

CAPITAL BUDGET NOTES



Solid Waste Management Services

2016 – 2025 CAPITAL BUDGET AND PLAN OVERVIEW

Solid Waste Management Services (SWMS) is responsible for maintaining infrastructure valued at \$569 million excluding landfills, comprised of 7 transfer stations, 2 organics processing facilities, 5 collection yards and approximately of 1.6 million organics, recycling and waste bins. Landfills include the active Green Lane Landfill and 160 closed landfills.

The 2016-2025 Recommended Capital Plan totaling \$1.048 billion focuses on funding major diversion facilities to advance the City's goal of 70% Waste Diversion by investing in facilities and systems necessary to achieve this target as well as to continue Collection Yard and Transfer Station Asset Management and Perpetual Care of closed landfills. The year 2025 includes a preliminary estimate of \$404.6 million for funding to implement the Long Term Waste Management Strategy (Waste Strategy), which will include recommendations to reduce, reuse, recycle and recover and dispose of the City's waste over the next 30 to 50 years. These funding estimates will be revised as part of the 2017 Budget process following Council's approval of the Waste Strategy.

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Contacts

Review

Program:

Lou Di Gironimo

Acting General Manager Tel: (416) 392-8200 Email: ldigiro@toronto.ca

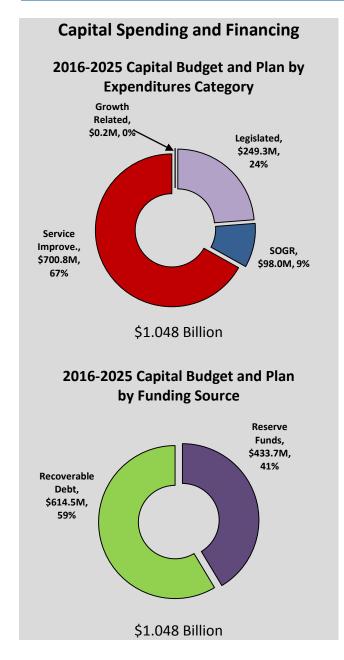
Corporate:

Stephen Conforti

Manager, Financial Planning

Tel: (416) 397-0958

E-Mail: sconfor@toronto.ca



Where does the money go?

The 2016–2025 Recommended Capital Budget and Plan totalling \$1.048 billion provides funding to address waste diversion and recycling, including:

- Service Improvement projects that include the expansion of the Green Bin organics program to include apartments and condominiums, life-cycle replacement of all bins as well as building additional organics processing capacity.
- Legislated projects include ongoing development of the Green Lane Landfill and perpetual care of closed landfills, as well as strategic studies and investments in facilities and technologies as determined by the Waste Strategy.
- State of Good Repair (SOGR) projects including improving and maintaining transfer station, collection yard and diversion facilities capacity and effectiveness.

Where does the money come from?

The 10-Year Capital Plan is funded by two major sources:

- Recoverable debt funding of \$614.475 million comprises 58.6% of SWMS 10-year capital funding. The City initially funds this debt; SWMS then repays the debt servicing costs over its term through the collection of user fees in their Operating Budget.
- Capital financing of \$433.696 million or 41.4% will be provided primarily from the Waste Management Reserve Fund, with annual contributions to the reserve generated from user fee (rate) revenue in the Operating Budget.

State of Good Repair Backlog

The Solid Waste Management Program does not currently have a backlog of State of Good Repair (SOGR). The funding allocated in the 10-Year Capital Plan for SWMS for SOGR projects for 2016 and future years is deemed appropriate to maintain the assets in a state of good repair. The Program is undertaking an asset condition assessment and will report any changes to their SOGR backlog during future Capital Budget processes.

Key Issues & Priority Actions

70% Waste Diversion - The SWMS' capital program is driven primarily by the City's objective to achieve the 70% waste diversion target.

- ✓ SWMS is developing a Waste Strategy that will guide how the City's waste will be managed over the next 30 50 years.
- ✓ The 2016 2025 Capital Budget and Plan includes funding of \$2.9 million for a study for the Waste Strategy as well as \$497.0 million to ultimately implement the strategy, once approved by Council.

Long-Term Capital Funding - To ensure generated rate revenue is adequate to support SWMS' 10-year capital needs as well as allow for the continued transition to a fully sustainable utility model, reducing the application of recoverable debt when appropriate.

- ✓ The 2016 Recommended Operating Budget for SWMS includes a 3% rate increase with anticipated 3% annual rate increases over the next 10 years to ensure sufficient capital funding for future diversion programs and facilities that maximize the lifespan of the Green Lane landfill beyond 2029, as well as ensure effective solid waste management and disposal.
- ✓ This multi-year fee/rate strategy will be adjusted in the 2017 Budget Process upon approval of the Waste Strategy in 2016 with the longer term goal to fund the SWMS 10-Year Capital Plan primarily through reserve funds, supported by annual operating contributions funded from user fees revenue.

2016 Capital Budget Highlights

The 2016 Recommended Capital Budget for SWMS of \$89.167 million, excluding carry forward funding, will:

- Continue improving Diversion Systems with multi-unit organics & recycling containers and single family next generation Green Bin organics containers & waste / recycling containers (\$14.2 million);
- Continue building organics processing capacity at the Dufferin & Disco facilities (\$19 million);
- Continue improving and maintaining Transfer Stations and Collection Yards and Diversion Facilities (\$20.3 million);
- Continue developing the Green Lane Landfill (\$14 million) with Gas Utilization projects (\$3.8 million) and providing perpetual care of closed landfills (\$9.4 million);
- Begin implementation of approved Waste Strategy options (\$2.9 million).











Recommendations

The City Manager and Chief Financial Officer recommend that:

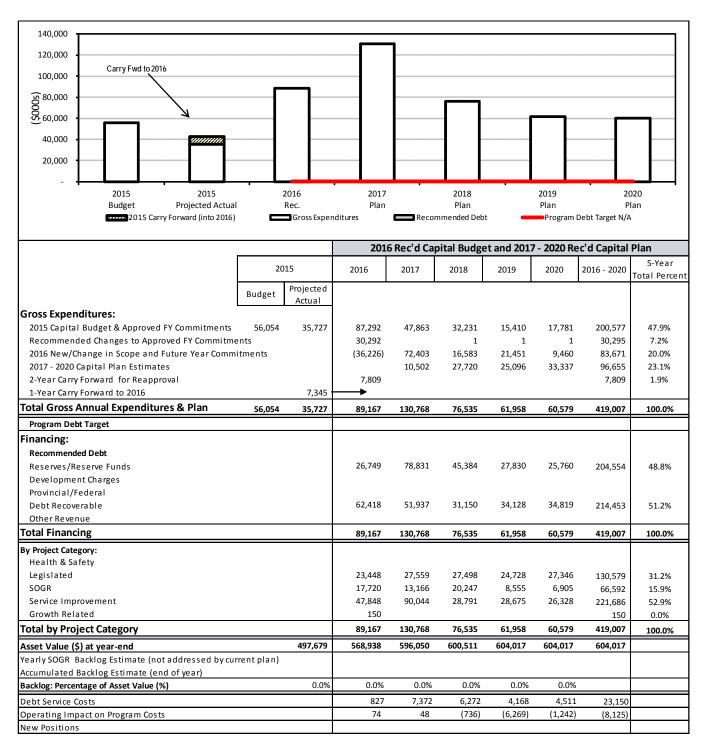
- 1. City Council approve the 2016 Recommended Capital Budget for Solid Waste Management Services with a total project cost of \$83.671 million, and 2016 cash flow of \$96.512 million and future year commitments of \$264.325 million comprised of the following:
 - a) New Cash Flow Funds for:
 - 52 new / change in scope sub-projects with a 2016 total project cost of \$83.671 million that requires cash flow of \$(36.226) million in 2016 and future year cash flow commitments of \$72.403 million for 2017; \$16.583 million for 2018; \$21.451 million for 2019; and \$9.460 million for 2020;
 - ii. 41 previously approved sub-projects with a 2016 cash flow of \$117.584 million; and future year cash flow commitments of \$47.863 million for 2017; \$32.232 million for 2018; \$15.411 million for 2019; \$17.782 million for 2020; \$13.451 million for 2021; \$15.174 million for 2022 and \$2.515 million for 2023;
 - iii. 10 previously approved sub-projects with carry forward funding from 2014 and prior years requiring 2016 cash flow of \$7.809 million that requires Council to reaffirm its commitment; and
 - b) 2015 approved cash flow for 7 previously approved sub-projects with carry forward funding from 2015 into 2016 totalling \$7.345 million.
- City Council approve the 2017 2025 Recommended Capital Plan for Solid Waste Management Services totalling \$694.679 million in project estimates, comprised of \$10.502 million in 2017; \$27.720 million for 2018; \$25.096 million for 2019; \$33.337 million for 2020; \$31.163 million for 2021; \$33.609 million for 2022; \$44.496 million for 2023; \$50.501 million for 2024; and \$438.255 million in 2025.
- 3. City Council approve the new debt service costs (savings) of \$(164.7) million in 2016 and incremental debt of \$(1.086) million in 2017, \$0.935 million for 2018; \$(0.600) million for 2019; \$(1.179) million for 2020 and \$0.732 million for 2021; resulting from the approval of the 2016 Recommended Capital Budget, to be included in the 2016 and future year operating budgets.
- 4. City Council consider the operating costs (savings) of \$0.074 million net in 2016; \$0.048 million net in 2017; \$(0.736) million net in 2018; \$(6.269) million net in 2019; \$(1.242) million net in 2020; \$(0.548) million net in 2021; \$(1.507) million net in 2022; \$(0.602) million net in 2023; \$(1.615) million net in 2024 and \$(0.764) million net in 2025 resulting from the approval of the 2016 Recommended Capital Budget for inclusion in the 2016 and future year operating budgets.
- 5. City Council approve 10 new temporary capital positions for the delivery of 2016 capital projects and that the duration for each temporary position not exceed the life and funding of its respective projects / sub-projects.
- 6. This report be considered concurrently with the Recommended 2016 Solid Waste Rates report (November 2015) from the Deputy City Manager and Chief Financial Officer and Acting General Manager for Solid Waste Management Services.

Part I:

10-Year Capital Plan

10 Year Capital Plan

Table 1a 2016 Recommended Budget, 2017-2020 Recommended Capital Plan



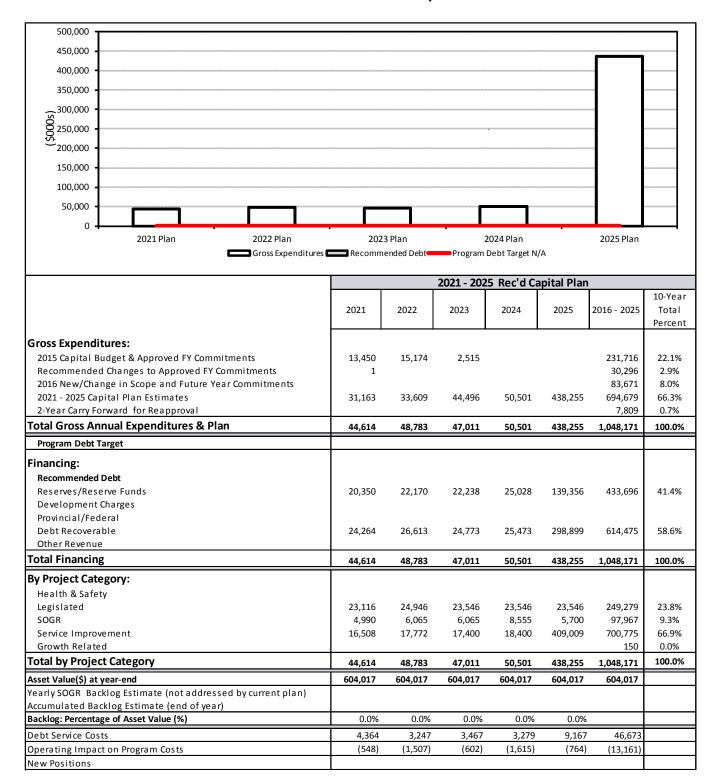


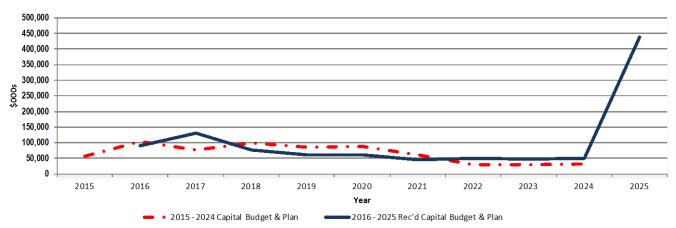
Table 1b 2021 - 2025 Recommended Capital Plan

Key Changes to the 2015 - 2024 Approved Capital Plan

The 2016 Recommended Capital Budget and the 2017 - 2025 Recommended Capital Plan reflects an increase of \$388.286 million in capital funding from the 2015 - 2024 Approved Capital Plan.

The table and chart below provide a breakdown of the \$388.286 million or 58.8% increase in the Capital Program on an annual basis from 2015 to 2025.

Chart 1
Changes to the 2015 -2024 Approved Capital Plan (In \$000s)



		2242	0047	2242	0040		0004		0000	2224	2225
(\$000s)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
2015 - 2024 Capital Budget & Plan	56,054	103,277	75,843	100, 144	85,269	86,897	61,838	30,455	29,289	30,819	
2016 - 2025 Rec'd Capital Budget & Plan		89,167	130,768	76,535	61,958	60,579	44,614	48,783	47,011	50,501	438,255
Change %		(13.7%)	72.4%	(23.6%)	(27.3%)	(30.3%)	(27.9%)	60.2%	60.5%	63.9%	
Change \$		(14, 110)	54,925	(23,609)	(23,311)	(26,318)	(17,224)	18,328	17,722	19,682	

10-Year Total 659,885 1,048,171 58.8%

As made evident in the chart above, the \$388.286 million increase in the Capital Program reflects changes made to 2017 and 2025. In 2017 there is additional funding for the Dufferin organics processing facility expansion and a preliminary estimate for the implementation of the Waste Strategy have been added in 2025.

As reflected in Table 2 on the following page, changes to the 2015 – 2024 Approved Capital Plan, specifically over the nine common years of the Capital Plans (2016 – 2024) total \$6.086 million and arise from the reprioritization of Solid Waste Management Services' capital projects based on the following factors:

- A requirement to invest in Transfer Station Asset Management in the short term to ensure facilities are maintained in a state of good repair.
- Additional cost for the Dufferin organics processing facility as well as a revised project schedule.
- On-going revision to the estimates for the Waste Strategy with the majority of funding being moved to the year 2025.

A summary of project changes for the years 2016 to 2024 totalling \$6.086 million are provided in Table 2 below:

Table 2
Summary of Project Changes (In \$000s)

\$000s	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2016 - 2024 Total
2015 - 2024 Capital Budget & Pla	56,054	103,277	75,843	100,144	85,269	86,897	61,838	30,455	29,289	30,819		603,831
2016 - 2025 Rec'd Capital Budget	& Plan	89,167	130,768	76,535	61,958	60,579	44,614	48,783	47,011	50,501	438,255	609,916
Capital Budget & Plan Changes (20	016 - 2024)	(14,110)	54,925	(23,609)	(23,311)	(26,318)	(17,224)	18,328	17,722	19,682		6,085

	Total Project Cost	2016	2017	2018	2019	2020	2021	2022	2023	2024	2016 - 2024	2025	Revised Total Project
Previously Approved													
Transfer Stn Asset Mgmt		8,060	8,016	14,152	510	200	(1,715)	2,820	2,250	3,250	37,543	4,000	
Collection Yard Asset Mgmt		(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(1,800)	200	
Diversion Facilities Asset Mgmt		602									602	1,500	
Diversion Systems		(8,028)	17,373	1,326	1,290	1,255	1,190	1,208	1,171	1,131	17,916	2,900	
Landfill Development		46	1	1	0				1	1	50	14,815	
Perpetual Care of Landfills		150									150	8,731	
Dufferin SSRM Facility	4,427	(1,450)	50	50							(1,350)		3,077
Dufferin SSO Facility	54,272	(14,074)	37,241	7,449	59						30,675		74,943
Disco SSO Facility	87,506	1,000	4,405								5,405		87,506
Biogas Utilization	12,000	(724)	475	(2,010)	3,960						1,701		11,182
Reuse Centre-Future Site	10,484	(1,000)	(3,500)								(4,500)		5,984
Landfill Gas Utilization	20,000	(1,505)	(8,800)	(8,970)	9,460	9,460					(355)		19,645
Long Term Strategy Plan Ph 1	3,798	1,104									1,104		4,902
Long Term Strategy Study Ph 2	192,000	(1,104)	(2,000)	(40,000)	(40,000)	(38,000)	(18,000)	13,000	13,000	14,000	(99,104)	404,609	497,505
SWM IT Application Initiatives	9,877	(307)	(1,071)	1,986	109	(533)					184		10,061
IT Corporate Initiatives	8,501	217	1,440	1,108							2,765		11,266
Total Previously Approved		(17,213)	53,429	(25,108)	(24,811)	(27,818)	(18,725)	16,828	16,222	18,182	(9,014)	436,755	726,072
New													
Engineering Planning Studies		1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	13,500	1,500	15,000
CNG Refuel Station													
Installations (Collection Yard													
Asset Mgmt)		1,100									1,100		1,100
Renewable Natural Gas Fleet													
Fuel From Biogas		500									500		500
Total New		3,100	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,100	1,500	16,600
Total Changes		(14,113)	54,929	(23,608)	(23,311)	(26,318)	(17,225)	18,328	17,722	19,682	6,086	438,255	742,672

Significant Capital Project Changes in Solid Waste Management Services:

Cash flow funding for the following previously approved capital projects have been adjusted based on historical spending rates, capacity and expected progress and completion of the projects, as outlined below:

- Transfer Station Asset Management: The overall project cost has increased by \$37.5 million over the period 2016 to 2024 due to increased requirements to maintain the SOGR (State of Good Repair) of transfer station facilities particularly at *Dufferin and Bermondsey*. This increase will fund repair work for various projects such as roofing, paving, drainage systems, sprinkler systems and repairs to tipping floors.
- **Diversion Systems:** The recommended increase of \$17.9 million over the period 2016 to 2024 is primarily driven by the *Replacement Residential Bins project*. A POA was approved for the contract to add additional funds in 2014. The added service has enhanced customer service and operational efficiencies. Additional funds are required due to an increase in the overall demand from residents for bin-related service requests due to campaigns to upsize recycle bins or downsize garbage bins to increase participation in diversion programs.

