



PUBLIC WORKS COMMITTEE

REPORT 18-010

9:30 a.m.

Thursday, July 12, 2018

Council Chambers

Hamilton City Hall

71 Main Street West

Present: Councillor L. Ferguson (Chair)
Councillor T. Jackson (Vice Chair)
Councillors C. Collins, S. Merulla, D. Conley, A. VanderBeek
T. Whitehead and R. Pasuta

Also Present: Mayor F. Eisenberger

THE PUBLIC WORKS COMMITTEE PRESENTS REPORT 18-010 AND RESPECTFULLY RECOMMENDS:

1. Sewer Use By-Law Program Annual Update (PW18059) (City Wide) (Item 5.2)

That Report PW18059 respecting the Sewer Use By-Law Program Annual Update, be received.

2. Electric Buses (PW18061) (City Wide) (Item 5.3)

That Report PW18061 respecting Electric Buses, be received.

3. Autonomous (Self Driving) Buses (PW18062) (City Wide) (Item 5.4)

That Report PW18062 respecting Autonomous (Self Driving) Buses, be received.

4. Fallen Fire Fighters Memorial (PW18052) (City Wide) (Item 8.9)

- (a) That the site selection for the Fallen Fire Fighters Memorial be confirmed at Gage Park (1000 Main Street East, Ward 3, Hamilton) as shown in Appendix A to PW Report 18-010, and staff continue with the detailed design of the memorial project;
- (b) That the capital and operating costs associated with the construction and maintenance of the Fallen Fire Fighters Memorial be referred to the 2019 Capital Budget process for consideration;
- (c) That staff be directed to formally consult with the Friends of Gage Park in order to find a workable solution to address their concerns respecting the historical aspects and the continuity of the gardens in the construction of a Fallen Fire Fighters Memorial in Gage Park.

5. Mountainbrow Trail Feasibility Study (PW18053) (Ward 6, 7, 8 and 9) (Item 7.1)

- (a) That the implementation strategy for the Mountainbrow Multi-Use Trail identified in Report PW18053 be received;
- (b) That staff be directed to include the multi-use project initiatives for consideration in future capital budget processes, as part of larger projects or as stand-alone projects, within the implementation windows identified in the Mountainbrow Trail Feasibility Study.

6. Transit Complement Control Update (PW18057) (City Wide) (Item 7.2)

The Report PW18057 respecting a Transit Complement Control Update, be received.

7. Hamilton Water Financial Plan (PW18051) (City Wide) (Item 8.1)

- (a) That the "Hamilton Water Financial Plan" as prescribed by Ontario Regulation 453/07 be approved by a resolution that the Hamilton drinking water systems have the resources necessary to operate successfully over the next ten years based on current projections;

- (b) That the “Hamilton Water Financial Plan” be released for public review, and submitted to the Ontario Ministry of Municipal Affairs and Housing in response to Ontario Regulation 453/07 under the *Safe Drinking Water Act, 2002*;
- (c) That Appendix B attached to PW Report 18-010 respecting the “Hamilton Water Financial Plan” be approved.

8. Public Transit Infrastructure Fund (PTIF) – Debt Financing Re-appropriation (PW18054) (City Wide) (Item 8.2)

That debt financing related to Public Transit Infrastructure Fund (PTIF) projects be re-appropriated as outlined in Appendix C to PW Report 18-010.

9. DARTS 2017 Variance Funding (PW18055) (City Wide) (Item 8.3)

That the General Manager of Public Works be authorized to pay DARTS an additional \$250,228 from account 12607-006100 for services provided for the year 2017, over and above those funds approved within the 2017 Transit Division budget.

10. Sam Lawrence Park Master Plan 255 and 371 Concession Street (PW18056) (Ward 7) (Item 8.4)

That staff acquire and work with an external consultant to undertake a design masterplan for Sam Lawrence Park, to consider existing and future use and condition of the park specifically considering escarpment degradation and lifecycle of current infrastructure, to be funded in the amount of \$250,000 from Ward 7 Area Rating Reserve Account #108057 to the Sam Lawrence Park Project Id #4401656603.

11. Standardization of Hamilton Water Equipment, Parts, Supplies and Services (PW18058) (City Wide) (Item 8.5)

- (a) That the standardization of the products, services and suppliers identified in Appendices D, E and F to PW Report 18-010 pursuant to Procurement Policy #14 - Standardization be approved as the single source of supply for the listed equipment, parts, supplies and services for the Hamilton Water Division;
- (b) That the General Manager of Public Works, or his designate, be authorized to negotiate, enter into and execute any required Contract and any ancillary documents required to give effect thereto with those suppliers

identified in Appendices D, E and F with content acceptable to the General Manager of Public Works, and in a form satisfactory to the City Solicitor;

- (c) That the General Manager of Public Works, or his designate, be authorized, in the event that a supplier identified in Appendices D, E and F undergoes a name change, to amend any Contracts executed and any ancillary documents as required in a form satisfactory to the City Solicitor.

12. Extension of Senior Project Manager, Master Plan (PW18060) (City Wide) (Item 8.6)

- (a) That an extension to the temporary full-time Senior Project Manager, Master Plan position to end on or before June 2020, be approved;
- (b) That Hamilton Water staff work with Finance to have the Senior Project Manager, Master Plan staff charges be applied as development charges where applicable.

13. Waterfront (Bayfront) Trail Repair (PW18063) (City Wide) (Item 8.7)

- (a) That Environmental Services Division staff be directed to implement Phase 1 - short term Trail Remediation Measures to repair the asphalt pathway for the trail areas from Bayfront Park to the floating bridge in the amount of \$157,150 to be funded through the unallocated Capital Reserve #108020;
- (b) That Environmental Services Division staff be directed to implement Phase 1 – short term Trail Remediation Measures to dredge the channel at the Floating Bridge and repair the bridge, in the amount of \$125,000 to be funded through the unallocated Capital Reserve #108020;
- (c) That Environmental Services Division staff be directed to implement Phase 1 -Trail Remediation Measures to raise the asphalt pathway for the trail areas from Princess Point to the Fishway above the current water level, in the amount of \$154,000 to be funded through the unallocated Capital Reserve #108020;
- (d) That Environmental Services Division staff be directed to submit their report and recommendations on the implementation of Phase 2 - Shoreline Protection Measures for the Waterfront Trail from Bayfront Park to the floating bridge, as identified in part b) of the Public Works Committee Report 18-006, Item 10.1 relating to Emergency Shoreline Protection Works, as part of the 2019 Capital Budget process.

