Tanks Rehab -2014 SC | CW | S3 | 03 | 1,486 | 1,100 | 100 | 0 | 0 | 2,686 | -4,618 | -1,932 | 0 | 0 | 95 | 0 | -2,027 | 0 | 0 | 0 | 0 | 0 | -1,932 |
| | Sub-total | | | | 28,353 | 45,577 | 57,820 | 75,550 | 80,000 | 287,300 | 256,233 | 543,533 | 0 | 0 | 12,976 | 0 | 530,557 | 0 | 0 | 0 | 0 | 0 | 543,533 |
| WAS907100 | ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 3 | WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING | CW | S2 | 03 | 3,760 | 2,800 | 2,200 | 2,000 | 2,000 | 12,760 | 4,100 | 16,860 | 0 | 0 | 506 | 0 | 16,354 | 0 | 0 | 0 | 0 | 0 | 16,860 |
| 0 4 | DIGESTERS 9-12 REFURBISHMENT | CW | S2 | 03 | 5,320 | 13,510 | 12,310 | 40 | 30 | 31,210 | 0 | 31,210 | 0 | 0 | 935 | 0 | 30,275 | 0 | 0 | 0 | 0 | 0 | 31,210 |
| 0 8 | BIOSOLIDS PELLETIZER RETROFIT | CW | S2 | 03 | 400 | 400 | 0 | 0 | 0 | 800 | 0 | 800 | 0 | 0 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | 0 | 800 |
| 0 25 | PELLETIZER TRUCK LOADING FACILITY UPGRADES | CW | S2 | 03 | 1,480 | 0 | 0 | 0 | 0 | 1,480 | 0 | 1,480 | 0 | 0 | 0 | 0 | 1,480 | 0 | 0 | 0 | 0 | 0 | 1,480 |
| 0 28 | DIGESTERS 9-12 REFURBISHMENT -2014 SC | CW | S3 | 03 | -4,670 | -13,160 | -1,310 | 10,970 | 8,280 | 110 | 70 | 180 | 0 | 0 | 1,590 | 0 | -1,410 | 0 | 0 | 0 | 0 | 0 | 180 |
| 0 29 | WASTE ACTIVATED SLUDGE UPGRADE - ENG -2014 SC | CW | S3 | 03 | -1,760 | -300 | 1,800 | 500 | 0 | 240 | 0 | 240 | 0 | 0 | 870 | 0 | -630 | 0 | 0 | 0 | 0 | 0 | 240 |
| 0 30 | PELLETIZER TRUCK LOADING FACILITY UPGRADE -2014 SC | CW | S3 | 03 | -930 | 1,000 | 0 | 0 | 0 | 70 | 0 | 70 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 70 |
| | Sub-total | | | | 3,600 | 4,250 | 15,000 | 13,510 | 10,310 | 46,670 | 4,170 | 50,840 | 0 | 0 | 3,901 | 0 | 46,939 | 0 | 0 | 0 | 0 | 0 | 50,840 |
| WAS907101 | ASHBRIDGES BAY WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 5 | PROCESS & EQUIP UPGRADES | CW | S2 | 03 | 46 | 0 | 0 | 0 | 0 | 46 | 0 | 46 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 46 |
| 0 6 | MESI UPGRADES | CW | S2 | 03 | 2,311 | 0 | 0 | 0 | 0 | 2,311 | 0 | 2,311 | 0 | 0 | 0 | 0 | 2,311 | 0 | 0 | 0 | 0 | 0 | 2,311 |
| 0 7 | MISC MECH REHAB | CW | S2 | 03 | 6,216 | 4,000 | 0 | 0 | 0 | 10,216 | 0 | 10,216 | 0 | 0 | 0 | 0 | 10,216 | 0 | 0 | 0 | 0 | 0 | 10,216 |
| 0 18 | MISC MECH REHAB -2014 SC | CW | S3 | 03 | -4,877 | 1,500 | 5,000 | 0 | 0 | 1,623 | 0 | 1,623 | 0 | 0 | 0 | 0 | 1,623 | 0 | 0 | 0 | 0 | 0 | 1,623 |
| 0 19 | Process & Equip Upgrades -2014 SC | CW | S3 | 03 | 23 | 69 | 0 | 0 | 0 | 92 | 0 | 92 | 0 | 0 | 0 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 92 |
| 0 20 | MESI UPGRADES -2014 SC | CW | S3 | 03 | 0 | 2,500 | 0 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 0 | 0 | 0 | 2,500 | 0 | 0 | 0 | 0 | 0 | 2,500 |
| | Sub-total | | | | 3,719 | 8,069 | 5,000 | 0 | 0 | 16,788 | 0 | 16,788 | 0 | 0 | 0 | 0 | 16,788 | 0 | 0 | 0 | 0 | 0 | 16,788 |
| WAS907102 | ASHBRIDGES BAY WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 6 | BIOFILTERS UPGRADE | CW | S2 | 03 | 7,396 | 7,091 | 2,100 | 122 | 0 | 16,709 | 0 | 16,709 | 0 | 0 | 502 | 0 | 16,207 | 0 | 0 | 0 | 0 | 0 | 16,709 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

# Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt - Recoverable Debt | Total Financing |
| WAS907102 | ASHBRIDGES BAY WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 13 | D BUILDING TREATMENT & BIOFILTER | CW | S2 | 03 | 1,700 | 0 | 0 | 0 | 0 | 1,700 | 0 | 1,700 | 0 | 0 | 51 | 0 | 1,649 | 0 | 0 | 0 | 0 | 1,700 |
| 0 | 29 | D BUILDING TREATMENT & BIOFILTER -2014 SC | CW | S3 | 03 | -500 | 1,613 | 0 | 0 | 0 | 1,113 | 0 | 1,113 | 0 | 0 | 176 | 0 | 937 | 0 | 0 | 0 | 0 | 1,113 |
| 0 | 31 | BIOFILTERS UPGRADE -2014 SC | CW | S3 | 03 | -6,299 | -251 | 6,642 | 6,000 | 0 | 6,092 | 0 | 6,092 | 0 | 0 | 1,333 | 0 | 4,759 | 0 | 0 | 0 | 0 | 6,092 |
| | | Sub-total | | | | 2,297 | 8,453 | 8,742 | 6,122 | 0 | 25,614 | 0 | 25,614 | 0 | 0 | 2,062 | 0 | 23,552 | 0 | 0 | 0 | 0 | 25,614 |
| WAS907104 | HUMBER WWTP - LIQUID TREATMENT & HANDLING | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | SECONDARY TREATMENT UPGRADES | CW | S2 | 03 | 13,998 | 23,245 | 28,245 | 43,225 | 43,225 | 151,938 | 122,720 | 274,658 | 0 | 0 | 2,745 | 0 | 271,913 | 0 | 0 | 0 | 0 | 274,658 |
| 0 | 15 | SECONDARY TREATMENT UPGRADES -2014 SC | CW | S3 | 03 | -9,133 | -14,917 | -24,754 | -40,000 | -40,113 | -128,917 | -117,990 | -246,907 | 0 | 0 | -2,745 | 0 | -244,162 | 0 | 0 | 0 | 0 | -246,907 |
| | | Sub-total | | | | 4,865 | 8,328 | 3,491 | 3,225 | 3,112 | 23,021 | 4,730 | 27,751 | 0 | 0 | 0 | 0 | 27,751 | 0 | 0 | 0 | 0 | 27,751 |
| WAS907105 | HUMBER WWTP - O&M UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | Digester 7 & 8 Upgrades & Cogen Upgrades | CW | S2 | 03 | 9,850 | 4,000 | 1,000 | 0 | 0 | 14,850 | 0 | 14,850 | 0 | 0 | 0 | 0 | 14,850 | 0 | 0 | 0 | 0 | 14,850 |
| 0 | 2 | LIQUID STREAM UPGRADES | CW | S2 | 03 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 300 | 0 | 0 | 3 | 0 | 297 | 0 | 0 | 0 | 0 | 300 |
| 0 | 11 | DIGESTER CLEANING & UPGRADES | CW | S2 | 03 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 600 | 0 | 0 | 0 | 0 | 600 | 0 | 0 | 0 | 0 | 600 |
| 0 | 24 | Digester 7 & 8 Upgrades & Cogen Upgrades -2014 SC | CW | S3 | 03 | -4,700 | 4,634 | 2,304 | 0 | 0 | 2,238 | 0 | 2,238 | 0 | 0 | 0 | 0 | 2,238 | 0 | 0 | 0 | 0 | 2,238 |
| 0 | 25 | LIQUID STREAM UPGRADES -2014 SC | CW | S3 | 03 | -250 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | -21 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | DIGESTER CLEANING & UPGRADES -2014 SC | CW | S3 | 03 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | -600 | 0 | 0 | 0 | 0 | -600 | 0 | 0 | 0 | 0 | -600 |
| | | Sub-total | | | | 5,200 | 8,884 | 3,304 | 0 | 0 | 17,388 | 0 | 17,388 | 0 | 0 | 24 | 0 | 17,364 | 0 | 0 | 0 | 0 | 17,388 |
| WAS907106 | HUMBER WWTP - ODOUR CONTROL | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | Odour Control Implementation Phase 1 | CW | S2 | 02 | 19,550 | 15,000 | 15,000 | 10,000 | 0 | 59,550 | 0 | 59,550 | 0 | 0 | 596 | 0 | 58,954 | 0 | 0 | 0 | 0 | 59,550 |
| 0 | 10 | Odour Control Implementation Phase 1 -2014 SC | CW | S3 | 02 | -14,550 | 0 | 5,000 | 10,000 | 5,000 | 5,450 | 0 | 5,450 | 0 | 0 | 4,635 | 0 | 815 | 0 | 0 | 0 | 0 | 5,450 |
| | | Sub-total | | | | 5,000 | 15,000 | 20,000 | 20,000 | 5,000 | 65,000 | 0 | 65,000 | 0 | 0 | 5,231 | 0 | 59,769 | 0 | 0 | 0 | 0 | 65,000 |
| WAS907224 | SEWAGE PUMPING STATION UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | SPS UPGRADES | CW | S2 | 02 | 9,072 | 4,800 | 5,030 | 2,990 | 1,094 | 22,986 | 0 | 22,986 | 0 | 0 | 1,724 | 0 | 21,262 | 0 | 0 | 0 | 0 | 22,986 |
| 0 | 2 | SCOTT STREET PS UPGRADES | CW | S2 | 05 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| 0 | 4 | SUNNYSIDE AND MARYPORT SPS UPGRADES | CW | S2 | 03 | 1,511 | 0 | 0 | 0 | 0 | 1,511 | 0 | 1,511 | 0 | 0 | 114 | 0 | 1,397 | 0 | 0 | 0 | 0 | 1,511 |
| 0 | 19 | SCOTT STREET PS UPGRADES -2014 SC | CW | S3 | 05 | 15 | 20 | 0 | 0 | 0 | 35 | 0 | 35 | 0 | 0 | 4 | 0 | 31 | 0 | 0 | 0 | 0 | 35 |

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Current and Future Year Cash Flow Commitments Financed By: Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WAS907224 | | SEWAGE PUMPING STATION UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 20 | SUNNYSIDE AND MARYPORT SPS UPGRADES -2014 SC | CW | S3 | 03 | 1,024 | 202 | 2 | 0 | 0 | 1,228 | 0 | 1,228 | 0 | 0 | 106 | 0 | 1,122 | 0 | 0 | 0 | 0 | 0 | 1,228 |
| 0 | 21 | SPS UPGRADES -2014 SC | CW | S3 | 02 | -2,372 | 420 | -2,980 | -2,590 | -1,094 | -8,616 | 0 | -8,616 | 0 | 0 | -568 | 0 | -8,048 | 0 | 0 | 0 | 0 | 0 | -8,616 |
| | | Sub-total | | | | 9,255 | 5,442 | 2,052 | 400 | 0 | 17,149 | 0 | 17,149 | 0 | 0 | 1,380 | 0 | 15,769 | 0 | 0 | 0 | 0 | 0 | 17,149 |
| WAS907559 | | DON & WATERFRONT TRUNK CSO | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN | CW | S2 | 04 | 3,440 | 3,000 | 3,000 | 3,000 | 1,800 | 14,240 | 5,400 | 19,640 | 0 | 0 | 1,964 | 0 | 17,676 | 0 | 0 | 0 | 0 | 0 | 19,640 |
| 0 | 9 | DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN -2014 SC | CW | S3 | 04 | -1,608 | 3,589 | 8,347 | 7,347 | 8,547 | 26,222 | 11,400 | 37,622 | 0 | 0 | 2,644 | 0 | 34,978 | 0 | 0 | 0 | 0 | 0 | 37,622 |
| | | Sub-total | | | | 1,832 | 6,589 | 11,347 | 10,347 | 10,347 | 40,462 | 16,800 | 57,262 | 0 | 0 | 4,608 | 0 | 52,654 | 0 | 0 | 0 | 0 | 0 | 57,262 |
| WAS907700 | | NORTH TORONTO WTP UPGRADES | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2 | NTTP-ELECTRICAL UPGRADES | CW | S2 | 01 | 1,750 | 1,500 | 0 | 0 | 0 | 3,250 | 0 | 3,250 | 0 | 0 | 0 | 0 | 3,250 | 0 | 0 | 0 | 0 | 0 | 3,250 |
| 0 | 7 | NTTP-ELECTRICAL UPGRADES -2014 SC | CW | S3 | 01 | -983 | -585 | 777 | 522 | 253 | -16 | 0 | -16 | 0 | 0 | 0 | 0 | -16 | 0 | 0 | 0 | 0 | 0 | -16 |
| | | Sub-total | | | | 767 | 915 | 777 | 522 | 253 | 3,234 | 0 | 3,234 | 0 | 0 | 0 | 0 | 3,234 | 0 | 0 | 0 | 0 | 0 | 3,234 |
| WASWP003 | | EMERY CREEK POND | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | EMERY CREEK POND | CW | S2 | 04 | 2,258 | 2,550 | 550 | 0 | 0 | 5,358 | 0 | 5,358 | 0 | 0 | 536 | 0 | 4,822 | 0 | 0 | 0 | 0 | 0 | 5,358 |
| 0 | 12 | EMERY CREEK POND -2014 SC | CW | S3 | 04 | 152 | 0 | 0 | 0 | 0 | 152 | 0 | 152 | 0 | 0 | -93 | 0 | 245 | 0 | 0 | 0 | 0 | 0 | 152 |
| | | Sub-total | | | | 2,410 | 2,550 | 550 | 0 | 0 | 5,510 | 0 | 5,510 | 0 | 0 | 443 | 0 | 5,067 | 0 | 0 | 0 | 0 | 0 | 5,510 |
| WASWP050 | | EQUIPMENT REPLACEMENT & REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 26 | REHAB OF SOUTH PRIMARY CLARIFIERS | CW | S2 | 03 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| 0 | 30 | ABTP - DIG. TANKS #1-8 MODS. | CW | S2 | 03 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 10 |
| 0 | 35 | MTI REAL TIME CONTROL | CW | S2 | 04 | 2,200 | 2,000 | 0 | 0 | 0 | 4,200 | 0 | 4,200 | 0 | 0 | 210 | 0 | 3,990 | 0 | 0 | 0 | 0 | 0 | 4,200 |
| 0 | 122 | North Primaries Pumping Equipment -2014 SC | CW | S3 | 03 | -904 | 1,020 | 1,500 | 705 | 0 | 2,321 | 0 | 2,321 | 0 | 0 | 0 | 0 | 2,321 | 0 | 0 | 0 | 0 | 0 | 2,321 |
| 0 | 123 | MTI REAL TIME CONTROL -2014 SC | CW | S3 | 04 | -2,000 | -2,000 | 0 | 2,000 | 2,000 | 0 | 0 | 0 | 0 | 0 | -210 | 0 | 210 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 124 | ABTP - DIG. TANKS #1-8 MODS. -2014 SC | CW | S3 | 03 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | 0 | -10 |
| 0 | 126 | REHAB OF SOUTH PRIMARY CLARIFIERS - 2014 SC | CW | S3 | 03 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | -8 |

Report Phase 2 - Program 11 Wastewater Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2 Part C Sub-Project Status S2,S3,S4,S5

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub-Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments | | | | | | | | Current and Future Year Cash Flow Commitments Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| WASWP050 | | EQUIPMENT REPLACEMENT & REHABILITATION | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 78 | North Primaries Pumping Equipment | CW | S2 | 03 | 1,424 | 1,500 | 830 | 450 | 0 | 4,204 | 0 | 4,204 | 0 | 0 | 0 | 0 | 4,204 | 0 | 0 | 0 | 0 | 0 | 4,204 |
| | | Sub-total | | | | 730 | 2,520 | 2,330 | 3,155 | 2,000 | 10,735 | 0 | 10,735 | 0 | 0 | 0 | 0 | 10,735 | 0 | 0 | 0 | 0 | 0 | 10,735 |
| **Total Program Expenditure** | | | | | | 348,272 | 424,884 | 452,786 | 402,471 | 252,563 | 1,880,976 | 415,365 | 2,296,341 | 0 | 0 | 76,100 | 0 | 2,220,241 | 0 | 0 | 0 | 0 | 0 | 2,296,341 |

Report Phase 2 - Program 11 Wastewater Program Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2 Part C Sub-Project Status S2,S3,S4,S5

## CITY OF TORONTO

**Gross Expenditures ($000's)**

## Appendix 4: 2014 Recommended Cash Flow and Future Year Commitments

**Wastewater Program**

| Sub- Priority | Project No. SubProj No. | Project Name Sub-project Name | Ward | Stat. | Cat. | Current and Future Year Cash Flow Commitments and Estimates | | | | | | | | Current and Future Year Cash Flow Commitments and Estimates Financed By | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2014 | 2015 | 2016 | 2017 | 2018 | Total 2014-2018 | Total 2019-2023 | Total 2014-2023 | Provincial Grants and Subsidies | Federal Subsidy | Development Charges | Reserves | Reserve Funds | Capital from Current | Other 1 | Other2 | Debt | Debt - Recoverable | Total Financing |
| Financed By: | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Charges | | | | | | 24,566 | 13,870 | 14,338 | 12,121 | 7,940 | 72,835 | 3,265 | 76,100 | 0 | 0 | 76,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76,100 |
| Reserve Funds (Ind."XR" Ref.) | | | | | | 323,706 | 411,014 | 438,448 | 390,350 | 244,623 | 1,808,141 | 412,100 | 2,220,241 | 0 | 0 | 0 | 0 | 2,220,241 | 0 | 0 | 0 | 0 | 0 | 2,220,241 |
| **Total Program Financing** | | | | | | 348,272 | 424,884 | 452,786 | 402,471 | 252,563 | 1,880,976 | 415,365 | 2,296,341 | 0 | 0 | 76,100 | 0 | 2,220,241 | 0 | 0 | 0 | 0 | 0 | 2,296,341 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |
| S3 | S3 Prior Year - Change of Scope 2014 and\or Future Year Cost\Cashflow) |
| S4 | S4 New - Stand-Alone Project (Current Year Only) |
| S5 | S5 New (On-going or Phased Projects) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

# Appendix 5

## 2014 Recommended Capital Project with Financing Details

# Appendix 6

## 2014 Reserve / Reserve Fund Review
## (In $000s)

### Reserve/Reserve Fund Review - Program Specific

| Table 1 | | | Proposed Withdrawals | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Reserve / Reserve Fund Name | Project / SubProject Name and Number | Projected Balance as at Dec. 31, 2013* | 2014 Rec. Budget | 2015Plan | 2016 Plan | 2017 Plan | 2018 Plan | 2019 Plan | 2020 Plan | 2021 Plan | 2022 Plan | 2023 Plan | 2014 - 2023 Total Contributions / Withdrawals |
| | Beginning Balance | $31,928 | | 755 | 4,272 | 5,773 | 10,200 | 14,036 | 16,724 | 19,427 | 21,822 | 23,738 | |
| Water DC Reserve Fund | AVENUE ROAD TRUNKMAIN REPLACEMENT | | (169) | (756) | (1,008) | | | | | | | | **(1,933)** |
| | BAYVIEW TRUNK WATERMAIN - PH2 | | | | (149) | (37) | (149) | (1,493) | (1,493) | | | | **(3,321)** |
| XR2111 DC - Water (2009) | D2/D4 TRUNK WATERMAIN UPGRADES | | (348) | | | | (86) | (173) | (1,616) | (5,944) | (4,971) | (2,971) | **(16,109)** |
| | DIST W/M REPLACEMENT | | | (4,493) | (7,429) | (7,803) | (10,077) | (11,103) | (11,943) | (12,690) | (12,877) | (12,877) | **(91,292)** |
| | DISTRICT WATERMAINS - NEW | | | | | (500) | (500) | (500) | (500) | (500) | (500) | (500) | **(3,500)** |
| | DOWNTOWN W/M ENHANCEMENT | | (3,859) | (2,846) | (1,397) | (1) | | | | | | | **(8,103)** |
| | ENGINEERING STUDIES | | (370) | (85) | | | | | | | | | **(455)** |
| | HARRIS W.T.P. R&R | | | (9) | (55) | (128) | (128) | | | | | | **(320)** |
| | HORGAN TRUNK MAIN EXPANSION | | (39) | (304) | (2,600) | (7,154) | (7,021) | (6,646) | (1,143) | | | | **(24,907)** |
| | HORGAN W.T.P. EXPANSION | | (1,219) | (1,959) | | | | | | | | | **(3,178)** |
| | ISLAND W.T.P. R&R | | | | (37) | (109) | (219) | (438) | (109) | | | | **(912)** |
| | ISLAND W.T.P. R&R | | (52) | (30) | | | | | | | | | **(82)** |
| | PW ENGINEERING | | (258) | (165) | (175) | (150) | (100) | (60) | (60) | (60) | (60) | (60) | **(1,148)** |
| | REGENT PARK CAPITAL CONTRIBUTION | | | (859) | (330) | (132) | (745) | (287) | (115) | (420) | (162) | (162) | **(3,212)** |
| | RL CLARK W.T.P. R&R | | (569) | (646) | (770) | (766) | (610) | (2) | | | | | **(3,363)** |
| | TRANSMISSION R&R | | | (6) | (121) | | | | | | | | **(127)** |
| | TRUNK WATERMAIN EXPANSION | | (287) | (431) | (838) | (2,204) | (2,012) | (2,443) | (287) | | | | **(8,502)** |
| | WATER EFFICIENCY PROGRAM | | (520) | (520) | (520) | (520) | (520) | (520) | (520) | (520) | (520) | (520) | **(5,200)** |
| | WATER STORAGE EXPANSION | | (13) | (13) | | | | | | | | | **(26)** |
| | WATER SUSTAINABILITY PROGRAM | | (12) | (167) | (264) | (243) | | | | | | | **(686)** |
| | Total Proposed Withdrawals | ($51,810) | (16,195) | (17,331) | (22,860) | (21,152) | (22,167) | (23,665) | (23,824) | (24,400) | (25,043) | (24,651) | **(176,376)** |
| | Projected Contributions | $19,882 | 16,950 | 20,848 | 24,361 | 25,579 | 26,003 | 26,353 | 26,527 | 26,795 | 26,959 | 27,498 | **247,873** |
| **TOTAL RESERVE FUND BALANCE AT YEAR-END** | | | **755** | **4,272** | **5,773** | **10,200** | **14,036** | **16,724** | **19,427** | **21,822** | **23,738** | **26,586** | |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT000004** | **HORGAN W.T.P. EXPANSION** | | | | | | | | | | | | | |
| 0 | 2 | PLANT EXPANSION - DESIGN & CONSTR ADMIN | 1/1/2004 | 12/31/2014 | 100 | 0 | 0 | 21 | 0 | 47 | 0 | 0 | 32 | 0 | 0 |
| 0 | 18 | SUPERNATANT AND FORCEMAIN INSTALLATION | 1/1/2012 | 12/31/2013 | 4,098 | 0 | 0 | 864 | 0 | 3,234 | 0 | 0 | 0 | 0 | 0 |
| 0 | 29 | SUPERNATANT AND FORCEMAIN INSTALLATION -2014 SC | 1/1/2014 | 12/31/2023 | -1,598 | 0 | 0 | -65 | 0 | -1,533 | 0 | 0 | 0 | 0 | 0 |
| 0 | 30 | PLANT EXPANSION - DESIGN & CONSTR ADMIN -2014 SC | 1/1/2014 | 12/31/2023 | 100 | 0 | 0 | 43 | 0 | 25 | 0 | 0 | 32 | 0 | 0 |
| 0 | 31 | PLANT EXPANSION - CONSTRUCTION -2014 SC | 1/1/2014 | 12/31/2023 | -4,000 | 0 | 0 | -722 | 0 | -1,998 | 0 | 0 | -1,280 | 0 | 0 |
| 1 | 5 | PLANT EXPANSION - CONSTRUCTION | 7/1/2008 | 12/31/2015 | 5,115 | 0 | 0 | 1,078 | 0 | 2,400 | 0 | 0 | 1,637 | 0 | 0 |
| | | **Project Sub-total:** | | | 3,815 | 0 | 0 | 1,219 | 0 | 2,175 | 0 | 0 | 421 | 0 | 0 |
| **0** | **WAT000014** | **WATER STORAGE EXPANSION** | | | | | | | | | | | | | |
| 0 | 1 | DUFFERIN RES. EXT. - DESIGN AND CONT. ADMIN | 1/1/2007 | 12/31/2015 | 19 | 0 | 0 | 5 | 0 | 14 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | Milliken PS and Reservoir - Engineering | 1/1/2007 | 12/31/2013 | 25 | 0 | 0 | 5 | 0 | 11 | 0 | 0 | 9 | 0 | 0 |
| 0 | 5 | Dufferin Reservoir Expansion - CONST | 1/1/2010 | 12/31/2013 | 100 | 0 | 0 | 31 | 0 | 69 | 0 | 0 | 0 | 0 | 0 |
| 0 | 18 | MILLIKEN P.S. CONSTRUCTION | 1/1/2009 | 12/31/2013 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| 0 | 28 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION | 1/1/2012 | 12/31/2021 | 100 | 0 | 0 | 21 | 0 | 41 | 0 | 0 | 38 | 0 | 0 |
| 0 | 42 | DUFFERIN RES. EXT. DESIGN & CONT ADMIN -2014 SC | 1/1/2014 | 12/31/2023 | -14 | 0 | 0 | -2 | 0 | -12 | 0 | 0 | 0 | 0 | 0 |
| 0 | 44 | Dufferin Reservoir Expansion - CONST -2014 SC | 1/1/2014 | 12/31/2023 | -100 | 0 | 0 | -31 | 0 | -69 | 0 | 0 | 0 | 0 | 0 |
| 0 | 45 | MILLIKEN PS RESERVOIR EXT .CONSTRUCTION -2014 SC | 1/1/2014 | 12/31/2023 | -100 | 0 | 0 | -21 | 0 | -41 | 0 | 0 | -38 | 0 | 0 |
| 0 | 46 | MILLIKEN P.S. CONSTRUCTION -2014 SC | 1/1/2014 | 12/31/2023 | -100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -100 | 0 | 0 |
| 0 | 47 | Milliken PS and Reservoir - Engineering - 2014 SC | 1/1/2014 | 12/31/2023 | 0 | 0 | 0 | 5 | 0 | -5 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 30 | 0 | 0 | 13 | 0 | 8 | 0 | 0 | 9 | 0 | 0 |
| **0** | **WAT000018** | **CLARK RESIDUE MGMT. FACILITIES** | | | | | | | | | | | | | |
| 0 | 24 | RESIDUALS RETROFITS & UPGRADES | 1/1/2013 | 12/31/2015 | 400 | 0 | 0 | 20 | 0 | 380 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | RESIDUALS RETROFITS & UPGRADES -2014 SC | 1/1/2014 | 12/31/2023 | -200 | 0 | 0 | -20 | 0 | -180 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT000021** | **WATER EFFICIENCY PROGRAM** | | | | | | | | | | | | | |
| 0 | 10 | ICI INDOOR WATER AUDIT | 1/1/2003 | 12/31/2016 | 368 | 0 | 0 | 368 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 11 | PUBLIC EDUCATION & PROMOTIONS | 1/1/2003 | 12/31/2016 | 198 | 0 | 0 | 99 | 0 | 99 | 0 | 0 | 0 | 0 | 0 |
| 0 | 12 | ANCILLARY COSTS | 1/1/2003 | 12/31/2016 | 70 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 87 | PUBLIC EDUCATION & PROMOTIONS -2014 SC | 1/1/2014 | 12/31/2023 | -48 | 0 | 0 | 51 | 0 | -99 | 0 | 0 | 0 | 0 | 0 |
| 0 | 90 | ICI INDOOR WATER AUDIT - 2014 SC | 1/1/2014 | 12/31/2023 | -68 | 0 | 0 | -68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 520 | 0 | 0 | 520 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT000340** | **ISLAND PLANT WINTERIZATION** | | | | | | | | | | | | | |
| 0 | 1 | PLANT WINTERIZATION & SUMMERIZATION | 1/1/2009 | 12/31/2014 | 505 | 0 | 0 | 0 | 0 | 505 | 0 | 0 | 0 | 0 | 0 |