- Dufferin SSRM Facility: The project cost for the Dufferin SSRM (Single Stream Recyclable Materials) Facility was reduced by \$30 million over the previous two budget processes and is now being reduced further by \$1.350 million to \$3.077 million. It had been determined that the Dufferin operating contract will not be renewed with a study to determine alternate uses for the facility. Current planned spending only includes a provisional \$50 thousand per year to 2018.
- Dufferin Organics Processing Facilities: The project cost estimates for the Dufferin organics processing Facilities have increased by \$30.7 million over the period 2016 to 2019. This is due to greater than anticipated costs associated with the preliminary design phase now being completed. An RFP has been awarded to a contractor to design-build-commission and operate the expanded facility to process 55,000 tonnes of organics per year. Facility expansion and project completion are expected by 2019. The operating contract is for 3 years with a 2-year option to extend.
- Landfill Gas Utilization: A new engineering assessment has determined that the overall project cost for biogas utilization at the Green Lane Landfill should be reduced by \$14 million from \$35 million to approximately \$20 million. The main driver behind this change is a lower estimate of landfill gas volume flow creating a lower estimated power output thereby reducing the cost of associated infrastructure. The cash flows have been deferred to reflect current estimated spending requirements now ending in 2020.
- Waste Strategy Study Phase 2: This project for the second phase of the Waste Strategy is being increased by \$306 million. Estimated cash flows per year for future diversion and waste management programs and facilities have been deferred and extended from the period 2016 to 2021 to now encompass the period 2016 to 2025. A final estimate of \$404.6 million is planned for 2025. Planned funding is 30% reserve funds, 70% recoverable debt and is accommodated as shown in the reserve fund appendix of these Budget Notes. SWMS is planning to report on the Waste Strategy in June 2016. Cost estimates will be revised following Council approval of the Waste Strategy.

Recommended new projects totalling \$16.6 million have been added to the 2016 – 2025 Approved Capital Plan, including:

- Renewable Natural Gas Fleet Fuel From Biogas: Recognizing that the SWMS has available approximately 7.15M m3/yr. of biogas, where the current practice is flaring where this gas is burned-off, this project will look at developing infrastructure to clean and convert the biogas to RNG (Renewable Natural Gas) that will significantly reduce the Division's reliance on external energy sources, lower its energy consumption, increase energy efficiency and reduce greenhouse gases. The biogas will be used to displace the electrical loads at Disco and Dufferin sites, including neighbouring City owned properties. The project is undertaken to generate revenue, cost savings and environmental benefits. The project cost for 2016 is \$0.5 million.
- CNG Refuel Station Installations: As part of the project for Collection Yard Asset Management, the sub-project for CNG (Compressed Natural Gas) Refuel Station Installations will retrofit and upgrade at Garage Facilities with a project cost of \$1.1 million. Two CNG refuel stations will be installed at the Ellesmere (1050 Ellesmere Rd) and Bermondsey (25 Old Eglinton Ave) yards.

- Engineering Planning Studies: This project enables the Program to undertake planning, engineering and feasibility studies as required to support the initiation of new SWMS projects.
 Identification and evaluation of solutions, assessment of cost/benefits, planning of work programs, budget cash flow and resource needs for new projects.
 - The project will also enhance project planning to improve project delivery, in accordance with the City's Strategic Direction of Good Governance and SWMS Strategic Direction of Operational Excellence and Sustainable Utility. The additional project cost is \$15 million over the 10-year Capital Plan allocated at \$1.5 million per year.

2016 - 2025 Recommended Capital Plan

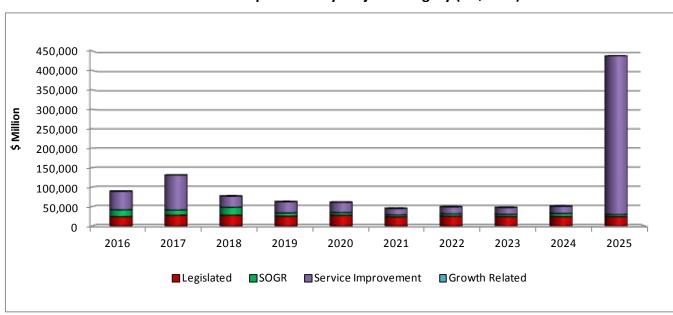


Chart 2
2016 – 2025 Capital Plan by Project Category (In \$000s)

As illustrated in the chart above, the 10-Year Recommended Capital Plan for SWMS of \$1.048 billion allocates 66.9% of funding for priority Service Improvement projects and 23.8% to Legislative projects. The balance of funding is allocated to State of Good Repair (SOGR) projects (9.3%) and one Growth Related project over the 10-year period.

- Service Improvement projects account for \$700.777 million and comprise all bin purchases, major organics processing facilities, gas utilization projects, IT projects and waste diversion programs and facilities resulting from an approved Waste Strategy.
- Legislated projects account for \$249.277 million and include on-going landfill projects at the Green Lane landfill and the perpetual care of closed landfill sites.
- Cash flow funding of \$97.967 million is dedicated to State of Good Repair projects for Transfer Stations, Collection Yards and Diversion Facilities and is relatively constant over the 10-year plan with more emphasis on the short term to complete required repairs.

 The Growth Related project is budgeted in 2016 as a provisional estimate of \$0.150 million to complete outstanding items for the Pan Am Aquatic Centre site remediation project

The following table provides details by project category within the 2016 – 2025 Recommended Capital Budget and Plan for SWMS:

Table 3
Summary of Capital Projects by Category (In \$000s)

	Total App'd Cash Flows to Date *	2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total	Rec'd Total Project Cost
Total Expenditures by Category													
Legislated													
Perpetual Care of Landfills	*	9,249	9,942	8,425	8,144	8,064	8,165	8,272	8,731	8,731	8,731	86,454	
Landfill Development	*	14,198	17,617	19,073	16,584	19,282	14,950	16,674	14,815	14,815	14,815	162,823	
Sub-Total		23,447	27,559	27,498	24,728	27,346	23,115	24,946	23,546	23,546	23,546	249,277	
State of Good Repair													
Transfer Stn Asset Mgmt	*	16,167	11,966	18,547	6,855	5,205	3,290	4,365	4,365	6,855	4,000	81,615	
Collection Yard Asset Mgmt	*	200	200	200	200	200	200	200	200	200	200	2,000	
Diversion Facilities Asset Mgmt	*	1,352	1,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	14,352	
Sub-Total		17,719	13,166	20,247	8,555	6,905	4,990	6,065	6,065	8,555	5,700	97,967	
Service Improvements													
Diversion Systems	*	14,200	19,670	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900	57,070	
Green Lane: Landfill Gas Utilization	20,000	(155)	200	30	9,460	9,460						18,995	19,645
Biogas Utilization	12,000	3,276	2,775	490	3,960							10,501	11,182
Renewable Natural Gas Fleet Fuel	n/a	500	-									500	500
CNG Refuel Station Installations	n/a	1,100										1,100	1,100
Dufferin SSRM Facility	4,427	50	50	50								150	3,077
Dufferin SSO Facility	54,272	18,000	47,506	7,604	214							73,324	74,943
Disco SSO Facility	87,506	1,000	4,405									5,405	87,506
Engineering Planning Studies	n/a	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000	15,000
SWM IT Application Initiatives	9,877	2,449	1,934	3,227	434	120	108	372				8,644	10,061
IT Corporate Initiatives	8,501	3,037	4,007	2,990	207	348						10,589	11,266
Long Term Waste Mgmt Strategy	3,798	2,891	8,000	10,000	10,000	12,000	12,000	13,000	13,000	14,000	404,609	499,499	502,407
Sub-Total	200,382	47,850	90,045	28,790	28,675	26,328	16,508	17,772	17,400	18,400	409,009	700,777	736,688
Growth Related													
PAAC Site Remediation	*	150										150	
Sub-Total		150	-									150	
Total Expenditures by Category													
(excluding carry forward)	200,382	89,167	130,769	76,535	61,958	60,579	44,613	48,783	47,011	50,501	438,255	1,048,171	736,688

^{*} Life to Date approved cash flows are provided for multi-year capital projects with cash flow approvals prior to 2016 and exclude ongoing capital projects (e.g. Perpetual Care or Transfer Station Asset Mgmt)

2016 - 2025 Recommended Capital Projects

The 10-Year Capital Plan for SWMS is primarily comprised of Service Improvement projects for facilities; SOGR and Legislated projects for facility and landfill development and on-going asset management. Dufferin organics facility expansion / renovation and implementation of the Waste Strategy have been included in the 10-Year Capital Plan to progress toward achieving the waste diversion target of 70%.

Service Improvements

- Service Improvement projects account for \$700.777 million or 66.9% of the total 10-Year Recommended Capital Plan.
 - ➤ Diversion Systems (\$57.070 million) Funding is provided for implementing and replacing garbage, recycling, and organics containers for single family residential and multi-residential buildings as well as recycling upgrades for multi-residential buildings.

- ➤ Dufferin Organics Facility (\$73.324 million) Construction of this facility that began in 2012 and will increase organics processing capacity from 25,000 to approximately 55,000 tonnes per year to expand the receiving area and to install a system to treat wastewater before discharge to the sanitary sewer.
- ➤ Landfill Gas Utilization and Biogas Utilization (\$29.496 million) —The Landfill Gas project with cash flows that total \$19 million over the 10-Year plan is located at Green Lane; the Biogas project (\$10.5 million) will address requirements at the Dufferin/Disco organics processing facilities. The project funding will provide infrastructure whereby gas produced by decomposition of waste will be converted to heat and electricity.
- ➤ Waste Strategy: Phases 1 & 2 (\$499.5 million) This project has a total project cost of approximately \$0.5 billion with most cash flow funding planned in the last year of the 10-Year Capital Plan period. Funding is for professional technical services to assist with the study, securing any Provincially mandated environmental approvals and permits, Request for Proposal (RFP) and construction service efforts required for a vendor procurement process.
- > SWM IT Application Initiatives (\$8.643 million) Funding is provided in order to implement various technology solutions in SWMS, including transfer station efficiencies, asset management, RFID/GPS systems, revenue forecasting, eService delivery performance measurement, contract management and business process improvements.
- ➤ IT Corporate Initiatives (\$10.589 million) This project is primarily comprised of the Work Management System which is the multi-year project to procure and implement a common new Work Management System that will be utilized by Toronto Water, Transportation Services, Parks Forestry & Recreation and SWMS.

Legislated

- Legislated projects include cash flow funding of \$249.279 or 23.8% of the total 10-Year Recommended Capital Plan funding.
 - ➢ Green Land Landfill Cell Development, Systems & Acquisition (\$162.823 million) The 10-Year Recommended Capital Plan provides annual funding for cell development at the Green Lane Landfill site including new waste cell excavation and construction, landfill systems and buffer land acquisition. Landfill Systems projects include leachate and gas control systems as well as final cover/storm control/site cervices and engineering and monitoring capability.
 - ➤ Perpetual Care (\$86.454 million) Capital works necessary for the ongoing maintenance of closed environmentally sound landfill sites after primary operations have ended. Cash flow funding estimates allow for an average of \$8.7 million annually for ongoing control system requirements.

State of Good Repair (SOGR)

SOGR projects account for \$97.967 million or 9.3% of the total 10-Year Recommended Capital Plan.

> Transfer Station, Collection Yard & Diversion Facility Asset Management (\$97.967 million) — Projects that provide funding to build various improvements to these facilities that are required to meet health and safety, operational and environmental requirements.

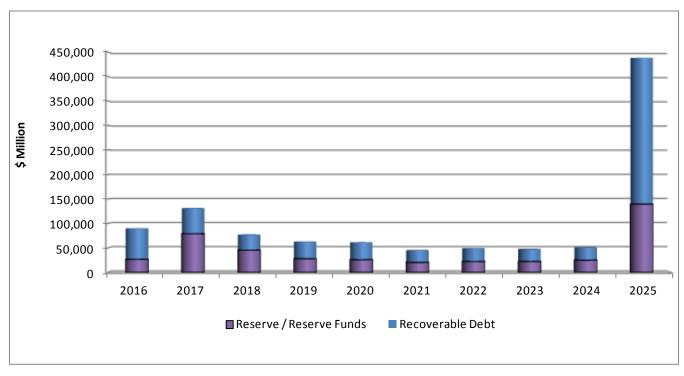


Chart 3
2016 – 2025 Capital Plan by Funding Source (In \$000s)

Most projects with the 10-Year Recommended Capital Plan are funded using a mix of recoverable debt and reserve funding except for the Transfer Station & Diversion Facility Asset Management and Perpetual Care projects which are 100% financed by reserve funds. 10-Year total cash flow funding of \$1.048 billion will be financed by the following sources:

- Recoverable Debt accounts for \$614.475 million or 58.6% of the financing over the 10-year period.
 - ➤ With the anticipated completion of all major diversion facilities by 2021, required funding is relatively lower until 2024. In 2025, funding reflects preliminary estimates for future requirements which will be dependent on the outcome of the Waste Strategy.
 - ➤ City debt guidelines are not issued for SWMS, as debt is recoverable from user fees with repayment of the debt servicing costs funded in SWMS annual Operating Budget.
- Reserve Funds constitute \$433.696 million or 41.4% of required funding over 10 years.
 - ➤ Compared to previous Capital Plans, reserve funding has gradually increased as the intention is to fund a greater percentage of projects with this funding source as SWMS moves closer to a self sustaining utility model. Reliance on recoverable debt will reduce as the Program continues to fund more projects from the Waste Management Reserve Fund. This reserve fund is dependent on on-going operating contributions.

➤ Following completion and Council approval of the Waste Strategy, rate modeling will determine the future required SWMS rate increases that will be necessary to continue the transition towards a fully sustainable utility, reducing the application of recoverable debt where appropriate.

State of Good Repair (SOGR) Backlog

- Solid Waste Management Services has not currently identified a backlog of State of Good Repair projects. At this time, the funding allocated in the 10-Year Capital Plan for SWMS for State of Good Repair projects is deemed appropriate to maintain the assets in a steady state of good repair.
- It was recommended in 2014 that a thorough review of the state of good repair of capital assets be initiated. This process is still ongoing and will now be addressed as part of the 2017 Capital Budget process.
- Consultants have been hired and are currently developing an Asset Management Framework together with an implementation plan to address business gaps. The implementation plan will be executed in 2016-2017 and will generate asset management plans for different asset classes. The asset management plans will provide projected capital and maintenance spending budgets for SOGR based on asset conditions while ensuring specific levels of service.