14. Capital Lifecycle Renewal – Strategic Renewal of Facilities (PW18065) (City Wide) (Item 8.8)

That Report PW18065 respecting Capital Lifecycle Renewal – Strategic Renewal of Facilities, be received.

15. Waiver of Park Rental Fees for the Dundas Driving Park for the Dundas Cactus Parade Staging Area (Added Item 10.1)

WHEREAS the Dundas Cactus Parade has been an integral part of the Dundas Cactus Festival Weekend in Dundas for the past 40 years;

WHEREAS the parade viewing is free and appeals to thousands of viewers from across the City of Hamilton;

WHEREAS the Dundas Driving Park has historically provided a safe and secure staging area for the parade lineup to be organized, positioned and deployed for the past 30 plus years;

WHEREAS there is no other location in Dundas where the parade can be assembled safely or securely;

WHEREAS the Dundas Driving Park has been closed to the public annually on the day of the parade for more than two decades;

WHEREAS, the Dundas Cactus Parade is organized entirely by volunteers with access to a minimal budget;

WHEREAS, the park rental fees, for the Dundas Cactus Parade, at the Dundas Driving Park, have recently increased from \$75.21 to \$848.99; and,

WHEREAS, the City of Hamilton would like to encourage broad community participation in the annual City-wide Dundas Cactus Parade;

THEREFORE, BE IT RESOLVED:

- (a) That Dundas Driving Park rental fees, in the amount of approximately \$750.00, be permanently waived for the Dundas Cactus Parade; and,
- (b) That the Dundas Driving Park remain closed annually, from 12:01 a.m. to 12 midnight, on the date of the Dundas Cactus Parade.

FOR INFORMATION:

(a) APPROVAL OF THE AGENDA (Item 1)

The Committee Clerk advised of the following changes to the agenda:

1. ADDED DELEGATION REQUEST (Item 4)

4.1 David Beland, Friends of Gage Park, respecting Item 8.9 on today's agenda about the Fallen Fire Fighters Memorial

2. ADDED NOTICE OF MOTION (Item 10)

10.1 Waiver of Park Rental Fees for the Dundas Driving Park for the Dundas Cactus Parade Staging Area

The Agenda for the July 12, 2018 meeting of the Public Works Committee was approved, as amended.

(b) DECLARATIONS OF INTEREST (Item 2)

There were no declarations of interest.

(c) APPROVAL OF MINUTES OF PREVIOUS MEETING (Item 3)

(i) June 18, 2018 (Item 3.1)

The Minutes of the June 18, 2018 Public Works Committee meeting were approved, as presented.

(d) DELEGATION REQUESTS (Item 4)

(i) David Beland, Friends of Gage Park, respecting the Fallen Fire Fighters Memorial (Added Item 4.1)

The delegation request from David Beland, Friends of Gage Park, respecting the Fallen Fire Fighters Memorial, was approved for today's meeting.

(e) CONSENT ITEMS (Item 5)

(i) Minutes of Various Advisory Committee (Item 5.1)

- (i) Hamilton Cycling Committee - February 7, 2018 (Item 5.1(a))**
- (ii) Hamilton Cycling Committee - March 7, 2018 (Item 5.1(b))**
- (iii) Glanbrook Landfill Coordinating Committee - March 26, 2018 (Item 5.1(c))**

Items 5.1(a) through 5.1(c) being Minutes of Various Advisory Committees, were received.

(f) PUBLIC HEARINGS / DELEGATIONS (Item 6)

(i) David Beland, Friends of Gage Park, respecting the Fallen Fire Fighters Memorial (Added Item 6.1)

Mr. David Beland, with the Friends of Gage Park, addressed the Committee respecting the Fallen Fire Fighters Memorial with the aid of speaking notes. A copy of the notes have been retained for the official record and are available through the Office of the City Clerk or on-line at www.hamilton.ca.

Mr. Beland informed the Committee that the Friends of Gage Park are in opposition to the memorial as planned. He explained that the unique character of the Dunnington-Grubb gardens must be considered. He requested that the plan be brought to Heritage Planning before proceeding.

The delegation from David Beland, Friends of Gage Park, respecting the Fallen Fire Fighters Memorial, was received.

Item 8.9 being Report PW18052 about the Fallen Fire Fighters Memorial was moved up in the agenda to be considered at this time.

Report PW18052 respecting the Fallen Fire Fighters Memorial was amended by adding sub-section (c) to read as follows:

- (c) That staff be directed to formally consult with the Friends of Gage Park in order to find a workable solution to address their concerns respecting the historical aspects and the continuity of the gardens in the construction of a Fallen Fire Fighters Memorial in Gage Park.

(ii) Correspondence from Nathan Shaw respecting the Hamilton Fallen Firefighter Memorial (Added Item 8.9(a))

The Correspondence from Nathan Shaw respecting the Hamilton Fallen Firefighter Memorial, was received.

For disposition of this matter, refer to Item 4.

(g) STAFF PRESENTATIONS (Item 7)

(i) Mountainbrow Trail Feasibility Study (PW18053) (Wards 6, 7, 8 and 9) (Item 7.1)

Ms. Cynthia Graham, Manager of Landscape Architectural Services, and Ms. Louise Thomassin, Landscape Architect, addressed the Committee about Report PW18053 respecting the Mountainbrow Trail Feasibility Study with the aid of a PowerPoint presentation.

A copy of the presentation has been retained for the official record and is available on-line at www.hamilton.ca

The presentation respecting the Mountainbrow Trail Feasibility Study, was received.

For disposition of this matter refer to Item 5.

(ii) Transit Complement Control Update (PW18057) (City Wide) (Item 7.2)

Ms. Debbie Dalle Vedove, Direct of Transit, addressed the Committee about Report PW18057 respecting an Update on the Transit Compliment Control with the aid of a PowerPoint presentation.

A copy of the presentation has been retained for the official record and is available on-line at www.hamilton.ca

The presentation respecting a Transit Complement Control Update, was received.

For disposition of this matter refer to Item 6.

(h) DISCUSSION ITEMS (Item 8)

(i) Hamilton Water Financial Plan (PW18051) (City Wide) (Item 8.1) (tabled at the June 18, 2018 meeting)

Report PW18051 respecting the Hamilton Water Financial Plan, was lifted from the table.

For disposition of this matter refer to Item 7.

(i) NOTICES OF MOTION (Item 10)

(i) Waiver of Park Rental Fees for the Dundas Driving Park for the Dundas Cactus Parade Staging Area (Added Item 10.1)

Councillor VanderBeek introduced a notice of motion respecting the Waiver of Park Rental Fees for the Dundas Driving Park for the Dundas Cactus Parade Staging Area.