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT000340** | **ISLAND PLANT WINTERIZATION** | | | | | | | | | | | | | |
| 0 | 13 | PLANT WINTERIZATION & SUMMERIZATION- 2014 SC | 1/1/2013 | 12/31/2022 | -335 | 0 | 0 | 0 | 0 | -335 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 170 | 0 | 0 | 0 | 0 | 170 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT000352** | **WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH** | | | | | | | | | | | | | |
| 0 | 7 | JOS WM MARKHAM/SHEPPARD TO BAYVIEW/FINCH | 9/14/2003 | 9/14/2003 | 316 | 0 | 0 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 0 |
| 0 | 18 | JOS MARKHAM/SHEPPARD BAYVIEW/FINCH HYDRO -201 | 1/1/2012 | 12/31/2021 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 400 | 0 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT000363** | **ENGINEERING STUDIES** | | | | | | | | | | | | | |
| 0 | 2 | IMPROVED TREATMENT STUDIES | 5/1/2007 | 12/31/2014 | 20 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| 0 | 18 | Controlled Substances ID and Abatement | 8/4/2006 | 12/31/2015 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| 0 | 31 | ENERGY EFFICIENCY IMPLEMENTATION - 2014 SC | 1/8/2008 | 12/31/2013 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| 0 | 38 | CORROSION CONTROL | 1/1/2011 | 12/31/2014 | 7,360 | 0 | 0 | 0 | 0 | 7,360 | 0 | 0 | 0 | 0 | 0 |
| 0 | 55 | CORROSION CONTROL -2014 SC | 1/1/2014 | 12/31/2023 | -1,272 | 0 | 0 | 370 | 0 | -1,642 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | IMPROVED TREATMENT STUDIES -2014 SC | 1/1/2014 | 12/31/2023 | 620 | 0 | 0 | 0 | 0 | 620 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 6,978 | 0 | 0 | 370 | 0 | 6,608 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906334** | **BUSINESS SYSTEM INFRASTRUCTURE - PW** | | | | | | | | | | | | | |
| 0 | 7 | NETWORK EQUIPMENT REPLACEMENT | 1/1/2008 | 12/31/2021 | 205 | 0 | 0 | 0 | 0 | 205 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | NETWORK CABLE LIFECYCLE REPLACEMENT | 1/1/2008 | 12/31/2014 | 4,490 | 0 | 0 | 0 | 0 | 4,490 | 0 | 0 | 0 | 0 | 0 |
| 0 | 23 | RELIABILITY IMPROVEMENT PROGRAM | 1/1/2013 | 12/31/2022 | 475 | 0 | 0 | 0 | 0 | 475 | 0 | 0 | 0 | 0 | 0 |
| 0 | 39 | PCS LEGACY ALARM IMPROVEMENT | 1/1/2012 | 12/31/2021 | 750 | 0 | 0 | 0 | 0 | 750 | 0 | 0 | 0 | 0 | 0 |
| 0 | 41 | BUSINESS & TECH IMPROVEMENT - PHASE 2 | 1/1/2012 | 12/31/2014 | 1,524 | 0 | 0 | 0 | 0 | 1,524 | 0 | 0 | 0 | 0 | 0 |
| 0 | 42 | WTP WS PLC PLATFORM UPGRADE AND PCS IMPROVEM | 1/1/2012 | 12/31/2013 | 1,610 | 0 | 0 | 0 | 0 | 1,610 | 0 | 0 | 0 | 0 | 0 |
| 0 | 54 | NETWORK EQUIPMENT REPLACEMENT -2014 SC | 1/1/2014 | 12/31/2023 | 360 | 0 | 0 | 0 | 0 | 360 | 0 | 0 | 0 | 0 | 0 |
| 0 | 55 | NETWORK CABLE LIFECYCLE REPLACEMENT -2014 SC | 1/1/2014 | 12/31/2023 | -2,530 | 0 | 0 | 0 | 0 | -2,530 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | RELIABILITY IMPROVEMENT PROGRAM - 2014 SC | 1/1/2014 | 12/31/2023 | -275 | 0 | 0 | 0 | 0 | -275 | 0 | 0 | 0 | 0 | 0 |
| 0 | 57 | BUSINESS & TECH IMPROVEMENT - PHASE 2 -2014 SC | 1/1/2014 | 12/31/2023 | 1,172 | 0 | 0 | 0 | 0 | 1,172 | 0 | 0 | 0 | 0 | 0 |
| 0 | 58 | WTP WS PLC PLATFORM UPGRADE & PCS IMPROV -2014 | 1/1/2014 | 12/31/2023 | 1,049 | 0 | 0 | 0 | 0 | 1,049 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 8,830 | 0 | 0 | 0 | 0 | 8,830 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906340** | **METERING & METER READING SYS** | | | | | | | | | | | | | |
| 0 | 2 | AUTOMATED METER READING SYSTEM | 10/15/2007 | 12/31/2016 | 49,957 | 0 | 0 | 0 | 0 | 49,957 | 0 | 0 | 0 | 0 | 0 |
| 0 | 13 | AUTOMATED METER READING SYSTEM - 2014 SC | 6/27/2013 | 6/27/2013 | -2,507 | 0 | 0 | 0 | 0 | -2,507 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 47,450 | 0 | 0 | 0 | 0 | 47,450 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906467** | **AVENUE ROAD TRUNKMAIN REPLACEMENT** | | | | | | | | | | | | | |
| 0 | 1 | AVENUE RD WM ENGINEERING - HI LEVEL TO LAWRENCI | | 12/31/2014 | 112 | 0 | 0 | 0 | 0 | 93 | 0 | 0 | 19 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906467** | **AVENUE ROAD TRUNKMAIN REPLACEMENT** | | | | | | | | | | | | | |
| 0 | 2 | AVENUE RD WM CONSTRUCTION - HI LEVELTO LAWREN | 7/1/2009 | 6/30/2014 | 1,500 | 0 | 0 | 19 | 0 | 1,201 | 0 | 0 | 280 | 0 | 0 |
| 0 | 23 | AVENUE RD WM ENG - HI LEVEL TO LAWRENCE -2014 SC | 1/1/2014 | 12/31/2023 | 23 | 0 | 0 | 68 | 0 | -51 | 0 | 0 | 6 | 0 | 0 |
| 0 | 24 | AVENUE RD WM CONS - HI LEVELTO LAWRENCE -2014 SC | 1/1/2014 | 12/31/2023 | -1,300 | 0 | 0 | 82 | 0 | -1,139 | 0 | 0 | -243 | 0 | 0 |
| | | **Project Sub-total:** | | | 335 | 0 | 0 | 169 | 0 | 104 | 0 | 0 | 62 | 0 | 0 |
| **0** | **WAT906468** | **HORGAN TRUNK MAIN EXPANSION** | | | | | | | | | | | | | |
| 0 | 1 | JOS - HORGAN TO ELLESMERE WM - ENGINEERING | 1/1/2003 | 12/31/2018 | 200 | 0 | 0 | 38 | 0 | 97 | 0 | 0 | 65 | 0 | 0 |
| 0 | 39 | JOS - HORGAN TO ELLESMERE WM - ENG -2014 SC | 1/1/2014 | 12/31/2023 | -98 | 0 | 0 | 1 | 0 | -67 | 0 | 0 | -32 | 0 | 0 |
| | | **Project Sub-total:** | | | 102 | 0 | 0 | 39 | 0 | 30 | 0 | 0 | 33 | 0 | 0 |
| **0** | **WAT906470** | **ISLAND W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 8 | CHEMICAL & RESIDUALS MNGT - ENG | 1/1/2012 | 12/31/2021 | 1,150 | 0 | 0 | 58 | 0 | 1,092 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | CHEMICAL & RESIDUALS MNGT - ENG -2014 SC | 1/1/2014 | 12/31/2023 | -1,000 | 0 | 0 | -58 | 0 | -942 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906481** | **DISTRICT WATERMAINS - NEW** | | | | | | | | | | | | | |
| 0 | 1 | DIST W/MAINS NEW | 1/1/2004 | 12/31/2013 | 500 | 0 | 0 | 296 | 0 | 204 | 0 | 0 | 0 | 0 | 0 |
| 0 | 12 | DIST W/MAINS NEW -2014 SC | 1/1/2014 | 12/31/2023 | -306 | 0 | 0 | -296 | 0 | -10 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 194 | 0 | 0 | 0 | 0 | 194 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906483** | **PW ENGINEERING** | | | | | | | | | | | | | |
| 0 | 2 | CAPITAL PRGMG & FACILITY ASSET PLANNING | 1/1/2004 | 6/30/2014 | 1,110 | 0 | 0 | 0 | 0 | 1,110 | 0 | 0 | 0 | 0 | 0 |
| 0 | 5 | WATERMAIN ASSET PLANNING | 1/1/2007 | 12/31/2015 | 561 | 0 | 0 | 0 | 0 | 561 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | EASEMENT ACQUISITION | 1/3/2007 | 12/31/2015 | 472 | 0 | 0 | 0 | 0 | 472 | 0 | 0 | 0 | 0 | 0 |
| 0 | 22 | WATER LOSS REDUCTION STRATEGY | 1/1/2012 | 12/31/2013 | 364 | 0 | 0 | 0 | 0 | 364 | 0 | 0 | 0 | 0 | 0 |
| 0 | 44 | WATERMAIN ASSET PLANNING -2014 SC | 1/1/2014 | 12/31/2023 | 429 | 0 | 0 | 248 | 0 | 181 | 0 | 0 | 0 | 0 | 0 |
| 0 | 45 | JOS UPDATE - 2014 SC | 1/1/2014 | 12/31/2023 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 46 | EASEMENT ACQUISITION - 2014 SC | 1/1/2014 | 12/31/2023 | -172 | 0 | 0 | 0 | 0 | -172 | 0 | 0 | 0 | 0 | 0 |
| 0 | 47 | WATER LOSS REDUCTION STRATEGY - 2014 SC | 1/1/2014 | 12/31/2023 | -14 | 0 | 0 | 0 | 0 | -14 | 0 | 0 | 0 | 0 | 0 |
| 0 | 48 | CAPITAL PRGMG & FACILITY ASSET PLANNING - 2014 SC | 1/1/2014 | 12/31/2023 | -692 | 0 | 0 | 0 | 0 | -692 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 2,068 | 0 | 0 | 258 | 0 | 1,810 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906749** | **DOWNTOWN W/M ENHANCEMENT** | | | | | | | | | | | | | |
| 0 | 1 | JOS - GERRARD ST WM - ENGINEERING | 3/1/2005 | 12/31/2017 | 731 | 0 | 0 | 73 | 0 | 99 | 0 | 0 | 559 | 0 | 0 |
| 0 | 4 | JOS - GERRARD ST WM - CONSTRUCTION | 1/1/2009 | 12/31/2015 | 24,554 | 0 | 0 | 2,436 | 0 | 3,342 | 0 | 0 | 18,776 | 0 | 0 |
| 0 | 35 | JOS - GERRARD ST WM - ENGINEERING -2014 SC | 1/1/2014 | 12/31/2023 | 100 | 0 | 0 | 92 | 0 | -68 | 0 | 0 | 76 | 0 | 0 |
| 0 | 36 | JOS BATHURST-DUPONT W/M - ENG -2014 SC | 1/1/2014 | 12/31/2023 | -33 | 0 | 0 | -6 | 0 | -27 | 0 | 0 | 0 | 0 | 0 |
| 0 | 37 | JOS - GERRARD ST WM - CONSTRUCTION -2014 SC | 1/1/2014 | 12/31/2023 | -6,000 | 0 | 0 | 1,258 | 0 | -2,670 | 0 | 0 | -4,588 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906749** | **DOWNTOWN W/M ENHANCEMENT** | | | | | | | | | | | | | |
| 1 | 3 | JOS BATHURST-DUPONT W/M - ENG | 1/1/2005 | 12/31/2011 | 33 | 0 | 0 | 6 | 0 | 27 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 19,385 | 0 | 0 | 3,859 | 0 | 703 | 0 | 0 | 14,823 | 0 | 0 |
| **0** | **WAT906752** | **TRANSMISSION R&R** | | | | | | | | | | | | | |
| 0 | 49 | TRUNK WATERMAIN REHAB | 1/1/2013 | 12/31/2015 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 0 |
| 0 | 51 | CAST IRON TRUNK REPLC - PHASE 2 | 10/9/2012 | 10/9/2012 | 1,000 | 0 | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING | 10/9/2012 | 10/9/2012 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 0 |
| 0 | 59 | CAST IRON TRUNK REPLC - PHASE 2 - 2014 SC | 9/18/2013 | 9/18/2013 | -1 | 0 | 0 | 0 | 0 | -1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 2 | TRANSF & SW'GEAR REPLACMENT DESIGN | 1/1/2005 | 12/31/2013 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,599 | 0 | 0 | 0 | 0 | 1,599 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906900** | **TRANSMISSION R&R** | | | | | | | | | | | | | |
| 0 | 1 | TRANS FACILITIES REHAB | 1/1/2006 | 12/31/2013 | 548 | 0 | 0 | 0 | 0 | 548 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | SCARBOROUGH PS - PUMP REPLC | 1/1/2013 | 12/31/2015 | 884 | 0 | 0 | 0 | 0 | 884 | 0 | 0 | 0 | 0 | 0 |
| 0 | 27 | EGLINTON PS -PUMP REPLC | 1/1/2013 | 12/31/2015 | 2,982 | 0 | 0 | 0 | 0 | 2,982 | 0 | 0 | 0 | 0 | 0 |
| 0 | 33 | SCARBOROUGH PS - PUMP REPLC -2014 SC | 1/1/2014 | 12/31/2023 | -284 | 0 | 0 | 0 | 0 | -284 | 0 | 0 | 0 | 0 | 0 |
| 0 | 34 | EGLINTON PS -PUMP REPLC -2014 SC | 1/1/2014 | 12/31/2023 | -1,182 | 0 | 0 | 0 | 0 | -1,182 | 0 | 0 | 0 | 0 | 0 |
| 0 | 35 | TRANS FACILITIES REHAB - 2014 SC | 7/26/2013 | 7/26/2013 | 17 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| 0 | 36 | RESERVOIR REHAB/WATER QUALITY PROTECTION | 9/13/2013 | 9/23/2013 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 3,265 | 0 | 0 | 0 | 0 | 3,265 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906902** | **HARRIS W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 2 | BUILDING ENVELOPE REHAB | 1/1/2006 | 12/31/2014 | 20 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| 0 | 6 | LIQUID CHEMICAL SYSTEM RELOCATION | 8/8/2006 | 12/31/2013 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| 0 | 13 | FILTER MEDIA REPLACEMENT PH2 | 1/1/2009 | 12/31/2016 | 350 | 0 | 0 | 0 | 0 | 350 | 0 | 0 | 0 | 0 | 0 |
| 0 | 21 | HVAC REHAB - CONSTRUCTION | 1/1/2012 | 12/31/2016 | 1,059 | 0 | 0 | 0 | 0 | 1,059 | 0 | 0 | 0 | 0 | 0 |
| 0 | 22 | TRAVELLING SCREEN REPLACEMENT | 1/1/2009 | 12/31/2014 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | REHAB OF SETTLING BASIN ROOF & SLUICE GATES | 1/1/2013 | 12/31/2016 | 2,396 | 0 | 0 | 0 | 0 | 2,396 | 0 | 0 | 0 | 0 | 0 |
| 0 | 65 | FILTER MEDIA REPLACEMENT PH2 -2014 SC | 1/1/2014 | 12/31/2023 | -150 | 0 | 0 | 0 | 0 | -150 | 0 | 0 | 0 | 0 | 0 |
| 0 | 66 | FACILITY & PROCESS UPGRADES -2014 SC | 1/1/2014 | 12/31/2023 | 500 | 0 | 0 | 0 | 0 | 500 | 0 | 0 | 0 | 0 | 0 |
| 0 | 67 | TRAVELLING SCREEN REPLACEMENT -2014 SC | 1/1/2014 | 12/31/2023 | 320 | 0 | 0 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 0 |
| 0 | 68 | HVAC REHAB - CONSTRUCTION -2014 SC | 1/1/2014 | 12/31/2023 | -264 | 0 | 0 | 0 | 0 | -264 | 0 | 0 | 0 | 0 | 0 |
| 0 | 69 | REHAB OF SETTLING BASIN ROOF&SLUICE GATES -2014 | 1/1/2014 | 12/31/2023 | 1,024 | 0 | 0 | 0 | 0 | 1,024 | 0 | 0 | 0 | 0 | 0 |
| 0 | 72 | BUILDING ENVELOPE REHAB - 2014 SC | 1/1/2014 | 12/31/2023 | -10 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 73 | LIQUID CHEMICAL SYSTEM RELOCATION - 2014 SC | 1/1/2014 | 12/31/2023 | -8 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 6,033 | 0 | 0 | 0 | 0 | 6,033 | 0 | 0 | 0 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906903** | **FJ HORGAN W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 5 | FACILITY & PROCESS UPGRADES | 1/1/2006 | 12/31/2014 | 614 | 0 | 0 | 0 | 0 | 614 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | RAW WATER PUMP UPGRADES | 1/1/2013 | 12/31/2015 | 512 | 0 | 0 | 0 | 0 | 512 | 0 | 0 | 0 | 0 | 0 |
| 0 | 15 | REPLACEMENT OF MCCS | 1/1/2012 | 12/31/2016 | 1,450 | 0 | 0 | 0 | 0 | 1,450 | 0 | 0 | 0 | 0 | 0 |
| 0 | 16 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT | 1/1/2013 | 12/31/2016 | 534 | 0 | 0 | 0 | 0 | 534 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | FACILITY & PROCESS UPGRADES -2014 SC | 1/1/2014 | 12/31/2023 | 244 | 0 | 0 | 0 | 0 | 244 | 0 | 0 | 0 | 0 | 0 |
| 0 | 27 | REPLACEMENT OF MCCS -2014 SC | 1/1/2014 | 12/31/2023 | -1,150 | 0 | 0 | 0 | 0 | -1,150 | 0 | 0 | 0 | 0 | 0 |
| 0 | 29 | RAW WATER PUMP UPGRADES - 2014 SC | 1/1/2014 | 12/31/2023 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| 0 | 30 | ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT - 201 | 1/1/2014 | 12/31/2023 | -484 | 0 | 0 | 0 | 0 | -484 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,908 | 0 | 0 | 0 | 0 | 1,908 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906906** | **TRUNK WATERMAIN EXPANSION** | | | | | | | | | | | | | |
| 0 | 2 | JOS - D4 W/M ENGINEERING | 1/1/2010 | 12/31/2011 | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 0 | 13 | CAST IRON T-M REPLACEMENT - PH1 | 1/1/2006 | 12/31/2014 | 40 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 |
| 0 | 25 | JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG | 1/1/2012 | 12/31/2016 | 702 | 0 | 0 | 167 | 0 | 375 | 0 | 0 | 160 | 0 | 0 |
| 0 | 63 | JOS WM SCAR PS TO ST CLAIR&MIDLAND -ENG -2014 SC | 1/1/2014 | 12/31/2023 | -102 | 0 | 0 | 120 | 0 | -198 | 0 | 0 | -24 | 0 | 0 |
| 0 | 64 | CAST IRON T-M REPLACEMENT - PH1 - 2014 SC | 1/1/2014 | 12/31/2023 | -40 | 0 | 0 | 0 | 0 | -40 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 610 | 0 | 0 | 287 | 0 | 187 | 0 | 0 | 136 | 0 | 0 |
| **0** | **WAT906914** | **SWITCH GEAR TRANSFORMER** | | | | | | | | | | | | | |
| 0 | 3 | ARC FLASH ANALYSIS | 1/1/2010 | 12/31/2014 | 288 | 0 | 0 | 0 | 0 | 288 | 0 | 0 | 0 | 0 | 0 |
| 0 | 13 | INDOOR/OUTDOOR SWITCHGEAR (5 Stations Phase 3) | 1/1/2012 | 12/31/2015 | 5,140 | 0 | 0 | 0 | 0 | 5,140 | 0 | 0 | 0 | 0 | 0 |
| 0 | 25 | ARC FLASH ANALYSIS -2014 SC | 1/1/2014 | 12/31/2023 | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 |
| 0 | 26 | INDOOR/OUTDOOR SWITCHGEAR(5 Stations Ph3) -2014 SC | 1/1/2014 | 12/31/2023 | -4,465 | 0 | 0 | 0 | 0 | -4,465 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,025 | 0 | 0 | 0 | 0 | 1,025 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906917** | **TRANSMISSION OPERATIONS OPTIMIZER** | | | | | | | | | | | | | |
| 0 | 8 | TRANSMISSION OPERATIONS OPTIMIZER | 1/1/2013 | 12/31/2022 | 448 | 0 | 0 | 0 | 0 | 448 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | TRANSMISSION OPERATIONS OPTIMIZER - 2014 SC | 1/1/2014 | 12/31/2023 | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906918** | **WATER SUSTAINABILITY PROGRAM** | | | | | | | | | | | | | |
| 0 | 1 | WATER SUSTAINABILITY PROGRAM | 1/1/2012 | 12/31/2013 | 4,200 | 0 | 0 | 0 | 0 | 4,200 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | WATER SUSTAINABILITY PROGRAM -2014 SC | 1/1/2014 | 12/31/2023 | -4,000 | 0 | 0 | 12 | 0 | -4,012 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 200 | 0 | 0 | 12 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906919** | **RL CLARK W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 1 | FACILITY & PROCESS UPGRADES | 1/1/2006 | 12/31/2013 | 603 | 0 | 0 | 0 | 0 | 603 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | PROCESS EQUIPMENT UPGRADE ENGINEERING | 8/8/2006 | 12/31/2017 | 1,535 | 0 | 0 | 0 | 0 | 1,535 | 0 | 0 | 0 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906919** | **RL CLARK W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 15 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION | 1/1/2010 | 12/31/2021 | 8,790 | 0 | 0 | 0 | 0 | 8,790 | 0 | 0 | 0 | 0 | 0 |
| 0 | 44 | EVALUATION & COMMUNICATION SYSTEMS | 1/1/2013 | 12/31/2015 | 1,140 | 0 | 0 | 0 | 0 | 1,140 | 0 | 0 | 0 | 0 | 0 |
| 0 | 49 | PROCESS EQUIPMENT UPGRADE ENGINEERING -2014 SC | 1/1/2014 | 12/31/2023 | -280 | 0 | 0 | 76 | 0 | -356 | 0 | 0 | 0 | 0 | 0 |
| 0 | 50 | PROCESS EQUIPMENT UPGRADE CONSTRUCTION -2014 | 1/1/2014 | 12/31/2023 | -674 | 0 | 0 | 493 | 0 | -1,167 | 0 | 0 | 0 | 0 | 0 |
| 0 | 51 | EVALUATION & COMMUNICATION SYSTEMS -2014 SC | 1/1/2014 | 12/31/2023 | -391 | 0 | 0 | 0 | 0 | -391 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | FACILITY & PROCESS UPGRADES - 2014 SC | 1/1/2014 | 12/31/2023 | -303 | 0 | 0 | 0 | 0 | -303 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 10,420 | 0 | 0 | 569 | 0 | 9,851 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906930** | **DIST W/M REPLACEMENT** | | | | | | | | | | | | | |
| 0 | 15 | W/M REPLACEMENT - STAND ALONE | 1/1/2013 | 12/31/2014 | 14,924 | 0 | 0 | 0 | 0 | 14,924 | 0 | 0 | 0 | 0 | 0 |
| 0 | 29 | DIST W/M REPLACEMENT - 2012 | 5/27/2011 | 12/1/2013 | 4,732 | 0 | 0 | 0 | 0 | 4,732 | 0 | 0 | 0 | 0 | 0 |
| 0 | 39 | DIST W/M REPLACEMENT 2013 | 1/1/2013 | 12/31/2014 | 11,083 | 0 | 0 | 0 | 0 | 11,083 | 0 | 0 | 0 | 0 | 0 |
| 0 | 41 | WATERMAIN UPGRADES | 10/9/2012 | 10/9/2012 | 1,035 | 0 | 0 | 613 | 0 | 422 | 0 | 0 | 0 | 0 | 0 |
| 0 | 50 | DIST W/M REPLACEMENT 2013 - 2014 SC | 1/1/2013 | 12/31/2014 | -6,150 | 0 | 0 | 0 | 0 | -6,150 | 0 | 0 | 0 | 0 | 0 |
| 0 | 51 | DIST WM REPLACMENT - 2014 | 6/7/2013 | 6/7/2013 | 19,719 | 0 | 0 | 0 | 0 | 19,719 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | WATERMAIN UPGRADES - 2014 | 6/7/2013 | 6/7/2013 | 5,407 | 0 | 0 | 0 | 0 | 5,407 | 0 | 0 | 0 | 0 | 0 |
| 0 | 53 | W/M REPLACEMENT - STAND ALONE -2014 SC | 1/1/2014 | 12/31/2023 | -6,045 | 0 | 0 | 0 | 0 | -6,045 | 0 | 0 | 0 | 0 | 0 |
| 0 | 54 | WATERMAIN UPGRADES -2014 SC | 1/1/2014 | 12/31/2023 | 3,121 | 0 | 0 | -613 | 0 | 3,734 | 0 | 0 | 0 | 0 | 0 |
| 0 | 55 | WATERMAIN REPLACEMENT - METROLINX | 1/1/2014 | 12/31/2023 | 25 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | DIST W/M REPLACEMENT - 2012 - 2014 SC | 1/1/2014 | 12/31/2023 | -2,888 | 0 | 0 | 0 | 0 | -2,888 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 44,963 | 0 | 0 | 0 | 0 | 44,963 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906932** | **DIST W/M REHABILITATION** | | | | | | | | | | | | | |
| 0 | 1 | WATERMAIN CLEANING &LINING | 1/1/2013 | 12/31/2014 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| 0 | 4 | Hydrant & Valve Repair | 1/1/2007 | 12/31/2013 | 645 | 0 | 0 | 0 | 0 | 645 | 0 | 0 | 0 | 0 | 0 |
| 0 | 5 | CUT REPAIRS - 2014 SC | 1/1/2013 | 12/31/2013 | 1,994 | 0 | 0 | 0 | 0 | 1,994 | 0 | 0 | 0 | 0 | 0 |
| 0 | 6 | WATERMAIN STRUCTURAL LINING | 8/3/2006 | 12/31/2013 | 17,559 | 0 | 0 | 0 | 0 | 17,559 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | CATHODIC PROTECTION | 1/1/2012 | 12/31/2013 | 5,244 | 0 | 0 | 0 | 0 | 5,244 | 0 | 0 | 0 | 0 | 0 |
| 0 | 30 | CUT REPAIRS | 1/1/2010 | 12/31/2010 | 2,250 | 0 | 0 | 0 | 0 | 2,250 | 0 | 0 | 0 | 0 | 0 |
| 0 | 38 | Hydrant & Valve Repair -2014 SC | 1/1/2014 | 12/31/2023 | 355 | 0 | 0 | 0 | 0 | 355 | 0 | 0 | 0 | 0 | 0 |
| 0 | 39 | WATERMAIN STRUCTURAL LINING -2014 SC | 1/1/2014 | 12/31/2023 | 13,697 | 0 | 0 | 0 | 0 | 13,697 | 0 | 0 | 0 | 0 | 0 |
| 0 | 40 | CATHODIC PROTECTION -2014 SC | 1/1/2014 | 12/31/2023 | -1,209 | 0 | 0 | 0 | 0 | -1,209 | 0 | 0 | 0 | 0 | 0 |
| 0 | 41 | WATERMAIN CLEANING &LINING - 2014 SC | 1/1/2014 | 12/31/2023 | -56 | 0 | 0 | 0 | 0 | -56 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 40,679 | 0 | 0 | 0 | 0 | 40,679 | 0 | 0 | 0 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906934** | **DIST WATER SERVICE REPAIR** | | | | | | | | | | | | | |
| 0 | 12 | ALL DISTRICT WSR - LEAD REPLACEMENT | 1/1/2008 | 12/31/2013 | 10,000 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 20 | WATER SERVICE REPAIR - STAND ALONE | 10/10/2010 | 12/31/2013 | 514 | 0 | 0 | 0 | 0 | 514 | 0 | 0 | 0 | 0 | 0 |
| 0 | 32 | WSR CUT REPAIRS | 1/1/2013 | 12/31/2013 | 2,170 | 0 | 0 | 0 | 0 | 2,170 | 0 | 0 | 0 | 0 | 0 |
| 0 | 41 | 2013 WATER SERVICE REPLACMENT -SOGR | 1/1/2013 | 12/31/2014 | 1,834 | 0 | 0 | 0 | 0 | 1,834 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | 2014 WATER SERVICE REPLACEMENT - SOGR | 6/7/2013 | 6/7/2013 | 3,000 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 |
| 0 | 53 | ALL DISTRICT WSR - LEAD REPLACEMENT -2014 SC | 1/1/2014 | 12/31/2023 | -116 | 0 | 0 | 0 | 0 | -116 | 0 | 0 | 0 | 0 | 0 |
| 0 | 54 | WATER SERVICE REPAIR - STAND ALONE -2014 SC | 1/1/2014 | 12/31/2023 | 918 | 0 | 0 | 0 | 0 | 918 | 0 | 0 | 0 | 0 | 0 |
| 0 | 55 | WSR CUT REPAIRS - 2014 SC | 1/1/2014 | 12/31/2023 | -48 | 0 | 0 | 0 | 0 | -48 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | 2012 WATER SERVICE REPLACEMENT - 2014 SC | 1/1/2014 | 12/31/2023 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 |
| 0 | 57 | 2013 WATER SERVICE REPLACMENT -SOGR - 2014 SC | 1/1/2014 | 12/31/2023 | -207 | 0 | 0 | 0 | 0 | -207 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 18,149 | 0 | 0 | 0 | 0 | 18,149 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906935** | **NEW SERVICE CONNECTIONS** | | | | | | | | | | | | | |
| 0 | 2 | NEW SERVICE CONNECTIONS - CUT REPAIRS | 1/1/2009 | 12/31/2013 | 3,500 | 0 | 0 | 0 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | NEW SERVICE CONNECTIONS - SITE SERVICING | 1/1/2010 | 12/31/2013 | 14,000 | 0 | 0 | 0 | 0 | 14,000 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 17,500 | 0 | 0 | 0 | 0 | 17,500 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906951** | **ENGINEERING** | | | | | | | | | | | | | |
| 0 | 1 | ROAD RESTORATION - 2014 SC | 1/1/2013 | 12/31/2013 | 5,198 | 0 | 0 | 0 | 0 | 5,198 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | CONSULTING FEES | 1/1/2006 | 12/31/2015 | 5,834 | 0 | 0 | 0 | 0 | 5,834 | 0 | 0 | 0 | 0 | 0 |
| 0 | 37 | SALARIES: LEGAL SALARIES - 2014 SC | 1/1/2013 | 12/31/2013 | 188 | 0 | 0 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 |
| 0 | 45 | ECS SALARIES | 1/1/2014 | 12/31/2022 | 12,033 | 0 | 0 | 0 | 0 | 12,033 | 0 | 0 | 0 | 0 | 0 |
| 0 | 46 | SALARIES: DISTRICT OPERATIONS - 2014 SC | 1/1/2013 | 12/31/2013 | 623 | 0 | 0 | 0 | 0 | 623 | 0 | 0 | 0 | 0 | 0 |
| 0 | 50 | CONSULTING FEES -2014 SC | 1/1/2014 | 12/31/2023 | -2,618 | 0 | 0 | 0 | 0 | -2,618 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 21,258 | 0 | 0 | 0 | 0 | 21,258 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906977** | **ISLAND W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 1 | FACILITY & PROCESS UPGRADES | 1/1/2006 | 12/31/2016 | 491 | 0 | 0 | 0 | 0 | 491 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | FILTER MEDIA REPLC | 1/1/2012 | 12/31/2021 | 75 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 |
| 0 | 12 | FACILITY UPGRADE | 1/1/2014 | 12/31/2015 | 300 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 0 | 0 | 0 |
| 0 | 18 | VALVE CHAMBER UPGRADES | 1/1/2008 | 12/31/2013 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 20 | ISLAND SBS CONVERSION | 1/1/2010 | 12/31/2011 | 44 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 |
| 0 | 25 | ISLAND FILTER AIR SCOUR SYSTEM | 1/1/2009 | 12/31/2012 | 850 | 0 | 0 | 0 | 0 | 850 | 0 | 0 | 0 | 0 | 0 |
| 0 | 33 | ISLAND SEAWALL REHABILITATION | 1/1/2012 | 11/30/2014 | 1,336 | 0 | 0 | 0 | 0 | 1,336 | 0 | 0 | 0 | 0 | 0 |
| 0 | 44 | ISLAND ENWAVE/RETROFIT PROJECT | 1/1/2013 | 12/31/2014 | 1,100 | 0 | 0 | 0 | 0 | 1,100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 50 | AMMONIA AND FLOURIDE SYSTEM UPGRADES | 1/1/2014 | 12/31/2023 | 75 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 |