10-Year Capital Plan: Net Operating Budget Impact

Table 5
Net Operating Impact Summary (In \$000s)

	2016 Rec	'd Budget	2017	7 Plan	2018	8 Plan	2019	Plan	2020) Plan	2016	- 2020	2016 -	- 2025
Projects	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions
Previously Approved														
Green Lane - Landfill Gas Utilization							(5,436)		(109)		(5,545)		(6,123)	
Biogas Utilization - Dufferin and Disco SSO			(218)		(1,163)		(1,300)		(1,300)		(3,981)		(8,489)	
Disco SSO Processing Facilities	(43)		(44)		(44)						(131)		(131)	
IT Short Term App Improvements - 2014	117										117		117	
IT Stakeholder-Cust Relation Mgmt-2014							74				74		74	
IT Transfer Station Efficiencies-2014			224		90						314		314	
IT Electronic Doc & Records Mgmt -2015					52						52		52	
IT Work Mgmt System Implementation			86		86		180				352		352	
New Projects - 2016											-			
IT Mobile Assessment & Solution - Change					34						34		34	
IT KPI Reporting and Measuring - Change					209						209		209	
New Projects - Future Years											-			
IT Contract Management -2015							46				46		46	
IT Asset Management Solution (AMS)							117				117		117	
IT Business Systems Integration									117		117		117	
IT SWMS eService Delivery											-		50	
IT Time & Attendance Management Solution							50				50		50	
IT Learning Management Solution (LMS)									50		50		50	
Total Recommended (Net)	74		48		(736)		(6,269)		(1,242)		(8,125)		(13,161)	

The 10-Year Recommended Capital Plan will decrease future year Operating Budgets by a total of \$13.161 million net over the 2016 – 2025 period, as shown in the table above.

This is mainly comprised of operating impacts from the following major projects once completed:

Green Lane Landfill Gas Utilization – The City's Green Lane Landfill generates combustible landfill
gas and has a system to collect and flare this gas in accordance with the requirements of the permit

issued under the Environmental Protection Act. The landfill gas can be utilized as a source of renewable energy to provide an economic benefit to the City.

- ➤ The sale of the upgraded gas will achieve a favourable return on the initial capital investment of \$20 million and will generate a revenue stream over a 20 to 30 year period that will help offset the cost of developing and operating the landfill. By 2025, the estimated incremental operating cost of \$1.4 million will be offset by estimated revenue of \$7.5 million resulting in net operating revenue of \$6.1 million.
- Biogas Utilization The City's organics processing facilities at the Dufferin Facility and Disco Road transfer station generate combustible biogas through anaerobic digestion. The biogas can be similarly utilized as a source of renewable energy (electricity or renewable natural gas) to provide an economic benefit to the City.
 - ➤ The sale of the renewable energy product will achieve a favourable return on the initial capital investment of \$13.8 million and will generate a revenue stream over a 20 year period. By 2025, the estimated incremental net operating revenue is \$7 million.

These future operating impacts will be reviewed each year as part of the annual Operating Budget process.

Project Delivery Salary and Benefits \$ Amount(\$000s) **CAPTOR Project** # of 2021 -**Position Title** Number Start Date **End Date** 2016 2017 2018 2019 2020 2025 **Positions** SOL000065-72 (9.5) 01/01/2009 12/31/2015 (478.0)Chief Booth Attendant SOL000065-110 4.0 01/01/2016 12/31/2017 (243.6)Chief Booth Attendant 243.6 Systems Integrator SOL907919-23 2.0 06/09/2014 03/01/2017 167.7 (167.7)Project Lead SOL907919-27 1.0 09/08/2017 04/12/2019 37.0 37.0 (74.1)Sr. Systems Integrator SOL907956-6 1.0 05/01/2017 12/31/2018 92.9 23.2 (116.1)05/01/2013 12/31/2018 Project Lead SOL907956-8 2.0 208.5 (208.5)

141.8

(281.4)

60.3

(398.7)

Table 6
Capital Project Delivery: Temporary Positions

Approval of the 2016 – 2025 Recommended Capital Budget and Plan will result in a requirement for 10 new temporary capital project delivery positions to implement the following projects:

0.5

- SSO Multi-Residential Container Implementation Implementation of organics collection in apartments commenced in 2009. The program was to be rolled out over a period of years. The plan included a requirement for 9.5 temporary capital positions to deliver the capital project for organic Multi-Residential Container Implementation. Temporary Chief Booth Attendants were required for bin distribution activities. Originally, after implementation, there is to be a corresponding operating cost reduction of \$0.478 million in 2016. However, four temporary staff are now projected to be required until 2017.
- SWMS and Corporate IT Initiatives Various technology projects such as the SWMS Information Model, Stakeholder-Customer Relationship Management, Time and Attendance Management and the Work Management System will require 10 temporary staff including System Integrators and Project Leads from 2016 through 2018.

Total

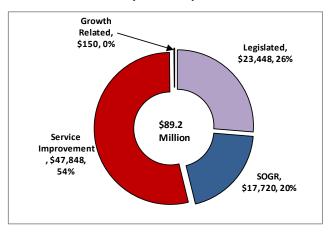
■ It is recommended that Council approve these 10 temporary capital positions for the delivery of the above capital projects / sub-projects and that the duration for each temporary position not exceed the life of the funding of its respective capital projects / sub-projects.

Part II: 2016 Capital Budget

2016 Recommended Capital Budget

2016 Capital Budget by Project Category and Funding Source

2016 Capital Budget by Project Category (in \$000s)

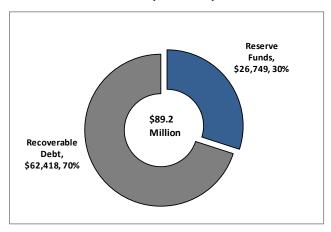


The 2016 Recommended Capital Budget, excluding funding carried forward from 2015 to 2016, requires cash flow funding of \$89.167 million.

The 2016 Capital Budget expenditures are allocated to the following project categories:

- Legislated (\$23.448 million, 26.3%)
 - Funding is allocated for Green Lane Landfill Development and Perpetual Care of closed landfills
- SOGR (\$17.720 million, 19.9%)
 - Funding for required asset management activity for transfer stations, collection yards and diversion facilities.
- Service Improvement (\$47.848 million, 53.7%)
 - Funding is mainly required for the Dufferin organics facility, replacement of singlefamily Green Bin organics containers, continuation of gas utilization projects, Waste Strategy Study, Engineering Planning Studies and various IT related projects.
- Growth (\$0.150 million, 0.2%)
 - Provision for Pan Am Aquatic Centre site remediation requirements.

2016 Capital Budget by Funding Source (in \$000s)



The 2016 Recommended Capital Budget is financed primarily by:

- Recoverable Debt (\$62.418 million, 70%)
 - Debt is recoverable from the Operating budget through payment of debt charges funded by revenue generated from user fees charged for garbage bins for single and multiresidential customers.
- Reserve/Reserve Funds (\$26.749 million, 30%)
 - Reserve funding drawn primarily from the Waste Management Reserve Fund has been maximized in 2016 and each year of the Plan in order to provide non-debt funding while maintaining a sustainable reserve fund balance for potential operations stabilization as well as future capital requirements. Other reserve funds utilized include the Perpetual Care reserve fund and the Green Lane Landfill reserve fund.

2014 and Total 2016 Total 2016 Rec'd Cash **Prior Year** Cash Flow Carry 2015 Carry 2016 Rec'd (Incl Flow & FY Cash Flow C/Fwd) 2017 2018 2019 2020 2021 2022 2023 2024 2025 Commits Forwards Forwards Expenditures Previously Approved 7.809 7.345 117.584 132.738 47.863 32.232 15,411 17.782 13.451 15.174 2.515 277.166 Change in Scope (44,603)(44,603)62,287 10,537 21,451 9,460 59.132 6,041 6,041 New 6.041 New w/Future Year 2.336 2,336 10,116 6,046 18,498 Total Expenditure 7,809 81,358 96,512 120,266 48,815 36,862 13,451 15,174 2,515 360,837 7.345 27,242 Financing Debt Debt Recoverable 4,472 5,142 57,946 67,560 44,852 17,319 22,324 21,737 11,433 12,898 2,138 200,261 Other Reserves/Res Funds 3,336 2,203 23,413 28,952 75,414 31,496 14,538 5,505 2,018 2,276 377 160.576 **Development Charges** Provincial/Federal **Total Financing (including** 81,358 96,512 120,266 48,815 36,862 carry forward funding) 7,809 7,345 360,837

Table 7
2016 Recommended Cash Flow & Future Year Commitments (In \$000s)

Approval of the 2016 Recommended Capital Budget of \$96.512 million will result in the following:

- \$7.345 million in 2015 cash flow funding that will be carried forward into 2016 to continue the following projects:
 - Next Generation Green Bin Organics Replacement;
 - > Landfill Gas Utilization; and
 - Waste Strategy Study.
- \$125.393 million for previously approved capital projects and 2014 and prior year carry forwards will fund requirements for Next Generation Green Bin Organics Replacement, Green Lane Landfill development, Dufferin & Disco Organics processing facilities, Biogas Utilization, on-going IT projects and Transfer Station Asset Management.
- The 2016 Recommended Capital Budget provides funding of \$144.428 million for previously approved projects that are already underway with future year commitments primarily for:
 - Green Lane Landfill Development;
 - Dufferin organics processing facility;
 - Biogas Utilization project;
 - > IT project for the Work Management System Implementation; and
 - Transfer Station Asset Management at Dufferin.
- The change in scope funding decrease of \$59.132 million has been included in the 2016 capital Budget in order to reduce, augment or reschedule cash flows for various projects including Perpetual Care, Gas Utilization projects, Dufferin & Disco Organics processing facilities and Green Bin Organics Replacement.
- Recommended new and multi-year funding of \$18.498 million will require future year commitments for the Transfer Station Asset Management project in 2017/18, the Waste Strategy Study in 2016/17 and 2016 fleet projects using compressed natural gas.

2015 Recommended Capital Project Highlights

Table 8
2016 Recommended Capital Project Commitment Highlights by Category (in \$000s)

Project	Total Project Cost	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Legislated:													
Perpetual Care of Landfills		9,249	9,942	8,425	8,144		35,760						35,760
Landfill Development		14,198	16,117	17,573	15,084	17,782	80,754	13,450	15,174	2,515			111,893
Sub-Total		23,447	26,059	25,998	23,228	17,782	116,514	13,450	15,174	2,515			147,653
State of Good Repair:													
Transfer Stn Asset Mgmt		16,167	11,964	11,965			40,096						40,096
Collection Yard Asset Mgmt		200					200						200
Diversion Facilities Asset Mgmt		1,352	500				1,852						1,852
Sub-Total		17,719	12,464	11,965			42,148						42,148
Service Improvements:													
Diversion Systems		14,200	19,570				33,770						33,770
Green Lane: Landfill Gas Utilization	19,645	(155)	200	30	9,460	9,460	18,995						18,995
Biogas Utilization	11,182	3,276	2,775	490	3,960		10,501						10,501
Renewable Natural Gas Fleet Fuel From Biogas	500	500					500						500
CNG Refuel Station Installations	1,100	1,100					1,100						1,100
Dufferin SSRM Facility	3,077	50					50						50
Dufferin SSO Facility	74,943	18,000	47,506	7,604	214		73,324						73,324
Disco SSO Facility	87,506	1,000	4,405				5,405						5,405
Engineering Planning Studies	15,000	1,500					1,500						1,500
SWM IT Application Initiatives	10,061	2,449	456				2,905						2,905
IT Corporate Initiatives	11,266	3,037	3,835	2,729			9,601						9,601
Long Term Waste Mgmt Strategy	502,407	2,891	3,000				5,891						5,891
Sub-Total		47,850	81,744	10,853	13,634	9,460	163,541						163,541
Growth Related:													
PAAC Site Remediation		150					150						150
Sub-Total		150					150						150
Total (excluding carry forward funding)		89,167	120,266	48,816	36,862	27,242	322,353	13,450	15,174	2,515			353,492

The 2016 Recommended Capital Budget provides funding (excluding carry forwards) of \$89.167 million to:

- Continue developing the Green Lane Landfill including building waste cells and gas and leachate environmental control systems (\$14.2 million) and providing perpetual care of closed landfills including monitoring and control systems (\$9.3 million);
- Continue improving Diversion Systems such as acquiring the latest multi-unit residential organics containers and recycling upgrades, replacement of single family organics, garbage and recycling containers (\$14.2 million);
- Continue Transfer Station, Diversion Facility and Collection Yard Asset Management to keep these facilities in a state of good repair (\$17.7 million);
- Move forward with building Organics processing capacity at the Dufferin Organics Facility with contract awarded (\$18 million);
- Continue projects for SWM IT Application Initiatives and IT Corporate Initiatives to improve business systems to enhance the Program's ability to manage resources to deliver projects and services to the public (\$5.5 million); and,
- Continue working on revenue generating projects for Landfill Gas, Biogas Utilization and CNG fleet projects (\$4.7 million); and
- Continue with the Waste Strategy (\$2.9 million).

Part III:

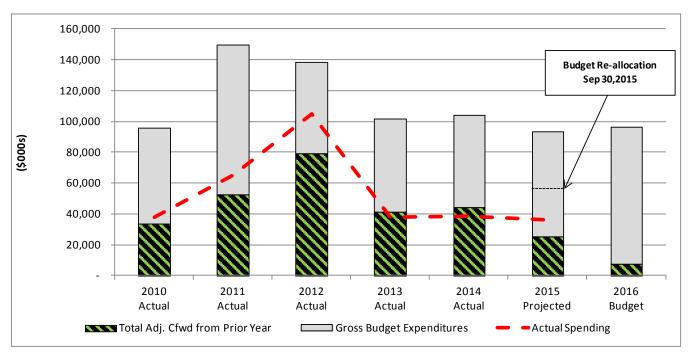
Issues for Discussion

Issues for Discussion

Issues Impacting the 2016 Capital Budget

Program Spending Capacity and Readiness to Proceed with Capital Projects

• The chart below shows the spending trend of the total capital program for SWMS since 2010. The budget bars are split between new cash flows and funding carried forward from prior years.



- While the 2013 cash flow was adjusted downward based on capacity to spend and readiness to proceed; actuals to year-end for both 2013 and 2014 resulted in under-spending of 62.7% and 63.3% respectively. The average annual under-spending over the past 11 years including 2015 is projected to be 43.8%.
- In an effort to address the level of underspending in preparation of the 2016 Capital Budget, the following actions have been taken:
 - ✓ In September 2015, SWMS requested and Council approved a deferral of cash flow funding of \$35.251 million from 2015 to 2016 as well as a project cost reduction of \$2.047 million. The reduced total budget level is indicated by the dotted line on the chart above.
 - ✓ The 2016 Recommended Capital Budget also includes a recommended \$44.603 million cash flow reduction arising from scope changes to reflect adjustments in a combination of project costs and cash flow funding deferrals based on a review of each capital project's readiness to proceed in 2016 and the capacity to spend in each capital program area.
 - ✓ The 2016 Recommended Capital Budget and Plan recommends \$128.274 million in future year cash flows commitments that will allow the Program to initiate multi-year capital work that will ultimately result in greater spending and delivery rates in future years.

SWMS in consultation with the Financial Planning Division, will continue to monitor spending in 2016, report capital spending quarterly through the City's variance reports and report on any future adjustments as required, as part of the 2017 Budget process.

Issues Impacting the 10-Year Capital Plan

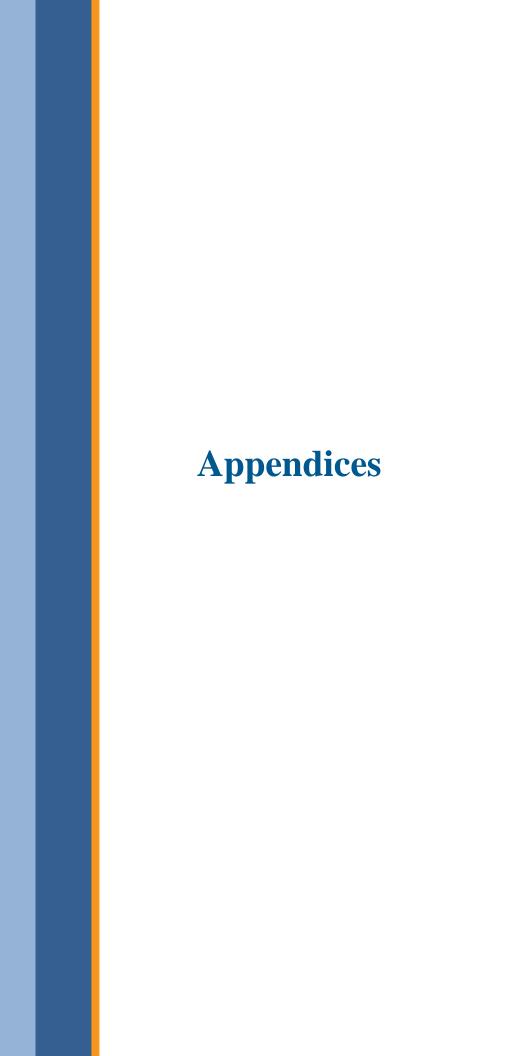
Achieving the 70% Division Target & the Long Term Waste Management Strategy

- The Solid Waste Management Services' capital program is driven primarily by the City's objective to achieve the 70% diversion target and it is therefore on that basis that the 2016 Capital Budget and 2017-2025 Capital Plan has been established.
- The 10-Year Capital Plan will continue to fund on-going activities and major expansion of diversion activities during this timeframe, by:
 - Expanding the Green Bin organics program to include apartments & condominiums and future replacement of organics in-unit containers.
 - > Replacing existing organics, garbage & recycling bins for single family residential.
 - Implementing next generation single family residential organics bins that will facilitate automated pick-up/collection.
 - Investing in on-going asset management and state of good repair for transfer stations, collection yards and diversion facilities and perpetual care of closed landfills;
 - Building additional organics processing that will provide long term stability for the Green Bin organics programs.
 - > Building landfill gas and biogas utilization facilities in order to provide a viable source of renewable energy and offset operating costs.
 - > Developing Green Lane Landfill to its maximum efficiency to properly dispose of residual waste.
 - > Implementing Waste Strategy diversion and waste management programs that will manage diversion capacity to contribute to attaining the 70% diversion target.
- Costs move moderately downward in the period 2017 to 2024 then peak in 2025 when \$405 million in funding is required for diversion and waste management programs and facilities yet to be determined. Third party funding is uncertain at this time. As with all capital projects, maximization of reserve funding will be an ongoing planning objective.
- Staff had been exploring if outcomes of the Waste Strategy could qualify for P3 Canada Fund financing. Until a decision is made on what constitutes the Waste Strategy for waste management and whether to proceed with construction of any facilities through a partnership with a 3rd party provider or 100% (solely) through City funding or 100% through a 3rd party provider, the current funding estimates will exclude a potential 25% federal subsidy.