The Rules of Order were waived to allow for the introduction of a motion respecting the Waiver of Park Rental Fees for the Dundas Driving Park for the Dundas Cactus Parade Staging Area.

For disposition of this matter refer to Item 15.

(j) GENERAL INFORMATION/OTHER BUSINESS (Item 11)

(i) Changes to the Outstanding Business List (Item 11.1)

(a) Items to be marked as completed and removed from the Outstanding Business List:

The following Items were marked as completed and removed from the Outstanding Business List:

Item Q – Self-Driving Buses (Item 5.4 of today's agenda)

Item R – Electric Buses (Item 5.3 of today's agenda)

Item T(b) – Emergency Shoreline Protection Works (Item 8.7 of today's agenda)

(ii) Update from the General Manager of Public Works (Added Item 11.2)

Dan McKinnon, General Manager of the Public Works Department, acknowledged Betty Matthews-Malone, Director of Roads and Traffic, as this was her last Committee meeting before her retirement.

Mr. McKinnon congratulated and thanked Brian Hughes, Manager of Capital Rehabilitation and Technical Operations, upon the occasion of his upcoming retirement and he also recognized Sam Sidawi, Manager of Asset Management, for his service to the City of Hamilton and wished him well in his new position in the Region of Peel.

(k) ADJOURNMENT (Item 13)

There being no further business, the Public Works Committee adjourned at 11:18 a.m.

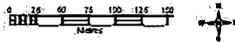
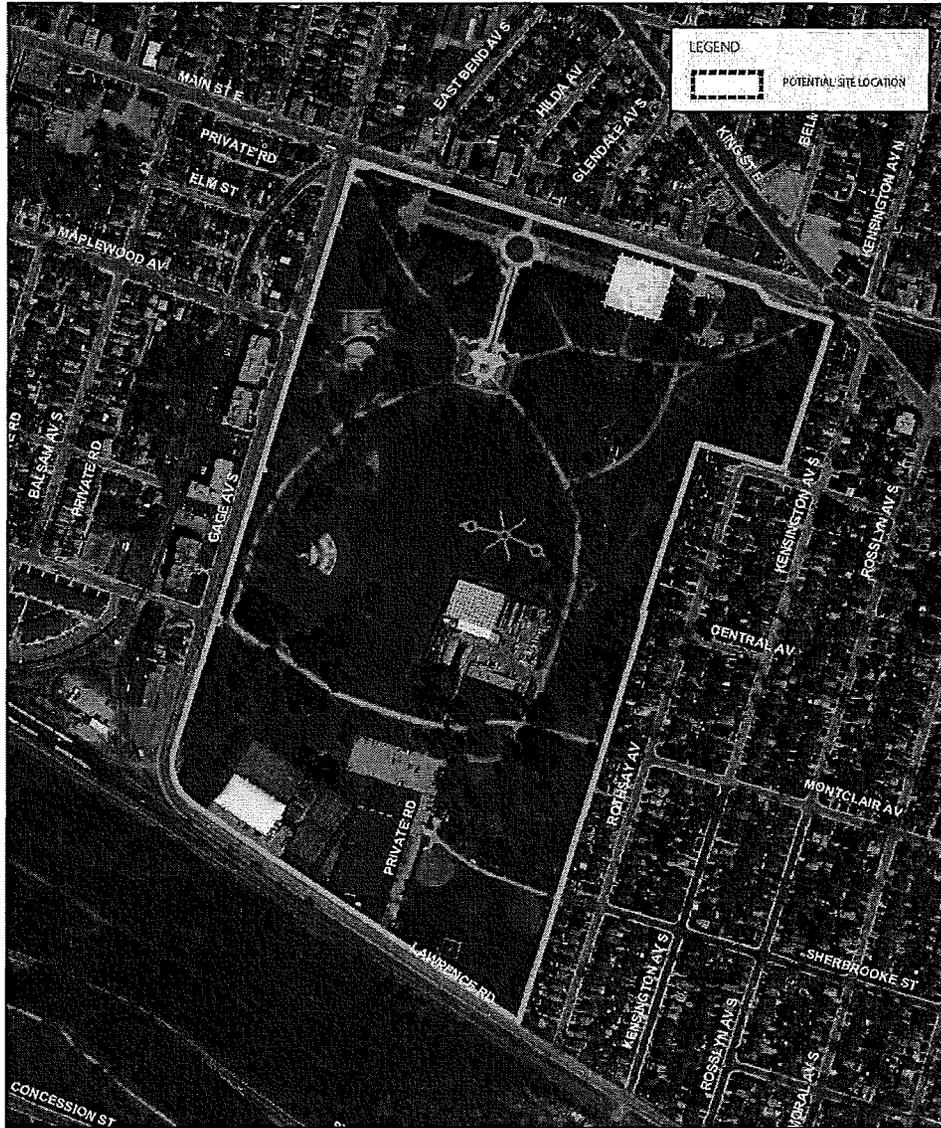
Respectfully submitted,

Councillor L. Ferguson, Chair
Public Works Committee

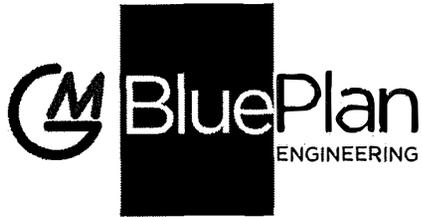
Lauri Leduc
Legislative Coordinator
Office of the City Clerk

Recommended Site Location at Gage Park

SITE SELECTION GAGE PARK



Prepared By:



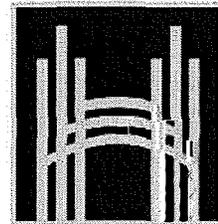
City of Hamilton

Hamilton Water Financial Plan:

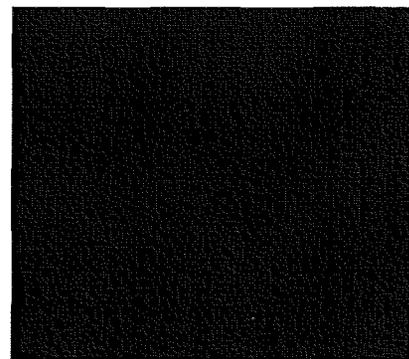
Interim Report of the 10 Year Water System Financial Plan
and Financial Statements

GMBP File: 617107

May 25, 2018



Hamilton



May 28, 2018
Our File: 717107

City of Hamilton
77 James Street North, Suite 400
Hamilton, ON, L8R 2K3

Attn: Mr. Bert Posedowski

Re: City of Hamilton – Water Financial Plan Development – Category 32

Dear Mr. Posedowski:

GM BluePlan Engineering Limited is pleased to submit the final draft of our interim report for the above noted project. The enclosed report describes the water system financial plan and financial statements as detailed under Regulation 453/07 - Financial Plans made under the Safe Drinking Water Act, 2002.