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Water Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAT906977** | **ISLAND W.T.P. R&R** | | | | | | | | | | | | | |
| 0 | 51 | CHEMICAL SYSTEMS ELEC FEED DISTRIBUTION | 1/1/2014 | 12/31/2023 | 55 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | CONDITION ASSESSMENT & REHAB OF RAW WATER WE | 9/18/2013 | 9/18/2013 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 56 | VALVE CHAMBER UPGRADES - 2014 SC | 1/1/2014 | 12/31/2023 | -100 | 0 | 0 | 0 | 0 | -100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 57 | ISLAND SBS CONVERSION - 2014 SC | 1/1/2014 | 12/31/2023 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 0 | 58 | FACILITY & PROCESS UPGRADES - 2014 SC | 1/1/2014 | 12/31/2023 | 507 | 0 | 0 | 0 | 0 | 507 | 0 | 0 | 0 | 0 | 0 |
| 0 | 59 | ISLAND SEAWALL REHABILITATION - 2014 SC | 1/1/2014 | 12/31/2023 | -616 | 0 | 0 | 0 | 0 | -616 | 0 | 0 | 0 | 0 | 0 |
| 0 | 60 | ISLAND FILTER AIR SCOUR SYSTEM - 2014 SC | 1/1/2014 | 12/31/2023 | 0 | 0 | 0 | 52 | 0 | -52 | 0 | 0 | 0 | 0 | 0 |
| 0 | 61 | ISLAND ENWAVE/RETROFIT PROJECT - 2014 SC | 1/1/2014 | 12/31/2023 | -926 | 0 | 0 | 0 | 0 | -926 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 3,397 | 0 | 0 | 52 | 0 | 3,345 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAT906979** | **D2/D4 TRUNK WATERMAIN UPGRADES** | | | | | | | | | | | | | |
| 0 | 4 | JOS - NEILSON (ELLESMERE-SHEPPARD) WM CONSTRUC | 1/1/2009 | 12/31/2014 | 1,170 | 0 | 0 | 157 | 0 | 583 | 0 | 0 | 430 | 0 | 0 |
| 0 | 29 | JOS -NEILSON(ELLESMERE-SHEPPARD)WM CONS -2014 S | 1/1/2014 | 12/31/2023 | 130 | 0 | 0 | 191 | 0 | -110 | 0 | 0 | 49 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,300 | 0 | 0 | 348 | 0 | 473 | 0 | 0 | 479 | 0 | 0 |
| **0** | **WAT907946** | **BUSINESS IT PROJECTS** | | | | | | | | | | | | | |
| 0 | 1 | BUSINESS INTELLIGENCE INITIATIVES | 1/1/2012 | 12/31/2016 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | BACKFLOW INSPECTION PORTAL | 5/27/2013 | 5/27/2013 | 250 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | DISASTER RECOVERY - DRP - 2014 SC | 5/27/2013 | 5/27/2013 | 121 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 |
| 0 | 4 | EDOCS | 5/27/2013 | 5/27/2013 | 50 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 |
| 0 | 5 | BACKFLOW INSPECTION PORTAL -2014 SC | 1/1/2014 | 12/31/2023 | -250 | 0 | 0 | 0 | 0 | -250 | 0 | 0 | 0 | 0 | 0 |
| 0 | 6 | EDOCS -2014 SC | 1/1/2014 | 12/31/2023 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT | 1/1/2014 | 12/31/2023 | 875 | 0 | 0 | 0 | 0 | 875 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | BUSINESS INTELLIGENCE INITIATIVES - 2014 SC | 9/18/2013 | 9/18/2013 | -150 | 0 | 0 | 0 | 0 | -150 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | DISASTER RECOVERY | 9/20/2013 | 9/20/2013 | 84 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,505 | 0 | 0 | 0 | 0 | 1,505 | 0 | 0 | 0 | 0 | 0 |
| **Program Total:** | | | | | 264,998 | 0 | 0 | 7,715 | 0 | 241,320 | 0 | 0 | 15,963 | 0 | 0 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |
| S3 | S3 Prior Year - Change of Scope 2014 and\or Future Year Cost\Cashflow) |
| S4 | S4 New - Stand-Alone Project (Current Year Only) |
| S5 | S5 New (On-going or Phased Projects) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |

| Category Code | Description |
| --- | --- |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS000007** | **ASHBRIDGES BAY WWTP REHAB** | | | | | | | | | | | | | |
| 0 | 17 | STANDBY POWER GENERATION | 1/1/2010 | 12/31/2015 | 2,109 | 0 | 0 | 63 | 0 | 2,046 | 0 | 0 | 0 | 0 | 0 |
| 0 | 19 | FERROUS UPGRADES | 1/1/2012 | 12/31/2017 | 600 | 0 | 0 | 18 | 0 | 582 | 0 | 0 | 0 | 0 | 0 |
| 0 | 30 | ELECTRICAL REHAB | 1/1/2010 | 12/31/2015 | 780 | 0 | 0 | 0 | 0 | 780 | 0 | 0 | 0 | 0 | 0 |
| 0 | 41 | POLYMER UPGRADE | 1/1/2012 | 12/31/2016 | 560 | 0 | 0 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 0 |
| 0 | 46 | Rehab of Grounds and Buildings | 1/1/2010 | 12/31/2015 | 203 | 0 | 0 | 0 | 0 | 203 | 0 | 0 | 0 | 0 | 0 |
| 0 | 47 | PT ENGINEERING DESIGN & CONTRACT ADMIN | 1/1/2010 | 12/31/2019 | 220 | 0 | 0 | 6 | 0 | 214 | 0 | 0 | 0 | 0 | 0 |
| 0 | 49 | PROCESS UPGRADES AND ODOUR CONTROL ENGINEER | 1/1/2010 | 12/31/2016 | 624 | 0 | 0 | 19 | 0 | 605 | 0 | 0 | 0 | 0 | 0 |
| 0 | 189 | PROCESS AND EQUIPMENT | 1/1/2013 | 12/31/2016 | 2,100 | 0 | 0 | 0 | 0 | 2,100 | 0 | 0 | 0 | 0 | 0 |
| 0 | 190 | FACILITY AND GROUNDS | 1/1/2013 | 12/31/2018 | 436 | 0 | 0 | 0 | 0 | 436 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 7,632 | 0 | 0 | 106 | 0 | 7,526 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS000259** | **TRUNK SEWER SYSTEM** | | | | | | | | | | | | | |
| 0 | 15 | TRUNK SEVWER REHAB-2012 | 1/1/2012 | 12/31/2015 | 1,414 | 0 | 0 | 0 | 0 | 1,414 | 0 | 0 | 0 | 0 | 0 |
| 0 | 23 | TRUNK SEWER REHABILITATION | 1/1/2010 | 12/31/2015 | 170 | 0 | 0 | 0 | 0 | 170 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,584 | 0 | 0 | 0 | 0 | 1,584 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS000442** | **BASEMENT FLOODING RELIEF** | | | | | | | | | | | | | |
| 0 | 8 | BASEMENT FLOODING STUDIES & EAS | 1/1/2006 | 12/31/2014 | 1,247 | 0 | 0 | 0 | 0 | 1,247 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | BASEMENT FLOODING RELIEF - TUNNEL PROJECT | 1/1/2014 | 12/31/2022 | 510 | 0 | 0 | 0 | 0 | 510 | 0 | 0 | 0 | 0 | 0 |
| 0 | 12 | ROAD RESTORATION FOR BSMT FLDG | 1/1/2013 | 12/31/2013 | 2,013 | 0 | 0 | 0 | 0 | 2,013 | 0 | 0 | 0 | 0 | 0 |
| 0 | 14 | BASEMENT FLOODING DESIGN - GROUP 1 | 1/1/2008 | 12/31/2013 | 1,288 | 0 | 0 | 0 | 0 | 1,288 | 0 | 0 | 0 | 0 | 0 |
| 0 | 29 | BASEMENT FLOODING RELIEF - GROUP 1 | 9/25/2009 | 6/30/2014 | 16,500 | 0 | 0 | 0 | 0 | 16,500 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 21,558 | 0 | 0 | 0 | 0 | 21,558 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906322** | **W&WW LABORATORIES** | | | | | | | | | | | | | |
| 0 | 9 | LAB EQUIPMENT | 1/1/2010 | 12/31/2015 | 12 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 12 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906328** | **SWM END OF PIPE FACILITIES** | | | | | | | | | | | | | |
| 0 | 9 | NORTH TORONTO CSO CONSTR | 1/1/2013 | 12/31/2015 | 500 | 0 | 0 | 50 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 500 | 0 | 0 | 50 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906380** | **HIGHLAND CREEK WWTP - ODOUR CONTROL** | | | | | | | | | | | | | |
| 0 | 1 | ODOUR CONTROL UPGRADES - PHASE 1 ENG | 1/1/2010 | 12/31/2019 | 226 | 0 | 0 | 5 | 0 | 221 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | ODOUR CONTROL UPGRADES PHASE 1 CONST | 1/1/2013 | 12/31/2017 | 760 | 0 | 0 | 15 | 0 | 745 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 986 | 0 | 0 | 20 | 0 | 966 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906486** | **ASHBRIDGES BAY T.P. - III YR2004** | | | | | | | | | | | | | |

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS906486** | **ASHBRIDGES BAY T.P. - III YR2004** | | | | | | | | | | | | | |
| 0 | 3 | PCS-PLANT SRVS | 1/1/2004 | 12/31/2016 | 1,130 | 0 | 0 | 34 | 0 | 1,096 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,130 | 0 | 0 | 34 | 0 | 1,096 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906487** | **HIGHLAND CREEK T.P. - IV YR2004** | | | | | | | | | | | | | |
| 0 | 2 | PCS PLANT SERVICES | 1/1/2004 | 6/30/2014 | 34 | 0 | 0 | 1 | 0 | 33 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 34 | 0 | 0 | 1 | 0 | 33 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906488** | **HUMBER T.P. - II YR2004** | | | | | | | | | | | | | |
| 0 | 2 | PCS PLANT SERVICES | 1/1/2004 | 12/31/2014 | 33 | 0 | 0 | 1 | 0 | 32 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 33 | 0 | 0 | 1 | 0 | 32 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906492** | **WET WEATHER FLOW MP** | | | | | | | | | | | | | |
| 0 | 1 | SWM INA-EA | 1/1/2004 | 12/31/2021 | 380 | 0 | 0 | 38 | 0 | 342 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | WWFMP - PUBLIC EDUCATION | 1/1/2004 | 12/31/2016 | 360 | 0 | 0 | 18 | 0 | 342 | 0 | 0 | 0 | 0 | 0 |
| 0 | 14 | WWFMP IMPLEMENTATION - DESIGN&CONTRACT ADMIN | 6/30/2009 | 12/31/2014 | 507 | 0 | 0 | 50 | 0 | 457 | 0 | 0 | 0 | 0 | 0 |
| 0 | 44 | SWM CONVEYANCE 2013 | 10/12/2012 | 10/12/2012 | 1,710 | 0 | 0 | 170 | 0 | 1,540 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 2,957 | 0 | 0 | 276 | 0 | 2,681 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906495** | **SEWER ASSET PLANNING** | | | | | | | | | | | | | |
| 0 | 5 | Sewer Asset Planning | 1/17/2006 | 12/31/2016 | 194 | 0 | 0 | 0 | 0 | 194 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | Sewer System Inspection | 1/1/2010 | 12/31/2013 | 1,920 | 0 | 0 | 0 | 0 | 1,920 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 2,114 | 0 | 0 | 0 | 0 | 2,114 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906500** | **NEW SEWER CONSTRUCTION** | | | | | | | | | | | | | |
| 0 | 5 | NEW SEWERS | 1/1/2008 | 12/31/2013 | 202 | 0 | 0 | 182 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 202 | 0 | 0 | 182 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906735** | **DIST SEWER REHAB OPS YR2005** | | | | | | | | | | | | | |
| 0 | 10 | GROUP 1 SEWAGE PUMPING STATION UPGRADES | 1/1/2012 | 12/31/2013 | 300 | 0 | 0 | 23 | 0 | 277 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 300 | 0 | 0 | 23 | 0 | 277 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906741** | **HIGHLAND CREEK TP YR2005** | | | | | | | | | | | | | |
| 0 | 1 | WAS THICKENING AND DEWATERING ENG | 3/1/2005 | 12/31/2018 | 250 | 0 | 0 | 4 | 0 | 246 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 250 | 0 | 0 | 4 | 0 | 246 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906742** | **HUMBER TP YR2005** | | | | | | | | | | | | | |
| 0 | 8 | ODOUR CONTROL ENGINEERING | 1/1/2007 | 12/31/2016 | 261 | 0 | 0 | 2 | 0 | 259 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 261 | 0 | 0 | 2 | 0 | 259 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906743** | **ASHRIDGES BAY TP YR2005** | | | | | | | | | | | | | |

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS906743** | **ASHRIDGES BAY TP YR2005** | | | | | | | | | | | | | |
| 0 | 1 | Process & Equip Upgrades | 3/1/2005 | 12/31/2016 | 140 | 0 | 0 | 4 | 0 | 136 | 0 | 0 | 0 | 0 | 0 |
| 1 | 4 | M & T IMPROVEMENTS (EQUIPMENT) | 1/1/2005 | 12/31/2014 | 1,817 | 0 | 0 | 0 | 0 | 1,817 | 0 | 0 | 0 | 0 | 0 |
| 1 | 7 | SERVICE AIR UPGRADES | 1/1/2008 | 12/31/2016 | 2,400 | 0 | 0 | 0 | 0 | 2,400 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 4,357 | 0 | 0 | 4 | 0 | 4,353 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906926** | **OPERATIONAL SUPPORT** | | | | | | | | | | | | | |
| 0 | 1 | DIVISIONAL SECURITY | 1/1/2006 | 12/31/2014 | 164 | 0 | 0 | 0 | 0 | 164 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | RENOVATION - MERTON STREET | 1/1/2012 | 12/31/2012 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 0 | 17 | Desginated Substance Abatement | 8/15/2006 | 12/31/2014 | 73 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 240 | 0 | 0 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906958** | **SEWER SYSTEM REHABILITATION** | | | | | | | | | | | | | |
| 0 | 2 | Group 2 & 3 Sewage P.S. Upgrades | 1/1/2005 | 12/31/2013 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 0 | 5 | CCTV Inspection | 1/14/2006 | 12/31/2013 | 123 | 0 | 0 | 0 | 0 | 123 | 0 | 0 | 0 | 0 | 0 |
| 0 | 6 | LATERAL REHAB | 8/14/2006 | 12/31/2013 | 399 | 0 | 0 | 0 | 0 | 399 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | SPS SCADA UPGRADES - ENGINEERING | 1/1/2008 | 12/31/2014 | 402 | 0 | 0 | 0 | 0 | 402 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | SEWER REHABILITATION | 1/1/2008 | 12/31/2013 | 3,873 | 0 | 0 | 0 | 0 | 3,873 | 0 | 0 | 0 | 0 | 0 |
| 0 | 23 | SEWAGE PUMPING STATION STANDBY POWER | 1/1/2010 | 12/31/2014 | 809 | 0 | 0 | 0 | 0 | 809 | 0 | 0 | 0 | 0 | 0 |
| 0 | 24 | GROUP 5 SEWAGE PUMPING STATION CAPACITY UPGRA | 1/1/2009 | 12/31/2016 | 325 | 0 | 0 | 24 | 0 | 301 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 5,937 | 0 | 0 | 24 | 0 | 5,913 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906960** | **STREAM RESTORATION & EROSION CONTROL** | | | | | | | | | | | | | |
| 0 | 7 | STREAM RESTORATION | 1/1/2008 | 12/31/2016 | 83 | 0 | 0 | 8 | 0 | 75 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 83 | 0 | 0 | 8 | 0 | 75 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906964** | **CONVEYANCE CONTROLS - REPLC & REHAB** | | | | | | | | | | | | | |
| 0 | 9 | 2008 STORM SEWER REHABILITATION | 1/1/2010 | 12/31/2010 | 18 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 |
| 0 | 18 | COATSWORTH CUT - PHASE 1 CONSTRUCTION | 1/1/2012 | 12/31/2013 | 43 | 0 | 0 | 4 | 0 | 39 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 61 | 0 | 0 | 4 | 0 | 57 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906968** | **ENGINEERING** | | | | | | | | | | | | | |
| 0 | 2 | CONSULTING FEES | 1/1/2006 | 12/31/2016 | 928 | 0 | 0 | 0 | 0 | 928 | 0 | 0 | 0 | 0 | 0 |
| 0 | 31 | ROAD RESTORATION | 1/1/2012 | 12/31/2021 | 118 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,046 | 0 | 0 | 0 | 0 | 1,046 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906973** | **SEWER REPLACEMENT PROGRAM** | | | | | | | | | | | | | |
| 0 | 24 | SEWAGE FORCEMAIN REPLACEMENT | 1/1/2010 | 12/31/2010 | 743 | 0 | 0 | 0 | 0 | 743 | 0 | 0 | 0 | 0 | 0 |
| 0 | 35 | SEWER REPLACMENT - 2013 PROGRAM | 1/1/2013 | 12/31/2014 | 6,598 | 0 | 0 | 0 | 0 | 6,598 | 0 | 0 | 0 | 0 | 0 |

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS906973** | **SEWER REPLACEMENT PROGRAM** | | | | | | | | | | | | | |
| 0 | 44 | COXWELL TRUNK EMERGENCY REPAIR | 1/1/2013 | 12/31/2022 | 747 | 0 | 0 | 0 | 0 | 747 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 8,088 | 0 | 0 | 0 | 0 | 8,088 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906980** | **ASHBRIDGES BAY T.P. YR2006** | | | | | | | | | | | | | |
| 0 | 8 | MEDIATION AGREEMENT IMPLEMENTATION - PART 2 | 1/1/2006 | 12/31/2015 | 20 | 0 | 0 | 1 | 0 | 19 | 0 | 0 | 0 | 0 | 0 |
| 0 | 9 | DEWATERING EQUIPMENT UPGRADES | 1/1/2006 | 12/31/2016 | 80 | 0 | 0 | 2 | 0 | 78 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 100 | 0 | 0 | 3 | 0 | 97 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906981** | **HIGHLAND CREEK WWTP UPGRADES** | | | | | | | | | | | | | |
| 0 | 1 | PROCESS & FACILITY UPGRADE | 1/1/2006 | 12/31/2017 | 1,245 | 0 | 0 | 0 | 0 | 1,245 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | BIOSOLIDS TREATMENT UPGRADES | 1/1/2006 | 12/31/2018 | 4,522 | 0 | 0 | 90 | 0 | 4,432 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | MECH & ELECTRICAL UPGRADE ENGINEERING | 1/1/2007 | 12/31/2015 | 425 | 0 | 0 | 0 | 0 | 425 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | DIGESTER GAS SYSTEM UPGRADES | 1/1/2010 | 12/31/2016 | 160 | 0 | 0 | 0 | 0 | 160 | 0 | 0 | 0 | 0 | 0 |
| 0 | 16 | MECH SYSTEMS UPGRADES - CONSTR | 10/1/2008 | 12/31/2014 | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 |
| 0 | 23 | ELECTRICAL UPGRADES-ECAR | 1/1/2012 | 12/31/2016 | 942 | 0 | 0 | 0 | 0 | 942 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 7,494 | 0 | 0 | 90 | 0 | 7,404 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906982** | **HUMBER WWTP UPGRADES** | | | | | | | | | | | | | |
| 0 | 1 | BUILDING UPGRADE ENGINEERING | 1/1/2006 | 12/31/2012 | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | Chlorine Building Upgrade | 1/1/2010 | 12/31/2015 | 3,026 | 0 | 0 | 0 | 0 | 3,026 | 0 | 0 | 0 | 0 | 0 |
| 0 | 5 | FLOOD PROTECTION | 1/1/2012 | 12/31/2013 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 |
| 0 | 6 | NEW SUBSTATION | 1/1/2006 | 6/30/2014 | 634 | 0 | 0 | 0 | 0 | 634 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | ELECTRICAL CONDITION ASSESSMENT RECOMMENDATI | 1/1/2010 | 12/31/2021 | 982 | 0 | 0 | 0 | 0 | 982 | 0 | 0 | 0 | 0 | 0 |
| 0 | 8 | NEW GROUNDSKEEPING BUILDING and RAS Control Room | 1/1/2012 | 12/31/2013 | 1,040 | 0 | 0 | 0 | 0 | 1,040 | 0 | 0 | 0 | 0 | 0 |
| 0 | 52 | HVAC UPGRADES | 1/1/2013 | 12/31/2015 | 576 | 0 | 0 | 0 | 0 | 576 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 6,424 | 0 | 0 | 0 | 0 | 6,424 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS906994** | **HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING** | | | | | | | | | | | | | |
| 0 | 1 | HCTP BIOSOLIDS IMPLEMENTATION - ENGINEERING | 1/1/2012 | 12/31/2021 | 211 | 0 | 0 | 4 | 0 | 207 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | WAS THICKENING AND DEWATERING CONSTR | 1/1/2010 | 12/31/2016 | 83 | 0 | 0 | 2 | 0 | 81 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 294 | 0 | 0 | 6 | 0 | 288 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907097** | **ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV** | | | | | | | | | | | | | |
| 0 | 19 | CITY IMPROVEMENTS RE: TH COGEN | 1/1/2012 | 12/31/2018 | 120 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 120 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907098** | **ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM** | | | | | | | | | | | | | |
| 0 | 1 | ABTP DISINFECTION ENGINEERING | 1/1/2010 | 12/31/2021 | 498 | 0 | 0 | 15 | 0 | 483 | 0 | 0 | 0 | 0 | 0 |

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## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS907098** | **ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM** | | | | | | | | | | | | | |
| 0 | 13 | ABTP OUTFALL ASSESSMENT | 1/1/2012 | 12/31/2013 | 213 | 0 | 0 | 6 | 0 | 207 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 711 | 0 | 0 | 21 | 0 | 690 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907099** | **ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING** | | | | | | | | | | | | | |
| 0 | 1 | FINE BUBBLE AERATION IMPLEMENTATION | 1/1/2013 | 12/31/2015 | 2,450 | 0 | 0 | 74 | 0 | 2,376 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | PRIMARY TREATMENT UPGRADE CONT #1 | 1/1/2010 | 12/31/2016 | 7,480 | 0 | 0 | 225 | 0 | 7,255 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | Primary and Secondary Tanks Rehabilitation | 1/1/2012 | 12/31/2013 | 414 | 0 | 0 | 13 | 0 | 401 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 10,344 | 0 | 0 | 312 | 0 | 10,032 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907100** | **ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING** | | | | | | | | | | | | | |
| 0 | 3 | WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING | 1/1/2012 | 12/31/2021 | 960 | 0 | 0 | 29 | 0 | 931 | 0 | 0 | 0 | 0 | 0 |
| 0 | 4 | DIGESTERS 9-12 REFURBISHMENT | 1/1/2012 | 12/31/2017 | 520 | 0 | 0 | 15 | 0 | 505 | 0 | 0 | 0 | 0 | 0 |
| 0 | 25 | PELLETIZER TRUCK LOADING FACILITY UPGRADES | 10/9/2012 | 10/9/2012 | 480 | 0 | 0 | 0 | 0 | 480 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,960 | 0 | 0 | 44 | 0 | 1,916 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907101** | **ASHBRIDGES BAY WWTP - O&M UPGRADES** | | | | | | | | | | | | | |
| 0 | 5 | PROCESS & EQUIP UPGRADES | 1/1/2010 | 12/31/2016 | 46 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 |
| 0 | 7 | MISC MECH REHAB | 1/1/2010 | 12/31/2015 | 1,216 | 0 | 0 | 0 | 0 | 1,216 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,262 | 0 | 0 | 0 | 0 | 1,262 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907102** | **ASHBRIDGES BAY WWTP - ODOUR CONTROL** | | | | | | | | | | | | | |
| 0 | 6 | BIOFILTERS UPGRADE | 1/1/2012 | 12/31/2015 | 346 | 0 | 0 | 10 | 0 | 336 | 0 | 0 | 0 | 0 | 0 |
| 0 | 13 | D BUILDING TREATMENT & BIOFILTER | 1/1/2010 | 12/31/2013 | 1,200 | 0 | 0 | 36 | 0 | 1,164 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,546 | 0 | 0 | 46 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907104** | **HUMBER WWTP - LIQUID TREATMENT & HANDLING** | | | | | | | | | | | | | |
| 0 | 2 | SECONDARY TREATMENT UPGRADES | 1/1/2010 | 12/31/2021 | 973 | 0 | 0 | 10 | 0 | 963 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 973 | 0 | 0 | 10 | 0 | 963 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907106** | **HUMBER WWTP - ODOUR CONTROL** | | | | | | | | | | | | | |
| 0 | 1 | Odour Control Implementation Phase 1 | 1/1/2012 | 12/31/2018 | 1,600 | 0 | 0 | 16 | 0 | 1,584 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,600 | 0 | 0 | 16 | 0 | 1,584 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907224** | **SEWAGE PUMPING STATION UPGRADES** | | | | | | | | | | | | | |
| 0 | 1 | SPS UPGRADES | 1/1/2011 | 12/31/2019 | 1,572 | 0 | 0 | 118 | 0 | 1,454 | 0 | 0 | 0 | 0 | 0 |
| 0 | 4 | SUNNYSIDE AND MARYPORT SPS UPGRADES | 1/1/2012 | 12/31/2014 | 416 | 0 | 0 | 31 | 0 | 385 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 1,988 | 0 | 0 | 149 | 0 | 1,839 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907559** | **DON & WATERFRONT TRUNK CSO** | | | | | | | | | | | | | |

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2

TORONTO

# CITY OF TORONTO

## Appendix 5: 2014 Recommended Capital Project with Financing Details

### Wastewater Program

### Sub-Project Summary

| Project/Financing Priority | Project | Project Name | Start Date | Completion Date | 2014 Cash Flow | Financing | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Provincial Grants Subsidies | Federal Subsidy | Developmt Charges | Reserves | Reserve Funds | Capital From Current | Other 1 | Other 2 | Debt | Debt - Recoverable |
| **0** | **WAS907559** | **DON & WATERFRONT TRUNK CSO** | | | | | | | | | | | | | |
| 0 | 1 | DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN | 1/1/2012 | 12/31/2021 | 640 | 0 | 0 | 64 | 0 | 576 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 640 | 0 | 0 | 64 | 0 | 576 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WAS907700** | **NORTH TORONTO WTP UPGRADES** | | | | | | | | | | | | | |
| 0 | 2 | NTTP-ELECTRICAL UPGRADES | 1/1/2012 | 12/31/2018 | 450 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 450 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WASWP003** | **EMERY CREEK POND** | | | | | | | | | | | | | |
| 0 | 1 | EMERY CREEK POND | 1/1/2010 | 12/31/2016 | 608 | 0 | 0 | 61 | 0 | 547 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 608 | 0 | 0 | 61 | 0 | 547 | 0 | 0 | 0 | 0 | 0 |
| **0** | **WASWP050** | **EQUIPMENT REPLACEMENT & REHABILITATION** | | | | | | | | | | | | | |
| 0 | 35 | MTI REAL TIME CONTROL | 1/1/2010 | 12/31/2015 | 200 | 0 | 0 | 10 | 0 | 190 | 0 | 0 | 0 | 0 | 0 |
| 1 | 78 | North Primaries Pumping Equipment | 1/1/2012 | 12/31/2015 | 394 | 0 | 0 | 0 | 0 | 394 | 0 | 0 | 0 | 0 | 0 |
| | | **Project Sub-total:** | | | 594 | 0 | 0 | 10 | 0 | 584 | 0 | 0 | 0 | 0 | 0 |
| **Program Total:** | | | | | 96,473 | 0 | 0 | 1,571 | 0 | 94,902 | 0 | 0 | 0 | 0 | 0 |

| Status Code | Description |
|---|---|
| S2 | S2 Prior Year (With 2014 and\or Future Year Cashflow) |

| Category Code | Description |
|---|---|
| 01 | Health and Safety C01 |
| 02 | Legislated C02 |
| 03 | State of Good Repair C03 |
| 04 | Service Improvement and Enhancement C04 |
| 05 | Growth Related C05 |
| 06 | Reserved Category 1 C06 |
| 07 | Reserved Category 2 C07 |