 The Capital Program for SWMS will be adjusted (as required) through future budget processes to reflect the Waste Strategy implementation once completed and approved by Council. The report is scheduled to go to Committee in May/June and Council by July 2016.

Long-Term Capital Program Reserve Funding

- The 2016-2025 Capital Plan for SWMS is 58.6% funded through recoverable debt. The City advances debt funding annually required for Solid Waste Managements' capital work and the Program repays the annual debt servicing costs (interest and principal) in the Program's Operating Budget funded by the volume based user fees collected.
- SWMS also utilizes the Waste Management Reserve Fund, which is maintained annually through contributions from SWMS' Operating Budget. The reserve fund then provides annual funding for the Program's capital requirements that are not funded through recoverable debt, this reserve fund also acts as a rate stabilization reserve. The projected 2015 year-end balance of the reserve fund is \$94.352 million.
- An analysis of SWMS capital needs was undertaken to determine reserve contribution requirements to fund the SWMS 10-Year Capital plan. The analysis determined that an annual rate increase of 3% will be required to ensure an adequate annual contribution to the reserve fund from the SWMS Operating Budget, ensuring the reserve funds has a positive balance from 2016 to 2024, with the balance in 2025 being subject to the Waste Strategy and timing of implementation.
- The 10-Year Capital Plan and associated rate modelling will be adjusted as part of the 2017 Budget process, making the necessary changes to future rate estimates to reflect the approval of the Waste Strategy in 2016; any resulting adjustments to annual diversion and tonnage estimates; as well as the impact of funding scenarios/options that will continue to decrease the application of recoverable debt, where appropriate.



Appendix 1

2015 Performance

2015 Key Accomplishments

In 2015, Solid Waste Management Services capital works supported moving towards 70% overall waste diversion by accomplishing the following:

- ✓ Waste Strategy progress which included:
 - Completed Phase 2 Public Consultation
 - City Council Approval of Vision and Guiding Principles, Evaluation Criteria and Waste Strategy Options
 - Hosting of 4 Wast(ED) Speakers Series: Topics included Community, Clothing, Food and National Zero Waste Satellite Event: Visions for a Circular Economy
 - Continued Stakeholder Advisory Group Meetings
- ✓ Contract Awards issued for:
 - Dufferin organics facility expansion Design, Build, Operate, and Maintain
 - Next Generation Green Bin
 - Asset Management Framework
- ✓ The 2015 residential diversion rates expected to be achieved by year end are:
 - Overall residential diversion increase from 53% to 55%
 - Single-family residential increase from 66% to 68%
 - Multi-residential increase from 26% to 29%.
- ✓ Continued Waste Diversion Efforts
 - Roll-out of Front end organics containers to all City-serviced multi-residential buildings Toronto Community Housing Corporation Diversion
 - Addition of Plastic Film to Blue Bin recycling program
- ✓ Increased collection services to address continued expansion of public space litter / recycle bins along streetscapes and in parks
- ✓ Disco Road Biogas Utilization
 - Preliminary Design Completed
 - Renewable Energy Approval continues to be reviewed by the MOECC

2015 Financial Performance

Table 9
2015 Budget Variance Analysis (In \$000's)

2015 Approved	As of Sept	. 30, 2015	Projected Actu	als at Year End	Unspent	Balance
\$	\$	% Spent	\$	% Spent	\$ Unspent	% Unspent
56,054	10,449	18.6%	35,727	63.7%	20,327	36.3%

^{*} Based on 2015 Third Quarter Capital Variance Report

2015 Experience

For details of variance explanations and year-end projections for Solid Waste Management Services, please refer to the 2015 Capital Variance Report for the nine months ended September 30, 2015 which has been submitted for the Budget Committee meeting of November 13, 2015.

Impact of the 2015 Capital Variance on the 2016 Recommended Budget

- As a result of the delays in the capital projects, as described in the 2015 Q3 Capital Variance Report, funding of \$15.154 million (including 2-year carry forwards) is being carried forward to the 2016 Recommended Capital Budget to continue the capital work. This amount will be subject to revision in the first guarter of 2016.
- A detailed review of the 2016 2025 Recommended Capital Budget and Plan has been conducted and the necessary adjustments has been made to the timing of cash flow funding for unique and major capital projects such as the Dufferin and Disco organics facilities, the implementation of the Next Generation Green Bin and Transfer Station Asset Management which are the major contributors to annual under expenditures. By deferring the cash flow funding to future years, the 2016 Recommended Capital Budget reflects readiness to proceed and will lead to a higher rate of spending.

Appendix 2

Table 10
2016 Rec'd Capital Budget; 2017 to 2025 Rec'd Capital Plan (\$000s)

Project	Total Project Cost	Prior Year Carry Forward	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Legislated:														
Perpetual Care of Landfills			9,249	9,942	8,425	8,144	8,064	43,824	8,165	8,272	8,731	8,731	8,731	86,454
Landfill Development			14,198	17,617	19,073	16,584	19,282	86,754	14,950	16,674	14,815	14,815	14,815	162,823
Sub-Total			23,447	27,559	27,498	24,728	27,346	130,578	23,115	24,946	23,546	23,546	23,546	249,277
State of Good Repair:														
Transfer Stn Asset Mgmt			16,167	11,966	18,547	6,855	5,205	58,740	3,290	4,365	4,365	6,855	4,000	81,615
Collection Yard Asset Mgmt			200	200	200	200	200	1,000	200	200	200	200	200	2,000
Diversion Facilities Asset Mgmt			1,352	1,000	1,500	1,500	1,500	6,852	1,500	1,500	1,500	1,500	1,500	14,352
Sub-Total			17,719	13,166	20,247	8,555	6,905	66,592	4,990	6,065	6,065	8,555	5,700	97,967
Service Improvements:														
Diversion Systems		4,015	14,200	19,670	2,900	2,900	2,900	46,585	2,900	2,900	2,900	2,900	2,900	61,085
Green Lane: Landfill Gas Utilizatior	19,645	356	(155)	200	30	9,460	9,460	19,351						19,351
Biogas Utilization	11,182		3,276	2,775	490	3,960		10,501						10,501
Renewable Natural Gas Fleet Fuel .	500		500					500						500
CNG Refuel Station Installations	1,100		1,100					1,100						1,100
Dufferin SSRM Facility	3,077		50	50	50			150						150
Dufferin SSO Facility	74,943		18,000	47,506	7,604	214		73,324						73,324
Disco SSO Facility	87,506		1,000	4,405				5,405						5,405
Engineering Planning Studies	15,000		1,500	1,500	1,500	1,500	1,500	7,500	1,500	1,500	1,500	1,500	1,500	15,000
SWM IT Application Initiatives	10,061	135	2,449	1,934	3,227	434	120	8,299	108	372				8,779
IT Corporate Initiatives	11,266	104	3,037	4,007	2,990	207	348	10,693						10,693
Two-Way Radio Replacement	2,235	2,235						2,235						2,235
Long Term Waste Mgmt Strategy	502,407	500	2,891	8,000	10,000	10,000	12,000	43,390	12,000	13,000	13,000	14,000	404,609	499,999
Sub-Total		7,345	47,850	90,045	28,790	28,675	26,328	229,033	16,508	17,772	17,400	18,400	409,009	708,122
Growth Related:														
PAAC Site Remediation			150					150						150
Sub-Total			150					150						150
Total		7,345	89,167	130,769	76,535	61,958	60,579	426,353	44,613	48,783	47,011	50,501	438,255	1,055,516

Appendix 3

2016 Rec'd Capital Budget; 2017 to 2025 Rec'd Capital Plan

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

					Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cui	rrent and F	uture Year	Cash Flov	w Commi	tments F	inanced	Ву		
	roject No. Project Name ubProj No. Sub-project Name	Ward Stat	t. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve	Capital from Current	Other 1	Other2	Rec	Debt - coverable	Total Financing
SOL00006	5 <u>Diversion Systems</u>																					
0 72	SSO In-Unit Kitchen Containers	CW S2	04	336	0	0	0	0	336	0	336	C) C	0	0	101	0	0	0	0	235	336
0 102	Replacement Waste Bins Single-Family	CW S2	04	2,000	2,000	0	0	0	4,000	0	4,000	C) (0	0	1,200	0	0	0	0	2,800	4,000
0 105	TCHC Organic Implementation Program	CW S2	04	500	0	0	0	0	500	0	500	C) C	0	0	150	0	0	0	0	350	500
0 107	2nd Generation Green Bin Replacement	CW S2	04	26,000	0	0	0	0	26,000	0	26,000	C) C	0	0	7,800	0	0	0	0	18,200	26,000
0 108	Recycling Upgrades for Multi-Units	CW S2	04	200	0	0	0	0	200	0	200	C) C	0	0	60	0	0	0	0	140	200
0 109	SSO Containers Single-Family (1st Gen)	CW S2	04	785	0	0	0	0	785	0	785	C) C	0	0	236	0	0	0	0	550	785
0 110	2nd Generation Green Bin Implementation	CW S5	04	690	570	0	0	0	1,260	0	1,260	C) C	0	0	378	0	0	0	0	882	1,260
0 111	Online Sale of Garbage Bag Tags	CW S4	04	100	0	0	0	0	100	0	100	C) C	0	0	30	0	0	0	0	70	100
0 112	SSO In-Unit Kitchen Containers - Change	CW S3	04	-236	0	0	0	0	-236	0	-236	C) C	0	0	-70	0	0	0	0	-165	-235
0 113	SSO In-Unit Kitchen Containers - Future Years	CW S6	04	0	100	100	100	100	400	500	900	C) C	0	0	270	0	0	0	0	630	900
0 114	Replacement Waste Bins Single Family - Change	CW S3	04	500	500	0	0	0	1,000	0	1,000	C) (0	0	300	0	0	0	0	700	1,000
0 115	Replacement Waste Bins Single Family - Future Year	CW S6	04	0	0	0	2,500	2,500	5,000	12,500	17,500	C) (0	0	5,250	0	0	0	0	12,250	17,500
0 116	TCHC Organic Implementation Program 2016	CW S4	04	600	0	0	0	0	600	0	600	C) (0	0	180	0	0	0	0	420	600
0 117	Recycling Upgrades for Multi-Units - Change	CW S3	04	-175	0	0	0	0	-175	0	-175	C) C	0	0	-53	0	0	0	0	-122	-175
0 118	SSO Containers Single Family - Change	CW S3	04	-600	0	0	0	0	-600	0	-600	C) C	0	0	-180	0	0	0	0	-420	-600
0 119	Replacement Waste Bins Single Family	CW S5	04	0	0	2,500	0	0	2,500	0	2,500	C) (0	0	750	0	0	0	0	1,750	2,500
0 120	2nd Generation Green Bin Replacement - Change	CW S3	04	-16,500	16,500	0	0	0	0	0	0	C) C	0	0	0	0	0	0	0	0	0
0 121	2nd Generation Green Bin Replacement - Future Year	CW S6	04	0	0	300	300	300	900	1,500	2,400	C) C	0	0	720	0	0	0	0	1,680	2,400
	Sub-total			14,200	19,670	2,900	2,900	2,900	42,570	14,500	57,070	0	C	0	0	17,121	0	0	0) 0	39,950	57,071
SOL90641	9 Perpetual Care of Landfills																					
0 9	Perpetual Care of Landfills Future Years	CW S5	02	0	0	0	0	8,064	8,064	42,630	50,694	C) (0	0	50,694	0	0	0	0	0	50,694
0 12	Perpetual Care of Landfills	CW S2	02	799	642	425	172	0	2,038	0	2,038	C) (0	0	2,038	0	0	0	0	0	2,038
0 13	Perpetual Care of Landfills - Change	CW S3	02	8,450	9,300	8,000	7,972	0	33,722	0	33,722	C) (0	0	33,722	0	0	0	0	0	33,722
				. '							. '	•										

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

							Curre	ent and Fu	ture Year	Cash Flo	w Commitn	nents			Cui	rent and F	uture Year	Cash Flo	w Comm	itments F	inanced	Ву		
<u>Su</u> Pr		oject No. Project Name oProj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	_	Other 1	Other2	Red	Debt - coverable	Total Financing
so	L906419	Perpetual Care of Landfills																						
0	14	PAAC Site Remediation	CW	S2	05	150	0	0	0	0	150	0	150	С	0	0	0	150	0	0	0	0	0	150
		Sub-total				9,399	9,942	8,425	8,144	8,064	43,974	42,630	86,604	0	0	0	0	86,604	0	0	0	(0 0	86,604
<u>so</u>	L906580	Collection Yard Asset Management																						
0	46	Collection Yards Asset Management	CW	S5	03	200	0	0	0	0	200	0	200	С	0	0	0	200	0	0	0	0	0	200
0	47	CNG Refuel Station Installations	CW	S4	04	1,100	0	0	0	0	1,100	0	1,100	С	0	0	0	330	0	0	0	0	770	1,100
0	49	Collection Yard Asset Management - Future Years	CW	S6	03	o	200	200	200	200	800	1,000	1,800	С	0	0	0	1,800	0	0	0	0	0	1,800
		Sub-total				1,300	200	200	200	200	2,100	1,000	3,100	0	0	0	0	2,330	0	0	0	(770	3,100
<u>so</u>	L907246	Green Lane Landfill Development																						
0	21	Buffer Land	CW	S2	02	1,500	0	0	0	0	1,500	0	1,500	С	0	0	0	225	0	0	0	0	1,275	1,500
0	27	Landfill Gas Control System	CW	S2	02	2,107	4,276	2,346	2,483	5,661	16,872	7,710	24,582	С	0	0	0	3,687	0	0	0	0	20,894	24,582
0	28	Leachate Control System	CW	S2	02	1,837	1,948	2,156	2,483	3,117	11,541	3,834	15,375	С	0	0	0	2,306	0	0	0	0	13,069	15,375
0	33	Buffer Land - Future Years	CW	S6	02	0	0	1,500	1,500	1,500	4,500	7,500	12,000	С	0	0	0	1,800	0	0	0	0	10,200	12,000
0	35	Engineering and Monitoring Future Years	CW	S5	02	0	0	0	0	0	0	375	375	С	0	0	0	57	0	0	0	0	318	375
0	36	Cell Excavation & Base Construction - Future Years	CW	S5	02	0	0	0	0	0	0	23,955	23,955	С	0	0	0	3,593	0	0	0	0	20,362	23,955
0	38	Site Services/Final Cover/Storm Future Years	CW	S6	02	0	0	0	0	0	0	3,684	3,684	С	0	0	0	552	0	0	0	0	3,132	3,684
0	39	Leachate Control System - Future Years	CW	S6	02	0	0	0	0	0	0	4,386	4,386	С	0	0	0	657	0	0	0	0	3,729	4,386
0	40	Landfill Gas Control System - Future Years	CW	S5	02	0	0	0	0	0	0	5,030	5,030	С	0	0	0	754	0	0	0	0	4,276	5,030
0	41	Landfill Gas Control System Change	CW	S3	02	-499	0	0	0	0	-499	0	-499	С	0	0	0	-75	0	0	0	0	-424	-499
0	42	Landfill Gas Utilization	02	S2	04	1,350	9,000	9,000	0	0	19,350	0	19,350	С	0	0	0	5,805	0	0	0	0	13,545	19,350
0	44	Cell Excavation & Base Construction	CW	S2	02	6,984	8,024	11,000	7,998	6,926	40,933	15,108	56,041	С	0	0	0	8,406	0	0	0	0	47,635	56,041
0	45	Engineering & Monitoring	CW	S2	02	105	108	111	247	118	690	246	936	С	0	0	0	140	0	0	0	0	796	937
0	46	Site Services/Final Cover/Storm Control	CW	S2	02	1,619	1,760	1,960	1,873	1,961	9,173	4,242	13,414	С	0	0	0	2,012	0	0	0	0	11,402	13,414
0	47	Leachate Control System Change	CW	S3	02	276	0	0	0	0	276	0	276	С	0	0	0	41	0	0	0	0	235	276
0	48	Site Services/Final Covers/Storm - Change	CW	S3	02	-362	0	0	0	0	-362	0	-362	C	0	0	0	-54	0	0	0	0	-308	-362