We appreciate the efforts of staff throughout the City of Hamilton over the course of this project.

Yours truly,

GM BLUEPLAN ENGINEERING LIMITED



Nick Larson, MEPP, P.Eng.

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1.0 Introduction

In 2017 GM BluePlan (GMBP) was retained by the City of Hamilton to prepare:

- 1) A 10 year Financial Plan with associated Financial Statements for the City of Hamilton's water system to support a regulatory compliance issue specific to the water licensing requirements defined within the Drinking Water Quality Management System (DWQMS) and more specifically detailed under *Regulation 453/07 - Financial Plans* made under the Safe Drinking Water Act, 2002 (SDWA).
- 2) Long Term Financial Plans for the water, wastewater and stormwater systems to support Asset Management (AM) processes in the City of Hamilton. The Long Term Financial Plans will provide a long range understanding of the revenues and expenditures that are required to achieve the City's desired levels of service (LOS) for the water, wastewater and stormwater systems. This understanding is a requirement of *Regulation 588/17 – Asset Management Planning for Municipal Infrastructure* made under the Infrastructure for Jobs and Prosperity Act, 2015. A short description of the practical differences between Regulation 437/07 and 588/17 is explained in Section 2.0 Background.

This interim report provides a Financial Plan and Financial Statements for the water systems to support the City's application for an updated drinking water license per *Regulation 453/07*. It also documents the approach and sources of information used to generate the Financial Statements. A subsequent report will be prepared at a later date when the Long Term Financial Plans for the water, wastewater and stormwater systems have been completed.

2.0 Background

Regulation 588/17 – Asset Management Planning for Municipal Infrastructure made under the Infrastructure for Jobs and Prosperity Act, 2015 was implemented on January 1, 2018. The new regulation will require municipalities to develop a strategic asset management policy by July 2019. The policy must include the process by which the asset management plan is to be considered in the development of the municipality's budget or of any long-term financial plans of the municipality that take into account municipal infrastructure assets. The policy must also outline actions that may be required to address the vulnerabilities that may be caused by climate change to the municipality's infrastructure assets, in respect of such matters as operations, such as increased maintenance schedules, levels of service, and lifecycle management.

A strategic asset management plan for core municipal assets must be developed by July 2021 and all other assets by July 2023. The regulation defines the core assets as water, wastewater, stormwater, roads, bridges and culverts. The 2021 asset management plan must include the current LOS and performance of each asset group and the cost to sustain the LOS. The asset management plan must include the proposed LOS and performance measures for a 10 year projection and the cost to achieve the proposed LOS by July 2024. In the case that the cost required to achieve proposed LOS is greater than the available funding, an explanation of how the municipality will manage the risks associated with not undertaking any of the lifecycle activities previously identified. The asset management plan must also include the financial plans related to the municipality's water assets including any financial plans prepared under the Safe Drinking Water Act, 2002.

Regulation 453/07 - Financial Plans made under the Safe Drinking Water Act, 2002 mandates that a Financial Plan be prepared in order to obtain a municipal drinking water license. The Financial Plan required as part of *Regulation 453/07* is represented as a series of financial statements for a minimum time period of 6 years.

The most significant practical differences between the Financial Plan mandated through *Regulation 453/07* and the financial planning that is required to support *Regulation 588/17* are summarized as follows:

- *Regulation 453/07* Financial Plans are not required to align with the current or desired LOS.
- *Regulation 453/07* Financial Plans are mandated to be manifested as a series of three financial statements. *Regulation 588/17* does require financial statements, but rather provides more flexibility to use financial planning processes to support the development of an asset management plan to achieve the desired LOS.

3.0 Approach

The approach to completing the 10 year Financial Plan and the development of the Financial Statements for the watersystem followed the methodology that was used to develop the previous two 10 year Financial Plans for the water system in 2009 and 2013. It aligns with the requirements outlined in *Regulation 453/07 - Financial Plans*, as summarized below:

- 1) Details of the proposed or projected financial position of the drinking water system itemized by,
 - a) total financial assets,

- b) total liabilities,
 - c) net debt,
 - d) non-financial assets that are tangible capital assets, tangible capital assets under construction, inventories of supplies and prepaid expenses, and
 - e) changes in tangible capital assets that are additions, donations, write downs and disposals.
- 2) Details of the proposed or projected financial operations of the drinking water system itemized by,
- a) total revenues, further itemized by water rates, user charges and other revenues,
 - b) total expenses, further itemized by amortization expenses, interest expenses and other expenses,
 - c) annual surplus or deficit, and
 - d) accumulated surplus or deficit.
- 3) Details of the drinking water system's proposed or projected gross cash receipts and gross cash payments itemized by,
- a) operating transactions that are cash received from revenues, cash paid for operating expenses and finance charges,
 - b) capital transactions that are proceeds on the sale of tangible capital assets and cash used to acquire capital assets,
 - c) investing transactions that are acquisitions and disposal of investments,
 - d) financing transactions that are proceeds from the issuance of debt and debt repayment,
 - e) changes in cash and cash equivalents during the year, and
 - f) cash and cash equivalents at the beginning and end of the year.
- 4) Details of the extent to which the information described in subparagraphs 1, 2 and 3 relates directly to the replacement of lead service pipes as defined in section 15.1- 3 of Schedule 15.1 to Ontario Regulation 170/03 (Drinking Water Systems), made under the Act.

3.1 Financial Plan Documentation

In accordance with SDWA regulations, the Financial Plan will be represented in the following Financial Statements:

1) *Statement of Financial Position (Balance Sheet)*

This statement highlights four key figures that describe the financial position of the City's water system at the reporting date, including the cash resources, net debt position, non-financial assets and accumulated surplus or deficit.

In support of this Statement of Financial Position, two additional statements were prepared. The financial statements listed below illustrate the change in one of these four key aspects of the water system's financial position.

2) *Statement of Operations (Income Statement)*

3) *Statement of Cash Flow*

These statements coincide with the Financial Plan requirements for water systems licensing based on the specific requirements of Section 4(iii) of Regulation 453/07. A further description of these statements are included in *Section 5 - Financial Statements* of this report.

A minimum reporting period of 6 years is required for the statements under the regulation. The information developed in this project includes these financial statements covering a period of 10 years. This is consistent with and supports the City's budget process which covers a 10 year period.