## Reserve/Reserve Fund Review - Program Specific

| Table 2 | | Projected | Proposed Withdrawals | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Reserve / Reserve Fund Name** | **Project / SubProject Name and Number** | Balance as at Dec. 31, | 2014 Rec. Budget | 2015 Plan | 2016 Plan | 2017 Plan | 2018 Plan | 2019 Plan | 2020 Plan | 2021 Plan | 2022 Plan | 2023 Plan | 2014 - 2023 Total |
| | Beginning Balance | $50,313 | 48,247 | 43,456 | 37,954 | 35,031 | 28,545 | 26,577 | 26,839 | 27,520 | 27,185 | 23,191 | |
| Sanitary Sewer DC Reserve Fund | ASHBRIDGES BAY T.P. - III YR2004 | | (91) | (123) | (4) | (2) | | | | | | | **(220)** |
| | ASHBRIDGES BAY T.P. YR2006 | | (66) | (132) | (179) | | | | | | | | **(377)** |
| XR2026 DC - Sewer (2004) | ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM | | (97) | (320) | (779) | (2,286) | (4,041) | (4,610) | (3,103) | (4,571) | (4,298) | (4,621) | **(28,726)** |
| | ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING | | (2,017) | (2,944) | (3,066) | (2,744) | (3,413) | (1,546) | (2,414) | (2,511) | (2,511) | (2,511) | **(25,677)** |
| | ASHBRIDGES BAY WWTP - ODOUR CONTROL | | (185) | (680) | (704) | (493) | | | | | | | **(2,062)** |
| | ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING | | (213) | (229) | (1,448) | (1,811) | (1,796) | (888) | (887) | (732) | | | **(8,004)** |
| | ASHBRIDGES BAY WWTP REHAB | | (710) | (624) | (692) | (626) | (329) | (41) | (4) | | | | **(3,026)** |
| | ASHRIDGES BAY TP YR2005 | | (11) | (39) | (26) | (37) | (7) | | | | | | **(120)** |
| | DIST SEWER REHAB OPS YR2005 | | (24) | (15) | (1) | | | | | | | | **(40)** |
| | CSO | | (147) | (530) | (961) | (1,799) | (2,281) | (2,333) | (1,915) | (1,496) | (1,689) | (2,512) | **(15,663)** |
| | HIGHLAND CREEK T.P. - IV YR2004 | | (17) | (5) | | | | | | | | | **(22)** |
| | HIGHLAND CREEK TP YR2005 | | (20) | (26) | (25) | | | | | | | | **(71)** |
| | HIGHLAND CREEK WWTP - O&M UPGRADES | | | | | | | | | | | (145) | **(145)** |
| | ODOUR CONTROL | | (439) | (1,248) | (1,246) | (1,271) | (1,234) | (1,095) | (556) | (545) | (285) | | **(7,919)** |
| | HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING | | (230) | (588) | (567) | (386) | (1,448) | (1,609) | (1,468) | (1,468) | (724) | (58) | **(8,546)** |
| | HIGHLAND CREEK WWTP UPGRADES | | (546) | (881) | (1,750) | (1,725) | (876) | (99) | | | | | **(5,877)** |
| | HUMBER T.P. - II YR2004 | | (8) | (14) | | (1) | | | | | | | **(23)** |
| | HUMBER TP YR2005 | | (42) | (2) | | | | | | | | | **(44)** |
| | HUMBER WWTP - O&M UPGRADES | | (4) | (20) | | | | | | | | | **(24)** |
| | HUMBER WWTP - ODOUR CONTROL | | (402) | (1,207) | (1,610) | (1,610) | (402) | | | | | | **(5,231)** |
| | LAWRENCE ALLAN REVITALIZATION PLAN | | | (6,471) | (1,200) | (5,437) | | | | | | | **(13,108)** |
| | NEW SEWER CONSTRUCTION | | (126) | (2,622) | (4,373) | (2,973) | (1,573) | (2,173) | (2,773) | (2,773) | (2,773) | (2,773) | **(24,932)** |
| | SEWAGE PUMPING STATION UPGRADES | | (745) | (438) | (165) | (32) | | | | | | | **(1,380)** |
| | SEWER ASSET PLANNING | | (100) | (147) | (97) | (48) | (48) | (48) | (48) | (48) | (48) | (48) | **(680)** |
| | SEWER REPLACEMENT PROGRAM | | (11,081) | (1,330) | (1,497) | (1,690) | (1,931) | (2,173) | (2,414) | (2,656) | (2,656) | (2,414) | **(29,842)** |
| | SEWER SYSTEM REHABILITATION | | (183) | (378) | (504) | (424) | (324) | (2) | | | | | **(1,815)** |
| | TRUNK SEWER SYSTEM | | | | (187) | (373) | (1,867) | (2,986) | (3,733) | (3,733) | (9,332) | (9,332) | **(31,543)** |
| | WESTERN BEACHES RETROFIT | | (64) | (205) | (205) | | | | | | | | **(474)** |
| | Total Proposed Withdrawals | **($4,584)** | (17,568) | (21,218) | (21,286) | (25,768) | (21,570) | (19,603) | (19,315) | (20,533) | (24,316) | (24,414) | **(215,591)** |
| | Projected Contributions | $2,518 | 12,777 | 15,716 | 18,363 | 19,282 | 19,602 | 19,865 | 19,996 | 20,198 | 20,322 | 20,729 | **186,850** |
| **TOTAL RESERVE FUND BALANCE AT YEAR-END** | | **$48,247** | **43,456** | **37,954** | **35,031** | **28,545** | **26,577** | **26,839** | **27,520** | **27,185** | **23,191** | **19,506** | |

## Reserve/Reserve Fund Review - Program Specific

| Table 3 | | Projected | Proposed Withdrawals | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Reserve / Reserve Fund Name** | **Project / SubProject Name and Number** | Balance as at Dec. 31, | 2014 Rec. Budget | 2015 Plan | 2016 Plan | 2017 Plan | 2018 Plan | 2019 Plan | 2020 Plan | 2021 Plan | 2022 Plan | 2023 Plan | 2014 - 2023 Total |
| | Beginning Balance | $12,860 | 14,697 | 11,108 | 12,803 | 15,821 | 18,902 | 21,889 | 24,137 | 25,829 | 26,612 | 28,642 | |
| | EMERY CREEK POND | | (194) | (205) | (44) | | | | | | | | **(443)** |
| Storm Water Management DC Reserve Fund | Land Acquisition for Source Water Protect | | (564) | (564) | (161) | (161) | (161) | (161) | (161) | (161) | (161) | (161) | **(2,416)** |
| | SEWER REPLACEMENT PROGRAM | | (4,860) | | | | | | | | | | **(4,860)** |
| XR2113 DC - SWM (2009) XR2404 DC - SWM (2004) | STREAM RESTORATION & EROSION CONTROL | | (607) | (684) | (432) | (616) | (452) | (831) | (952) | (976) | (831) | (831) | **(7,212)** |
| | SWM TRCA FUNDING | | (320) | (327) | (336) | (344) | (353) | (361) | (371) | (380) | (389) | (399) | **(3,580)** |
| | SWM END OF PIPE FACILITIES | | (96) | (546) | (535) | (528) | (772) | (1,160) | (1,620) | (2,549) | (1,247) | (2,414) | **(11,467)** |
| | WET WEATHER FLOW MP | | (357) | (172) | (373) | (414) | (504) | (539) | (539) | (539) | (764) | (764) | **(4,965)** |
| | Total Proposed Withdrawals | ($1,578) | (6,998) | (2,498) | (1,881) | (2,063) | (2,242) | (3,052) | (3,643) | (4,605) | (3,392) | (4,569) | **(34,943)** |
| | Projected Contributions | $3,415 | 3,409 | 4,193 | 4,899 | 5,144 | 5,229 | 5,300 | 5,335 | 5,388 | 5,422 | 5,530 | **49,849** |
| **TOTAL RESERVE FUND BALANCE AT YEAR-END** | | **$14,697** | **11,108** | **12,803** | **15,821** | **18,902** | **21,889** | **24,137** | **25,829** | **26,612** | **28,642** | **29,603** | |

* Based on 3rd Quarter Variance Report

# SECTION 3c

# TORONTO WATER

# Water Rates

TORONTO

# STAFF REPORT
# ACTION REQUIRED

# 2014 Water and Wastewater Rates and Service Fees

| | |
|---|---|
| **Date:** | October 30, 2013 |
| **To:** | Budget Committee |
| **From:** | Deputy City Manager and Chief Financial Officer<br>General Manager, Toronto Water |
| **Wards:** | All Wards |
| **Reference Number:** | P:\2013\Internal Services\Cf\Bc13024cf (AFS #18624) |

## SUMMARY

This report presents the recommended 2014 water and wastewater consumption rates and service fees arising from concurrent adoption of the recommended 2014 Toronto Water Operating and Capital Budgets. Consistent with the funding strategy of 9% water rate increases until 2014, adopted by City Council in 2005, it is recommended that the Block 1 and Block 2 rates for all users and flat rate accounts be increased by 9% effective January 1st, 2014. In addition, this report recommends inflationary fee increases for certain water and wastewater services, reflecting cost recovery for these services, and the introduction of the following new water and wastewater services fees: a minimum fee for sanitary discharge permits; a fee for CCTV inspections; a fee for lost or damaged automated meter reading transmitters; a manual water meter reading fee, an annual flat rate legacy fee for residential flat rate consumers and a fee related to the administration of the water supply backflow prevention program. In addition, this report recommends the transfer of certain services fees to Toronto Water from Engineering and Construction Services, formerly Technical Services, related to routine disclosure record searches for Sewers By-law compliance violations and, also, the Ministry of the Environment Transfer of Review Program.

## RECOMMENDATIONS

**The Deputy City Manager and Chief Financial Officer, and the General Manager, Toronto Water, recommend that:**

1. This report be considered concurrently with the 2014-2023 Capital Plan and the 2014 Operating Budget, and that:

a. Effective January 1, 2014, the combined water and wastewater rates charged to metered consumers shall be as shown below and in Appendix B attached to this report;

| Annual Consumption | Paid on or before the due date, $/m3 | Paid after the due date, $/m3 |
|---|---|---|
| Block 1 - All consumers, including Industrial consumption of first 6,000 $m^3$ ("Block 1 rate") | **2.9579** | **3.1138** |
| Block 2 - Industrial process – use water consumption over 6,000 $m^3$, representing 30% reduction from the Block 1 Rate ("Block 2 rate') | **2.0705** | **2.1795** |

b. Effective January 1, 2014, the water and wastewater rates charged to flat rate consumers be increased by 9% to the rates shown in Appendix B attached to this report;

c. Effective January 1, 2014, the water and wastewater service fees, including all fees to be transferred to Toronto Water from Engineering and Construction Services, formerly Technical Services, shall be as shown in Appendix C attached to this report;

d. Effective January 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 3, Wastewater Services be amended to include the new service fees for CCTV inspections of sewage works impacted by private construction, based on actual costs, and for sanitary discharge permits, as well as clarification of the existing minimum fees and fee basis for industrial waste surcharge agreements and permits and sanitary discharge agreements, as set out in Appendix D attached to this report.

e. Effective January 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new fee of $75 for lost or damaged automated meter reading transmitters.

f. Effective July 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new manual water meter reading fee of $80 per visit for consumers with water meters refusing to allow the installation of a new automatic water meter.

g. Effective July 1, 2014, Chapter 441– Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new flat rate legacy fee of $1,020 per year, which will be in addition to the existing flat rate fee, for residential flat rate consumers who refuse to allow the installation of an automatic water meter on their property.

h. Effective September 1, 2014, Chapter 441– Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new administrative fee of $50 for processing annual water supply backflow prevention device testing reports under the City's backflow prevention program.

2. With respect to assistance for low-income seniors and low-income disabled persons:

   a. The rebate for eligible low-income seniors and low-income disabled persons be set at a rate of $0.8874 /m3, effective January 1, 2014, representing a 30% reduction from the Block 1 rate (paid on or before the due date).

3. The necessary amendments be made to Municipal Code Chapter 441 - Fees and Charges, Municipal Code Chapter 849 - Water and Sewage Services and Utility Bill, and Municipal Code Chapter 681- Sewers, and any other necessary Municipal Code Chapters as may be required, to give effect to Recommendations (1), and (2) above.

4. Authority be granted to the City Solicitor to introduce any necessary Bills required to implement these recommendations, subject to any necessary refinements, including stylistic, format and organization, as may be identified by the City Solicitor, the Deputy City Manager & Chief Financial Officer and General Manager, Toronto Water.

5. The appropriate City officials be authorized and directed to take the necessary actions to give effect thereto.

## Financial Impact

The City of Toronto Water and Wastewater Program (the "Program") is currently fully funded on a 'pay-as-you-go' basis through a combined water and wastewater rate without any reliance on borrowing/debenture financing. The property tax supported budget is not impacted by adoption of the recommendations contained in this report.

Based on the recommended 2014 Toronto Water Operating and Capital Budgets, the updated water consumption forecast, and Council's adopted water rate structure, a rate increase of 9% for 2014 in the paid-on-or-before due date is required for Block 1 domestic-use consumers, and Block 2 industrial process-use consumers, both effective January 1st, 2014.

As shown in Chart 1 below, the recommended rate increase impact on an average home consuming 300 m3/year, billed at the Block 1 Rate, will be 9% or $73 over the calendar year (from $814 in 2013 to $887 in 2014). The impact of the 9% increase on a commercial consumer at Block 1 rate and an industrial consumer at Block 2 rate with

annual consumption of 100,000 $m^3$ will be $24,420 and $17,526 respectively, the latter reflecting a 30% discount over Block 1 rates for eligible industrial consumers. The rate increase impact on a large industrial consumer of 1,000,000 $m^3$ on Block 2 rate will be $171,299.

Even with recent 9% increase in Toronto Water rates, the City still has the third lowest water rates in the GTA area. The proposed 9% increase in rates is expected to raise $72 million in additional revenue.

**Chart 1 – 2014 Water Rate Impact**

| Type of Property | Average Consumption m3 | 2013 Cost | Projected 2014 Cost | 2014 Rate Increase Impact | |
|---|---|---|---|---|---|
| **Residential** | 300 | $814 | $887 | $73 | 9.0% |
| **Commercial** | 100,000 | $271,370 | $295,790 | $24,420 | 9.0% |
| **Industrial** | 100,000 | $194,848 | $212,374 | $17,526 | 9.0% |
| **Industrial** | 1,000,000 | $1,904,525 | $2,075,824 | $171,299 | 9.0% |

The recommended inflationary increases of the water and wastewater service fees set out in Appendix C are expected to generate additional revenue of approximately $296,000 the new administration fee related to the backflow prevention program is projected to generate $150,000 and the new fee for lost or damaged meter reading transmitters is expected to generate about $37,000 in 2014.

In addition, the proposed two new fees for water consumers not allowing access to their property for the automatic meter installation, as outlined in the staff report entitled '*Update on the Water Meter Program*' could potentially result in an estimated increase in revenue of up to $10 million. The increase in revenue is intended to recover the City's costs in providing manual meter reading services and to recover the potential loss of additional revenue from flat rate consumers who have refused to convert to automatic metered accounts. It is expected these fees will serve as an effective incentive to allow access for the purposes of having a new meter installed as required under Municipal Code, Chapter 851, Water Supply. As a result, Toronto Water has not included these additional fees as part of the 2014 Operating Budget and will report on the actual revenues and corresponding costs as part of the Corporate Variance Reports in 2014.

## DECISION HISTORY

Last year's staff report adopted, as amended, by City Council authorizing the 2013 water and wastewater rates and service fees can be viewed at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2012.EX25.9

The details of the proposed new fee for manual water meter readings and an annual flat rate legacy fee for residential flat rate consumers are outlined in the report from the General Manager, Toronto Water to the Public Works and Infrastructure Committee dated October 4, 2013 and entitled *"Update on the Water Meter Program'* which can be viewed at:
http://www.toronto.ca/legdocs/mmis/2013/pw/bgrd/backgroundfile-62304.pdf

The particulars of the proposed minimum fee for sanitary discharge permits including clarification of the existing minimum fees and fee basis for industrial waste surcharge agreements and permits and sanitary discharge agreements are outlined in the report from the Deputy City Manager and Chief Financial Officer and the General Manager, Toronto Water, entitled *"Amendments to the Sewers, Water Supply and Fees By-laws"* which can be viewed at:
http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2013.PW26.2

## ISSUE BACKGROUND

The City adopts annually a by-law to establish its water and wastewater rates and service fees. Adoption of the concurrent recommended Toronto Water 2014 Operating and 2014-2023 Capital Budgets, together with the water rate structure plan, will necessitate an increase in the 2014 water and wastewater rates outlined in this report.

The Program also provides services directly to customers for which it charges a fee generally based on cost recovery. This report recommends inflationary increases to certain water and wastewater service fees, reflecting market conditions and current costs to Toronto Water. This report also recommends the establishment of the following new water and wastewater services fees: a minimum fee for sanitary discharge permits; a fee for CCTV inspections; a fee for lost or damaged automated meter reading transmitters; a manual water meter reading fee, an annual flat rate legacy fee for residential flat rate consumers and a fee related to the administration of the water supply backflow prevention program. In addition, this report recommends the transfer of certain services fees to Toronto Water from Engineering and Construction Services, formerly Technical Services, related to routine disclosure record searches for Sewers By-law compliance violations and, also, the Ministry of the Environment Transfer of Review Program.

## COMMENTS

### Financial Model

The financial model used to forecast water and wastewater rates is premised upon the objective that the Program remain fully self funded and financially stable, while both operating and capital needs are met without excessive year-over-year fluctuations over the long term.

Toronto Water's recommended 2014 Operating and Capital Budgets, and ten-year plans, are considered together with the projected water consumption to generate the water and wastewater rates which will self-finance the Program over the ten-year planning period,

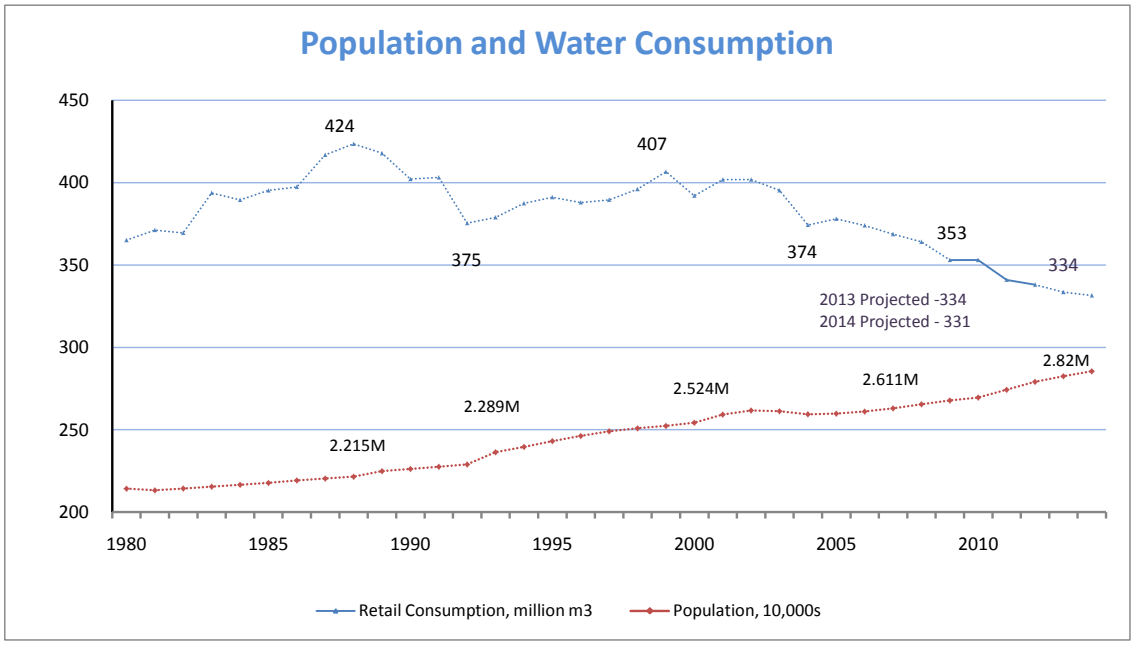
including reserve contributions. The current financing model does not rely on any debt issuance.

The 2014 model also assumes that 85% of the Net Capital budget (after grants, subsidies and other capital contributions) will actually be drawn from Toronto Water's Capital Reserve, based on the current capital completion level experienced by the program.

## Water Consumption Forecast

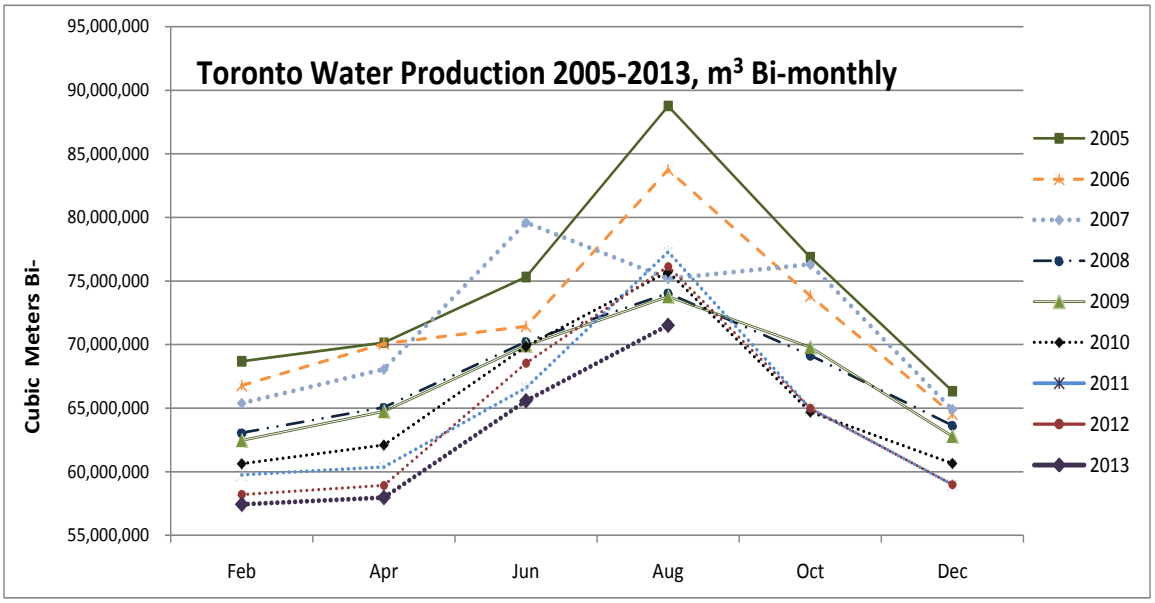
Over the last decade, despite the increase in population, there has been a trend towards reduced consumption, as shown in Chart 2 below. Toronto's water consumption projected to 2013 year-end is estimated at 334 million cubic metres, which represents a substantial drop from 374 million cubic meters in 2005. Although weather conditions can have an effect on consumption, the observed systemic decline in water consumption is predominantly attributed to water efficiency measures and economic factors.

**Chart 2 - Toronto Retail Water Consumption**




Analysis confirms that there has been a systematic and permanent reduction in base consumption, demonstrated by consumption in the shoulder seasons from October to April (excluding summer months). Chart 3 shows that over the last 7 years, base water consumption has fallen 15% or 2.1% annually on average. Summer consumption, although more weather dependent, also shows a reduction over the same period of 11.8% or 1.7% annually.

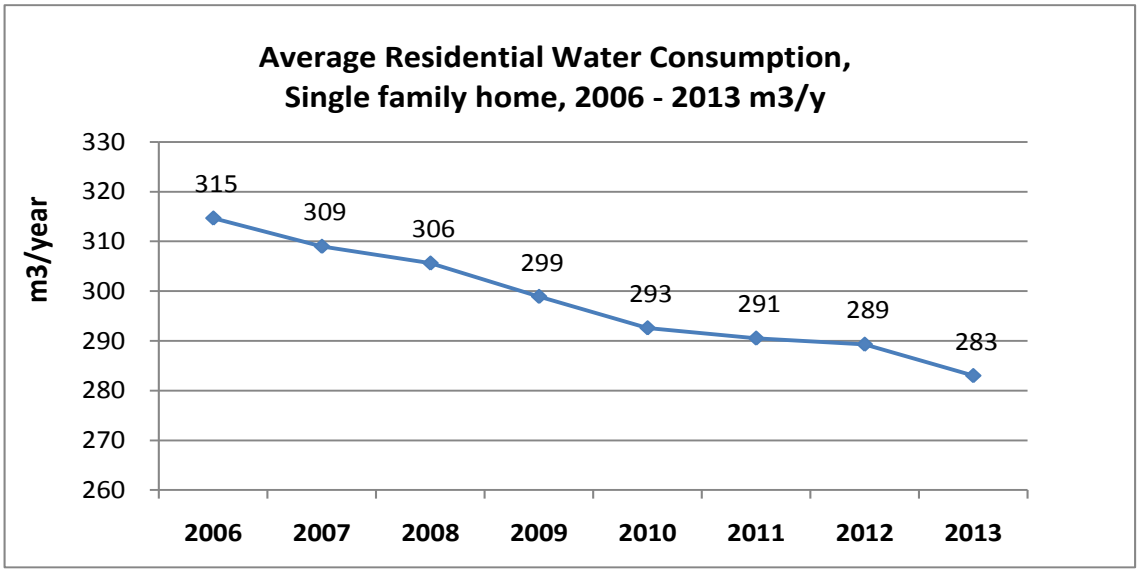
**Chart 3 –Water Production (2005 to 2013)**




This analysis demonstrates that the water efficiency awareness continues to play a significant role in water consumption patterns. It is also projected, based on the "natural" rate of fixture and toilet replacement, and the continued market trends towards the manufacturing and sale of more water efficient fixtures and appliances, that Toronto's average per capita consumption could drop to as low as 150 litres per capita per day by 2025, while currently it is about 200 litres per capita per day.

Chart 4 below shows annual average single family home water consumption has declined by 10% since 2006.

**Chart 4 – Average Single Family Home Consumption**



Given the foregoing, staff project 2013 consumption to be 1% lower than 2012 actual consumption. Furthermore, for modelling purposes, the forecasted base consumption for the period 2014-2015 is assumed to drop by 1% a year, after which the decline is expected to be offset by population growth and to level out. In addition to the base consumption, the model also takes into consideration the impact of implementation of the City's Water Metering Program, which is expected to register higher consumption volumes as older large volume meters are replaced with more accurate ones. Upon completion of the automated water meters installation across the City, staff will have much more precise consumption data and be able to provide a more accurate consumption forecast.

The compounded effect of the reduction in both base consumption and summer consumption is resulting in significant reduction in revenue for the Program, limiting the available funding for capital priorities.

## 2014 Operating Budget and 2014 - 2023 Capital Plan

The concurrent Toronto Water 2014 Operating and Capital Budget Analyst Notes provide details on Toronto Water's proposed 2014 Operating and Capital Budgets, funded predominantly through the sale of water, based on the water and wastewater rate, with some contributions accrued through water and wastewater service fees, the Region of York water sale revenues and Development Charges.

A summary of the 2014 Operating Budget and Forecast, the 2014-2023 Capital Plan, and the resulting rate requirements is presented in Appendix A together with the sources of capital financing and corresponding reserve balances.

## 2014 Operating Budget

The 2013 Recommended Operating Budget gross expenditures of $403.163 million are outlined in detail in the concurrent Toronto Water 2014 Operating Budget Analyst Notes. The 2014 net expenditures inclusive of capital financing to be funded by the water rate is $958.103 million. A further $63.782 million is expected to be generated from the sale of water to the Region of York ($21.551 million) and User Fees ($42.232 million), for a total program expenditure and revenue of $1,021 million. The recommended capital contribution from operations for 2014 is $618.722 million.

## 2014-2023 Capital Plan

Toronto Water's Capital Program continues to be 100% self sustaining, largely through water revenues, with no debenture financing and no impact on the municipal property tax levy. However, declining water consumption trends and a number of competing infrastructure priorities has placed significant pressure on the long term capital program.

The 2014–2023 Recommended Capital Plan of $9.109 billion is based on the available funding provided by the current capital financing plan assuming 9% water rate increases in 2014, followed by 3% inflationary-related water rate increases beyond 2014.

The concurrent Toronto Water 2014 Capital Budget Analyst Notes provide details on Toronto Water's proposed 2014-2023 Capital Plan. The current capital plan is facing a shortfall of over $1 billion over the next 10 years, and additional funding needs to be raised in order to maintain current levels of service and to accelerate important projects such as the City's Wet Weather Flow Master Plan and to help prevent future basement flooding.