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Gross Expenditures (\$000's) Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

L																						
					Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cui	rrent and Fu	uture Year	Cash Flo	w Comm	itments	Finance	I By		
	oject No. Project Name lbProj No. Sub-project Name	Ward S	stat. Ca	at. 2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Red	Debt - coverable	Total Financing
SOL907246																						
0 49	Cell Excavation & Base Construction - Change	CW S	S3 02	2 267	0	0	0	0	267	0	267	О	C	0	0	40	0	() (0	227	267
0 50	Engineering & Monitoring - Change	CW S	S3 02	2 363	0	0	0	0	363	0	363	0	C	0	0	54	0	() (0	309	363
0 51	Landfill Gas Utilization - Change	CW S	S3 04	-1,505	-8,800	-8,970	9,460	9,460	-355	0	-355	0	C	0	0	-106	0	() (0	-248	-354
0 52	Buffer Land	CW S	S5 02	2 0	1,500	0	0	0	1,500	0	1,500	0	C	0	0	225	0	() (0	1,275	1,500
	Sub-total			14,043	17,817	19,103	26,044	28,742	105,748	76,069	181,818	0	C	0	0	30,121	0	() () (151,69	9 181,819
SOL907557	Renewable Natural Gas Fleet Fuel From	Biogas_																				
0 1	Renewable Natural Gas Fleet Fuel From Biogas	CW S	S4 04	500	0	0	0	0	500	0	500	o	C	0	0	150	0	() (0	350	500
	Sub-total			500	0	0	0	0	500	0	500	0	C	0	0	150	0	() () (350	500
SOL907626	Reuse Centre - Future Site																					
0 5	Reuse Centre Future Site	CW S	S2 04	1,000	3,500	0	0	0	4,500	0	4,500	О	C	0	0	1,350	0	() (0	3,150	4,500
0 6	Reuse Centre Future Sites - Change	CW S	S3 04	-1,000	-3,500	0	0	0	-4,500	0	-4,500	O	C	0	0	-1,350	0	() (0	-3,150	-4,500
	Sub-total			0	0	0	0	0	0	0	0	0	C	0	0	0	0	() () () (0
SOL907628	Dufferin Single Stream Recycling Facility																					
0 12	Dufferin SSRM Facility	CW S	S2 04	1,500	0	0	0	0	1,500	0	1,500	О	C	0	0	450	0	() (0	1,050	1,500
0 13	Dufferin SSRM Facility - Change	CW S	S3 04	-1,450	0	0	0	0	-1,450	0	-1,450	O	C	0	0	-435	0	() (0	-1,015	-1,450
0 14	Duffering SSRM Facility - Future Years	CW S	S5 04	1 0	50	50	0	0	100	0	100	0	C	0	0	30	0	() (0	70	100
	Sub-total			50	50	50	0	0	150	0	150	0	C	0	0	45	0	() () (10	150
SOL907630	Dufferin SSO Facility																					
0 3	Dufferin SSO Facility Expansion	CW S	S2 04	42,077	10,266	155	155	0	52,653	0	52,653	0	C	0	0	15,796	0	() (0	36,857	52,653
0 4	Dufferin SSO Facility - Change	CW S	S3 04	-24,077	37,240	7,449	59	0	20,671	0	20,671	О	C	0	0	20,671	0	() (0	(20,671
	Sub-total			18,000	47,506	7,604	214	0	73,324	0	73,324	0	C	0	0	36,467	0	() () (36,85	7 73,324
SOL907631	Disco SSO Facility																					
0 1	Disco SSO Facility	CW S	S2 04	1,610	0	0	0	0	1,610	0	1,610	0	C	0	0	483	0	() (0	1,127	1,610
0 2	Site Remediation	CW S	S2 04	340	0	0	0	0	340	0	340	0	C	0	0	102	0	() (0	238	340
0 5	Disco SSO Facility Project Mgt	CW S	S2 04	3,455	0	0	0	0	3,455	0	3,455	0	C	0	0	1,037	0	() (0	2,419	3,455

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			C		Current and Euture Veer Cook Flow Commitments Financed Du																	
			Current and Future Year Cash Flow Commitments Current and Future Year Cash Flow Commitments Financed By																			
	Project No. Project Name SubProj No. Sub-project Name	Ward	Stat. Ca	t. 2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	_	Other 1	Other2	Re	Debt - coverable	Total Financing
	31 Disco SSO Facility												-						-		-	
0 6	Disco SSO Facility - Change	CW	S3 04	-4,405	4,405	0	0	0	0	0	0	C) (0	0	0	0	C	0 0	0) 0	0
	Sub-total			1,000	4,405	0	0	0	5,405	0	5,405	0) C	0	0	1,621	0	C	0 0	- (0 3,783	5,405
SOL9076	32 Long Term Waste Management Strategy																					
0 6	SWM Long Term Strategy Plan Study	CW	S2 04	1,995	0	0	0	0	1,995	0	1,995	C) (0	0	599	0	C	0	C	1,397	1,995
0 7	Long Term Strategy Study - Phase 2	CW	S6 04	0	5,000	10,000	10,000	12,000	37,000	456,609	493,609	C) (0	0	148,083	0	C	0 0	C	345,526	493,609
0 9	Long Term Strategy Study - Phase 2 Char	nge CW	S5 04	896	3,000	0	0	0	3,896	0	3,896	C) (0	0	1,169	0	C	0	C	2,727	3,896
	Sub-total			2,891	8,000	10,000	10,000	12,000	42,891	456,609	499,500	0) C	0	0	149,851	0	C	0 0	(0 349,650	499,500
SOL9078	63 Biogas Utilization																					
0 3	Construction of Biogas Utlization - Disco	CW	S2 04	6,519	2,300	2,500	0	0	11,319	0	11,319	C) (0	0	3,396	0	C	0 0	0	7,923	11,319
0 6	Construction of Biogas Utilization - Dufferi	in CW	S3 04	150	100	490	3,960	0	4,700	0	4,700	C) (0	0	1,410	0	C	0 0	0	3,290	4,700
0 7	Construction of Biogas Utilization - Disco -Change	CW	S3 04	-3,393	375	-2,500	0	0	-5,518	0	-5,518	C) (0	0	-1,656	0	C	0 0	C	3,863	-5,519
	Sub-total			3,276	2,775	490	3,960	0	10,501	0	10,501	0) C	0	0	3,150	0	C	0	(0 7,350	10,500
SOL9079	19 SWM IT Application Initiatives																					
0 4	RFID Integration	CW	S2 04	592	50	50	0	0	692	0	692	C) (0	0	208	0	C	0 0	0	0 484	692
0 8	Business Systems Integration	CW	S6 04	0	0	0	107	120	227	0	227	C) (0	0	68	0	C	0	0	159	227
0 11	Contract Management (Contract Monitorin	ng) CW	S6 04	0	141	387	141	0	669	0	669	C) (0	0	200	0	C	0	0) 469	669
0 13	Asset Management Solution (AMS)	CW	S6 04	0	140	1,112	0	0	1,252	0	1,252	C) (0	0	376	0	C	0	0	876	1,252
0 14	Mobile Assessment & Solution	CW	S6 04	0	564	207	0	0	771	0	771	C) (0	0	231	0	C	0 0	0	540	771
0 19	KPI Reporting and Measuring - Future Yea	ars CW	S6 04	0	633	714	0	0	1,347	0	1,347	C) с	0	0	404	0	C	0	0	943	1,347
0 21	SWMS eService Delivery	CW	S6 04	0	0	0	0	0	0	480	480	C) (0	0	144	0	C	0 0	0	336	480
0 22	Short Term Application Improvements	CW	S2 04	337	0	0	0	0	337	0	337	C) (0	0	101	0	C	0 0	0	236	337
0 23	SWMS Information Model	CW	S2 04	21	0	0	0	0	21	0	21	C) (0	0	6	0	C	0 0	0) 15	21
0 24	Business Process Analysis & Improvemen	nt CW	S2 04	220	0	0	0	0	220	0	220	C) (0	0	66	0	C	0 0	С	154	220
0 26	Transfer Station Efficiencies	CW	S2 04	209	408	408	0	0	1,024	0	1,024	C) (0	0	307	0	C	0 0	C	717	1,024
0 27	Stakeholder-Customer Relationship Mgmt	t CW	S2 04	807	186	0	0	0	993	0	993	C) C	0	0	298	0	C	0	0) 695	993

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Gross Expenditures (\$000's) Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

							Curre	nt and Fu	ıture Year	Cash Flov	w Commitn	Current and Future Year Cash Flow Commitments Financed By												
Sub Prio		iect No. Project Name Proj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve	Capital from Current	Other 1	Other2	Red	Debt - coverable	Total Financing
SOL	907919	SWM IT Application Initiatives																						
0	30	RFID Integration - Change	CW	S3	04	-392	-50	-50	0	0	-492	0	-492	О	0	0	0	-147	0	C		0	-344	-491
0	31	Mobile Assessment & Solution - Change	CW	S5	04	117	0	0	0	0	117	0	117	o	0	0	0	35	0	C		0	82	117
0	32	KPI Reporting and Measuring - Change	CW	S5	04	177	0	0	0	0	177	0	177	o	0	0	0	53	0	C	(0	124	177
0	33	SWMS Information Model - Change	CW	S3	04	397	76	0	0	0	473	0	473	O	0	0	0	141	0	C	(0	330	471
0	34	Business Process Analysis & Improvement Change	- CW	S3	04	-20	20	0	0	0	0	0	0	O	0	0	0	0	0	C	(0	C	0
0	35	Transfer Station Efficiencies - Change	CW	S3	04	0	-48	-408	0	0	-456	0	-456	O	0	0	0	-136	0	C	(0	-320	-456
0	36	Stakeholder-Customer Relationship Mgmt - Change	- CW	S3	04	-807	-186	0	0	0	-993	0	-993	0	0	0	0	-297	0	C	(0	-694	-991
0	38	Transfer Station Efficiencies	CW		04	791	0	0	0	0	791	0	791	0	·			237	0					
0	39	Stakeholder-Customer Relationship - Futur Years	e CW	S6	04	0	0	807	186	0	993	0	993	0				298	0					
		Sub-total				2,449	1,934	3,227	434	120	8,163	480	8,643	0	0	0	0	2,594	0	С	() (6,05	8,644
SOL907956 IT Corporate Initiatives																								
0	3	Web Review	CW	S2	04	20	0	0	0	0	20	0	20	O	0	0	0	6	0	C		0	14	20
0	5	Electronic Document & Records Mgmt Solution	CW	S2	04	547	148	0	0	0	695	0	695	О	0	0	0	209	0	C	(0	487	695
0	6	Time & Attendance Management Solution (TAMS)	CW	S6	04	0	172	261	0	0	433	0	433	O	0	0	0	130	0	C	(0	303	
0		Learning Management Solution (LMS)	CW		04	0	0	0	207	348	555	0	555	0	_		0	167	0	C				
0	8	Work Management System (WMS) Implementation		S2	04	3,714	2,247	1,621	0	0	7,582	0	7,582	0			0	2,275	0	С			·	7,582
0		Work Management System (WMS) Implementation Change	CW		04	-940	1,003	1,108	0	0	1,171	0	1,171	0	_		0	350	0	C				
0	10	Electronic Document & Records Mgmt Solution Change Sub-total	CW	S3	04	-304 3,037	4,007	2,990	207	348	133	0	133	0			0	3,176	0				93	
		Sub-total				3,037	4,007	2,550	201	J40	10,369	U	10,569	"		, 0	0	3,170	0			, (1,412	10,387
SOL	907957	Transfer Station Asset Management																						
0	9	Dufferin T.S	CW	S2	03	4,231	1,000	500	0	0	5,731	0	5,731	O	0	0	0	5,731	0	C	(0	C	5,731
0	11	Disco T.S.		S2	03	1,351	0	0	0	0	1,351	0	1,351	0			0	1,351	0	C				1,351
0	12	Ingram T.S		S2		2,306	0	0	0	0	2,306	0	2,306	0			0	2,306	0					2,000
0	13	Commissioners ST. T.S	CW	S2	03	1,072	0	0	0	0	1,072	0	1,072	0	0	0	0	1,072	0	C	(0	C	1,072

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				_	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
Sub Prio		ct No. Project Name roj No. Sub-project Name	Ward Stat. Ca	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverab Debt	le Total Financing		
SOL	07957 <u>T</u>	ransfer Station Asset Management																					
0	14 5	Scarborough T.S.	CW S2 03	2,603	0	0	0	0	2,603	0	2,603	C) () 0	0	2,603	0	0	0	0	0 2,603		
0	15 E	Building Amenities & Upgrades	CW S2 03	920	0	0	0	0	920	0	920	C) C	0	0	920	0	0	0	0	0 920		
0	16 E	Bermondsey T.S.	CW S2 03	1,073	0	0	0	0	1,073	0	1,073	С) C	0	0	1,073	0	0	0	0	0 1,073		
0	17 [Oufferin T.S - Change	CW S3 03	-909	4,918	5,419	0	0	9,428	0	9,428	С) C) 0	0	9,428	0	0	0	0	0 9,428		
0	18 \	/ictoria Park T.S - Change	CW S3 03	1,327	0	0	0	0	1,327	0	1,327	С) C) 0	0	1,327	0	0	0	0	0 1,327		
0	19 [Disco T.S - Change	CW S3 03	-328	0	0	0	0	-328	0	-328	С) C) 0	0	-328	0	0	0	0	0 -328		
0	20 li	ngram T.S - Change	CW S3 03	1,116	0	0	0	0	1,116	0	1,116	С) C	0	0	1,116	0	0	0	0	0 1,116		
0	21 (Commissioners St. T.S - Change	CW S5 03	956	0	0	0	0	956	0	956	С) С	0	0	956	0	0	0	0	0 956		
0	23 E	Building Amenities & Upgrades - Change	CW S3 03	-382	0	0	0	0	-382	0	-382	С) С	0	0	-382	0	0	0	0	0 -382		
0	24 E	Bermondsey T.S - Change	CW S3 03	1,803	0	0	0	0	1,803	0	1,803	С) C	0	0	1,803	0	0	0	0	0 1,803		
0	25 E	Oufferin T.S Future Years	CW S6 03	0	0	1,750	2,050	1,050	4,850	2,873	7,723	С) С) 0	0	7,723	0	0	0	0	0 7,723		
0	26 5	Scarborough T.S - Future Years	CW S6 03	0	0	50	50	750	850	4,639	5,489	С) С) 0	0	5,489	0	0	0	0	0 5,489		
0	27 8	Scarborough T.S Change	CW S3 03	-972	0	0	0	0	-972	0	-972	С) C) 0	0	-972	0	0	0	0	0 -972		
0	28 li	ngram T.S - Future Years	CW S6 03	0	0	1,050	550	50	1,650	7,369	9,019	С) С) 0	0	9,019	0	0	0	0	0 9,019		
0	29 E	Bermondsey T. S - Future Years	CW S6 03	0	0	1,550	50	850	2,450	706	3,156	С) С) 0	0	3,156	0	0	0	0	0 3,156		
0	30 \	/ictoria Park T.S - Future Years	CW S6 03	0	0	1,150	1,190	2,050	4,390	472	4,862	С) C	0	0	4,862	0	0	0	0	0 4,862		
0	31 [Disco T.S - Future Years	CW S6 03	0	0	125	2,050	50	2,225	1,972	4,197	С) С	0	0	4,197	0	0	0	0	0 4,197		
0	32 (Commissioners St. T.S - Future Years	CW S6 03	0	0	555	565	55	1,175	1,539	2,714	С) С	0	0	2,714	0	0	0	0	0 2,714		
0		Building Amenities & Upgrades - Future Vears	CW S6 03	0	0	350	350	350	1,050	3,305	4,355	С) С) 0	0	4,355	0	0	0	0	0 4,355		
0	34 8	Scarborough T. S - 2017	CW S5 03	0	515	515	0	0	1,029	0	1,029	С) С) 0	0	1,029	0	0	0	0	0 1,029		
0	35 li	ngram T.S - 2017	CW S5 03	0	82	82	0	0	164	0	164	С) C	0	0	164	0	0	0	0	0 164		
0	36 E	Bermondsey T.S - 2017	CW S5 03	0	2,244	2,244	0	0	4,487	0	4,487	С) C	0	0	4,487	0	0	0	0	0 4,487		
0	37 \	/ictoria Park T.S - 2017	CW S5 03	0	1,019	1,019	0	0	2,038	0	2,038	С) (0	0	2,038	0	0	0	0	0 2,038		
0	38 [Disco T. S - 2017	CW S5 03	0	803	803	0	0	1,605	0	1,605	С) C	0	0	1,605	0	0	0	0	0 1,605		

Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S5,S6 Part C Sub-Project Status S2,S3,S4

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

							Curre	ent and Fu	ıture Year	Cash Flov	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	ow Comm	itments F	inanced	Ву		
Sub- Prior		o. Project Name No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Reco	ebt - overable	Total Financing
SOL90		sfer Station Asset Management																						
0	39 Com	missioners St. T.S - 2017	CW	S5	03	0	882	882	0	0	1,764	0	1,764	О	(0 0	0	1,764	0	0	0	0	0	1,764
0	40 Build	ing Amenities & Upgrades - 2017	CW	S5	03	0	505	505	0	0	1,009	0	1,009	О	(0 0	0	1,009	0	0	0	0	0	1,009
		Sub-total				16,167	11,966	18,547	6,855	5,205	58,740	22,875	81,615	0	(0 0	0	81,615	0	0	0	0	0	81,615
SOL90	08082 <u>Diver</u>	sion Facilities Asset Management			:																			
0	1 Diver	sion Facilities Asset Management	CW	S5	03	750	1,000	1,500	1,500	1,500	6,250	7,500	13,750	o	(0 0	0	13,750	0	0	0	0	0	13,750
0	2 Diver	sion Facility Asset Management - 20	14 CW	S2	03	152	0	0	0	0	152	0	152	o	(0 0	0	152	0	0	0	0	0	152
0	3 Diver	sion Facilities Asset Management	CW	S2	03	450	0	0	0	0	450	0	450	o	(0 0	0	450	0	0	0	0	0	450
		Sub-total				1,352	1,000	1,500	1,500	1,500	6,852	7,500	14,352	0	(0 0	0	14,352	0	0	0	0	0	14,352
SOL90	08171 Engir	neering Planning Studies																						
0	1 Engir	neering Planning Studies	CW	S5	04	1,500	1,500	1,500	1,500	1,500	7,500	7,500	15,000	o	(0 0	0	4,500	0	0	0	0	10,500	15,000
		Sub-total				1,500	1,500	1,500	1,500	1,500	7,500	7,500	15,000	0	(0 0	0	4,500	0	0	0	0	10,500	15,000
Tot	al Progra	m Expenditure				89,163	130,771	76,536	61,958	60,579	419,007	629,163	1,048,170	0	(0 0	0	433,695	0	0	0	0 6	614,476	1,048,171
		•																						

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Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S5,S6 Part C Sub-Project Status S2,S3,S4

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Solid Waste Management

		С	urrent and	Future Ye	ar Cash F	ow Comn	nitments ar	nd Estimate	s		Curren	t and Future Yea	Cash Flow C	ommitme	nts and	Estimates	Financed By	
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name	Ward Stat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal De	evelopment Charges Rese	Reserve rves Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
Financed By: Reserve Funds (Ind."XR" Ref.)		26,749	78,831	45,384	27,830	25,760	204,554	229,141	433,695	0	0	0	0 433,695	5 0	(0 0	0 0	433,695
Debt - Recoverable		62,418	51,937	31,150	34,128	34,819	214,453	400,023	614,476	О	0	0	0 0	0	(0 0	0 614,476	614,476
Total Program Financing		89,167	130,768	76,535	61,958	60,579	419,007	629,164	1,048,171	0	0	0	0 433,695	5 0	(0	0 614,476	1,048,171

Otatus Oouc	Description
S2	S2 Prior Yea
S3	S3 Prior Yea

S4

S2 Prior Year (With 2016 and\or Future Year Cashflow)

S3 Prior Year - Change of Scope 2016 and\or Future Year Cost\Cashflow)

S4 New - Stand-Alone Project (Current Year Only)

S5 New (On-going or Phased Projects)

S6 S6 New - Future Year (Commencing in 2017 & 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

2016 Recommended Cash Flow and Future Year Commitments

Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Sol	id Wa	ste Management																						
							Curre	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flow	Commi	itments F	inanced	Ву		
	ritySub	ject No. Project Name Proj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Fodoral	Development Charges	Reserves	Reserve	Capital from	Other 1		Red	Debt - coverable	Total Financing
SOL	000065																							
0	72	SSO In-Unit Kitchen Containers	CW	S2	04	336	0	0	0	0	336	0	336	() (0	0	101	0	0	0	0	235	336
0	102	Replacement Waste Bins Single-Family	CW	S2	04	2,000	2,000	0	0	0	4,000	0	4,000	() (0	0	1,200	0	0	0	0	2,800	4,000
0	105	TCHC Organic Implementation Program	CW	S2	04	500	0	0	0	0	500	0	500	() (0	0	150	0	0	0	0	350	500
0	107	2nd Generation Green Bin Replacement	CW	S2	04	30,000	0	0	0	0	30,000	0	30,000	() (0	0	9,000	0	0	0	0	21,000	30,000
0	108	Recycling Upgrades for Multi-Units	CW	S2	04	200	0	0	0	0	200	0	200	() (0	0	60	0	0	0	0	140	200
0	109	SSO Containers Single-Family (1st Gen)	CW	S2	04	800	0	0	0	0	800	0	800	() (0	0	240	0	0	0	0	560	800
0	110	2nd Generation Green Bin Implementation	CW	S5	04	690	570	0	0	0	1,260	0	1,260	() (0	0	378	0	0	0	0	882	1,260
0	111	Online Sale of Garbage Bag Tags	CW	S4	04	100	0	0	0	0	100	0	100	() (0	0	30	0	0	0	0	70	100
0	112	SSO In-Unit Kitchen Containers - Change	CW	S3	04	-236	0	0	0	0	-236	0	-236	() (0	0	-70	0	0	0	0	-165	-235
0	114	Replacement Waste Bins Single Family - Change	CW	S3	04	500	500	0	0	0	1,000	0	1,000) (0	0	300	0	0	0	0	700	1,000
0	116	TCHC Organic Implementation Program 2016	CW	S4	04	600	0	0	0	0	600	0	600	() (0	0	180	0	0	0	0	420	600
0	117	Recycling Upgrades for Multi-Units - Change	CW	S3	04	-175	0	0	0	0	-175	0	-175	() (0	0	-53	0	0	0	0	-122	-175
0	118	SSO Containers Single Family - Change	CW	S3	04	-600	0	0	0	0	-600	0	-600	() (0	0	-180	0	0	0	0	-420	-600
0	120	2nd Generation Green Bin Replacement - Change	CW	S3	04	-16,500	16,500	0	0	0	0	0	0	() (0	0	0	0	0	0	0	0	0
		Sub-total				18,215	19,570	0	0	0	37,785	0	37,785	C	(0	0	11,336	0	0	0	(26,450	37,786
SOL	906419	Perpetual Care of Landfills																						
0	12	Perpetual Care of Landfills	CW	S2	02	799	642	425	172	0	2,038	0	2,038	() (0	0	2,038	0	0	0	0	0	2,038
0	13	Perpetual Care of Landfills - Change	CW	S3	02	8,450	9,300	8,000	7,972	0	33,722	0	33,722	() (0	0	33,722	0	0	0	0	0	33,722
0	14	PAAC Site Remediation	CW	S2	05	150	0	0	0	0	150	0	150) (0	0	150	0	0	0	0	0	150
		Sub-total				9,399	9,942	8,425	8,144	0	35,910	0	35,910	С	(0	0	35,910	0	0	0	(0	35,910
SOL	906580	Collection Yard Asset Management																						
0	46	Collection Yards Asset Management	CW	S5	03	200	0	0	0	0	200	0	200	() (0	0	200	0	0	0	0	0	200
0	47	CNG Refuel Station Installations	CW	S4	04	1,100	0	0	0	0	1,100	0	1,100	() (0	0	330	0	0	0	0	770	1,100
		Sub-total				1,300	0	0	0	0	1,300	0	1,300	С	(0	0	530	0	0	0	(770	1,300
SOL	07246	Green Lane Landfill Development								_							_							

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Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

				ĺ		Curre	ent and Fu	ture Year	Cash Flo	w Commitn	nents			Cui	rent and Fu	uture Year	Cash Flo	w Comm	itments	Financed	Ву		
	<u>Project No. Project Name</u> SubProj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - coverable	Total Financing
SOL9072	46 Green Lane Landfill Development																						
0 21	Buffer Land	CW	S2	02	1,500	0	0	0	0	1,500	0	1,500	0	0	0	0	225	C) (0 0	0	1,275	1,500
0 27	Landfill Gas Control System	CW	S2	02	2,107	4,276	2,346	2,483	5,661	16,872	7,710	24,582	0	0	0	0	3,687	C) (0 0	0	20,894	24,582
0 28	Leachate Control System	CW	S2	02	1,837	1,948	2,156	2,483	3,117	11,541	3,834	15,375	0	0	0	0	2,306	C) (0	0	13,069	15,375
0 41	Landfill Gas Control System Change	CW	S3	02	-499	0	0	0	0	-499	0	-499	0	0	0	0	-75	C) (0	0	-424	-499
0 42	Landfill Gas Utilization	02	S2	04	1,706	9,000	9,000	0	0	19,706	0	19,706	0	0	0	0	5,912	C) (0	0	13,794	19,706
0 44	Cell Excavation & Base Construction	CW	S2	02	6,984	8,024	11,000	7,998	6,926	40,933	15,108	56,041	0	0	0	0	8,406	C) (0	0	47,635	56,041
0 45	Engineering & Monitoring	CW	S2	02	105	108	111	247	118	690	246	936	0	0	0	0	140	C) (0 0	0	796	937
0 46	Site Services/Final Cover/Storm Control	CW	S2	02	1,619	1,760	1,960	1,873	1,961	9,173	4,242	13,414	0	0	0	0	2,012	C) (0	0	11,402	13,414
0 47	Leachate Control System Change	CW	S3	02	276	0	0	0	0	276	0	276	0	0	0	0	41	C) (0	0	235	276
0 48	Site Services/Final Covers/Storm - Change	e CW	S3	02	-362	0	0	0	0	-362	0	-362	0	0	0	0	-54	C) (0	0	-308	-362
0 49	Cell Excavation & Base Construction - Change	CW	S3	02	267	0	0	0	0	267	0	267	0	0	0	0	40	C) (0 0	0	227	267
0 50	Engineering & Monitoring - Change	CW	S3	02	363	0	0	0	0	363	0	363	0	0	0	0	54	C) (0	0	309	363
0 51	Landfill Gas Utilization - Change	CW	S3	04	-1,505	-8,800	-8,970	9,460	9,460	-355	0	-355	0	0	0	0	-106	C) (0	0	-248	-354
	Sub-total				14,399	16,317	17,603	24,544	27,242	100,104	31,139	131,244	0	0	0	0	22,589	C) (0	0	108,656	131,245
SOL9075	Renewable Natural Gas Fleet Fuel From B	Biogas																					
0 1	Renewable Natural Gas Fleet Fuel From Biogas	CW	S4	04	500	0	0	0	0	500	0	500	0	0	0	0	150	C) (0 0	0	350	500
	Sub-total				500	0	0	0	0	500	0	500	0	0	0	0	150	C) (0 0	0	350	500
SOL9076	Reuse Centre - Future Site																						
0 5	Reuse Centre Future Site	CW	S2	04	1,000	3,500	0	0	0	4,500	0	4,500	0	0	0	0	1,350	C) (0 0	0	3,150	4,500
0 6	Reuse Centre Future Sites - Change	CW	S3	04	-1,000	-3,500	0	0	0	-4,500	0	-4,500	0	0	0	0	-1,350	C) (0 0	0	-3,150	-4,500
	Sub-total				0	0	0	0	0	0	0	0	0	0	0	0	0	C) (0 0	0	0	0
SOL9076	28 <u>Dufferin Single Stream Recycling Facility</u>																						
0 12	Dufferin SSRM Facility	CW	S2	04	1,500	0	0	0	0	1,500	0	1,500	0	0	0	0	450	C) (0 0	0	1,050	1,500
0 13	Dufferin SSRM Facility - Change	CW	S3	04	-1,450	0	0	0	0	-1,450	0	-1,450	0	0	0	0	-435	C) (0 0	0	-1,015	-1,450
	Sub-total				50	0	0	0	0	50	0	50	0	0	0	0	15	C) (0 0	0	35	50

Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3, S4, S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Solid	Waste Management																						
						Curre	ent and Fu	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Yea	r Cash Flo	ow Commit	ments	Financed	Ву		
	Project No. Project Name SubProj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Red	Debt - coverable	Total Financing
SOL9076	630 Dufferin SSO Facility																						
0 3	Dufferin SSO Facility Expansion	CW	S2	04	42,077	10,266	155	155	0	52,653	0	52,653	0) (0	0	15,796	0	(0	0	36,857	52,653
0 4	Dufferin SSO Facility - Change	CW	S3	04	-24,077	37,240	7,449	59	0	20,671	0	20,671	0) (0	0	20,671	0	(0	0		20,671
	Sub-total				18,000	47,506	7,604	214	0	73,324	0	73,324	0	C	0	0	36,467	0	(0	(36,857	73,324
SOL9076	631 Disco SSO Facility																						
0 1	Disco SSO Facility	CW	S2	04	1,610	0	0	0	0	1,610	0	1,610	0) (0	0	483	0	(0	0	1,127	1,610
0 2	Site Remediation	CW	S2	04	340	0	0	0	0	340	0	340	o) (0	0	102	0	(0	0	238	340
0 5	Disco SSO Facility Project Mgt	CW	S2	04	3,455	0	0	0	0	3,455	0	3,455	0) (0	0	1,037	0	(0	0	2,419	3,455
0 6	Disco SSO Facility - Change	CW	S3	04	-4,405	4,405	0	0	0	0	0	0	0) (0	0	0	0	(0	0	C	0
	Sub-total				1,000	4,405	0	0	0	5,405	0	5,405	0	(0	0	1,621	0	(0	(3,783	5,405
SOL9076	632 Long Term Waste Management Strategy																						
0 6	SWM Long Term Strategy Plan Study	CW	S2	04	2,495	0	0	0	0	2,495	0	2,495	0) (0	0	749	0	(0	0	1,747	2,495
0 9	Long Term Strategy Study - Phase 2 Char	nge CW	S5	04	896	3,000	0	0	0	3,896	0	3,896	0) (0	0	1,169	0	(0	0	2,727	3,896
	Sub-total				3,391	3,000	0	0	0	6,391	0	6,391	0	(0	0	1,918	0	(0	(4,474	6,391
SOL9078	863 Biogas Utilization																						
0 3	Construction of Biogas Utilization - Disco	CW	S2	04	6,519	2,300	2,500	0	0	11,319	0	11,319	0) (0	0	3,396	0	(0	0	7,923	11,319
0 6	Construction of Biogas Utilization - Dufferi	n CW	S3	04	150	100	490	3,960	0	4,700	0	4,700	0) (0	0	1,410	0	(0	0	3,290	4,700
0 7	Construction of Biogas Utilization - Disco -Change	CW	S3	04	-3,393	375	-2,500	0	0	-5,518	0	-5,518	0) (0	0	-1,656	0	(0	0	-3,863	-5,519
	Sub-total				3,276	2,775	490	3,960	0	10,501	0	10,501	0	(0	0	3,150	0	(0	(7,350	10,500
SOL9079	919 SWM IT Application Initiatives																						
0 4	RFID Integration	CW	S2	04	592	50	50	0	0	692	0	692	0) (0	0	208	0	(0	0	484	692
0 22	2 Short Term Application Improvements	CW	S2	04	472	0	0	0	0	472	0	472	0) (0	0	142	0	(0	0	331	472
0 23	3 SWMS Information Model	CW	S2	04	21	0	0	0	0	21	0	21	0) (0	0	6	0	(0	0	15	21
0 24	Business Process Analysis & Improvemen	nt CW	S2	04	220	0	0	0	0	220	0	220	0) (0	0	66	0	(0	0	154	220
0 26	6 Transfer Station Efficiencies	CW	S2	04	209	408	408	0	0	1,024	0	1,024	0) (0	0	307	0	(0	0	717	1,024
0 27	7 Stakeholder-Customer Relationship Mgmt	CW	S2	04	807	186	0	0	0	993	0	993	O) (0	0	298	0	(0	0	695	993