The report that will be submitted at a later date will document the Long Term Financial Plan that aligns with the forecasted infrastructure lifecycle expenditures needs (both capital and operating) to achieve the desired LOS of the systems. The Long Term Financial Plans for water, wastewater, and stormwater systems will assist Hamilton in long-term, strategic planning to move to a sustainable funding program for the financing of its infrastructure. The approach to the analysis is not summarized in this interim report.

4.0 Sources of Information

The City's financial data and business processes were reviewed by members of the consulting team to determine the availability of information required to develop the 10 year Financial Plan and the Financial Statements. City staff were engaged throughout the project to inform any assumptions or interpretation of data required to develop the 10 year Financial Plan and Financial Statements.

The major assumptions that were made include:

- Fixed and variable water rate increases of 4.5% per annum.
- Operating expenditures increases of 3% per annum.
- Water use efficiency would increase at the same rate of population increase resulting in no increase to total water demand.
- Demand for ICI customers was determined from 2018 revenue.
- The City provided the loan repayment schedule on existing loans. New loans followed the same rules regarding serviceability of debt.

Table 1 summarizes the information that was used to generate the 10 year Financial Plan for the water system.

Table 1: Information sources used to develop the financial statements.

Input	Source of Data
Base Financial Data	<ul style="list-style-type: none"> • 2018 5 Year Actuals vs Budget spreadsheet • 2018 Rate Budget Book
Current Demands and Future Demand Estimates	<ul style="list-style-type: none"> • DC Report and Bylaws for population forecast • 2018 Rate Budget Book for water consumption demand
Water Rates	<ul style="list-style-type: none"> • 2018 Rate Budget Book for the fixed and volumetric rates
Revenues	<ul style="list-style-type: none"> • 2018 Rate Budget Book for the non-metered revenues
Operations and Maintenance Costs	<ul style="list-style-type: none"> • 2018 Rate Budget Book for the operating expenses • 2018 5 Year Actuals vs Budget spreadsheet
Development Charges Information	<ul style="list-style-type: none"> • DC Report and Bylaws • 2018 Rates DC Reserve Forecast spreadsheet
Capital Plan	<ul style="list-style-type: none"> • 2018 Rate Budget Book
Amortization Data	<ul style="list-style-type: none"> • 2017 TCA Information
Project Funding Sources	<ul style="list-style-type: none"> • 2018 Rate Budget Book
Debt Service Information	<ul style="list-style-type: none"> • Debtrow 53-159 Existing Outstanding Future Forecast spreadsheet • 2018 External Debt 2017 Budget Forecast spreadsheet

5.0 Financial Statements

This section describes and presents the three Financial Statements that comprise the 10 year Financial Plan for the water system.

The Financial Position statement highlights four key figures that describe the financial position of the water system at the reporting date.

- The cash resources are cash and cash equivalents.
- The net debt position is calculated as the difference between liabilities and financial assets.
- The non-financial assets are assets that are, by nature, normally for use in service provision and include purchased, constructed, developed or leased tangible capital assets, inventories of supplies and prepaid expenses.
- The accumulated surplus or deficit is calculated as the sum of the net debt and non-financial assets. This indicator represents the net assets of the water system.

The two remaining statements illustrates the change in one of these aspects of the water system's financial position.

- The *statement of operations* reports the surplus or deficit from operations in the accounting period. The statement displays the cost of water services provided in the period, the revenues recognized in the period and the difference between them. It measures, in monetary terms, the extent to which an organization has maintained its net assets in the period.
- The *statement of cash flow* reports the change in cash and cash

equivalents in the accounting period, and how the water system financed its activities in the period and met its cash requirements.

The following financial statements representing the 10 year Financial Plan for the Water System are included below:

- 1) Statement of Financial Position
- 2) Statement of Operations
- 3) Statement of Cash Flow

In addition a Glossary of Terms follows the Financial Statements providing further explanations of the meaning and interpretation of specific categories or line item terms in the statements. These should be read in conjunction with the respective statements.

1. Statement of Financial Position for the Water System

City of Hamilton - Water Infrastructure Statement
of Financial Position
As at December 31 (in thousands of dollars)

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>
Financial Assets										
Cash and cash equivalents	\$199,264	\$189,878	\$189,112	\$181,083	\$194,835	\$195,988	\$208,981	\$190,672	\$209,766	\$205,031
Accounts receivable - rate revenues	\$8,015	\$8,376	\$8,753	\$9,147	\$9,558	\$9,988	\$10,438	\$10,907	\$11,398	\$11,911
Accounts receivable - other revenue sources	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Investments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$207,279	\$198,254	\$197,865	\$190,229	\$204,393	\$205,976	\$219,419	\$201,580	\$221,164	\$216,942
Liabilities										
Accounts payable - wages	\$630	\$648	\$668	\$688	\$709	\$730	\$752	\$774	\$797	\$821
Accounts payable - other payables	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DC reserve (Deferred revenue)	\$23,419	\$17,832	\$1,704	\$2,007	\$6,520	\$17,038	\$23,499	\$11,001	\$9,231	\$6,426
Short term debt	\$8,433	\$12,745	\$17,306	\$9,052	\$16,420	\$8,868	\$9,374	\$9,898	\$27,952	\$8,824
Long term debt	\$53,847	\$62,686	\$72,487	\$71,342	\$68,051	\$59,202	\$56,971	\$54,216	\$51,715	\$54,254
Total	\$86,328	\$93,912	\$92,164	\$83,090	\$91,701	\$85,837	\$90,596	\$75,889	\$89,696	\$70,325
Net Financial Assets (Liabilities)	\$120,951	\$104,342	\$105,701	\$107,139	\$112,692	\$120,139	\$128,823	\$125,691	\$131,468	\$146,616
Non-financial Assets										
Tangible capital assets										
TCA used in production	\$776,581	\$846,992	\$948,681	\$1,007,832	\$1,065,738	\$1,118,990	\$1,187,512	\$1,281,163	\$1,363,728	\$1,456,337
Work in progress	\$34,533	\$46,480	\$25,961	\$35,303	\$36,632	\$38,757	\$32,645	\$36,576	\$36,235	\$21,875
Less accumulated amortization	-\$365,327	-\$392,201	-\$420,996	-\$450,990	-\$481,893	-\$513,541	-\$546,451	-\$580,830	-\$616,570	-\$654,096
Total TCA	\$445,787	\$501,270	\$553,646	\$592,145	\$620,477	\$644,206	\$673,706	\$736,909	\$783,393	\$824,116
Inventories of supplies	\$1,203	\$1,239	\$1,276	\$1,315	\$1,354	\$1,395	\$1,436	\$1,480	\$1,524	\$1,570
Prepaid expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$446,990	\$502,510	\$554,923	\$593,459	\$621,831	\$645,601	\$675,143	\$738,388	\$784,917	\$825,686
Accumulated Surplus	\$567,941	\$606,851	\$660,623	\$700,598	\$734,524	\$765,739	\$803,966	\$864,079	\$916,385	\$972,302