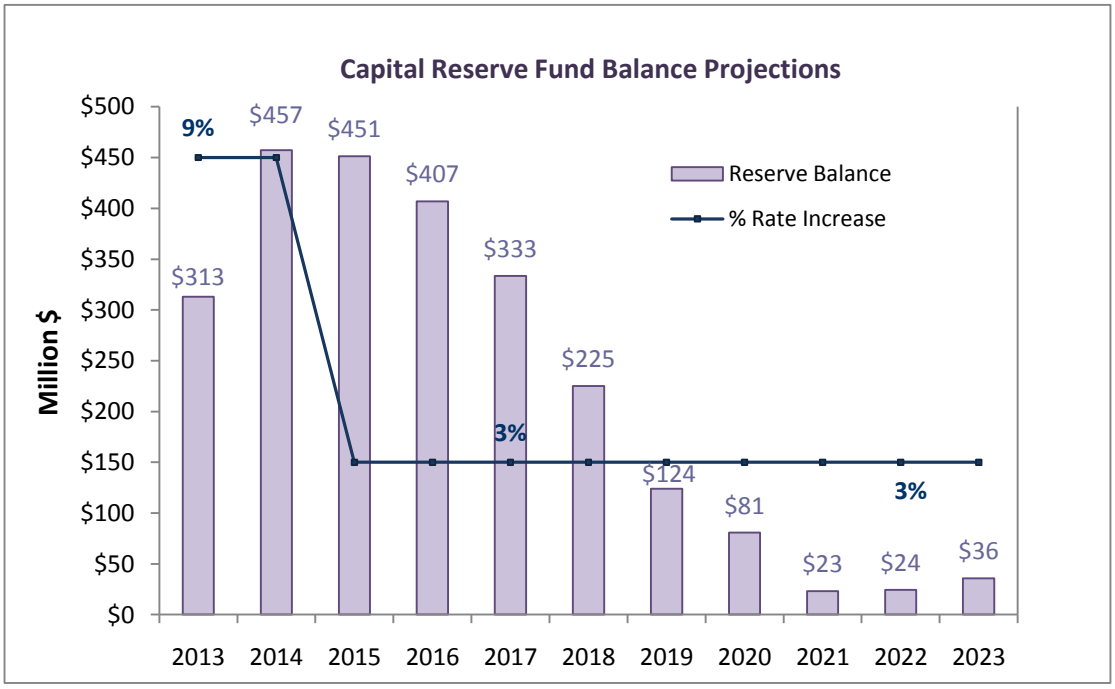
As noted in the recent report to Executive Committee meeting on October 30, 2013 entitled "*Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services* " there is a need to increase future capital funding for Toronto Water in order to continue with the renewal of drinking water, wastewater, and stormwater infrastructure and to accelerate the implementation of priority projects for managing the impact of severe storm events. The report recommends further detailed studies and stakeholder consultation in 2014 followed by a new financing strategy and implementation plan as part of Toronto Water's 2015 Capital and Operating Budget Submission.

## Capital Reserve Funds

The purpose of the Capital Reserve Funds (Water and Wastewater) is to provide funding for the capital needs of the Program. The rate model is predicated on replenishment through annual funding from the operating budget ("capital-from-current") sufficient to ensure that an adequate balance is maintained in these reserve funds.

Chart 5 below shows the capital reserve fund balance for the period 2013-2023 and the projected effective annual rate increases. Due to the lower capital spending level in 2012 and 2013, compared to the budgeted spending rate of 85%, the 2013 Capital Reserve Balance at year end is projected at $313 million. With the current reduced Capital Plan the Capital Reserve balances are projected at a healthy level above $300 million over the next 4 years until 2017, after which the reserve is expected to drop to about $23 million in 2021. Toronto Water manages and maintains assets valued at $28 billion and a reserve of $23 million representing only 0.08% of the infrastructure asset is considered insufficient in case of emergencies and increasing cost of maintaining aging infrastructure.

**Chart 5 -Capital Reserve Fund Balance Projection**




## Rate Stabilization Reserves

The purpose of the Rate Stabilization Reserves (Water and Wastewater) is to provide funding to offset unanticipated operating budget variances, primarily arising from revenue shortfalls due to uncontrollable circumstances driving water consumption below projected levels. Circumstances giving rise to lower than forecasted consumption include loss of major water consumers, and unusually wet summers.

As of December 2012 the Stabilization Reserve balance was $77.670 million due to higher than projected water rate revenue in 2012. In accordance with City's policy to maintain the Stabilization Reserve balance at $30 million, $47.670 million was transferred to the Capital Reserve in 2013. The rate model is based on a $30 million Stabilization Reserve balance over the 10 year planning period.

## Industrial Rate Competitiveness

As of January 2008, at the beginning of the implementation of the 2 block rate water structure, 349 industrial properties were identified as being eligible for the Block 2 rate. As of October 2013, there were 102 industrial accounts at the Block 2 rate, which is a substantial increase from the 64 accounts in 2011 attributed to the revised eligibility criteria adopted by Council in November 2011, allowing for up to 6 months to resolve certain non-compliance issues under Municipal Code, Chapter 681, Sewers.

## Flat-rate Accounts

As of September 2013, there were approximately 7,000 remaining flat-rate accounts compared to 72,000 accounts in 2007. Most of these accounts are expected to have automated water meters installed by the end of 2014. For 2014, this report recommends a

9% increase on the water rates imposed on flat-rate accounts, as is the case with metered customers.

Council at its meeting of June 23 and 24, 2008, approved the Automated Meter Reading System, now referred to as the Water Metering Program. The Program includes a systematic, City-wide water meter replacement program coupled with the concurrent installation of an automated meter reading technology over a 6 year period, which began in 2010. The installation of meters to flat-rate account customers is a first priority and is expected to be completed in 2014. However, studies have shown that once metered, a typical residential household account billing drops approximately 15 to 20%. This loss in revenue has been taken into consideration in the water rate modeling and revenue forecast.

## Assistance for Low-Income Seniors and Low-Income Disabled Persons

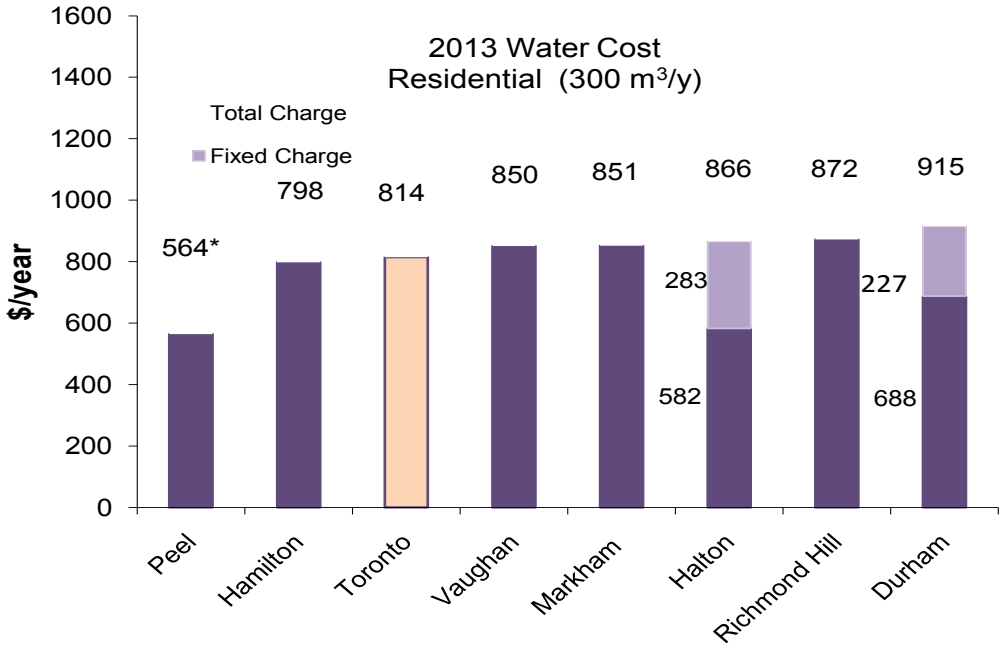
As part of the City's water rate restructuring policy, Council approved a water rate rebate program for low-income seniors and low-income disabled persons who meet the eligibility criteria as prescribed in the Municipal Code, Chapter 849. This rebate is set at the difference between the Block 1 and Block 2 rates, which represents a 30% reduction in their billing (based on the paid on or before due date rate). The rebate is only applicable if the household annual consumption is less than 400 cubic meters, to provide eligibility to those most in need.

In 2013 to date, the City has processed 4,489 applications for low income water rebates for the total amount of $551,500 in such rebates.

## Comparison of Water Rates in GTA Municipalities

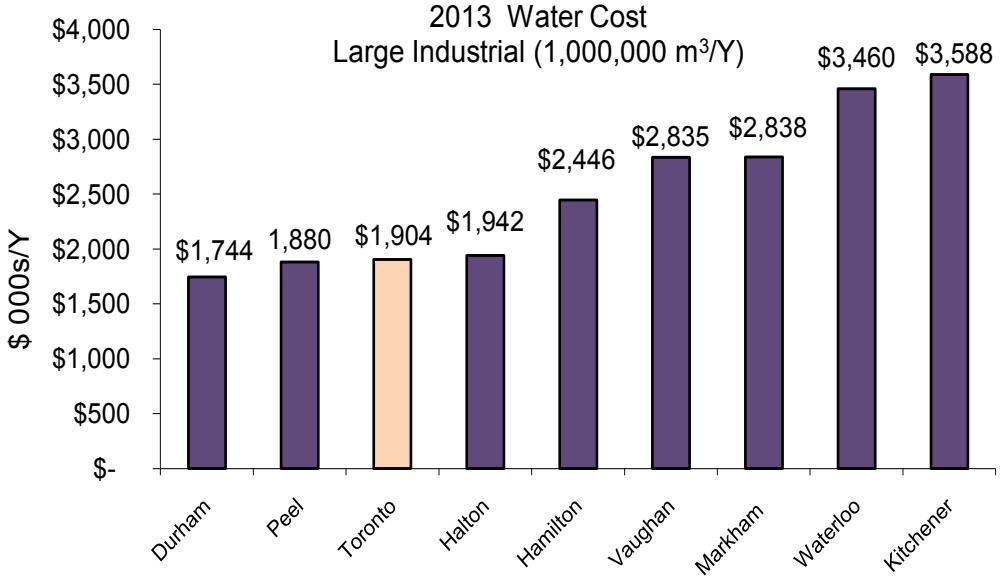
Toronto's 2013 water rate for residential consumers, in comparison to surrounding municipalities, is shown in Chart 6 (2014 rates for surrounding municipalities are not yet available). With the exception of Peel Region, where storm water related projects are funded from property taxes and currently under review, based on the average household consumption of 300 cubic metres, Toronto is amongst the lowest water cost jurisdictions for residential consumers in southern Ontario. Chart 7 provides a similar comparison for large industrial users, and shows that Toronto is amongst the lowest water cost jurisdictions for industrial consumers as well.

**Chart 6 – GTA Residential Water Cost**




******Note: Peel stormwater funded from property tax***

**Chart 7 - GTA Industrial Water Cost**



## Water and Wastewater Service Fees

As noted earlier, while most of the Program's revenue is generated through the sale of water, other revenues are also accrued through user fees charged for various specific water and wastewater services. These fees are summarized in Appendix C.

In order to comply with the full cost recovery policy, it is recommended that certain water and wastewater service fees be increased by the applicable rate of inflation for 2014, except for those that are based on contracts for procured services, and which increase, therefore, reflects the actual contact price. The overall inflation factor for Toronto Water 2014 Budget is 2.21% including labour cost increase, energy, utilities, materials and contracted services.

**Recommended New Fees**

Effective July 1, 2014, two new fees associated with water consumers who do not allow access to their properties for the purpose of installing a new automated water meter and related meter reading equipment under the Water Meter Program are recommended, with more detail on these fees provided in the staff report entitled "Update on the Water Meter Program". The recommended fees are outlined in Chart 8 below with the estimated additional revenue to be generated.

**Chart 8**

| Service | Proposed New Fee | Approx Number per Year | Projected Annual Revenue | Rationale |
|---|---|---|---|---|
| Manual water meter reading fee for consumers with meters not allowing access to their property to install a new automatic meter | $80 | 12,000 accounts – 3 times a year | $2.9M *($1.5M in 2014)* | *To recover the City cost for isolated special visits to manually read water meters of customers not allowing installation of automatic meters* |
| Flat rate legacy fee for residential flat rate consumers not allowing installation of automatic meters on their property | $1,020 | 7,000 flat rate accounts | $7.1M *($3.5M in 2014)* | To recover the potential loss of revenue from flat rate consumers who have not converted to automatic metered accounts. The fee is based on an estimated 95$^{th}$ percentile of water consumption of recently converted flat rate accounts. |

Effective January 1, 2014, a new fee is recommended to recover the cost of lost or damaged automated reading transmitters, as outlined in Chart 9 below.

**Chart 9**

| Service | Proposed New Fee | Approx Number per Year | Projected Annual Revenue | Rationale |
|---|---|---|---|---|
| Automated Meter Reading | $75 per each lost or damaged meter reading transmitter | 500 | $37,500 | To recover the City cost for lost or damaged automated meter reading transmitters, which will need to be replaced in order to obtain a meter reading |

Effective Sept 1, 2014, a new fee supporting the cost of administering the City's backflow prevention program is recommended as outlined in Chart 10 below, with estimated revenue of $150,000 for 2014.

**Chart 10**

| Service | Proposed New Fee | Approx Number per Year | Projected Annual Revenue | Rationale |
|---|---|---|---|---|
| Administration fee for processing annual water supply backflow prevention device testing reports | $50 per test report for each premise backflow preventer | 11,275 (*3,000 in 2014)* | $563,750 *($150,000 in 2014)* | Cost reflects offsetting escalating program costs for administering Backflow Prevention Devices for Premise Isolation on private water systems, as required by Municipal Code, Chapter 851-8-D (3) , Water Supply |

Effective January 1, 2014, it is also recommended that a new service fee be established, based on actual cost, for CCTV inspections of sewage works impacted by private construction. This would require a developer or other person undertaking construction services in the vicinity of City sewage works to pay the costs of pre-and post-construction inspections by CCTV camera systems of such sewage works. These inspections will provide a record of the state of the sewage works prior to and after construction activities. In addition, it is further recommended that effective January 1, 2014, a minimum fee for sanitary discharge agreements and permits be implemented. The details of these proposed new fees are outlined in the report entitled, Amendments to the Sewers, Water Supply and Fees By-Laws. For reference purposes, these recommended new fees, along with necessary Municipal Code amendments clarifying the existing minimum fees and fee basis for industrial waste surcharge agreements and permits and sanitary discharge agreements are set out in the attached Appendix D.

***Municipal Code, Chapter 441 fees to be transferred from ECS to Toronto Water***

Following a restructuring in the City of Toronto, effective February 6th, 2013, the group conducting the review under the Ministry of the Environment Transfer of Review program, was re-assigned from Engineering and Construction Services, formerly Technical Services, to Toronto Water and, as a result, the fees falling under The Ministry of Environment Transfer of Review Program need to be transferred/added to the appropriate Toronto Water Fee Schedule, as follows:

Ref. No. 15 of Chapter 441, Appendix C, Schedule 1, Technical Services, to be transferred to Appendix D, Schedule 3, Ref. No. 21, as per the attached Appendix C.

Ref. No. 16 of Chapter 441, Appendix C, Schedule 1, Technical Services to be transferred to Appendix D, Schedule 2, Ref. No. 40, as per the attached Appendix C.

Ref. No.22 and 23 to be added to Chapter 441, Appendix D, Schedule 3 as per the attached Appendix C.

The fee amounts for these Ministry of Environment Review Program fees are set by the Ministry of Environment.

In addition, the matter of routine disclosure record searches for Sewers By-law compliance violations has been transferred from ESC to Toronto Water and, as such, the following fees needs to be transferred to the appropriate Toronto Water fee schedule as follows:

Ref. No. 13 of Chapter 441, Appendix C, Schedule 1, Technical Services, is to be transferred to Chapter 441, Appendix D, Schedule 3, Wastewater as Ref. No. 24, as per the attached Appendix C.

***Recommended Increases to Existing Fees***

In 2014, inflationary increases are being recommended to 19 water service fees. 16 of those fees, (Reference Numbers: 1, 2, 5,11, 12, 13, 15, 15.1, 17, 21,25, 32, and 40 in the attached Appendix C – Schedule 2, Water Service) are increased by 2.21% , intended to reflect the market conditions and current costs to Toronto Water for providing these services. In addition, 6 Revenue Services Fee (Ref. No. 33 to 39, in the attached Appendix C – Schedule 2, Water Service) are increased by 2% which is the inflationary factor for the Revenue Services Division. Chart 11 below summarizes the proposed changes, comparing the 2013 fee and the recommended 2014 fee, as well as the rationale for the increase and expected annual revenue change.

## Chart11

| Ref # | Fee Description | 2013 fee | 2013 Volume | Proposed 2014 fee | Estimated Annual Demand for 2014 | Rationale | 2014 Revenue Change |
|---|---|---|---|---|---|---|---|
| 1 | Installing 19 mm New Residential Water Service and Meter | $2,700.00 | 200 | $2,760.00 | 200 | Increased by 2.21% inflationary factor | $12,000 |
| 2 | Installing 25 mm New Residential Water Service and Meter | $3,111.00 | 1000 | $3,180.00 | 1000 | Increased by 2.21% inflationary factor | $69,000 |
| 5 | Disconnection Fee for any residential water service less than or equal to 25 mm | $440.00 | 1,200 | $450.00 | 1,200 | Increased by 2.21% inflationary factor | $12,000 |
| 11 | Fire hydrant Permit | $152.70 | 200 | $156.00 | 500 | Increased by 2.21% inflationary factor | $47,460 |
| 12 | Water meter accuracy test ; Meter less than or equal to 50mm -No Chamber -applied if meter does not over-register | $152.70 | 260 | $156.00 | 260 | Increased by 2.21% inflationary factor | $858 |
| 13 | Water turn off fee for demolition; (disconnection of old water service not included) | $76.35 | 2000 | $78.00 | 2000 | Increased by 2.21% inflationary factor | $3,300 |
| 15 | Water Turn-off or Turn-on | $76.35 | 7800 | $78.00 | 7,800 | Increased by 2.21% inflationary factor | $12,870 |
| 15.1 | Single Service call Turn-off and Turn-on within 30 min | $76.35 | 120 | $78.00 | 50 | Increased by 2.21% inflationary factor | -$5,262 |
| 17 | Conduct fire hydrant flow test | $254.50 | 300 | $260.00 | 300 | Increased by 2.21% inflationary factor | $1,650 |
| 21 | Unregistered water each day order not complied | $50.90 | | $52.00 | | Increased by 2.21% inflationary factor | |
| 25 | Annual Seasonal Meter Activation Fee : includes replacement, removal of water meter; 1 turn on, 1 turn off | $30.54 | 300 | $200.00 | 300 | Increased to reflect actual cost of work including. turn off in the fall; turn on in spring; disconnecting and/or removing meter in the autumn and then reinstalling/reconnecting the meter in spring. | $0 |
| 32 | Reuse of residential water service 19 mm to 25 mm | $254.50 | | $260.00 | | Increased by 2.21% inflationary factor | |
| 33 | Administrative fee to reflect a change in ownership on an existing utility account | $35.00 | | $35.70 | | Increased by 2% inflationary factor for Revenue Services | |
| 34 | Water Certification Charge | $25.00 | | $25.50 | | Increased by 2% inflationary factor for Revenue Services | |
| 35 | Water Special/Final Reading | $15.00 | | $15.30 | | Increased by 2% inflationary factor for Revenue Services | |
| 36 | Water Consumption Statements | $40.00 | | $40.80 | | Increased by 2% inflationary factor for Revenue Services | |
| 37 | Water Consumption Statements | $25.00 | | $25.50 | | Increased by 2% inflationary factor for Revenue Services | |
| 38 | Returned Cheques | $35.00 | | $35.70 | | Increased by 2% inflationary factor for Revenue Services | |
| 39 | Water Collection Field Visit | $25.00 | | $25.50 | | Increased by 2% inflationary factor for Revenue Services | $22,000 |
| 40 | Municipal Drinking Water Licensing Program | $2,300 | | $2,350.80 | 68 | Increased by 2.21% inflationary factor | $3,454 |

In addition, there are 8 wastewater service fees that are recommended for inflationary increase of 2.21% in 2014 (Reference Numbers: 4, 5, 6, 15, 16, 17, 18 and 19 in the attached Appendix C– Schedule 3, Wastewater Service). The increases in these fees are intended to reflect the market conditions and current costs to Toronto Water for providing these services. Chart 12 below summarizes the proposed changes, comparing the 2013 fee and the recommended 2014 fee, as well as the rationale for the increase and expected annual revenue change.

**Chart 12**

| Ref | Fee Description | 2013 fee | Proposed 2014 fee | 2014 Estimated Demand | Rationale | 2014 Revenue Change Estimate |
|---|---|---|---|---|---|---|
| 4 | To install new residential sanitary sewer service connection in road allowance | $7,293.00 | $7,455.00 | 800 | Increased by 2.21% inflationary factor | $ 129,600 |
| 5 | To install new residential storm sewer service connection in road allowance | $7,293.00 | $7,455.00 | 15 | Increased by 2.21% inflationary factor | $ 2,430 |
| 6 | To disconnect residential sanitary sewer service connection in road allowance | $765.00 | $782.00 | 800 | Increased by 2.21% inflationary factor | $ 13,600 |
| 15 | Inspection fee for the reuse of residential City sewer connection up to 150 mm in diameter | $510.00 | $521.00 | 150 | Increased by 2.21% inflationary factor | $ 1,650 |
| 16 | Technical Review by Toronto Water staff - Application to Toronto Water for exemption to permit the construction of a driveway sloped downwards towards a residential building. | $1,527.00 | $1,560.00 | 12 | Increased by 2.21% inflationary factor | $ (11,820) |
| 17 | Technical Review by Toronto Water staff - Application to Toronto Water for new connection or relocation of storm, sanitary or water supply connection | $305 minimum fee; additional $75.5/hr for each hour after 4 hrs to a mximum of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 8 | Increased by 2.21% inflationary factor | $ (10,425) |
| 18 | Technical Review by Toronto Water staff - Application to Toronto Water for request to encroach within a City permanent or temporary easement (related to City water and sewer infrastructure) | $305 minimum fee; additional $75.5/hr for each hour after 4 hrs to a mximum of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 2 | Increased by 2.21% inflationary factor | $ (2,988) |
| 19 | Technical Review by Toronto Water staff - Application to Toronto Water for request to release from title a City easement (related to City water and sewer infrastructure) | $305 minimum fee; additional $75.5/hour for each hour after 4 hours to a maximum fee of $1,527 | $312 minimum fee, additional $77/hr for each hour after 4 hrs to a maximum of $1,560 | 2 | Increased by 2.21% inflationary factor | $ (1,461) |

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## SIGNATURES

Roberto Rossini
Deputy City Manager
and Chief Financial Officer

Lou Di Gironimo
General Manager, Toronto Water

## ATTACHMENTS

Appendix A – Summary of 2013 Operating and Capital Budget and Forecast, Corresponding Rate Increase and Capital Financing
Appendix B – 2014 Water Rates for Metered and Flat Rate Customers
Appendix C – 2014 Water and Wastewater Service Fees
Appendix D – 2014 Additional Wastewater Services Fees

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**Appendix A – Summary of 2014 Operating and Capital budget and 2014-2023 Capital Plan and Operating Forecast, Corresponding Rate Increases, and Capital Financing, $ Million**

| | | | 2014 - 2023 Plan | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TORONTO WATER** | **2013 Budget** | **2013 Projected Actual** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** | **2020** | **2021** | **2022** | **2023** |
| Gross Operating Budget | 396.09 | 376.65 | 403.16 | 415.26 | 427.72 | 440.55 | 453.76 | 467.38 | 481.40 | 495.84 | 510.71 | 526.04 |
| Capital from Current | 544.55 | 572.74 | 618.72 | 625.57 | 650.20 | 669.66 | 688.69 | 708.24 | 735.07 | 756.03 | 777.59 | 799.79 |
| Net Expenditure to be Financed by Water Rate | 874.29 | 885.90 | 958.10 | 975.94 | 1,010.73 | 1,040.65 | 1,071.47 | 1,103.16 | 1,142.50 | 1,176.34 | 1,211.20 | 1,247.09 |
| **WATER RATE INCREASE** | **9%** | **9%** | **9%** | **3%** | **3%** | **3%** | **3%** | **3%** | **3%** | **3%** | **3%** | **3%** |
| Other Revenues | 66.35 | 63.49 | 63.78 | 64.89 | 67.19 | 69.55 | 70.99 | 72.46 | 73.97 | 75.52 | 77.11 | 78.74 |
| Total Revenues | 940.64 | 949.39 | 1,021.89 | 1,040.83 | 1,077.92 | 1,110.20 | 1,142.46 | 1,175.62 | 1,216.47 | 1,251.87 | 1,288.31 | 1,325.82 |
| CAPITAL FINANCING | | | | | | | | | | | | |
| Gross Capital Budget | 671.55 | 671.55 | 613.27 | 794.35 | 867.78 | 929.16 | 988.85 | 1,003.28 | 961.21 | 1,006.71 | 965.29 | 978.76 |
| Net Capital Budget | 617.21 | 636.86 | 556.55 | 741.03 | 812.88 | 872.37 | 935.28 | 949.35 | 912.36 | 953.70 | 909.59 | 923.39 |
| Capital Reserve Funding Level | 85% | 71% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% | 85% |
| Net Capital Spending | 524.63 | 450.80 | 473.06 | 629.88 | 690.95 | 741.51 | 794.99 | 806.95 | 775.51 | 810.65 | 773.15 | 784.89 |
| **CAPITAL RESERVE CLOSING BALANCE** | **121.43** | **312.92** | **457.36** | **451.42** | **406.76** | **333.40** | **225.17** | **124.03** | **80.80** | **23.10** | **24.26** | **35.83** |

# Appendix B

## Schedule 1, Water & Wastewater Consumption Rates

| | I | II | III | IV | | V |
|---|---|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee Paid After Due Date | Fee Paid On/Before Due Date | Annual Adjustment |
| 1 | Metered Water Consumers | Block 1 Domestic - Use General Water Service Rate Applicable to all consumers of water, including the first 6,000 cubic metres per year (m3/per year) consumed by industrial users | Per cubic metre - ($/m3) | $3.1138 | $2.9579 | No |
| 2 | Metered Water Consumers | Block 2 - Industrial Process - Use Service Rate - Applicable to industrial process use for eligible property or portions of property and is applicable to volume of water consumed over 6,000 cubic metres per year (m3/per year) of such use | Per cubic metre -($/m3) | $2.1795 | $2.0705 | No |
| 3 | Flat Rate Residential Consumers - Former City of Toronto | Dwelling house rate | Per Room;<br>Per Annum, | $46.27<br>$278.63 Minimum annual charge | $43.95<br>$271.83 Minimum annual charge | No |
| 4 | Flat Rate Residential Consumers - Former City of Toronto | Rooming house rate | Per Room, Per Annum | $89.45 | $84.98 | No |
| 5 | Flat Rate Residential Consumers - Former City of Toronto | Basins | Each | $89.45 | $84.98 | No |
| 6 | Flat Rate Residential Consumers - Former City of Toronto | Baths | Each | $89.45 | $84.98 | No |
| 7 | Flat Rate Residential Consumers - Former City of Toronto | Bidets | Each | $89.45 | $84.98 | No |
| 8 | Flat Rate Residential Consumers - Former City of Toronto | Saunas connected to water or drains | Each | $89.45 | $84.98 | No |

## Schedule 1, Water & Wastewater Consumption Rates

| | I | II | III | IV | | V |
|---|---|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee Paid After Due Date | Fee Paid On/Before Due Date | Annual Adjustment |
| 9 | Flat Rate Residential Consumers - Former City of Toronto | Shower baths | Not attached to bath tub - Each | $89.45 | $84.98 | No |
| 10 | Flat Rate Residential Consumers - Former City of Toronto | Sinks | Sinks - Each | $89.45 | $84.98 | No |
| 11 | Flat Rate Residential Consumers - Former City of Toronto | Urinals | Self-acting - Each | $106.28 | $100.96 | No |
| 12 | Flat Rate Residential Consumers - Former City of Toronto | Water Closets | Self Acting - Each | $142.82 | $135.68 | No |
| 13 | Flat Rate Residential Consumers - Former City of Toronto | Laundry Tubs | For pair of tubs (in one fixture) | $89.45 | $84.98 | No |
| 14 | Flat Rate Residential Consumers - Former City of Toronto | Laundry Tubs | For single or additional tub - Each | $53.17 | $50.51 | No |
| 15 | Flat Rate Residential Consumers - Former City of Toronto | Washing Machine | Each | $89.45 | $84.98 | No |
| 16 | Flat Rate Non-Residential Consumers - Former City of Toronto | Factories, office buildings, stores, garages, warehouses and similar places of business | Per Flat - Per Annum | $142.73 | $135.59 | No |
| 17 | Flat Rate Non-Residential Consumers - Former City of Toronto | Private hospitals, rest homes, schools, fraternity houses, clubs, hotels and similar places | Per room - Per Annum | $81.20 | $77.13 | No |
| 18 | Flat Rate Non-Residential Consumers - Former City of Toronto | Basins | Each | $177.63 | $168.75 | No |