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Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

						Curre	ent and F	uture Year	Cash Flo	w Commitn	nents			Cur	rent and Fu	ıture Year	Cash Flo	w Commi	tments I	inanced	Ву		
<u>Sul</u> Pri		ect No. Project Name Proj No. Sub-project Name	Ward S	tat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - overable	Total Financing
SOL	907919	SWM IT Application Initiatives																					
0	30	RFID Integration - Change	CW S	S3 04	-392	-50	-50	0	0	-492	0	-492	0	0	0	0	-147	0	C	0	0	-344	-491
0	31	Mobile Assessment & Solution - Change	CW S	S5 04	117	0	0	0	0	117	0	117	o	0	0	0	35	0	C	0	0	82	117
0	32	KPI Reporting and Measuring - Change	CW S	S5 04	177	0	0	0	0	177	0	177	0	0	0	0	53	0	C	0	0	124	177
0	33	SWMS Information Model - Change	CW S	S3 04	397	76	0	0	0	473	0	473	О	0	0	0	141	0	C	0	0	330	471
0	34	Business Process Analysis & Improvement Change	- CW 5	S3 04	-20	20	0	0	0	0	0	0	o	0	0	0	0	0	C	0	0	0	0
0	35	Transfer Station Efficiencies - Change	CW S	S3 04	0	-48	-408	0	0	-456	0	-456	0	0	0	0	-136	0	C	0	0	-320	-456
0	36	Stakeholder-Customer Relationship Mgmt - Change			-807	-186	0	0	0	-993	0		0			0	-297	0	C		0	-694	-991
0	38	Transfer Station Efficiencies	CW S	S5 04	791	0	0	0	0	791	0	791	0			0	237	0	C		0		791
		Sub-total			2,584	456	-0	0	0	3,039	0	3,039	0	0	0	0	913	0	C	0	0	2,127	3,040
SOL	907956	IT Corporate Initiatives																					
0	3	Web Review	CW S	S2 04	20	0	0	0	0	20	0	20	0	0	0	0	6	0	C	0	0	14	20
0	5	Electronic Document & Records Mgmt Solution	CW S	S2 04	651	148	0	0	0	799	0	799	0	0	0	0	240	0	C	0	0	559	799
0	8	Work Management System (WMS) Implementation	CW S	S2 04	3,714	2,247	1,621	0	0	7,582	0	7,582	0	0	0	0	2,275	0	C	0	0	5,307	7,582
	9	Work Management System (WMS) Implementation Change	CW S		-940	1,003	1,108	0		1,171	0		0			0	350	0	C		0	819	1,169
0	10	Electronic Document & Records Mgmt Solution Change	CW S	S3 04	-304	437	0	0		133	0	133	0			0	40	0	C		0		
		Sub-total			3,141	3,835	2,729	0	0	9,705	0	9,705	0	0	0	0	2,910	0	C	0	0	6,792	9,703
SOL	907957	Transfer Station Asset Management																					
0	9	Dufferin T.S	CW S	S2 03	4,231	1,000	500	0	0	5,731	0	5,731	0	0	0	0	5,731	0	C	0	0	0	5,731
0	11	Disco T.S.	CW S	S2 03	1,351	0	0	0	0	1,351	0	1,351	O	0	0	0	1,351	0	C	0	0	0	1,351
0	12	Ingram T.S	CW S	S2 03	2,306	0	0	0	0	2,306	0	2,306	0	0	0	0	2,306	0	C	0	0	0	2,306
0	13	Commissioners ST. T.S	CW S		1,072	0	0	0	0	1,072	0	, ,	0			0	1,072	0	C		0	0	1,072
0	14	Scarborough T.S.	CW S		2,603	0	0	0	0	2,603	0	2,603	0			0	2,603	0	C		0	0	2,603
0		Building Amenities & Upgrades		S2 03	920	0	0	0	0	920	0	920	0			0	920	0	C		0	0	920
0	16	Bermondsey T.S.	CW S	S2 03	1,073	0	0	0	0	1,073	0	1,073	0	0	0	0	1,073	0	С	0	0	0	1,073

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Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

						Curre	ent and F	uture Year	Cash Flo	w Commitn	nents			Cur	rent and Fu	ıture Year	Cash Flo	w Comm	itments l	Financed	Ву		
	ect No. Project Name Proj No. Sub-project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Red	Debt - coverable	Total Financing
SOL907957	Transfer Station Asset Management																						
0 17	Dufferin T.S - Change	CW	S3	03	-909	4,918	5,419	0	0	9,428	0	9,428	0	0	0	0	9,428	0	(0	0	0	9,428
0 18	Victoria Park T.S - Change	CW	S3	03	1,327	0	0	0	0	1,327	0	1,327	0	0	0	0	1,327	0	C	0	0	0	1,327
0 19	Disco T.S - Change	CW	S3	03	-328	0	0	0	0	-328	0	-328	0	0	0	0	-328	0	C	0	0	0	-328
0 20	Ingram T.S - Change	CW	S3	03	1,116	0	0	0	0	1,116	0	1,116	0	0	0	0	1,116	0	C	0	0	0	1,116
0 21	Commissioners St. T.S - Change	CW	S5	03	956	0	0	0	0	956	0	956	0	0	0	0	956	0	C	0	0	0	956
0 23	Building Amenities & Upgrades - Change	CW	S3	03	-382	0	0	0	0	-382	0	-382	0	0	0	0	-382	0	C	0	0	0	-382
0 24	Bermondsey T.S - Change	CW	S3	03	1,803	0	0	0	0	1,803	0	1,803	0	0	0	0	1,803	0	C	0	0	0	1,803
0 27	Scarborough T.S Change	CW	S3	03	-972	0	0	0	0	-972	0	-972	0	0	0	0	-972	0	(0	0	0	-972
0 34	Scarborough T. S - 2017	CW	S5	03	0	514	514	0	0	1,028	0	1,028	0	0	0	0	1,028	0	(0	0	0	1,028
0 35	Ingram T.S - 2017	CW	S5	03	0	82	82	0	0	164	0	164	0	0	0	0	164	0	(0	0	0	164
0 36	Bermondsey T.S - 2017	CW	S5	03	0	2,243	2,243	0	0	4,486	0	4,486	0	0	0	0	4,486	0	C	0	0	0	4,486
0 37	Victoria Park T.S - 2017	CW	S5	03	0	1,019	1,019	0	0	2,038	0	2,038	0	0	0	0	2,038	0	C	0	0	0	2,038
0 38	Disco T. S - 2017	CW	S5	03	0	802	802	0	0	1,604	0	1,604	0	0	0	0	1,604	0	C	0	0	0	1,604
0 39	Commissioners St. T.S - 2017	CW	S5	03	0	882	882	0	0	1,764	0	1,764	0	0	0	0	1,764	0	(0	0	0	1,764
0 40	Building Amenities & Upgrades - 2017	CW	S5	03	0	504	504	0	0	1,008	0	1,008	0	0	0	0	1,008	0	(0	0	0	1,008
	Sub-total				16,167	11,964	11,965	0	0	40,096	0	40,096	0	0	0	0	40,096	0	() 0	C	0	40,096
SOL908082	<u>Diversion Facilities Asset Management</u>																						
0 1	Diversion Facilities Asset Management	CW	S5	03	750	500	0	0	0	1,250	0	1,250	0	0	0	0	1,250	0	(0	0	0	1,250
0 2	Diversion Facility Asset Management - 201	4 CW	S2	03	152	0	0	0	0	152	0	152	0	0	0	0	152	0	(0	0	0	152
0 3	Diversion Facilities Asset Management	CW	S2	03	450	0	0	0	0	450	0	450	0	0	0	0	450	0	(0	0	0	450
	Sub-total				1,352	500	0	0	0	1,852	0	1,852	0	0	0	0	1,852	0	(0	C	0	1,852
	Two-Way Radio Replacement	C)A/	00	04	2 225	2		•	^	2.225		2 225		•	2	•	674	•	,		•	4.505	2 225
0 1	Two-Way Radio Replacement	CW	S2	04	2,235	0	0			2,235	0	·	0							0		1,565	2,235
SOL908171	Sub-total Engineering Planning Studies				2,235	0	0	0	0	2,235	0	2,235	0	0	0	0	671	0	(0		1,565	2,235
302300171																							

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Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3, S4, S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

	[Curre	ent and Fu	ıture Year	Cash Flo	w Commitn	nents			Cı	urrent and F	uture Yea	r Cash Flo	w Comm	itments	Financed	Ву		
Sub- Project No. Project Name PrioritySubProj No. Sub-project Name	Ward Stat. Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve	Reserve Funds	Capital from Current	Other 1	Other2	Rec	ebt - overable	Total Financing
SOL908171 Engineering Planning Studies																				
0 1 Engineering Planning Studies	CW S5 04	1,500	0	0	0	0	1,500	0	1,500	0	ı	0 0	C	450	C) (0 0	0	1,050	1,500
Sub-total		1,500	0	0	0	0	1,500	0	1,500	0		0 0	C	450	C) () 0	0	1,050	1,500
Total Program Expenditure		96,507	120,269	48,816	36,862	27,242	329,696	31,139	360,835	0	•	0 0	C	160,576	C) () 0	0	200,260	360,836

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Report Phase 2 - Program 17 Solid Waste Management Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Solid Waste	Management	
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		Current and	Future Ye	ar Cash F	low Comr	nitments ar	nd Estimate	s		Current	t and Future	Year Casl	n Flow C	ommitme	nts and	Estimates	Financed By	
<u>Sub- Project No. Project Name</u> Priority SubProj No. Sub-project Name Ward Stat. C	at. 2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal De	evelopment Charges F		Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
Financed By: Reserve Funds (Ind."XR" Ref.)	28,952	75,414	31,496	14,538	5,505	155,905	4,671	160,576	0	0	0	0	160,576	0		0 0	0 (160,576
Debt - Recoverable	67,560	44,852	17,319	22,324	21,737	173,791	26,469	200,260	0	0	0	0	0	0		0 0	0 200,260	200,260
Total Program Financing	96,511	120,266	48,815	36,862	27,242	329,696	31,140	360,836	0	0	0	0	160,576	0		0 0	0 200,260	360,836

Status Code Description S2

S2 Prior Year (With 2016 and\or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2016 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

Legislated C02 03

State of Good Repair C03 04

Service Improvement and Enhancement C04

Growth Related C05 06 Reserved Category 1 C06 07 Reserved Category 2 C07

Appendix 5

2016 Recommended Capital Budget with Financing Detail

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



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail **Solid Waste Management**

Sub-Project Summary

Project/Finan			20					Financ					
Priority Proje	ect Project Name	Start Date C	ompletion Cash Date	Flow Provinci Grants Subsidie	Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverabl
0 SOL906	419 Perpetual Care of Landfills												
0	12 Perpetual Care of Landfills	06/18/2014 12	2/31/2025	799	0 0	0	0	799	0	0	0		0 (
0	13 Perpetual Care of Landfills - Change	01/01/2025 12	2/31/2025 8	450	0 0	0	0	8,450	0	0	0		0 (
0	14 PAAC Site Remediation	01/01/2011 12	2/31/2016	150	0 0	0	0	150	0	0	0		0 (
		Project Sub-to	otal: 9	399	0 0	0	0	9,399	0	0	0		0 (
0 SOL906	580 Collection Yard Asset Management			ĺ									
0 4	46 Collection Yards Asset Management	01/01/201412	2/31/2025	200	0 0	0	0	200	0	0	0		0 (
	47 CNG Refuel Station Installations	01/01/201612	2/31/2016 1	100	0 0	0	0	330	0	0	0		0 770
		Project Sub-to	otal: 1	300	0 0	0	0	530	0	0	0		0 770
0 SOL907	246 Green Lane Landfill Development			İ									
	21 Buffer Land	01/01/201612	2/31/2016 1	500	0 0	0	0	225	0	0	0		0 1,275
0 2	27 Landfill Gas Control System	01/01/2011 12	2/31/2025 2	107	0 0	0	0	316	0	0	0		0 1,79
0 2	28 Leachate Control System	01/01/201612	2/31/2016 1	837	0 0	0	0	276	0	0	0		0 1,562
0 4	41 Landfill Gas Control System Change	01/01/201612	2/31/2016	499	0 0	0	0	-75	0	0	0		0 -42
0 4	42 Landfill Gas Utilization	01/01/201512	2/31/2017 1	706	0 0	0	0	512	0	0	0		0 1,19
0 4	44 Cell Excavation & Base Construction	01/01/201212	2/31/2025 6	984	0 0	0	0	1,048	0	0	0		0 5,937
0 4	45 Engineering & Monitoring	01/01/201312	2/31/2025	105	0 0	0	0	16	0	0	0		0 90
0 4	46 Site Services/Final Cover/Storm Control	01/01/201212	2/31/2025 1	619	0 0	0	0	243	0	0	0		0 1,376
0 4	47 Leachate Control System Change	01/01/201612	2/31/2016	276	0 0	0	0	41	0	0	0		0 23
0 4	48 Site Services/Final Covers/Storm - Change	01/01/201612	2/31/2016	362	0 0	0	0	-54	0	0	0		0 -308
0 4	49 Cell Excavation & Base Construction - Change	01/01/201612	2/31/2016	267	0 0	0	0	40	0	0	0		0 22
0 5	50 Engineering & Monitoring - Change	01/01/201612	2/31/2016	363	0 0	0	0	54	0	0	0		0 309
0 5	51 Landfill Gas Utilization - Change	01/01/201612	2/31/2020 -1	504	0 0	0	0	-451	0	0	0		0 -1,05
		Project Sub-te	otal: 14	400	0 0	0	0	2,190	0	0	0		0 12,210
0 SOL907	557 Renewable Natural Gas Fleet Fuel From Biogas												
0	1 Renewable Natural Gas Fleet Fuel From Biogas	01/01/201612	2/31/2016	500	0 0	0	0	150	0	0	0		0 350
		Project Sub-to	otal:	500	0 0	0	0	150	0	0	0		0 350
0 SOL907	626 Reuse Centre - Future Site			i									
0	5 Reuse Centre Future Site	01/01/201512	2/31/2015 1	000	0 0	0	0	300	0	0	0		0 700
0	6 Reuse Centre Future Sites - Change	01/01/201612	2/31/2016 -1	000	0 0	0	0	-300	0	0	0		0 -700
	-	Project Sub-to	otal:	0	0 0	0	0	0	0	0	0		0 (
0 SOL907	628 Dufferin Single Stream Recycling Facility			İ									
	12 Dufferin SSRM Facility	01/01/201612	2/31/2018 1	500	0 0	0	0	450	0	0	0		0 1,050
-	· · · · · · · · · · · · · · · · · · ·			-1	· ·	v	ŭ		ŭ	· ·	· ·		.,500

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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



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail **Solid Waste Management**