2. Statement of Operations for the Water System

City of Hamilton - Water Infrastructure Statement
of Financial Position
As at December 31 (in thousands of dollars)

	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>
Revenues										
Rate revenues	\$96,181	\$100,509	\$105,032	\$109,758	\$114,697	\$119,859	\$125,253	\$130,889	\$136,779	\$142,934
Less provision for bad debt	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Interest earned on cash and cash equivalents	\$2,000	\$1,993	\$1,899	\$1,891	\$1,811	\$1,948	\$1,960	\$2,090	\$1,907	\$2,098
Earned DC revenue	\$9,752	\$16,078	\$30,319	\$13,089	\$4,094	\$818	\$5,207	\$24,509	\$14,133	\$15,530
Other revenues	\$6,617	\$6,740	\$6,999	\$7,184	\$7,431	\$7,620	\$7,823	\$8,054	\$8,266	\$8,507
Total Revenues	\$114,550	\$125,320	\$144,249	\$131,923	\$128,034	\$130,245	\$140,243	\$165,542	\$161,085	\$169,068
Operating Expenses										
Total EMPLOYEE RELATED COST	\$15,109	\$15,562	\$16,029	\$16,510	\$17,005	\$17,515	\$18,041	\$18,582	\$19,140	\$19,714
Total MATERIAL AND SUPPLY	\$4,812	\$4,956	\$5,105	\$5,258	\$5,416	\$5,578	\$5,746	\$5,918	\$6,096	\$6,279
Total VEHICLE EXPENSES	\$513	\$528	\$544	\$561	\$577	\$595	\$613	\$631	\$650	\$669
Total BUILDING AND GROUND	\$6,840	\$7,045	\$7,257	\$7,475	\$7,699	\$7,930	\$8,168	\$8,413	\$8,665	\$8,925
Total CONSULTING	\$13	\$13	\$13	\$14	\$14	\$15	\$15	\$15	\$16	\$16
Total CONTRACTUAL	\$12,135	\$12,499	\$12,874	\$13,260	\$13,658	\$14,067	\$14,489	\$14,924	\$15,372	\$15,833
Total AGENCIES and SUPPORT PAYMENTS	\$62	\$64	\$66	\$68	\$70	\$72	\$75	\$77	\$79	\$81
Total RESERVES / RECOVERIES	\$5,724	\$5,895	\$6,072	\$6,254	\$6,442	\$6,635	\$6,834	\$7,039	\$7,250	\$7,468
Total COST ALLOCATIONS	\$9,130	\$9,404	\$9,686	\$9,977	\$10,276	\$10,585	\$10,902	\$11,229	\$11,566	\$11,913
Total FINANCIAL	\$1,125	\$1,158	\$1,193	\$1,229	\$1,266	\$1,304	\$1,343	\$1,383	\$1,425	\$1,467
Total Operating Expenses	\$55,463	\$57,126	\$58,840	\$60,605	\$62,424	\$64,296	\$66,225	\$68,212	\$70,258	\$72,366
Net Operating Revenue	\$59,087	\$68,194	\$85,408	\$71,317	\$65,610	\$65,948	\$74,017	\$97,330	\$90,826	\$96,702
Less amortization of tangible assets	-\$25,527	-\$26,875	-\$28,794	-\$29,995	-\$30,902	-\$31,648	-\$32,910	-\$34,379	-\$35,740	-\$37,526
Earnings Before Interest	\$33,561	\$41,319	\$56,614	\$41,323	\$34,708	\$34,300	\$41,107	\$62,951	\$55,086	\$59,176
Less Interest on short term debt	\$0	\$0	-\$16	-\$209	-\$17	-\$179	\$0	\$0	\$0	-\$408
Less Interest on long term debt	-\$2,020	-\$2,409	-\$2,826	-\$2,842	-\$2,773	-\$2,518	-\$2,502	-\$2,468	-\$2,420	-\$2,498
Annual Surplus (Deficit)	\$31,540	\$38,910	\$53,772	\$38,271	\$31,918	\$31,603	\$38,605	\$60,483	\$52,667	\$56,270
Accumulated Surplus at beginning of year	\$536,401	\$567,941	\$606,851	\$662,327	\$702,606	\$734,136	\$765,361	\$803,596	\$863,718	\$916,032
Accumulated Surplus at end of year	\$567,941	\$606,851	\$660,623	\$700,598	\$734,524	\$765,739	\$803,966	\$864,079	\$916,385	\$972,302