## Schedule 1, Water & Wastewater Consumption Rates

| Ref. No. | I Service | II Fee Description | III Fee Basis | IV Fee Paid After Due Date | IV Fee Paid On/Before Due Date | V Annual Adjustment |
|---|---|---|---|---|---|---|
| 19 | Flat Rate Non-Residential Consumers - Former City of Toronto | Baths | Each | $177.63 | $168.75 | No |
| 20 | Flat Rate Non-Residential Consumers - Former City of Toronto | Bidets | Each | $177.63 | $168.75 | No |
| 21 | Flat Rate Non-Residential Consumers - Former City of Toronto | Saunas connected to water or drains | Each | $177.63 | $168.75 | No |
| 22 | Flat Rate Non-Residential Consumers - Former City of Toronto | Shower Baths | Not attached to bath tub - Each | $177.63 | $168.75 | No |
| 23 | Flat Rate Non-Residential Consumers - Former City of Toronto | Sinks | Each | $177.63 | $168.75 | No |
| 24 | Flat Rate Non-Residential Consumers - Former City of Toronto | Urinals | Self-acting - Each | $212.35 | $201.73 | No |
| 25 | Flat Rate Non-Residential Consumers - Former City of Toronto | Water Closets | Self Acting - Each | $284.06 | $269.85 | No |
| 26 | Flat Rate Non-Residential Consumers - Former City of Toronto | Laundry Tubs | For pair of tubs (in one fixture) | $177.63 | $168.75 | No |
| 27 | Flat Rate Non-Residential Consumers - Former City of Toronto | Laundry Tubs | For single or additional tub - Each | $89.45 | $84.98 | No |
| 28 | Flat Rate Non-Residential Consumers - Former City of Toronto | Washing Machines | Each | $177.63 | $168.75 | No |

## Schedule 1, Water & Wastewater Consumption Rates

| | I | II | III | IV | | V |
|---|---|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee Paid After Due Date | Fee Paid On/Before Due Date | Annual Adjustment |
| 29 | Flat Rate Consumers - Former City of Toronto | Baptistries | Each | $60.03 | $57.02 | No |
| 30 | Flat Rate Consumers - Former City of Toronto | Barber shop or beauty parlour | Each | $177.63 | $168.75 | No |
| 31 | Flat Rate Consumers - Former City of Toronto | Church buildings used as a place of worship | Each for any such fixture in a church building so used coming within rows 18-30 | Variable | Variable | No |
| 32 | Flat Rate Consumers - Former City of Toronto | Dental Fountains | Each | $440.59 | $418.57 | No |
| 33 | Flat Rate Consumers - Former City of Toronto | Commercial dish washers | Each | $353.94 | $336.24 | No |
| 34 | Flat Rate Consumers - Former City of Toronto | Drinking Fountains | Each | $177.63 | $168.75 | No |
| 35 | Flat Rate Consumers - Former City of Toronto | Fountains | For 1.6mm orifice or less, each per season | $284.06 | $269.85 | No |
| 36 | Flat Rate Consumers - Former City of Toronto | Fountains | All others, each per person | $1,129.95 | $1,073.45 | No |
| 37 | Flat Rate Consumers - Former City of Toronto | Materials used in buildings or in alterations or repairs to buildings and other construction work | Bricks per 1,000 | $3.06 | $2.91 | No |
| 38 | Flat Rate Consumers - Former City of Toronto | Materials used in buildings or in alterations or repairs to buildings and other construction work | Other masonry, including concrete blocks, tiles, and similar materials, on basis of equivalent number of bricks to replace same, per 1,000 bricks | $3.06 | $2.91 | No |
| 39 | Flat Rate Consumers - Former City of Toronto | Materials used in buildings or in alterations or repairs to buildings and other construction work | Plastering per 1,000 sq. yd | $106.86 | $101.52 | No |

## Schedule 1, Water & Wastewater Consumption Rates

| | I | II | III | IV | | V |
|---|---|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee Paid After Due Date | Fee Paid On/Before Due Date | Annual Adjustment |
| 40 | Flat Rate Consumers - Former City of Toronto | Materials used in buildings or in alterations or repairs to buildings and other construction work | Per cubic yd - Concrete | $7.43 | $7.06 | No |
| 41 | Flat Rate Consumers - Former City of Toronto | Materials used in buildings or in alterations or repairs to buildings and other construction work | Minimum rate for each building or for repairs or alterations, where any of the above material is used | $35.69 | $33.90 | No |
| 42 | Flat Rate Consumers - Former City of Toronto | Photographic washing tanks | Each | $177.63 | $168.75 | No |
| 43 | Flat Rate Consumers - Former City of Toronto | Wash racks | Each | $882.43 | $838.30 | No |
| 44 | Unmetered Consumers - Former City of Etobicoke | Residential and commercial rates, Flat rate, Single family | Tri-annual | $291.78 | $277.18 | No |
| 45 | Unmetered Consumers - Former City of Etobicoke | Hydro substations | Tri-annual | $209.90 | $199.40 | No |
| 46 | Unmetered Consumers - Former City of Etobicoke | Building water and sewer service rates; not metered up to three months not refundable | Each | $620.68 | $589.64 | No |

# Appendix C

## Schedule 2, Water Services

| Ref. No. | I Service | II Fee Description | III Fee Basis | IV Fee | V Annual Adjustment |
|---|---|---|---|---|---|
| 1 | Revenues - District Operations | Installing 19 mm New Residential Water Service and Meter | Flat fee per connection | $2,760.00 | No |
| 2 | Revenues - District Operations | Installing 25 mm New Residential Water Service and Meter | Flat fee per connection | $3,180.00 | No |
| 4 | Revenues - District Operations | New non-Residential water service of any size or Residential Water Service greater than 25 mm | Actual cost per connection | Variable | No |
| 5 | Revenues - District Operations | Disconnection Fee for any residential water service less than or equal to 25 mm | Flat fee per disconnection | $450.00 | No |
| 6 | Revenues - District Operations | Disconnection of Non-Residential of any size / Residential Water Service greater than 25 mm | Actual cost per disconnection | Variable | No |
| 9 | Revenues - District Operations | Metered water provided to construction sites | Consumption per cubic metre | Block 1 Water Rate | No |
| 11 | Revenues - District Operations | Fire hydrant Permit | Flat Fee | $156.00 | No |
| 12 | Revenues - Operational Support | Water meter accuracy test ; Meter less than or equal to 50mm - No Chamber - applied if meter does not over-register | Flat Fee | $156.00 | No |
| 13 | Revenues - District Operations | Water turn off fee for demolition; (disconnection of old water service not included) | Flat Fee | $78.00 | No |
| 14 | Revenues - Revenue Services (Finance) | Cost of water consumption from last water meter reading to the date of disconnection of service | Per cubic metre | Block 1 Water Rate | No |
| 15 | Revenue Services- District Operations | Water Turn-off or Turn-on | Each Turn-off or Turn-on | $78.00 | No |
| 15.1 | Revenue Services - District Operations | Single Service call Turn-off and Turn-on within 30 min | Turn-off and Turn-on Service within 30 min | $78.00 | No |
| 17 | Revenues - District Operations | Conduct fire hydrant flow test | Per Flow Test | $260.00 | No |
| 18 | Revenues - District Operations | Unmetered water from each unmetered hydrant- less than or equal to 50 cubic metre | Per 50 cubic metre | 50 cubic metre @ Block 1 Water Rate | No |
| 19 | Revenues - District Operations | Metered water received at hydrant | Per cubic meter of water | Block 1 Water Rate | No |
| 20 | Revenues - District Operations | Inspection of water at excavation sites in case of dispute | Actual cost per inspection | Variable | No |
| 21 | Revenues - District Operations | Unregistered water each day order not complied | Flat Rate | $52.00 | No |

## Schedule 2, Water Services

| Ref. No. | I Service | II Fee Description | III Fee Basis | IV Fee | V Annual Adjustment |
|---|---|---|---|---|---|
| 22 | Revenues - District Operations | Relocate water hydrant | Actual Cost per relocation | Variable | No |
| 23 | Revenues - District Operations | Replacement of equipment due to damage or loss | Actual replacement costs | Variable | No |
| 24 | Revenues - Operational Support | Cost of meter, strainer, connection fittings, hardware and flanges | Actual Cost | Variable | No |
| 25 | Revenues - Operational Support | Annual Seasonal Meter Activation Fee : includes replacement, removal of water meter; 1 turn on, 1 turn off | Flat Fee | $200.00 | No |
| 27 | Revenues - District Operations | Unmetered water - general or use of non-City supplied meter | Estimated consumption per cubic meter | Block 1Water Rate | No |
| 28 | Revenues - District Operations | Deposit for estimated cost of service | Actual cost | Variable | No |
| 29 | Revenues - Operational Support | Relocation of Water Meter | Actual Cost | Variable | No |
| 30 | Revenues - District Operations | Removal of obstructions around fire hydrants | Actual Cost | Variable | No |
| 31 | Revenues - District Operations | Damage to Waterworks | Actual Cost | Variable | No |
| 32 | Revenues - District Operations | Reuse of residential water service 19 mm to 25 mm | Per Service to be reused | $260.00 | No |
| 33 | Revenue Services | Administrative fee to reflect a change in ownership on an existing utility account | Per ownership change | $35.70 | No |
| 34 | Revenue Services | Water Certification Charge | Per Certification | $25.50 | No |
| 35 | Revenue Services | Water Special/Final Reading | Per Customer Request | $15.30 | No |
| 36 | Revenue Services | Water Consumption Statements | For One Year | $40.80 | No |
| 37 | Revenue Services | Water Consumption Statements | For each subsequent year | $25.50 | No |
| 38 | Revenue Services | Returned Cheques | Per NSF Cheque | $35.70 | No |
| 39 | Revenue Services | Water Collection Field Visit | Per Field Visit | $25.50 | No |
| 40 | Revenues - Water Infrastructure | Administration of MOE Municipal drinking Water Licensing Program | per application | $2,350.80 | No |
| 44 | Revenues - Operational Support | Fee for lost or damaged automated meter reading transmitter | per location | $75.00 | Yes |

## Schedule 3, Wastewater Services

| Ref. No. | I Service | II Fee Description | III Fee Basis | IV Fee | V Annual Adjustment |
|---|---|---|---|---|---|
| 1.1 | Revenues - Business Operations Management | Industrial Waste Surcharge - Biochemical Oxygen Demand (BOD) or Phenolics (4AAP) | Per Kilogram | $0.62 | No |
| 1.2 | Revenues - Business Operations Management | Industrial Waste Surcharge - Total Suspended Solids (TSS) | Per Kilogram | $0.60 | No |
| 1.3 | Revenues - Business Operations Management | Industrial Waste Surcharge - Total Phosphorus (TP) | Per Kilogram | $1.69 | No |
| 1.4 | Revenues - Business Operations Management | Industrial Waste Surcharge - Total Kjeldahl Nitrogen (TKN) | Per Kilogram | $1.18 | No |
| 2 | Revenues - Business Operations Management | Sewer Surcharge on private water | Per Cubic Meter | 57% of Block 1 Water Rate | No |
| 3 | Revenues - Business Operations Management | Industrial Waste Surcharge Agreement or Permit where the anticipated total fees for one year or lesser term are $ 500 or less calculated in accord with Ref. No. 1.1-1.4 & 2 above, as applicable | Fixed Fee with Minimum | Calculated in accord with Ref. No. 1.1-1.4 above, as applicable - $500.00 minimum | No |
| 3.1 | Revenues - Business Operations Management | Sanitary Discharge Agreement or Permit where the anticipated total fees for one year or lesser term are $20,000 or less calculated in accordance with Ref. No. 2 above | Fixed Fee with Minimum | Calculated in accord with Ref. No. 2 above - $500.00 minimum | No |
| 4 | Revenues - District Operations | To install new residential sanitary sewer service connection in road allowance | Per Installation | $7,455.00 | No |
| 5 | Revenues - District Operations | To install new residential storm sewer service connection in road allowance | Per Installation | $7,455.00 | No |
| 6 | Revenues - District Operations | To disconnect residential sanitary sewer service connection in road allowance | Per Disconnection | $782.00 | No |
| 7 | Revenues - District Operations | To install new sanitary or storm or combined sewer service for industrial, commercial and institutional applicants | Actual Cost for Installation | Variable | No |
| 8 | Revenues - District Operations | To Disconnect existing sanitary / storm / combined sewer service connection for industrial, commercial and institutional applicants | Per Disconnection - Actual Cost | Variable | No |
| 9 | Revenues - Business Operations Management | Removal of tree root blockage | Based on actual cost | Variable | No |

## Schedule 3, Wastewater Services

| I | II | III | IV | V |
|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee | Annual Adjustment |
| 10 | Revenues - District Operations | Investigation and excavation of drain blockage | Based on actual cost | Variable | No |
| 11 | Revenues - District Operations | Spills Clean Up | Cost + Recovery from Discharger | Variable | No |
| 12 | Revenues - District Operations | Install New Sanitary or Storm Main in Street Allowance | Based on actual cost | Variable | No |
| 14 | Revenues - Business Operations Management | Hauled Sewage Discharge Rate | Per cubic meter | $27.86 | No |
| 15 | Revenues - District Operations | Inspection fee for the reuse of residential City sewer connection up to 150 mm in diameter | Per service to be reused | $521.00 | No |
| 16 | Revenues - Water Infrastructure Management | Technical Review by Toronto Water staff - Application to Toronto Water for exemption to permit the construction of a driveway sloped downwards towards a residential building. | Per application | $1,560.00 | No |
| 17 | Revenues - Water Infrastructure Management | Technical Review by Toronto Water staff - Application to Toronto Water for new connection or relocation of storm, sanitary or water supply connection | Per application | $312 minimum fee; additional $77/hr for each hour after 4 hrs to a mximum of $1,560 | No |
| 18 | Revenues - Water Infrastructure Management | Technical Review by Toronto Water staff - Application to Toronto Water for request to encroach within a City permanent or temporary easement (related to City water and sewer infrastructure) | Per application | $312 minimum fee; additional $77/hr for each hour after 4 hrs to a mximum of $1,560 | No |
| 19 | Revenues - Water Infrastructure Management | Technical Review by Toronto Water staff - Application to Toronto Water for request to release from title a City easement (related to City water and sewer infrastructure) | Per application | $312 minimum fee; additional $77/hour for each hour after 4 hours to a maximum fee of $1,560 | No |
| 20 | Revenues - Business Operations Management | Initial fee for establishment of new industrial waste surcharge agreement | Per agreement | $800.00 | No |
| 21 | Revenues - Water Infrastructure Maangement | MOE Application Processing: to review new sewer engineering designs | per application (MOE cost) | $1,100.00 | No |

## Schedule 3, Wastewater Services

| I | II | III | IV | V |
|---|---|---|---|---|
| Ref. No. | Service | Fee Description | Fee Basis | Fee | Annual Adjustment |
| 22 | Revenues - Water Infrastructure Maangement | MOE Application Processing: to review storm and sanitary pump stations, force mains and sanitary sewage detention chambers or oversized sewer designs | per application (MOE cost) | $2,000.00 | No |
| 23 | Revenues - Water Infrastructure Maangement | MOE Application Processing: to review stormwater management plans such as retention ponds, underground chamber designs | per application (MOE cost) | $2,200.00 | No |
| 24 | Revenues - Business Operations Management | Record search for Sewers by-law compliance violation | per address | $50.00 | No |
| 26 | Revenues-District Operationst | Closed circuit television inspections of sewage works potentially impacted by private construction in their vicinity, pre- and post-construction | Actual cost per inspectiony | Variable | No |

## Appendix D

Schedule 3, Wastewater Services of Chapter 441 of the City of Toronto Municipal Code is amended as follows:

A. By amending Ref No.3 as follows and as shown on the table below:

"Industrial Waste Surcharge Agreement or Permit where the anticipated total fees for one year or lesser term is $500 or less calculated in accord with Ref. No. 1.1-1.4 as above."

| I Ref. No. | II Service | III Fee Description | IV Category | V Fee Basis | VI Fee | VII Annual Adj |
|---|---|---|---|---|---|---|
| 3 | Revenues - Business Operations Management | Industrial Waste Surcharge Agreement or Permit where the anticipated total fees for one year or lesser term are $500 or less calculated in accordance with Ref. No. 1.1-1.4 above, as applicable | City Policy | Fixed Fee with Minimum | Calculated in accord with Ref. No. 1.1-1.4 above, as applicable - $500.00 minimum | NO |

B. By adding as Ref No.3.1 the following and as shown on the table below:

"Sanitary Discharge Agreement or Permit, where the anticipated total fees for one year or lesser term are $20,000 or less calculated in accordance with 2 as above."

| I Ref. No. | II Service | III Fee Description | IV Category | V Fee Basis | VI Fee | VII Annual Adj |
|---|---|---|---|---|---|---|
| 3.1 | Revenues - Business Operations Management | Sanitary Discharge Agreement or Permit where the anticipated total fees for one year or lesser term are $20,000 or less calculated in accordance with Ref. No. 2 above | City Policy | Fixed Fee with Minimum | Calculated in accord with Ref. No. 2 above - $500.00 minimum | NO |

C. By adding as Ref. No. 26 the following as shown on the table below:

| I<br>Ref. No. | II<br>Service | III<br>Fee Description | IV<br>Category | V<br>Fee Basis | VI<br>Fee | VII<br>Annual Adj |
|---|---|---|---|---|---|---|
| 26 | Revenues-District Operations | Closed circuit television inspections of sewage works potentially impacted by private construction in their vicinity, pre- and post-construction | Full Cost Recovery | Actual cost per inspection | Variable | No |

# SECTION 3d

# TORONTO WATER

# Council Decision Documents (a-c)

# TORONTO Item

## Tracking Status

- City Council adopted this item on December 16, 2013 with amendments.
- This item was considered by Executive Committee on December 5, 2013 and was adopted with amendments. It will be considered by City Council on December 16, 2013.
- See also By-laws 1696-2013, 1697-2013, 1698-2013

### City Council consideration on December 16, 2013

| | | | | |
|---|---|---|---|---|
| EX36.17 | ACTION | Amended | | Ward:All |

## 2014 Rate Supported Budgets - Toronto Water and 2014 Water and Wastewater Rates and Service Fees

### City Council Decision

City Council on December 16, 17 and 18, 2013, adopted the following:

Water Rates and Fees

1. City Council approve:

   a. Effective January 1, 2014, the combined water and wastewater rates charged to metered consumers shall be as shown below and in Appendix B to the report (October 30, 2013) from the Deputy City Manager and Chief Financial Officer, and the General Manager, Toronto Water;

| Annual Consumption | Paid on or before the due date, $/m3 | Paid after the due date, $/m3 |
|---|---|---|
| Block 1 - All consumers, including Industrial consumption of first 6,000 m3 "Block 1 rate") | 2.9579 | 3.1138 |
| Block 2 - Industrial process – use water consumption over 6,000 m3, representing 30% reduction from the Block 1 Rate ("Block 2 rate') | 2.0705 | 2.1795 |

   b. Effective January 1, 2014, the water and wastewater rates charged to flat rate consumers be increased by 9% to the rates shown in Appendix B to the report (October 30, 2013) from the Deputy City Manager and Chief Financial Officer, and the General Manager, Toronto Water;

   c. Effective January 1, 2014, the water and wastewater service fees, including all fees to be transferred to Toronto Water from Engineering and Construction Services, formerly Technical Services, shall be as shown in Appendix C to the report (October 30, 2013) from the Deputy City Manager and Chief Financial Officer, and the

General Manager, Toronto Water;

d. Effective January 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 3, Wastewater Services be amended to include the new service fees for CCTV inspections of sewage works impacted by private construction, based on actual costs, and for sanitary discharge permits, as well as clarification of the existing minimum fees and fee basis for industrial waste surcharge agreements and permits and sanitary discharge agreements, as set out in Appendix D to the report (October 30, 2013) from the Deputy City Manager and Chief Financial Officer, and the General Manager, Toronto Water;

e. Effective January 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new fee of $75 for lost or damaged automated meter reading transmitters;

f. Effective July 1, 2014, Chapter 441 – Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new manual water meter reading fee of $80 per visit for consumers with water meters refusing to allow the installation of a new automatic water meter;

g. Effective July 1, 2014, Chapter 441– Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new flat rate legacy fee of $1,020 per year, which will be in addition to the existing flat rate fee, for residential flat rate consumers who refuse to allow the installation of an automatic water meter on their property; and

h. Effective September 1, 2014, Chapter 441– Fees and Charges, Appendix D, Schedule 2, Water Services be amended to include a new administrative fee of $50 for processing annual water supply backflow prevention device testing reports under the City's backflow prevention program.

2. City Council approve, with respect to assistance for low-income seniors and low-income disabled persons, that:

a. The rebate for eligible low-income seniors and low-income disabled persons be set at a rate of $0.8874 /m3, effective January 1, 2014, representing a 30% reduction from the Block 1 rate (paid on or before the due date).

3. City Council make the necessary amendments to Municipal Code Chapter 441 - Fees and Charges, Municipal Code Chapter 849 - Water and Sewage Services and Utility Bill, and Municipal Code Chapter 681- Sewers, and any other necessary Municipal Code Chapters as may be required, to give effect to Parts 1 and 2 above.

4. City Council authorize, effective July 1, 2014, the following amendments to Chapter 441, Fees and Charges, of the Toronto Municipal Code:

a. Appendix D, Schedule 1, Water and Wastewater Consumption Rates, be amended to include a manual water meter reading fee of $80 per visit; and

b. Appendix D, Schedule 1, Water and Wastewater Consumption Rates, be amended to include a flat rate legacy fee of $1,020 per year for residential flat rate consumers.

5. City Council authorize, effective July 1, 2014, any other amendments to the Municipal Code to implement the above fees to water consumers who refuse or fail to allow access for the purposes of installing new water meters and associated meter reading equipment under the City's Water Meter Program.

6. City Council amend Municipal Code Chapter 681 - Sewers substantially in accordance with the draft By-law attached as Appendix A to the report (October 4, 2013) from the General Manager, Toronto Water.

7. City Council amend Municipal Code Chapter 441 - Fees and Charges Schedule C, Toronto Municipal Code Chapter 441 - Fees and Charges, Appendix D - Schedule 3, Wastewater Services, substantially in accordance with the draft By-law attached as Appendix B to the report (October 4, 2013) from the General Manager, Toronto Water.

8. City Council amend Municipal Code Chapter 851 - Water Supply substantially in accordance with the draft By-law attached as Appendix C to the report (October 4, 2013) from the General Manager, Toronto Water.

9. City Council request the General Manager, Toronto Water to give consideration in 2015 and future years Toronto Water budgets to limiting Block 2 Customer water rate increases to a 3% rate increase, or a rate tied to the inflation rate, as a mechanism to use water as an economic driver to support business competitiveness in Toronto.

10. City Council request the General Manager, Toronto Water in Consultation with the General Manager, Economic Development and Culture to further consult with Industry stakeholders in 2014 as part of the consultation being undertaken under report EX35.11 "Future Options and Public Attitudes for Paying for Water, Wastewater and Stormwater Infrastructure and Services" and report back as part of the 2015 Budget submission on the following:

    a. consideration of the potential to reduce the Block 2 threshold from 6000m3 to 5000m3 or an appropriate threshold that provides an opportunity for more value added manufacturing and production firms to become eligible for the block 2 rate;

    b. consideration of the application of fixed cost component related to billing so as not to unfairly impact large water users;

    c. consideration of other methods or models of financing as a potential source of capital funding for a new financing strategy with a view to minimizing rate increases as part of Toronto Water's 2015 Capital and Operating Budget Submission; and

    d. consideration of the re-introduction of the capacity buy-back program for Block 2 eligible customers to further support industry investing in their infrastructure.

11. City Council request the General Manager, Economic Development and Culture in conjunction with the General Manager, Toronto Water to develop an enhanced communications and outreach strategy to with firms that are currently eligible for the Block 2 rate program but are not currently participating and advise them more broadly on how the City can help to support their growth and development in Toronto.

Capital Budget

12. City Council approve the 2014 Recommended Capital Budget for Toronto Water with a total project cost of $968.676 million, and 2014 cash flow of $613.270 million and future year commitments of $2.580 billion comprised of the following:

    a. New Cash Flow Funding for:

        i. 260 new / change in scope sub-projects with a 2014 total project cost of $968.676 million that requires cash flow of ($181.985 million) in 2014 and a future year cash flow commitment of $216.870 million in 2015; $324.884 million in 2016, $314.215 million in 2017, $190.590 million in 2018, $85.214 million in 2019, ($8.734 million) in 2020; ($10.609 million) in 2021, ($13.921) million in 2022, and $52.152 million in 2023; and

        ii. 216 previously approved sub-projects with a 2014 cash flow of $657.198 million; and a future year cash flow commitment of $466.680 million in 2015; $301.777 million in 2016, $208.576 million in 2017, $103.774 million in 2018, $100.886 million in 2019, $100.595 million in 2020; $76.240 million in 2021, and $70.880 million in 2022; and

    b. 2013 approved cash flow for 151 previously approved sub-projects with carry forward funding from 2013 into 2014 totaling $138.057 million.

13. City Council approve the 2015-2023 Recommended Capital Plan for Toronto Water totalling $5.915 billion in project estimates, comprised of $110.798 million in 2015; $241.121 million in 2016; $406.364 million in 2017; $694.490 million in 2018; $817.183 million in 2019; $869.353 million in 2020; $941.077 million in 2021; $908.333 million in 2022; and $926.611 million in 2023, as amended by Part 11 above.

14. City Council amend, for future planning purposes, the draft Capital Plan to reflect a water rate increase of 8% in the years 2015, 2016 and 2017 and that staff report back during the 2015 Budget process on additional financing options.

15. Council consider operating costs of $4.432 million net in 2014, ($0.370) million net in 2015; $0.175 million net in 2016; $5.709 million net in 2017; $5.875 million net in 2018; $0.365 million net in 2019; and $2.504 million net in 2020; and $0.050 million emanating from the approval of the 2014 Recommended Capital Budget for inclusion in the 2014 and future year operating budgets.

16. City Council approve 6 temporary capital positions for the delivery of new 2014 capital projects and that the duration for each temporary position not exceed the life and funding of its respective project / sub-project.

17. City Council request the Deputy City Manager and Chief Financial Officer in consultation with the General Manager, Toronto Water to advance the 2015 cashflow for the Basement Flooding project into 2014, should it become evident that greater than planned volume of work can be completed, and that the 2015 – 2023 budgeted cash flows be adjusted accordingly as part of the 2015 Budget process.

18. City Council request the General Manager, Toronto Water, to prioritize future Basement Flooding Protection Program studies based on the density of reported basement flooding

complaints per sanitary sewer subsewershed for major storm events since 2000. The density of reported basement flooding complaints will be calculated on the basis of the number of complaints of basement flooding received by the City divided by the land area serviced by the sanitary sewer subsewershed.

19. City Council request the General Manager, Toronto Water, to initiate and expedite the completion of new Environmental Assessment studies for Area 35 (Silver Creek subsewershed), Area 36 (Chapman subsewershed), Area 37 (Hillary subsewershed), Area 38 (Etobicoke Creek subsewershed), Area 39 (Berry Creek subsewershed), Area 40 (Forman-Yonge subsewershed), and Area 41 (North Mimico Creek subsewershed).

20. City Council include $1.5 million for Environmental Assessment work on the Scarborough Waterfront Erosion Control and Access Plan with funding coming from the Toronto Water Capital Reserve.

21. City Council request the General Manager, Toronto Water, to report back on the schedule of future Basement Flooding Protection Program study areas (for Study Area 42 and beyond), across the remainder of the City, as part of Toronto Water's 2015 Budget Submission.

22. City Council request the General Manager, Toronto Water, to report to the Public Works and Infrastructure Committee prior to the 2015 Budget Process on a Response Protocol with financial impacts for basement flooding caused by project work within the Basement Flooding Relief Program.

23. City Council request the General Manager, Toronto Water to report back in early 2014 on a coordinated, prioritized Toronto Water and Toronto Region Conservation Authority erosion control strategy and projects, such report to consider an Environmental Assessment for the Scarborough Waterfront Trail and Critical Erosion.

24. City Council direct the General Manager, Toronto Water, to increase the total subsidy available under the Basement Flooding Protection Subsidy Program from $3,200 to $3,400 per household by removing the combined subsidy for a backwater valve and sump pump for applications processed after January 2, 2014.

Operating Budget

25. City Council approve the 2014 Recommended Operating Budget for Toronto Water of $403.163 million gross and $618.722 million in capital-from-current contribution, comprised of the following services:

| Service: | Gross ($000s) | Capital Contribution ($000s) |
|---|---|---|
| Water Treatment & Supply | 177,870.3 | 310,910.1 |
| Wastewater Collection & Treatment | 203,395.3 | 326,746.3 |
| Stormwater Management | 21,470.6 | (18,934.0) |
| Total Program Budget | 403,163.0 | 618,722.3 |

26. City Council approve Toronto Water's 2014 proposed service levels, as outlined on page 7 of the 2014 Recommended Operating Budget (Analyst Notes) for Toronto Water, and the associated staff complement of 1,732.8, as amended by Part 25 below.

27. City Council, subject to Part 14 above which amends, for future planning purposes, the draft Capital Plan to reflect a water rate increase of 8% in the years 2015, 2016 and 2017, also amend the 2014 recommended operating budget for Toronto Water to include 2 additional staff and $0.200 million in gross expenditure increase and offsetting capital contribution reductions.

28. City Council direct the General Manager, Toronto Water to report back on the results of the Water Loss and Leak Detection Program with an implementation plan, including estimated costs and benefits, in time for consideration with the 2015 Budget Process for Toronto Water.

29. City Council authorize the City Solicitor to introduce any necessary Bills required to implement Council's decision, subject to any necessary refinements, including stylistic, format and organization, as may be identified by the City Solicitor and the General Manager, Toronto Water.