Sub-Project Summary

Project/Financing			2016		JI.	_	_	Financ					
Priority	Project Project Name	Start Date Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<u>0</u> SO	L907628 Dufferin Single Stream Recycling Facility												
0	13 Dufferin SSRM Facility - Change	01/01/2016 12/31/2018	-1,450	0	0	0	0	-435	0	0	0		0 -1,015
		Project Sub-total:	50	0	0	0	0	15	0	0	0		0 35
0 SO	L907630 Dufferin SSO Facility												
0	3 Dufferin SSO Facility Expansion	01/01/201612/31/2018	42,077	0	0	0	0	12,623	0	0	0		0 29,454
0	4 Dufferin SSO Facility - Change	01/01/201612/31/2018	-24,077	0	0	0	0	-24,077	0	0	0		0 0
		Project Sub-total:	18,000	0	0	0	0	-11,454	0	0	0		0 29,454
<u>0</u> SO	L907631 Disco SSO Facility												
0	1 Disco SSO Facility	01/08/201010/08/2012	1,610	0	0	0	0	483	0	0	0		0 1,127
0	2 Site Remediation	01/01/201012/31/2016	340	0	0	0	0	102	0	0	0		0 238
0	5 Disco SSO Facility Project Mgt	01/01/201012/31/2016	3,455	0	0	0	0	1,037	0	0	0		0 2,419
0	6 Disco SSO Facility - Change	01/01/201612/31/2017	-4,405	0	0	0	0	-1,321	0	0	0		0 -3,084
		Project Sub-total:	1,000	0	0	0	0	300	0	0	0		0 699
<u>0</u> SO	L907632 Long Term Waste Management Strategy												
0	6 SWM Long Term Strategy Plan Study	01/01/2014 12/31/2016	2,495	0	0	0	0	749	0	0	0		0 1,747
0	9 Long Term Strategy Study - Phase 2 Change	01/01/201612/31/2019	896	0	0	0	0	269	0	0	0		0 627
		Project Sub-total:	3,391	0	0	0	0	1,018	0	0	0		0 2,374
<u>0</u> SO	L907863 Biogas Utilization												
0	3 Construction of Biogas Utlization - Disco	01/01/2015 12/31/2017	6,519	0	0	0	0	1,956	0	0	0		0 4,563
0	6 Construction of Biogas Utilization - Dufferin	01/01/2016 12/31/2019	150	0	0	0	0	45	0	0	0		0 105
0	7 Construction of Biogas Utilization - Disco -Change	01/01/201612/31/2017	-3,393	0	0	0	0	-1,018	0	0	0		0 -2,375
		Project Sub-total:	3,276	0	0	0	0	983	0	0	0		0 2,293
<u>0</u> SO	L907919 SWM IT Application Initiatives												
0	4 RFID Integration	01/01/201212/31/2016	592	0	0	0	0	178	0	0	0		0 414
0	22 Short Term Application Improvements	01/01/2014 12/31/2016	472	0	0	0	0	142	0	0	0		0 331
0	23 SWMS Information Model	01/01/2015 12/31/2017	21	0	0	0	0	6	0	0	0		0 15
0	24 Business Process Analysis & Improvement	01/01/2014 12/31/2017	220	0	0	0	0	66	0	0	0		0 154
0	26 Transfer Station Efficiencies	01/01/2014 12/31/2017	209	0	0	0	0	63	0	0	0		0 146
0	27 Stakeholder-Customer Relationship Mgmt	09/08/2017 04/09/2019	807	0	0	0	0	242	0	0	0		0 565
0	30 RFID Integration - Change	01/01/2016 12/31/2016	-391	0	0	0	0	-117	0	0	0		0 -274
0	31 Mobile Assessment & Solution - Change	01/01/2016 12/31/2018	117	0	0	0	0	35	0	0	0		0 82
0	32 KPI Reporting and Measuring - Change	01/01/2016 12/31/2016	177	0	0	0	0	53	0	0	0		0 124
0	33 SWMS Information Model - Change	01/01/2016 12/31/2017	396	0	0	0	0	119	0	0	0		0 277
0	34 Business Process Analysis & Improvement - Change	01/10/2016 12/31/2017	-20	0	0	0	0	-6	0	0	0		0 -14

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



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail **Solid Waste Management**

Sub-Project Summary

Project/I	Financing		2016					Financ	ing				
Priority Project Name		Start Date Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverabl
0 SO	L907919 SWM IT Application Initiatives												
0	36 Stakeholder-Customer Relationship Mgmt - Change	01/01/201812/31/2019	-806	0	0	0	0	-242	0	0	0		0 -564
0	38 Transfer Station Efficiencies	01/01/201612/31/2016	791	0	0	0	0	237	0	0	0		0 554
		Project Sub-total:	2,585	0	0	0	0	775	0	0	0		0 1,810
0 SO	L907956 IT Corporate Initiatives												
0	3 Web Review	01/01/2014 12/31/2014	20	0	0	0	0	6	0	0	0		0 14
0	5 Electronic Document & Records Mgmt Solution	01/01/201512/31/2017	651	0	0	0	0	195	0	0	0		0 455
0	8 Work Management System (WMS) Implementation	01/01/201312/31/2018	3,714	0	0	0	0	1,114	0	0	0		0 2,600
0	9 Work Management System (WMS) Implementation Change	01/01/201612/31/2018	-940	0	0	0	0	-282	0	0	0		0 -658
0	10 Electronic Document & Records Mgmt Solution Change	01/01/201612/31/2017	-303	0	0	0	0	-91	0	0	0		0 -212
		Project Sub-total:	3,142	0	0	0	0	942	0	0	0		0 2,199
0 SO	L907957 Transfer Station Asset Management												
0	9 Dufferin T.S	01/01/201612/31/2024	4,231	0	0	0	0	4,231	0	0	0		0 (
0	11 Disco T.S.	01/01/201612/31/2024		0	0	0	0	1,351	0	0	0		0 (
0	12 Ingram T.S	01/01/201612/31/2024	2,306	0	0	0	0	2,306	0	0	0		0 (
0	13 Commissioners ST. T.S	01/01/201612/31/2024	1,072	0	0	0	0	1,072	0	0	0		0 (
0	14 Scarborough T.S.	01/01/2015 12/31/2025	2,603	0	0	0	0	2,603	0	0	0		0 (
0	15 Building Amenities & Upgrades	01/01/201612/31/2024	920	0	0	0	0	920	0	0	0		0 (
0	16 Bermondsey T.S.	01/01/201612/31/2024	1,073	0	0	0	0	1,073	0	0	0		0 (
0	17 Dufferin T.S - Change	01/01/201612/31/2016	-909	0	0	0	0	-909	0	0	0		0 0
0	18 Victoria Park T.S - Change	01/01/201612/31/2024	1,327	0	0	0	0	1,327	0	0	0		0 0
0	19 Disco T.S - Change	01/01/201612/31/2025	-328	0	0	0	0	-328	0	0	0		0 0
0	20 Ingram T.S - Change	01/01/201612/31/2024	1,116	0	0	0	0	1,116	0	0	0		0 (
0	21 Commissioners St. T.S - Change	01/01/2015 12/31/2025	956	0	0	0	0	956	0	0	0		0 (
0	23 Building Amenities & Upgrades - Change	01/01/201612/31/2024	-382	0	0	0	0	-382	0	0	0		0 (
0	24 Bermondsey T.S - Change	01/01/201612/31/2024	1,803	0	0	0	0	1,803	0	0	0		0
0	27 Scarborough T.S Change	01/01/201612/31/2024	-972	0	0	0	0	-972	0	0	0		0 (
		Project Sub-total:	16,167	0	0	0	0	16,167	0	0	0		0 (
<u>0</u> <u>SO</u>	L908082 Diversion Facilities Asset Management												
0	1 Diversion Facilities Asset Management	01/01/201512/31/2024	750	0	0	0	0	750	0	0	0		0 (
0	2 Diversion Facility Asset Management - 2014	01/01/2014 12/31/2015	152	0	0	0	0	152	0	0	0		0 (
0	3 Diversion Facilities Asset Management	01/01/201512/31/2016	450	0	0	0	0	450	0	0	0		0 (
		Project Sub-total:	1,352	0	0	0	0	1,352	0	0	0		0 (

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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



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Solid Waste Management Sub-Project Summary

Project/	Financing	2016 Financing											
_	Project Name	Start Date Completion Date	Cash Flow	Provincial Grants	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From	Other 1	Other 2	Debt	Debt - Recoverable
				Subsidies					Current				
	DL908086 Two-Way Radio Replacement			_									
0	1 Two-Way Radio Replacement	01/01/2015 12/31/2015	2,235	0	0	0	0	671	0	0	0	C	
		Project Sub-total:	2,235	0	0	0	0	671	0	0	0	C	1,565
<u>0</u> SC	DL908171 Engineering Planning Studies												
0	1 Engineering Planning Studies	01/01/2016 12/31/2025	1,500	0	0	0	0	450	0	0	0	C	1,050
		Project Sub-total:	1,500	0	0	0	0	450	0	0	0	C	1,050
3 SC	DL000065 Diversion Systems												
0	72 SSO In-Unit Kitchen Containers	08/07/2009 12/31/2025	336	0	0	0	0	101	0	0	0	C	235
0	102 Replacement Waste Bins Single-Family	01/01/201312/31/2025	2,000	0	0	0	0	600	0	0	0	C	1,400
0	105 TCHC Organic Implementation Program	01/01/2014 12/31/2016	500	0	0	0	0	150	0	0	0	C	350
0	107 2nd Generation Green Bin Replacement	01/01/2014 12/31/2016	30,000	0	0	0	0	9,000	0	0	0	C	21,000
0	108 Recycling Upgrades for Multi-Units	01/01/2009 12/31/2016	200	0	0	0	0	60	0	0	0	C	140
0	109 SSO Containers Single-Family (1st Gen)	01/01/2016 12/31/2016	800	0	0	0	0	240	0	0	0	C	560
0	110 2nd Generation Green Bin Implementation	01/01/2016 12/31/2017	690	0	0	0	0	207	0	0	0	C	483
0	111 Online Sale of Garbage Bag Tags	01/01/2016 12/31/2016	100	0	0	0	0	30	0	0	0	C	70
0	112 SSO In-Unit Kitchen Containers - Change	01/01/2016 12/31/2016	-235	0	0	0	0	-70	0	0	0	C	-165
0	114 Replacement Waste Bins Single Family - Change	01/01/2016 12/31/2017	500	0	0	0	0	150	0	0	0	C	350
0	116 TCHC Organic Implementation Program 2016	01/01/2016 12/31/2016	600	0	0	0	0	180	0	0	0	C	420
0	117 Recycling Upgrades for Multi-Units - Change	01/01/2016 12/31/2016	-175	0	0	0	0	-53	0	0	0	C	-122
0	118 SSO Containers Single Family - Change	01/01/2016 12/31/2016	-600	0	0	0	0	-180	0	0	0	C	-420
0	120 2nd Generation Green Bin Replacement - Change	01/01/2016 12/31/2016	-16,500	0	0	0	0	-4,950	0	0	0	C	-11,550
		Project Sub-total:	18,216	0	0	0	0	5,465	0	0	0	C	12,751
Progra	m Total:		96,511	0	0	0	0	28,952	0	0	0	С	67,560

S2 S3 S4 S2 Prior Year (With 2016 and\or Future Year Cashflow)

S3 Prior Year - Change of Scope 2016 and\or Future Year Cost\Cashflow)

S4 New - Stand-Alone Project (Current Year Only)

S5 S5 New (On-going or Phased Projects)

Category Code Description

Health and Safety C01 01 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 6

Reserve / Reserve Fund Review

Table 11: Reserve / Reserve Fund – Program Specific (\$000s)

Reserve /		Balance as of	Contributions / (Withdrawls) \$000s											
Reserve Fund Name	Project / SubProject Name and Number	December 31, 2015				2019 Plan							2025 Total	
XR1013	Beginning Balance (Jan. 1)	24,783	24,476	21,211	20,601	21,505	21,589	21,673	21,758	21,842	21,928	22,013	24,476	
Perpetual Care	Estimated Interest Earned	194	135	83	80	84	84	85	85	85	86	86	892	
of Landfill	Contributions (Operating)	8,000	9,249	9,249	9,249	8,144	8,064	8,165	8,272	8,731	8,731	8,731	86,585	
Reserve Fund	Morningside Landfill Remediation	(450)	(3,400)										(3,400)	
	Basic Perpetual Care	(5,367)	(6,166)	(6,628)	(5,617)	(5,429)	(5,376)	(5,443)	(5,515)	(5,821)	(5,821)	(5,821)	(57,635)	
	New Control Systems	(2,683)	(3,083)	(3,314)	(2,808)	(2,715)	(2,688)	(2,722)	(2,757)	(2,910)	(2,910)	(2,910)	(28,819)	
	Subtotal Perpetual Care Ptroject	(8,050)	(9,249)	(9,942)	(8,425)	(8,144)	(8,064)	(8,165)	(8,272)	(8,731)	(8,731)	(8,731)	(86,454)	
	Total Proposed Net Contributions/(Withdrawals)	(306)	(3,265)	(610)	904	84	84	85	85	85	86	86	(2,377)	
TOTAL RESERVE	FUND BALANCE AT YEAR-END	24,476	21,211	20,601	21,505	21,589	21,673	21,758	21,842	21,928	22,013	22,099	22,099	
		2.1					Contributio	ns / (With	drawls) \$00	10s				
Reserve / Reserve Fund Name	Project / SubProject Name and Number	Balance as of December 31, 2015	2016 Plan	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total	
XR1404 Waste	Beginning Balance (Jan. 1)	94,352	113,801	102,252	82,707	74,173	78,080	84,356	95,518	105,269	115,170	122,319	113,801	
Management	Estimated Interest Earned	790	626	399	323	289	305	329	373	411	449	477	3,979	
Reserve Fund	Contributions (Withdrawals)													
	Operating	13,170	20,775	20,775	20,775	20,775	20,775	20,775	20,775	20,775	20,775	20,775	207,752	
	Prior Y/E Operating Surplus	15,044												
	Funding of Landfill Gas Utilization	(5)	47	(60)	(9)	(2,838)	(2,838)						(5,699)	
	Funding of Transfer Station Capital	(5,334)	(16,167)	(11,966)	(18,547)	(6,855)	(5,205)	(3,290)	(4,365)	(4,365)	(6,855)	(4,000)	(81,615)	
	Funding of Collection Yard Capital	(942)	(533)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(2,333)	
	Funding of Diversion Facilities Asset													
	Mgmt.	(271)	(1,352)	(1,000)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(14,352)	
	Funding of Disco SSO Facility	(60)	(300)	(1,322)										
	Funding of Dufferin SSRM Facility	(18)	(15)	(15)	(15)								(45)	
	Funding of Dufferin SSO Facility	(150)	(5,400)	(14,252)	(2,281)	(64)							(21,997)	
	Funding of Biogas Utilization	(15)	(983)	(833)	(147)	(1,188)							(3,150)	
	Funding of Long Term Waste Mgmt													
	Strategy	(394)	(867)	(2,400)	(3,000)	(3,000)	(3,600)	(3,600)	(3,900)	(3,900)	(4,200)	(121,383)	(149,850)	
	Funding of Diversion Systems.	(1,457)	(4,260)	(5,901)	(870)	(870)	(870)	(870)	(870)	(870)	(870)	(870)	(17,121)	
	Funding of SWM IT Application													
	Initiatives	(471)	(735)	(580)	(968)	(130)	(36)	(32)	(112)				(2,593)	
	Funding of IT Corporate Initiatives	(391)	(911)	(1,202)	(897)	(62)	(104)						(3,177)	
	Fund Revenue Services Billing							l						
	System	(48)	(203)	(539)	(747)								(1,489)	
	Funding of Two-way Radios		(671)					l					(671)	
	Funding of Renewable Natural Gas Fleet Fuel From Biogas		(150)										(150)	
	Funding of Engineering Planning Studies		(450)	(450)	(450)	(450)	(450)	(450)	(450)	(450)	(450)	(450)	(4,500)	
	Net Total Proposed Contributions (Withdrawals)	19,449	(11,549)	(19,545)	(8,534)	3,907	6,276	11,162	9,751	9,901	7,149	(107,150)	(98,632)	
	Total Project Funding Withdrawals	(9,555)	(32,950)	(40,719)	(29,631)	(17,158)	(14,803)	(9,942)	(11,397)	(11,285)	(14,075)	(128,403)	(310,364)	
TOTAL RESERVE	FUND BALANCE AT YEAR-END	113,801	102,252	82,707	74,173	78,080	84,356	95,518	105,269	115,170	122,319	15,169	15,169	

			Proposed Cash Flows \$000s												
Reserve / Reserve Fund Name	Project / SubProject Name and Number	Balance as of December 31, 2015	2016 Plan	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total		
XR1408 Green	Beginning Balance (Jan. 1)	14,972	14,026	12,876	11,340	9,594	8,231	6,473	5,381	4,048	3,012	1,996	14,026		
Lane Reserve Fund	Contributions / (Withdrawls)	759	903	1,056	1,071	1,087	1,103	1,125	1,148	1,171	1,194	1,218	11,078		
	Estimated Interest Earned	131	76	50	44	37	32	25	21	15	11	7	318		
	Buffer Land	(11)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(2,250)		
	Cell Excavation and Base Const.	(934)	(1,088)	(1,204)	(1,650)	(1,200)	(1,039)	(1,009)	(1,257)	(1,198)	(1,198)	(1,198)	(12,039)		
	Engineering and Monitoring	(8)	(70)	(16)	(17)	(37)	(18)	(18)	(19)	(19)	(19)	(19)	(251)		
	Leachate Control System	(262)	(317)	(292)	(323)	(372)	(468)	(284)	(291)	(219)	(219)	(219)	(3,006)		
	Landfill Gas Control System	(411)	(241)	(641)	(352)	(372)	(849)	(421)	(359)	(377)	(377)	(377)	(4,367)		
	Site Services/Final Cover/Storm Control Total Proposed Contributions /	(210)	(189)	(264)	(294)	(281)	(294)	(286)	(351)	(184)	(184)	(184)	(2,510)		
	(Withdrawls)	(946) 14,026	_ ` '						(1,333)				(13,027)		
TOTAL RESERVE	TOTAL RESERVE FUND BALANCE AT YEAR-END		12,876	11,340	9,594	8,231	6,473	5,381	4,048	3,012	1,996	999	999		