3. Statement of Cash Flow for the Water System

City of Hamilton - Water Infrastructure Statement
of Financial Position
As at December 31 (in thousands of dollars)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Cash from Operations										
Earnings before interest expenses	\$33,561	\$41,319	\$56,614	\$41,323	\$34,708	\$34,300	\$41,107	\$62,951	\$55,086	\$59,176
Plus amortization of tangible capital assets	\$25,527	\$26,875	\$28,794	\$29,995	\$30,902	\$31,648	\$32,910	\$34,379	\$35,740	\$37,526
Total	\$59,087	\$68,194	\$85,408	\$71,317	\$65,610	\$65,948	\$74,017	\$97,330	\$90,826	\$96,702
Cash from the Movement of Balance Sheet Account										
A accounts payable - increase/(decrease)	\$0	\$19	\$19	\$20	\$21	\$21	\$22	\$23	\$23	\$24
Pensions and other employee benefits - increase/(decrease)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DC reserve - increase/(decrease)	\$456	-\$5,587	-\$17,832	\$0	\$6,908	\$10,508	\$6,453	-\$12,507	-\$1,779	-\$2,814
A accounts receivable - (increase)/decrease	-\$197	-\$361	-\$377	-\$394	-\$412	-\$430	-\$449	-\$470	-\$491	-\$513
Inventory - (increase)/decrease	\$0	-\$36	-\$37	-\$38	-\$39	-\$41	-\$42	-\$43	-\$44	-\$46
Prepaid expenses - (increase)/decrease	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$260	-\$5,965	-\$18,227	-\$412	\$6,477	\$10,059	\$5,983	-\$12,997	-\$2,291	-\$3,349
Proceeds of New Debt										
Short term loans	\$11,392	\$14,956	\$20,829	\$765	\$10,146	\$0	\$0	\$0	\$18,309	\$0
DC debt	\$0	\$0	\$1,704	\$2,179	\$0	\$0	\$0	\$0	\$0	\$0
Long term loans	\$12,176	\$16,301	\$17,720	\$7,143	\$5,100	\$18	\$7,143	\$7,143	\$7,143	\$11,363
Total	\$23,568	\$31,257	\$40,253	\$10,087	\$15,246	\$18	\$7,143	\$7,143	\$25,451	\$11,363
Capital Finance										
Interest costs	-\$2,020	-\$2,409	-\$2,842	-\$3,052	-\$2,790	-\$2,697	-\$2,502	-\$2,468	-\$2,420	-\$2,906
Repayment of short-term debt	-\$9,446	-\$11,618	-\$16,726	-\$9,386	-\$2,882	-\$8,030	\$0	\$0	\$0	-\$18,309
Repayment of DC debt	\$0	\$0	\$0	-\$172	-\$387	-\$379	-\$370	-\$361	-\$352	-\$343
Repayment of long-term debt	-\$5,615	-\$6,486	-\$7,462	-\$7,920	-\$8,287	-\$8,390	-\$8,868	-\$9,374	-\$9,898	-\$9,643
Total	-\$17,081	-\$20,514	-\$27,030	-\$20,529	-\$14,346	-\$19,496	-\$11,740	-\$12,203	-\$12,669	-\$31,202
Acquisition of Tangible Capital Assets										
New project investments	-\$66,570	-\$82,358	-\$81,170	-\$68,493	-\$59,235	-\$55,377	-\$62,410	-\$97,582	-\$82,224	-\$78,249
Total	-\$66,570	-\$82,358	-\$81,170	-\$68,493	-\$59,235	-\$55,377	-\$62,410	-\$97,582	-\$82,224	-\$78,249
Cash Surplus (Deficit)	-\$736	-\$9,386	-\$765	-\$8,030	\$13,752	\$1,153	\$12,993	-\$18,309	\$19,093	-\$4,735
Cash and cash equivalents, start of year	\$200,000	\$199,264	\$189,878	\$189,112	\$181,083	\$194,835	\$195,988	\$208,981	\$190,672	\$209,766
Cash and cash equivalents, end of year	\$199,264	\$189,878	\$189,112	\$181,083	\$194,835	\$195,988	\$208,981	\$190,672	\$209,766	\$205,031

6.0 Summary and Conclusions

The intent of this interim report was to provide a Financial Plan for the City's water system to meet the regulatory requirement under the Safe Drinking Water Act, Regulation 453/07 - Financial Plans. The Financial Statements in this report have been developed using readily available information. Where information was not available reasonable assumptions were made to fill any gaps.

The Financial Statements indicate that suitable financial resources are allocated to the system over the next 10 years based on the planned capital expenditures and the cost to operate the system.

The next phase of this project will be to develop Long Term Financial Plans for the water, wastewater and stormwater systems. The Long Term Financial Plans will support a long term understanding of the revenues and expenditures that are required to achieve the City's desired LOS for the water, wastewater and stormwater systems.

The preliminary review of the long term infrastructure expenditure needs indicates that the capital expenditures that are required to maintain the current LOS provided by the systems are significantly higher than the current level of planned capital expenditures. The Long Term Financial Plan will be used to understand the revenues that would be required to fund the capital expenditures to both maintain current LOS and achieve the desired LOS. The Long Term Financial Plan will also examine options for collecting revenues.

Additional conclusions will be able to be drawn after the development of the Long Term Financial Plan.

7.0 Glossary of Terms

7.1 Statement of Financial Position

Financial Assets - assets that could be used to discharge existing liabilities or finance future operations and are not for consumption in the normal course of operations. Financial assets include cash, investments, accounts receivable, etc.

Physical assets (such as inventories of supplies, tangible capital assets), and leased assets are not financial assets. Control of such assets creates an opportunity to produce or supply goods and services, rent to others, use for administrative purposes or for the development, construction or repair of other tangible capital assets. Control of such assets does not give rise to a present right to receive cash or another financial asset.

Assets, such as prepaid expenses, for which the future economic benefit is the receipt of goods or services rather than the right to receive cash or another financial asset, are not financial assets. Similarly, certain deferred liabilities are not financial liabilities when the outflow of economic benefits associated with them is in the nature of goods or services rather than a contractual obligation to pay cash or another financial asset.

Liabilities - present obligations of a local government to others arising from past transactions or events, the settlement of which is expected to result in the future sacrifice of economic benefits. Liabilities have three essential characteristics:

- They embody a duty or responsibility to others, leaving a local government little or no discretion to avoid settlement of the obligation;
- The duty or responsibility to others entails settlement by future transfer or use of assets, provision of goods or services, or other form of economic

settlement at a specified or determinable date, on occurrence of a specified event, or on demand;

- The transactions or events obligating the local government have already occurred.

Net Debt - a term used to describe the first indicator of a government's financial position. The net assets of a government represent the net economic resources recognizable by the government. The two dimensions of the government's financial position are combined to calculate this second indicator of a government's financial position, called its accumulated surplus or deficit.

Net debt is measured as the difference between a government's liabilities and financial assets. This difference bears directly on the government's future revenue requirements and on its ability to finance its activities and meet its liabilities and contractual obligations. Net debt provides a measure of the future revenues required to pay for past transactions and events. The extent of a government's net debt and the financial ability of the government to service that debt is an important test of the sustainability of that government. It is possible, however, that a government's financial assets could exceed its liabilities. In such circumstances, this indicator of a government's financial position would be called "net financial resources" and it would provide a measure of the net financial assets on hand that can provide resources to finance future operations.

A government's net debt is an important indicator of a government's financial position, highlighting the financial affordability of future government service provision. A net debt position represents a "lien" on the ability of the government to apply financial resources and future revenues to provide services. Non-financial assets are added to net debt to calculate the other indicator of a government's financial position — its accumulated surplus or deficit. Non-financial

assets are "prepaid service potential". Reporting a government's recognized non-financial resources as part of its financial position provides information necessary for a more complete understanding of a government's debt position, financial position and future operating requirements.

Non-financial Assets - tangible capital assets and other assets such as prepaid expenses and inventories of supplies. Non-financial assets are acquired, constructed or developed assets that are normally employed to deliver local government services, may be consumed in the normal course of operations and are not for sale in the normal course of operations.

Certain non-financial resources are, however, not given accounting recognition in government financial statements. For example, all government intangibles, and all natural resources and Crown lands that have not been purchased by the government, are not given accounting recognition in government financial statements.

Accumulated Surplus or Deficit - calculated as the sum of the net debt of the government and its non-financial assets. This indicator represents the net assets of the government. The accumulated surplus or deficit of a government, or its net assets, is the residual interest in its assets after deducting its liabilities.