*Public Notice Given*

## Background Information (Committee)

(November 12, 2013) Letter from the Budget Committee on 2014 Water and Wastewater Rates and Service Fees
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63940.htm)
(October 30, 2013) Report with Appendix A from the Deputy City Manager and Chief Financial Officer on 2014 Water and Wastewater Rates and Service Fees
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63895.pdf)
(October 30, 2013) Appendix B
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63899.pdf)
(October 30, 2013) Appendix C
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63900.pdf)
(October 30, 2013) Appendix D
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63901.pdf)
(October 30, 2013) Public Notice - 2014 Toronto Water Rates and Fees
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63896.pdf)
(October 30, 2013) Public Notice - Appendix A
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63897.pdf)
(October 30, 2013) Public Notice - Appendix B
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63898.pdf)
(November 1, 2013) 2014 Staff Recommended Capital Budget - Toronto Water (Analyst Notes)
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63904.pdf)
(November 1, 2013) 2014 Staff Recommended Operating Budget - Toronto Water (Analyst Notes)
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63903.pdf)
(October 29, 2013) 2014 Capital Budget Briefing Note #1 on Basement Flooding Protection Program — Project List: 2014 to 2018
(http://www.toronto.ca/legdocs/mmis/2013/ex/bgrd/backgroundfile-63902.pdf)
(November 12, 2013) 2014 Capital Budget Briefing Note #2 on Permanent Restoration of Basement Flooding Protection Projects

# SECTION 4

# TORONTO WATER

# Staff Reports

| | | | | |
|---|---|---|---|---|
| PW7.8 | AMENDED | | | Ward: All |

## Lead Water Services Connection Replacement Program

### City Council Decision

City Council on July 16, 17, 18 and 19, 2007, adopted the following motions:

1. The current Water Service Connection Replacement Program be replaced with a Lead Water Service Connection Replacement Program, directed at an accelerated replacement of lead water service connections over a nine-year period, consisting of the following elements:

    a. Watermain and Road Reconstruction Associated Replacements - Lead water services will be replaced in conjunction with Transportation Services Road Reconstruction Program and Toronto Water's aggressive watermain renewal program, on a targeted area specific basis and on the following priority:

        1. watermains with high break rates;

        2. watermains with substandard hydraulic capacity;

        3. watermains in areas of the City where past water quality sampling has shown elevated levels of lead;

        4. age of the watermain infrastructure, where a first priority is given to those roads where road reconstruction work is planned; and

        5. roads where records show few lead water services have already been replaced.

    b. Emergency Water Service Replacement - Lead water services will be replaced on an emergency basis, where:

1. water quality testing shows that lead levels exceed the Ontario Drinking Water Quality Standard of 10 ppb;

2. where substandard flow rates, lower than 7 litres per minute, as measured at the meter or closest faucet to the entry point of service; and

3. in cases where water services are found to be leaking.

c. On-Demand Water Service Replacement - An annual maximum of 1,500 services be replaced, on a first come first served basis, in the following priority, where a minimum of 500 services are assigned for the replacement of low flow copper service connections:

1. residential properties serviced by lead or galvanized water services; and

2. ½ inch copper service connections where the flow rate, is between 7 and 15 litres per minute, as measured at the meter or closest faucet to the entry point of service.

2. The public communication strategy for lead water services be updated to provide information to residents regarding the Lead Water Service Connection Replacement Program.

**3. The General Manager of Toronto Water report back to the Public Works and Infrastructure Committee on the policy and financial impacts of providing zero-interest loans to private homeowners interested in replacing their privately-owned lead service laterals.**

**4.** The appropriate City officials be authorized and directed to take the necessary action to give effect thereto.

## Background Information

2007-06-27-pw07-8
(http://www.toronto.ca/legdocs/mmis/2007/pw/bgrd/backgroundfile-5459.pdf)

TORONTO

# STAFF REPORT
# ACTION REQUIRED

# Lead Water Service Connection Replacement Program

| | |
|---|---|
| **Date:** | June 13, 2007 |
| **To:** | Public Works and Infrastructure Committee |
| **From:** | Lou Di Gironimo, General Manager, Toronto Water |
| **Wards:** | All |
| **Reference Number:** | P:\2007\Cluster B\TW\pw07026 (AFS #5033) |

## SUMMARY

This report provides information on the status of lead in Toronto's drinking water and proposes a new program directed at accelerating the replacement of lead water services. The report responds to recent concerns expressed by the Public Works and Infrastructure Committee and raised as a result of recent Province-wide drinking water testing ordered by the Ministry of the Environment's Chief Drinking Water Inspector.

This report recommends that Toronto Water's existing Water Service Replacement Program, where services are replaced across the City based on requests received from residents on a first come first served basis, be replaced with a planned, area specific, program tied to Toronto Water's enhanced watermain renewal program.

A new Lead Water Service Replacement Program would accelerate the replacement of the estimated 65,000 remaining lead water service connections within the next 9 years; and provide for the emergency replacement of water service connections with flow rates of less than 7 litres per minute, connections with leaks, and in situations where water quality tests have exceeded the allowable lead concentration limit.

## RECOMMENDATIONS

The General Manager of Toronto Water recommends that:

1. The current Water Service Connection Replacement Program be replaced with a Lead Water Service Connection Replacement Program, directed at an accelerated replacement of lead water service connections over a nine-year period, consisting of the following elements:

a) Watermain and Road Reconstruction Associated Replacements - Lead water services will be replaced in conjunction with Transportation Services Road Reconstruction Program and Toronto Water's aggressive watermain renewal program, on a targeted area specific basis and on the following priority:
    1) watermains with high break rates;
    2) watermains with substandard hydraulic capacity;
    3) watermains in areas of the City where past water quality sampling has shown elevated levels of lead;
    4) age of the watermain infrastructure, where a first priority is given to those roads where road reconstruction work is planned; and
    5) roads where records show few lead water services have already been replaced.

b) Emergency Water Service Replacement - Lead water services will be replaced on an emergency basis, where:
    1) water quality testing shows that lead levels exceed the Ontario Drinking Water Quality Standard of 10 ppb;
    2) where substandard flow rates, lower than 7 litres per minute, as measured at the meter or closest faucet to the entry point of service; and
    3) in cases where water services are found to be leaking.

c) On-Demand Water Service Replacement - An annual maximum of 1,500 services be replaced, on a first come first served basis, in the following priority, where a minimum of 500 services are assigned for the replacement of low flow copper service connections:
    1) residential properties serviced by lead or galvanized water services; and
    2) ½ inch copper service connections where the flow rate, is between 7 and 15 litres per minute, as measured at the meter or closest faucet to the entry point of service.

2. The public communication strategy for lead water services be updated to provide information to residents regarding the Lead Water Service Connection Replacement Program.

3. The appropriate City officials be authorized and directed to take the necessary action to give effect thereto.

## FINANCIAL IMPACT

The cost for the Lead Water Service Replacement Program described herein represents an increase of $19.2 million per year over the funding approved in Toronto Water's 2007 Capital Budget: $17.9 million per year for design and construction work associated with additional water service replacement and watermain reconstruction; and $1.3 million per

year for additional staff resources to oversee the design and construction work associated with the recommendations contained in this report. Subject to Council approval, these funds would be incorporated in Toronto Water's forthcoming 2008-2012 Capital Budget Submission.

The Deputy City Manager and Chief Financial Officer has reviewed this report and agrees with the financial impact information.

## DECISION HISTORY

The Public Works and Infrastructure Committee at their meeting of May 2, 2007, requested the General Manager of Toronto Water, in consultation with the Medical Officer of Health to report on the status of lead in Toronto's drinking water, and on policies and actions being taken by Toronto Water to reduce the health risks of lead for Toronto residents. A copy of the Committee Decision Document related to this request (see Item PW5.7) is available at:
http://www.toronto.ca/legdocs/mmis/2007/pw/decisions/2007-05-02-pw05-dd.pdf

## ISSUE BACKGROUND

The primary sources of lead exposure to Toronto residents are food, soil and dust. Lead seldom occurs naturally in water sources such as rivers and lakes. However, lead is occasionally detected in drinking water sampled within older buildings.

Health Canada has established a maximum acceptable concentration (MAC) of lead in drinking water of 10 ppb (parts per billion) in a free flowing sample of water. The Province of Ontario has adopted this limit as the Ontario Drinking Water Quality Standard for lead.

The City's drinking water supply consistently meets or surpasses all Ontario Drinking Water Quality Standards. Water is tested on a quarterly basis at the output of the four water treatment plants and results of such tests are typically non-detectable for lead. Similarly, the City also tests water samples collected quarterly from the end of the distribution system (along Steeles Ave.) to ensure that lead is not being picked up from within the distribution system, and the results of these samples are also typically non-detectable for lead.

When lead is detected in drinking water flowing from fixtures within older buildings, it is primarily a result of the corrosion or wearing away of materials containing lead that may be found in water service connections (ie. a water line connected to a City watermain, supplying water to the building) and internal building plumbing. The most common sources are lead water service connections (which were generally used to service homes built before 1955), lead-based solder used to join copper pipe (a common practice till the late 1980s but now prohibited under the Province of Ontario's Plumbing Code), and fixtures made of brass and chrome-plated brass.

## COMMENTS

### Drinking Water Sampling Program

Toronto Water provides free sampling and testing for lead in drinking water in homes with lead water service lines or where there is reason to believe that lead levels may be elevated. The samples are collected from the kitchen tap after flushing for 5 minutes. This is done to determine the effect of the lead water service line on water coming from the City's watermain and is consistent with the sampling procedure indicated in the recent Chief Drinking Water Inspector's order, as referenced below. Water quality testing results found to exceed the Ontario Drinking Water Quality Standards are reported to the Ministry of Environment's Spill Action Centre, Toronto Public Health and the homeowner. The results are also conveyed to Toronto Water's District Operations staff so that priority can be given for the replacement of the lead water service to the building.

Table 1 presents a summary of drinking water quality results from 486 water quality inquiries received from 2005 to the present. The Table shows that since 2005, of the 486 samples collected, 41 samples (8.4%) exceeded the Ontario Drinking Water Quality Standard for lead of 10 ppb.

**Table 1. Summary of Lead Analysis from Drinking Water Quality Inquiries**

| Year | Lead Concentration (ppb) | | | Total Number of Samples | Number of samples > 10 ppb | Percent > 10 ppb (%) |
|---|---|---|---|---|---|---|
| | Max | Min | Ave | | | |
| 2005 | 233* | 0 | 6.9 | 121 | 17 | 14.0 |
| 2006 | 26 | 0 | 3.1 | 205 | 12 | 5.9 |
| 2007** | 30.8 | 0 | 3.4 | 160 | 12 | 7.5 |
| | | | | | | |
| Total | - | - | 4.1 | 486 | 41 | 8.4 |

* Note: This location was re-sampled and provided a result of 9.2 ppb.
** As of June 2, 2007

Of the 486 inquiries received, 389 samples were collected from homes serviced with lead water services, of which 31 (8.0%) exceeded the Ontario Drinking Water Quality Standard of 10 ppb.

### MOE Compliance Order

On May 23, 2007, the Ontario Ministry of the Environment's Chief Drinking Water Inspector, issued an Order to 36 municipalities, including the City of Toronto, requiring the municipalities to collect samples from 20 private residences and 5 hydrants in an area known to have lead services. These samples were to be tested for lead, pH and

temperature and the results reported to the Ministry by June 6, 2007. All of the City's samples were collected by May 30, 2007. As expected, the results from samples collected from fire hydrants, representing the quality of water within the City's distribution system, were all well below 10 ppb. However, of the 20 homes sampled, 2 (10%) exceeded this level with lead levels of 13 ppb and 11 ppb, respectively.

Toronto Water continues to sample above and beyond the requirements of the Chief Drinking Water Inspector's order and the Safe Drinking Water Act. In 2007, as of June 2, Toronto Water collected 160 samples for lead analysis from private residences. As shown in Table 1, 7.5% of these samples collected were found to exceed the standard for lead. Toronto Water has received well over 1000 requests for sampling since the release of the Chief Drinking Water Inspector's Order on May 23, and the number has been rising steadily, particularly since the release of the Inspector's report on June 7, 2007. Toronto Water is making every effort to respond to these inquiries as expeditiously as possible.

## MOE Draft Regulation Concerning Lead in Drinking Water

On June 7, 2007, the Ontario Ministry of the Environment released draft regulations titled "Measures to Reduce Lead in Drinking Water – Proposed to Amend the Drinking Water Systems Regulation O. Reg. 170/03". At the time of writing this report, staff have not had sufficient time to fully assess the operational implications of the draft regulations. Toronto Water staff, in collaboration with Toronto Public Health, is planning to submit comments to the Ontario Ministry of the Environment by the June 22, 2007 deadline, regarding proposed changes and improvements to the regulation. The draft Regulations includes the following elements:

*1) Mandatory Community Lead Testing*

The purpose of this new requirement is to assess whether communities have problems with lead in drinking water at the tap. For Toronto, it is proposed that at the beginning of the program a total of 100 homes, 10 non-residences (includes multiple-family dwellings) and 20 distribution system locations be sampled twice a year. The number of samples can be reduced to 50 homes, 5 non-residences and 10 distribution system locations if after 3 consecutive cycles of testing shows that 10% or fewer of the locations had lead levels above 10 ppb. In addition, the draft regulation is requiring that two samples be taken from the first flow of water after the plumbing system is unused for 6 hours.

*2) Notification of Results from the Community Lead Testing*

In cases of exceeding the lead standard from a sample taken at the tap, the laboratory undertaking the analysis would be required to provide written notice within 24 hours to the:

- Medical Officer of Health;
- Ontario Ministry of the Environment's Spills Action Centre;
- Drinking water systems owner; and
- Interested Authority, where the system supplies a Designated Facility that is not a large municipal residential facility.

A reporting protocol is also presented in cases where the adverse water quality results for lead are found within the distribution system. This protocol is consistent with that being used by Toronto Water and Toronto Public Health, wherein the Medical Officer of Health and the Ontario Ministry of the Environment's Spills Action Centre are notified upon receipt of results indicating adverse water quality conditions.

*3) Corrosion Control for Lead Reduction*
This requirement is directed at municipalities and utilities whose test results for any one round of Community Testing exceed 10% of the lead standard or where 50% of the samples collected are below a pH of 7.5, or where an alkalinity level is less than 50 mg/L. However, this component of the draft regulation requires that where a system meets these criteria, the operator undertake necessary actions to implement corrosion control actions directed at reducing the leaching of lead from materials contained within the distribution system; and conduct Sentinel Monitoring at several locations throughout the system (for Toronto it would be 20 locations) on a frequency of every two weeks to assess the effect of corrosion control actions on lead levels in water from plumbing. The frequency of sampling under a Sentinel Monitoring program can be reduced if lead levels decrease.

*4) Lead Asset Replacement Plan*
This requirement is to have the owner of the drinking-water system prepare a plan to replace all lead assets in the drinking-water system, including watermains, service pipes and any other components of the drinking-water system containing lead with safer material. Owners of the drinking-water system would be required to have their first lead asset replacement plans in place by January 1, 2010.

The MOE also introduced a new regulation (O. Reg 243/07) that impacts Schools, Private Schools and Day Nurseries by putting in place measures requiring all:

- Schools and day nurseries, built before 1990, to flush their plumbing daily;
- Schools and day nurseries to be tested on an annual basis;
- Other children's facilities, serving children under seven and built before 1990, to flush their plumbing daily and to be tested on an annual basis; and
- Schools and day nurseries, built after 1989, to continue with a weekly flush of their plumbing system.

## Water Service Replacement Program

In June 1999, City Council adopted a Harmonized Water Service Repair Program, which provided for the replacement, at no cost to the homeowner, of substandard water service lines within the road allowance. Sub-standard water service connections were defined as non-copper material (lead or galvanized iron) and connections with a diameter less than ¾ inches with a flow rate of less than 18 litres per minute. A copy of this report can be found at:
http://www.toronto.ca/legdocs/1999/agendas/council/cc/cc990609/wu9rpt/cl001.htm

A water service connection includes the City-owned portion within the public road allowance extending from the watermain to the water shut-off valve at the property line; and a privately owned section extending from the shut-off to the building. The public portion is normally referred to as the "water service connection". The repair or replacement of the privately owned section of the water service connection is the responsibility of the homeowner.

As of the end of 2006, approximately 42,000 sub-standard water service connections have been replaced since 1999, including 28,000 lead water service connections. The approved 2007 Capital Budget includes funding in the amount of $17.5 million to replace approximately 7,000 sub-standard water service connections, which includes an estimated 5,000 lead service connections. By the end of 2007, it is estimated that the City will have approximately 65,000 lead water service connections remaining. Based on the current rate of replacement, through the existing Water Service Repair Program, it is estimated that the remaining lead water services will be replaced over a 13 year period.

Overview of Existing Water Service Repair Program

There are three different components of the water service replacement program described as follows:

1) *On Demand Water Service Replacement*
   The major portion of the program comes from people calling in and requesting to have their water service line replaced "on-demand" if their service is deemed to be substandard, made of a lead or galvanized iron, or in cases where the measured service flow rate is less than 18 litres per minute, as measured at the meter or closest faucet to the entry point of service. They are dealt with on a "first come, first served" basis and waiting times can be up to 12 months. Some problems with this approach are: the waiting time; the inefficiency of having a contractor move from home to home across the City (mobilization costs can significantly impact the cost of the individual service replacement); the proliferation of pavement cuts occurring year after year on the same block as each service is replaced; no coordination with other construction programs; and occasional complaints about the eligibility criteria. This program component typically results in the replacement of 2,900 services, including 1,950 lead services, per year.

2) *Watermain and Road Reconstruction Associated Replacements*
   Water services are typically replaced in conjunction with the City's watermain and road reconstruction capital programs (where all substandard water services along the limits of the reconstruction project are replaced). In these cases, lower unit rates for the replacement of service connections are realized, typically $1,800 per service connection in comparison to $3,200 per service connection through the "On Demand" program. These lower unit costs are attributed to one time mobilization costs and efficiencies of scale with a focussed effort in one given area as part of a coordinated construction activity. Pavement degradation is not a concern, given the integration with the local reconstruction project. This program typically results in the replacement of 3,500 services, including 2,450 lead services.

3) *Emergency Replacements*
The third component deals with emergencies involving the replacement of a water service connection that delivers flows less than 7 litres per minute, or where the connection has a leak and does not meet current standards of size and/or material. This program typically results in the replacement of 600 lead services per year at a cost of $1.9 million.

With these three components, the current Water Service Repair Program will result in the replacement of all existing lead water service connections within a 13 year time frame.

Overview of Proposed New Lead Water Service Connection Replacement Program

A new program with a targeted and focussed effort on the replacement of lead water service connections is proposed, resulting in an accelerated replacement of lead water services over a 9 year period, which consists of the following elements:

1) *Watermain and Road Reconstruction Associated Replacements*
In the new program, it is proposed that an aggressive watermain renewal program, targeting areas of the City serviced by lead water services be used as the principal vehicle to direct the replacement these services. The area targeted program, when coupled with planned road reconstruction work, seeks to significantly increase the rate of service replacement, while minimizing the unit costs of water service replacement and minimizing the random proliferation of pavement cuts. The program planned, through Toronto Water's existing watermain renewal program and in collaboration with Transportation Services' road reconstruction program, would be directed to the replacement of water services on a block by block basis in the following priority:
    1) watermains with high break rates;
    2) watermains with substandard hydraulic capacity;
    3) watermains in areas of the City where past water quality sampling has shown elevated levels of lead;
    4) age of the watermain infrastructure, where a first priority is given to those roads where road reconstruction work is planned; and
    5) roads where records show few lead water services have already been replaced.

It is estimated that this program will result in the replacement of 6,000 lead services per year at a total estimated cost of $45.4 million for watermain reconstruction and the associated replacement of water service connections.

2) *Emergency Water Service Replacement*
A sub-program directed at replacement of lead water services on an emergency basis is proposed for the replacement of lead water services where water quality testing shows that lead levels exceed the Ontario Drinking Water Quality Standard of 10 ppb. It is estimated that, assuming water quality testing requests level off to about 1,000 per year and using the historical exceedance rate of 10%, an additional 100 lead water

service replacements would be generated. In addition, it is proposed that all services where substandard flow rates (lower than 7 litres per minute), as measured at the meter or closest faucet to the entry point of service, and leaky water services would also be replaced on an emergency basis. Based on past experience, and the expected sustained increase in water quality testing, an estimated 700 water services will be replaced at an annual cost of $2.24 million.

*3) On-Demand Water Service Replacement*

It is proposed that because the new program provides for an accelerated replacement of lead water services, the existing On-Demand program be re-profiled with a maximum annual replacement of 1,500 services, on a first come first served basis, in the following priority, where a minimum of 500 services are assigned for the replacement of low flow copper service connections as follows:

1) residential properties serviced by lead or galvanized water services; and
2) ½ inch copper service connections where the flow rate, as measured at the outdoor faucet is between 7 and 15 litres per minute, as measured at the meter or closest faucet to the entry point of service.

A new low flow threshold of 15 litres per minute is proposed, accounting for water use requirements of a conventional shower head and the flow requirements of a 6 litre toilet. It is proposed that an On-Demand list be maintained on a go forward basis, and this list be used to determine which services are replaced in any given year. It is estimated that this program component will result in a total annual cost of $4.8 million to include 500 lead service replacements.

Based on the above, the new Lead Water Service Replacement Program will result in the annual replacement of an estimated 7,200 lead water services and the replacement of all existing lead water service connections within a 9 year period. This accelerated program will result in an increase in Toronto Water's annual Capital Budget of estimated $19.2 million: $17.9 million per year for design and construction work associated with additional water service replacement and watermain reconstruction; and $1.3 million per year for additional staff resources required to oversee the design and construction work associated with the recommendations contained in this report.

## Public Education and Communication

Toronto Water carries out public education regarding lead water services. This includes providing information on flushing practices (removing standing water from residential plumbing each morning by taking a shower or running the water for five minutes, etc.); using cold water for drinking, cooking or preparing baby formula; requesting water quality testing; and the Water Service Repair program, including application procedures. The messages are provided to residents via a number of mass media methods.

These methods include direct mail such as water bill inserts (distributed four times per year) and *Water Watch*, a residential newsletter (distributed door-to-door twice per year). Information on lead water services was last covered in the summer 2005 edition of *Water*

*Watch* and in the fall 2004 water bill inserts. There will be lead messages in the spring/summer 2007 editions of both publications.

Information regarding lead water services, flushing practices and the Water Service Repair Program is also available on the City's website. Recent web site statistics show that lead-related pages receive approximately 5,000 visits per year, ranging from 400 to 500 per month. In May of 2007, visits to these pages increased to over 1,500. The increase in website visits and calls to Access Toronto are in direct relation to the media attention that was focussed on this issue in May 2007.

The above strategy relies on a mass media approach as being the most effective way to reach a diverse audience. This wide-ranging approach is preferred over targeted direct mailings. The lead issue affects a relatively small portion of the Toronto population and because records of the locations of lead water services are not complete or accurate, direct mailings could miss some affected residents and/or alarm those who are not affected. Using mass media tactics allows for repeated messages over an extended period of time using a variety of different media.

Public education messages will be updated to inform residents about the new Lead Water Service Connection Replacement program upon its approval and the results of the testing done to comply with the recent MOE Order. Periodic public updates will also be provided indicating the progress of the new program.

Additionally, there are a number of low-cost communication methods that can be utilized to increase residents' awareness of the lead issue and the new Lead Water Service Connection Replacement program. These include:

- Public education materials developed and distributed at all Community Environment Days, Access Toronto counters, public education displays;
- Messaging developed for the outreach staff at these events, to engage residents (including some criteria to help staff identify residents affected by the lead issue);
- Articles provided to Councillors for use in their constituency newsletters (targeting Councillors in older areas of the City); and
- Advertisements discussing the lead issue and the new Lead Water Service Connection Replacement program in local community newspapers (in affected areas of the City).

In addition, Toronto Public Health (TPH) provides corresponding information to the public on how to minimize exposure to lead from all sources including drinking water. This information is provided on the TPH web site, through written materials and in response to direct inquiries.

Toronto Water staff refers consumers with lead levels above the Ontario Drinking Water Quality Standard to TPH for specific advice. In such cases, TPH recommends they reduce lead exposure from drinking water until they replace their lead pipes. Reducing exposure to lead can be achieved by using a filter certified to meet the standards for lead

removal set by the National Sanitation Foundation (NSF) or the American National Standards Institute (ANSI) or by using bottled water free of lead.

Finally, on those streets where lead water service connections are scheduled to be replaced, each homeowner will receive a notice from the City describing the program and encouraging them to replace their lead private water service pipes at the same time.

This report has been prepared in consultation with the Medical Officer of Health.

## CONTACT


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## SIGNATURE

_____

Lou Di Gironimo
General Manager, Toronto Water

TORONTO

# STAFF REPORT
# INFORMATION ONLY

# Toronto Water's Infrastructure Renewal Backlog

| | |
|---|---|
| **Date:** | October 8, 2008 |
| **To:** | Budget Committee |
| **From:** | Lou Di Gironimo, General Manager, Toronto Water |
| **Wards:** | All |
| **Reference Number:** | P:\2008\Cluster B\TW\bc08018 |

## SUMMARY

A detailed analysis was undertaken to update estimates of Toronto Water's water and wastewater infrastructure renewal backlog and is summarized in this report. The total backlog has been estimated to be $1.8 billion: $1.3 billion in existing sewer and watermain infrastructure and $0.55 billion for water and wastewater treatment plants and facilities.

The analysis shows that an average investment estimated at $253 million per year is required, for the next 10 years, to prevent any further growth in the infrastructure renewal backlog. Toronto Water's 2009-2018 Capital Budget Submission, includes an increase in state of good repair investment from $283 million in 2009 to more than $500 million in 2018, for a total investment of $4.2 billion over the 10 year period which will substantially clear the existing water and wastewater infrastructure renewal backlog by 2018.

### Financial Impact

The financial implications arising from this report are reflected in Toronto Water's 2009 -2018 10-Year Capital Plan and Forecast.

## DECISION HISTORY

In 2001, Council accepted Toronto Water's report, entitled "Water and Wastewater Services Long-Term Sewer and Watermain Infrastructure Renewal Needs.

A copy of the Council Decision Document can be found at:
http://www.toronto.ca/legdocs/2001/minutes/council/cc011106.pdf

## ISSUE BACKGROUND

The water and wastewater infrastructure renewal backlog is a recognized problem within older municipalities across North America. The construction of water and wastewater infrastructure has typically tracked the urban growth cycles; and much of this older infrastructure is now at or reaching the end of its expected service life.

In 2001, Toronto Water reported to the then Works Committee on the long-term sewer and watermain infrastructure renewal needs. This analysis has been updated in support of Toronto Water's 2009 to 2018 Capital Budget Submission and reflects current sewer and watermain system inventories and condition assessments; recent condition assessments for the City's water and wastewater treatment facilities; and current infrastructure renewal costing data.

For the purposes of this analysis, the City's stormwater management facilities, including stormwater ponds and underground storage tanks have not been included as they are relatively new infrastructure. Further, stream restoration needs to address existing erosion scars across the City; and mitigate future stream erosion are also not included in this analysis.

**Watermain and Sewer System Construction History**

The City's water distribution system consists of 5,850 km of pipe, ranging in size from 50 mm to 2,250 mm, with an estimated total system replacement value of $5.9 billion.

The age distribution of the system, dating back to 1858, by year of construction, is presented in Figure 1; and the cumulative percentage of system length by decade of construction is presented in Figure 2. Both figures show the growth of the system tracking the urban development growth cycles of the late 1800s, early 1900s and the major growth cycles of the 1950s, 1960s and 1970s. The average age of the system is approximately 54 years old, with 380 km (6.5%) of pipe now over 100 years of age and an additional 995 km (17%) of pipe are between 80 and 100 years of age. The most common material type is cast iron (71%), followed by ductile iron (16%).

The City's sewer system consists of 10,561 km of pipe, ranging in size from 100 mm to 5,500 mm, with an estimated total system replacement cost of approximately $13.3 billion.

The age distribution of the sewer system, dating back to 1800, by year of construction, is presented in Figure 3; and the cumulative percentage of system length by decade of construction is presented in Figure 4. The average age of the sewer pipes is approximately 48 years, with 370 km (4%) of pipes over 100 years of age. An additional 705 km (7%) of pipes are between 80 and 100 years of age. The most common material type is concrete (75%), followed by vitrified clay (15%).

**Figure 1 – Watermain System Length by Year of Construction**

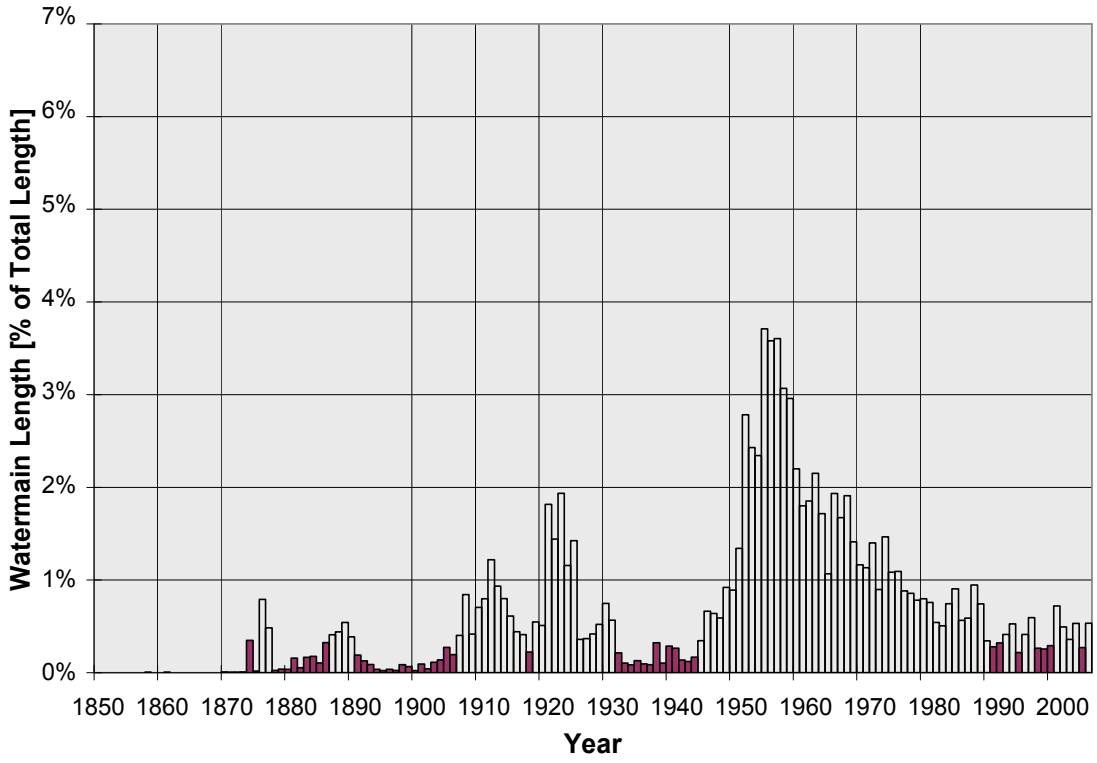



**Figure 2 – Watermain System Length and Cumulative Percentage of Total System Length by Decade of Construction**

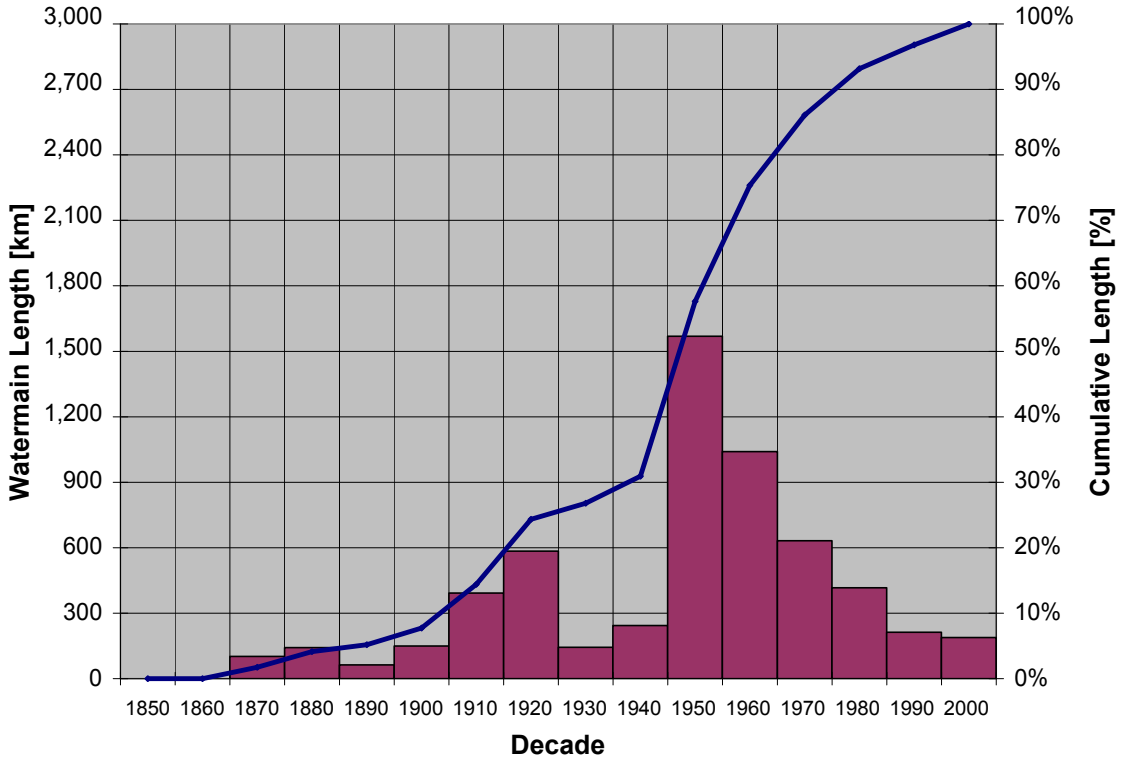


**Figure 3 – Sewer System Length by Year of Construction**

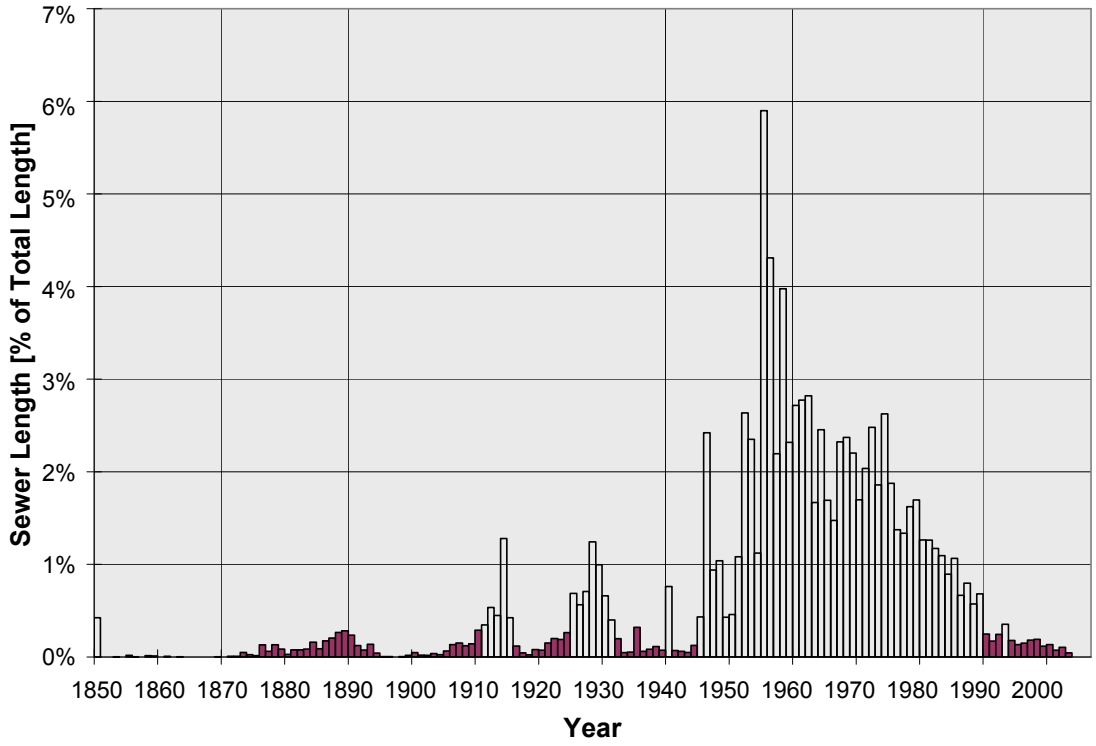
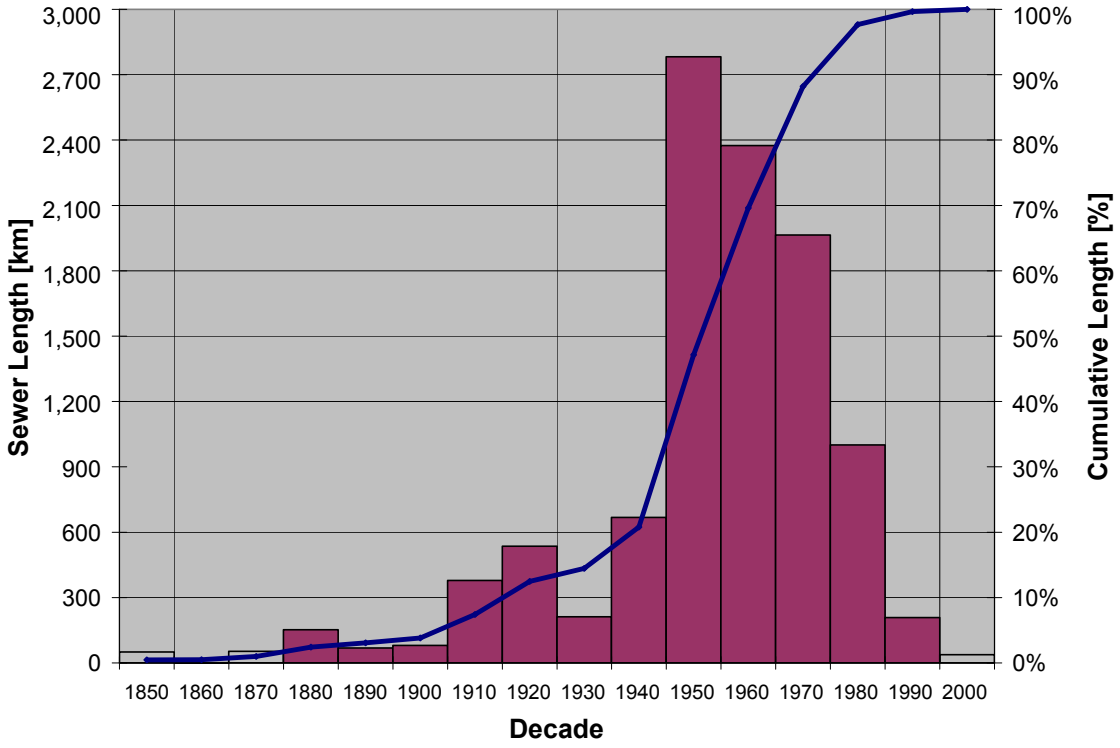



**Figure 4 – Sewer System Length and Cumulative Percentage of Total System Length by Decade of Construction**



**Water and Wastewater Treatment Plant Construction History**

Toronto Water operates four water treatment plants located across the waterfront, with a combined treatment capacity of 2.5 billion litres per day, ranging from 410 megalitres per day (MLD) at the Island Water Treatment Plant to 950 MLD at the R.C. Harris Water Treatment Plant. A summary of the operational history of the four plants is presented in Table 1. As noted in Table 1, the Island Water Treatment Plant has the oldest history of operation, dating back to 1910, however the Plant was completely rebuilt in 1977. As noted in the table, the F.J. Horgan Water Treatment Plant is the newest of the facilities, which has been operational for 29 years, while the R.C. Harris Water Treatment Plant is the oldest facility, in operation for 67 years. The R.C. Harris Water Treatment Plant was last expanded in 1958 while the R. L Clark and F.J. Horgan Water Treatment Plants have never been expanded.

**Table 1 - Water Treatment Plant Capacity and Date of Operation History**

| Water Treatment Plant | Plant Capacity (MLD) | Operations first Commissioned (Year) |
|---|---|---|
| **R.C. Harris** | 950 | 1941 |
| **R.L. Clark** | 615 | 1968 |
| **Island** | 410 | 1910<br>*rebuilt 1977* |
| **F.J. Horgan** | 570 | 1979 |

Toronto Water operates four wastewater treatment plants which collect and treat the City's wastewater, with a combined treatment capacity of 1.5 billion litres per day, ranging from 36 MLD at the North Toronto Wastewater Treatment Plant to 818 MLD at the Ashbridges Bay Wastewater Treatment Plant. The three largest facilities are located along the waterfront, while the North Toronto Wastewater Treatment Plant, is located along the Don River, north of Pottery Road. A summary of the operation history of the four plants is presented in Table 2. As noted in Table 2, the Ashbridges Bay Wastewater Treatment Plant has the oldest history of operation, operating for 97 years, while the newest facility, the Humber Wastewater Treatment Plant, has been operating for 48 years. Each plant has undergone varying levels of plant expansions and major upgrades since the inception of their operations, resulting in a asset base of widely ranging ages.

**Table 2 - Wastewater Treatment Plant Capacity and Operation History**

| Wastewater Treatment Plant | Plant Capacity (MLD) | Operations first Commissioned (Year) |
|---|---|---|
| **Ashbridges Bay** | 818 | 1911 |
| **North Toronto** | 36 | 1929 |
| **Highland Creek** | 219 | 1956 |
| **Humber** | 473 | 1960 |

Toronto Water is currently completing appraisals at each of the water and wastewater treatment plants to determine asset values. These appraisals are based on a review of drawings, inventory of principal machinery and equipment assets and pertinent construction features. Replacement costs are being estimated based on the current cost to install a similar new asset, using as a basis, benchmark costs for similar design, style, construction and function, adjusted to more closely suit any site specific and specialty features.

While these appraisals are expected to be completed by the end of the year, a summary of current estimated replacement costs by asset category is presented in Table 3. At this time, the estimated cost to replace all four water treatment plants, combined with the City's 18 booster pumping stations and 11 water storage facilities is estimated to be $3.0 billion.

The cost to replace the wastewater treatment plants along with the associated 81 sewage pumping stations, within the wastewater collection system, is estimated to be $3.5 billion.

**Table 3 - Water and Wastewater Facilities Replacement Costs**

| Facility Component | Water Facility Asset Value ($ Million) | Wastewater Facility Asset Value ($ Million) |
|---|---|---|
| Buildings & Structures | 956 | 799 |
| Machinery, Equipment & Process Units | 2,034 | 2,692 |
| **TOTAL** | **2,990** | **3,491** |

## System Life Expectancies

The useful service life of assets is dependent on more factors than simply age, as manufacturing technologies and materials have changed over time, as well as design standards and construction practices. In support of a planning level analysis estimating the current and projected future infrastructure renewal needs, the City's water and wastewater infrastructure assets have been grouped into asset classes; each with a corresponding projected life expectancy.

The City's watermain and sewer infrastructure was categorized based on pipe type, material, size, renewal status and age. System life expectancies were based on local historical infrastructure condition data, including pipe failure data, and input from operations staff. For new materials, such as PVC, where little local failure data available, life expectancies were based on failure statistics, and case studies from other municipalities. A summary of life expectancies and corresponding percentage of total system length, for each of the 15 watermain and 5 sewer system asset classes is presented in Tables 4 and 5, respectively.

**Table 4 – Watermain Asset Classes and Life Expectancies (Small F=150mm, Large F>150mm)**

| Acronym | Description | Life Expectancies | | | Length (m) | % of Total |
|---|---|---|---|---|---|---|
| | | 100% | 50% | 10% | | |
| CIPOS | Cast Iron, Pit Cast (<1950), Original, Small | 60-80 | 80-100 | 100-120 | 623,171 | 10.6% |
| CIPOL | Cast Iron, Pit Cast (<1950), Original, large | 70-90 | 90-110 | 110-130 | 398,567 | 6.8% |
| CIPCLS | Cast Iron, Pit Cast (<1950), Cleaned&Lined, Small | 15-25 | 25-35 | 35-45 | 659,668 | 11.2% |
| CIPCLL | Cast Iron, Pit Cast (<1950), Cleaned&Lined, Large | 25-35 | 35-45 | 45-55 | 115,940 | 2.0% |
| CISOS | Cast Iron, Spun Cast (>=1950), Original, Small | 20-40 | 40-50 | 50-70 | 440,999 | 7.5% |
| CISOL | Cast Iron, Spun Cast (>=1950), Original, Large | 30-50 | 50-70 | 70-90 | 750,035 | 12.8% |
| CISCLS | Cast Iron, Spun Cast (>=1950), Cleaned&Lined, Small | 5-10 | 10-15 | 15-20 | 945,850 | 16.1% |
| CISCLL | Cast Iron, Spun Cast (>=1950), Cleaned&Lined, Large | 10-15 | 15-20 | 20-25 | 221,226 | 3.8% |
| DIOS | Ductile Iron, Small | 40-60 | 60-80 | 80-100 | 182,437 | 3.1% |
| DIOL | Ductile Iron, Large | 50-70 | 70-90 | 90-110 | 325,062 | 5.5% |
| DICPS | Ductile Iron, Cathodically Protected, Small | 15-25 | 25-35 | 35-45 | 190,774 | 3.2% |
| DICPL | Ductile Iron, Cathodically Protected, Large | 25-35 | 35-45 | 45-55 | 129,164 | 2.2% |
| PVCALL | Polyvinyl Chloride, All Sizes | 70-90 | 90-110 | 120-150 | 512,026 | 8.7% |
| MSOA | Metro Trunk and Steel, All Sizes | 80-100 | 90-120 | 120-150 | 217,594 | 3.7% |
| OTHER | Other material (concrete, copper, AC, etc). All Sizes. | 40-60 | 60-80 | 80-100 | 162,687 | 2.8% |
| | | | | **Total** | 5,875,200 | 100% |

**Table 5 – Sewer System Asset Classes and Life Expectancies**

| Acronym | Description | Life Expectancies | | | Length (m) | % of Total |
|---|---|---|---|---|---|---|
| | | 100% | 50% | 10% | | |
| CS | Concrete, <=450mm | 50-70 | 70-90 | 90-110 | 4,525,469 | 42.8% |
| CL | Concrete, >450mm | 70-90 | 90-110 | 110-130 | 3,365,772 | 31.9% |
| BR | Brick, All Sizes | 70-90 | 90-110 | 110-130 | 248,755 | 2.4% |
| VCS | Vitrified Clay, <=375mm | 50-70 | 70-90 | 90-110 | 1,058,892 | 10.0% |
| VCL | Vitrified Clay, >375mm | 60-80 | 80-100 | 100-120 | 522,519 | 4.9% |
| PVCALL | Polyvinylchloride, All Sizes | 20-30 | 30-50 | 50-90 | 140,116 | 1.3% |
| AC | Asbestos Cement, All Sizes | 80-90 | 90-110 | 110-150 | 590,224 | 5.6% |
| OTHER | Other material. All Sizes. | 20-30 | 30-50 | 50-90 | 110,062 | 1.0% |

The water and wastewater treatment plant assets have been grouped into two categories: buildings, and process equipment and machinery. Buildings at the plants are assumed to have a lifespan of 75 years, while process equipment and machinery are assumed to have an average lifespan of 54 years to account for the varying lifespans of an estimated 30 years for mechanical and electrical equipment; and 60 years for treatment processes such as filters and digesters. These assumptions are in line with the general guidelines for the Public Sector Accounting Board (PSAB) tangible capital assets reporting.

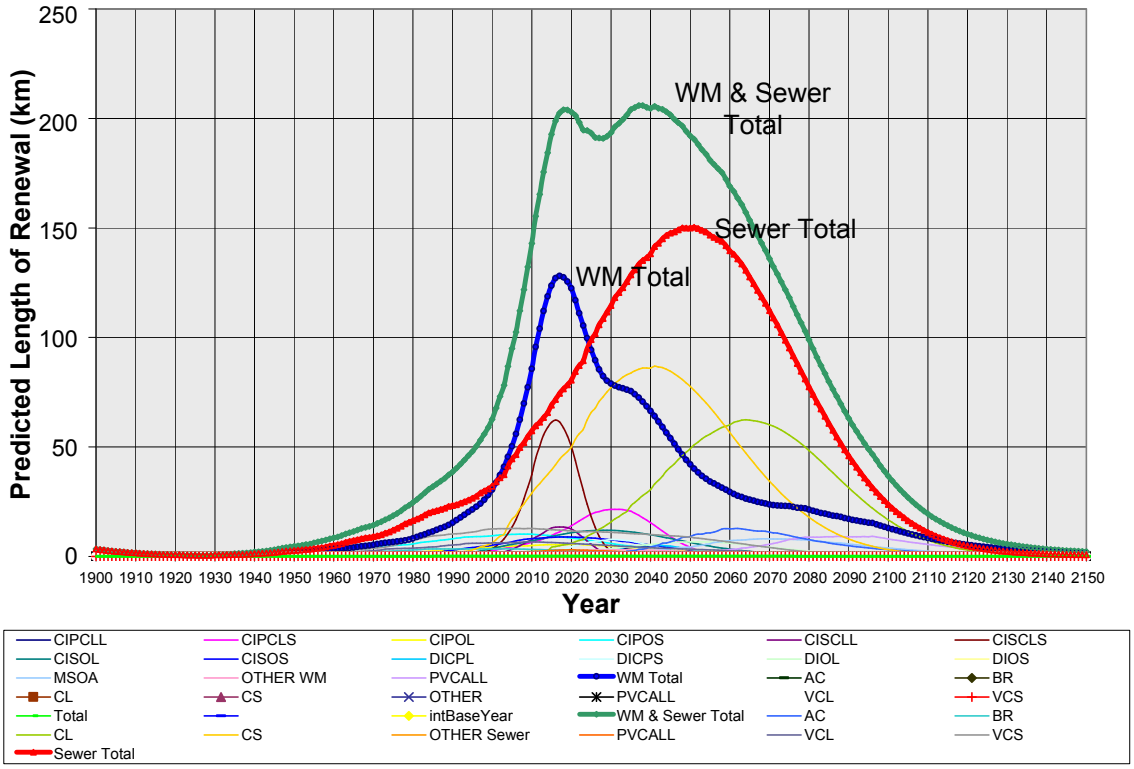
## COMMENTS

A thorough analysis quantifying the infrastructure renewal backlog for the City's water and wastewater infrastructure assets was undertaken for each of the asset classes. The approach taken in this analysis is described in detail by asset grouping in the following sections and is summarized in Table 6 that follows.

**Watermain and Sewer System Infrastructure Renewal Backlog**
The predictive model (KANEW), used in the 2001 staff report noted above, was developed through the American Water Works Association Research Foundation (AWWARF), and used to estimate the existing infrastructure renewal backlog and future renewal needs for the City's sewer and watermain infrastructure. The model was applied to the aggregated (City-wide) sewer and watermain infrastructure data inventory, updated to the end of 2006. The data was segregated into asset classes, based on pipe type, age and material. A life expectancy curve was generated for each asset class based on an estimate of pessimistic, optimistic and average pipe life expectancies (similar to life insurance mortality tables). The model was then used to generate annual infrastructure renewal needs, as pipe lengths, for each asset class; and the aggregate of all asset classes. A summary of the modelling results, showing annual renewal rates, in terms of system length, for watermains, sewers and the combined total linear infrastructure, respectively, is presented in Figure 5.

Based on this analysis, the estimated total infrastructure renewal backlog was computed as the sum of the predicted renewal needs to the year 2006, less any infrastructure renewal that was undertaken and not included in the original data inventory (eg. sewer relining). Using this methodology, the existing backlog of deteriorated water and sewer infrastructure is estimated to be 760 kilometres and 1,035 kilometres, respectively. Applying standard unit rates for reconstruction and assuming current levels of rehabilitation techniques such as relining, rather than reconstruction, results in a total renewal need of $1.3 billion.

**Figure 5 - Predicted Annual Renewal Length by Year:**
**a) Watermains (WM); b) Sewers; and c) Total Watermains and Sewer**




**Water and Wastewater Treatment Plant Infrastructure Renewal Backlog**

In 2005, a detailed assessment/survey was undertaken at each of the four water treatment plants to assess the condition of buildings, submerged structures, yard piping and process piping components, respectively. Process control and data acquisition instrumentation system components, building mechanical systems and process equipment were not included in this assessment as much of these systems had been upgraded or replaced within the last 10 years as part of upgrades to meet new Ontario Ministry of the Environment regulatory requirements.

The studies were completed in early 2007 and identified approximately $25 million of general repairs to enhance the integrity and performance of building and structural components and repair leaks in roofs, piping and valves. Subsequently, additional studies identified the need for complete refurbishment of the historical building envelope at the R.C. Harris Water Treatment Plant, replacement of aging process equipment throughout the R.L. Clark Water Treatment Plant and electrical system component replacement in many of the booster pumping stations throughout the system. This results in an estimated combined infrastructure backlog in the water treatment and supply facilities of $105 million.

Facility assessment reports were also completed for the wastewater treatment plants in 2004-2005. The reports were based on investigations of existing infrastructure at the plants through

review of previous studies and drawings, staff interviews and physical inspections of buildings and services. While the backlog of renewal needs identified in these reports has corresponded well with more current estimates derived through the recent design and construction phases at the Ashbridges Bay and Humber Wastewater Treatment Plants, the Highland Creek Wastewater Treatment Plant facility forecast report has significantly under-estimated the magnitude and value of infrastructure renewal required at this facility. The estimate for infrastructure renewal needs at the Highland Creek Wastewater Treatment Plant, has therefore been adjusted, commensurate with the work identified for the Humber Wastewater Treatment Plant as the plants are of similar vintage and total asset value. The combined current backlog for the wastewater treatment plants is therefore estimated at $390 million.

In addition, recently completed assessments of 81 sewage pumping stations thoughout the City suggest that an additional $25 million is required to bring these stations to a state of good repair condition. The combined infrastructure backlog for the water and wastewater treatment facilities is therefore estimated to be $520 million.

**Table 6 – Water and Wastewater Infrastructure Renewal Needs by Asset Class**

| Asset Class | Asset Value ($ Million) | Infrastructure Renewal Backlog ($ Million) | Annual Renewal Needs at State of Good Repair ($ Million) |
|---|---|---|---|
| **Watermains** | $5,900 | $741 | $95 |
| **Sewers** | $13,300 | $510 | $16 |
| **Water Treatment & Supply** | $3,000 | $105 | $63 |
| **Wastewater Treatment** | $3,500 | $415 | $77 |
| **TOTAL:** | **$25,700** | **$1,771** | **$253** |

**State of Good Repair Annual Renewal Needs**

The previous analysis identified the total investment required to restore the system to a State of Good Repair in 2008; however, each successive year brings with it an additional renewal need as assets age and reach the end of their useful life, otherwise, the backlog will continue to grow. The determination of annual renewal needs is detailed below and summarized above in Table 6.

Based on the KANEW analysis of sewer and watermain renewal needs over the next 10 years shown in Figure 5, it has been estimated that annually between 70 and 130 kilometres (ie. 1.2 to 2 percent) of watermains, will be reaching the end of their service life and should be renewed to prevent a further increase in the existing infrastructure renewal backlog. Similarily, an estimated 50 to 70 kilometres (ie. 0.5 to 0.7 percent) of sewer infrastructure should be renewed annually.

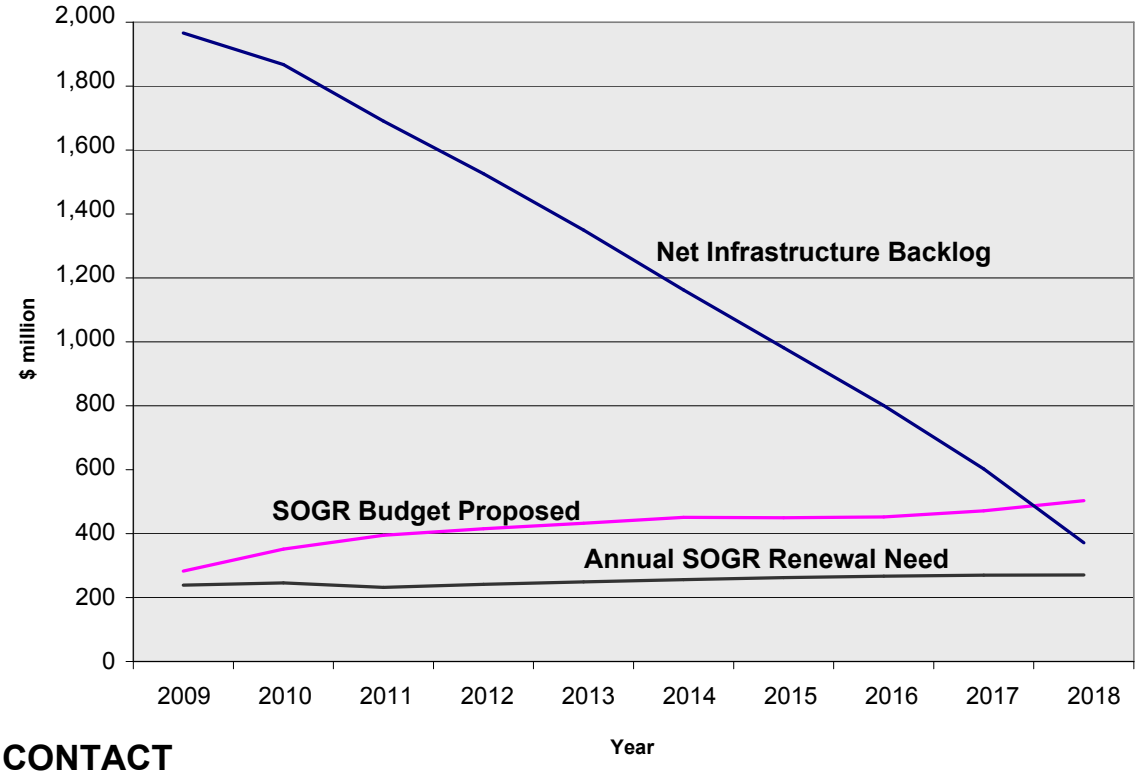
Combined, and based on current unit rates, this equates to an average annual investment of $112 million.

The annual funding renewal need for the water and wastewater treatment facilities can be determined based on the anticipated life expectancies of the components and the costs of replacing the facilities, established through the appraisal process, as summarized in Table 3. Assuming that the building and structures category has a lifespan of 75 years, it can be generalized that 1.3% of the asset value must be invested annually to maintain them in a state of good repair condition.

With machinery and process equipment, it is assumed that 65% of this asset category is structural such as filter and digester tankage with an average lifespan of 75 years. The remaining 35% of this asset category is largely mechanical and electrical equipment with much shorter lifespans of 30 years and 15 years respectively, resulting in a combined annual renewal rate 2.5%. Applying these factors to the asset values derived through the appraisal process results in an estimated annual renewal need of $142 million.
The combined annual renewal need to maintain Toronto Water's assets in a state of good repair condition is therefore equal to an annual average investment of $253 million, or approximately 1% of the combined asset value, as shown in the previous Table 6.

**Strategy to Address Water and Wastewater Infrastructure Renewal Backlog**
Toronto Water has proposed a 10-Year Capital Plan and Forecast that reflects a significant increase in State of Good Repair Funding, that if approved will significantly deplete the backlog of deteriorated infrastructure within the 10 year planning horizon. Toronto Water's 2009-2018 Budget Submission represents an increase of State of Good Repair investment from $283 million in 2009 to more than $500 million in 2018 for a total investment of $4.2 billion over the 10 year period. A summary of the annual combined water and wastewater program renewal needs, state of good repair renewal needs; and state of good repair budget proposed, for the period 2009-2018 is presented in Figure 6. The figure shows that if the annual investment in state of good repair is maintained, as proposed, the infrastructure renewal backlog will be substantially cleared by 2018.

**Figure 6 – Summary of Annual Water and Wastewater Infrastructure Renewal Needs and State of Good Repair Investment Proposed (2009 – 2018)**

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