7.2 Statement of Operations

Revenues - including gains, can arise from: taxation; the sale of goods; the rendering of services; the use by others of local government economic resources yielding rent, interest, royalties or dividends; or receipt of contributions such as grants, donations and bequests. Revenues do not include borrowings, such as proceeds from debt issues or transfers from other local governmental units in a local government reporting entity.

Expenses - including losses, are decreases in economic resources, either by way of outflows or reductions of assets or incurrance of liabilities, resulting from the operations, transactions and events of the accounting period. Expenses include transfer payments due where no value is received directly in return. Expenses include the cost of economic resources consumed in, and identifiable with, the operations of the accounting period. For example, the cost of tangible capital assets is amortized to expenses as the assets are used in delivering local government programs. Expenses do not include debt repayments or transfers to other local governmental units in a local government reporting entity.

Surplus - a term used to describe the difference between the revenues and expenses in the period.

7.3 Statement of Cash Flows

The statement of cash flow should report how a government generated and used cash and cash equivalents in the accounting period and the change in cash and cash equivalents in the period. The statement of cash flow should report the cash and cash equivalents at both the beginning and end of the accounting period.

The statement of cash flow should report cash flows during the period classified by:

- Operating
- Capital
- Investing
- Financing activities

Public Transit Infrastructure Fund Financial Summary

PTIF Project Description	Project ID	Account	Pre-appropriation (FCS16083)	Appropriation Out	Appropriation In	Post-appropriation
Transit Maintenance & Storage Facility	5301785701	42001 - Federal Grant	\$ 14,325,000	-\$3,325,000		\$ 11,000,000
		48475 - DC Res DevChrg Cap	\$ 4,942,000			\$ 4,942,000
		48476 - DC Non Res DevChrg Cap	\$ 2,220,000			\$ 2,220,000
		49002- Debenture Proceeds	\$ 7,163,000	-\$3,325,000		\$ 3,838,000
		Total Project Budget:	\$ 28,650,000	-\$6,650,000	\$ -	\$ 22,000,000
Automated Passenger Counters	5301784710	42001 - Federal Grant	\$ 2,150,000	-\$1,050,000		\$ 1,100,000
		49002- Debenture Proceeds	\$ 2,150,000	-\$1,050,000		\$ 1,100,000
		Total Project Budget:	\$ 4,300,000	-\$2,100,000	\$ -	\$ 2,200,000
Transit Priority Measures	5301755700	42001 - Federal Grant	\$ 1,925,000	-\$1,175,000		\$ 750,000
		49002- Debenture Proceeds	\$ 1,925,000	-\$1,175,000		\$ 750,000
		Total Project Budget:	\$ 3,850,000	-\$2,350,000	\$ -	\$ 1,500,000
HVAC Upgrades - 2200 Upper James	5301751701	42001 - Federal Grant	\$ 1,100,000	-\$775,000		\$ 325,000
		49002- Debenture Proceeds	\$ 1,100,000	-\$775,000		\$ 325,000
		Total Project Budget:	\$ 2,200,000	-\$1,550,000	\$ -	\$ 650,000
Transit Capital Infrastructure	5301749701	42001 - Federal Grant	\$ 1,650,000		\$ 1,350,000	\$ 3,000,000
		49002- Debenture Proceeds	\$ 1,650,000		\$ 1,350,000	\$ 3,000,000
		Total Project Budget:	\$ 3,300,000		\$ 2,700,000	\$ 6,000,000
Replace Transit Fleet Bus Hoists	5301751500	42001 - Federal Grant	\$ 1,513,000		\$ 2,000,000	\$ 3,513,000
		49002- Debenture Proceeds	\$ 1,512,000		\$ 2,000,000	\$ 3,512,000
		Total Project Budget:	\$ 3,025,000	\$ -	\$ 4,000,000	\$ 7,025,000
Customer Service Software	5301785708	42001 - Federal Grant	\$ 803,000		\$ 397,000	\$ 1,200,000
		49002- Debenture Proceeds	\$ 802,000		\$ 398,000	\$ 1,200,000
		Total Project Budget:	\$ 1,605,000	\$ -	\$ 795,000	\$ 2,400,000
Transit Network Review	5301884801	42001 - Federal Grant	\$ -		\$ 400,000	\$ 400,000
		49002- Debenture Proceeds	\$ -		\$ 400,000	\$ 400,000
		Total Project Budget:	\$ -	\$ -	\$ 800,000	\$ 800,000
Exterior Upgrades to MTC	5301885801	42001 - Federal Grant	\$ -		\$ 1,950,000	\$ 1,950,000
		49002- Debenture Proceeds	\$ -		\$ 1,950,000	\$ 1,950,000
		Total Project Budget:	\$ -	\$ -	\$ 3,900,000	\$ 3,900,000
Upgrade Operator Seats	5301885802	42001 - Federal Grant	\$ -		\$ 228,000	\$ 228,000
		49002- Debenture Proceeds	\$ -		\$ 227,000	\$ 227,000
		Total Project Budget:	\$ -	\$ -	\$ 455,000	\$ 455,000
Fleet expansion as per Ten Year Local Transit Strategy, 2017 (5) and 2018 (11) fleet including modal split.	5301783700	42001 - Federal Grant	\$ 5,190,000			\$ 5,190,000
		49002- Debenture Proceeds	\$ 5,190,000			\$ 5,190,000
		Total Project Budget:	\$ 10,380,000	\$ -	\$ -	\$ 10,380,000
Transit shelter and bus stop rehabilitation and replacement.	5301785602	42001 - Federal Grant	\$ 3,522,000			\$ 3,522,000
		49002- Debenture Proceeds	\$ 3,521,000			\$ 3,521,000
		Total Project Budget:	\$ 7,043,000	\$ -	\$ -	\$ 7,043,000
Sustainable transportation/transit connections - installation of sidewalks and landing pads on Rymal Road East	5301785704	42001 - Federal Grant	\$ 1,513,000			\$ 1,513,000
		49002- Debenture Proceeds	\$ 1,512,000			\$ 1,512,000
		Total Project Budget:	\$ 3,025,000	\$ -	\$ -	\$ 3,025,000
Radio system replacement - switch from analogue to digital	5301784700	42001 - Federal Grant	\$ 1,500,000			\$ 1,500,000
		49002- Debenture Proceeds	\$ 1,500,000			\$ 1,500,000
		Total Project Budget:	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000
Garage Door Replacement (32) at Mountain Transit Centre	5301749700	42001 - Federal Grant	\$ 660,000			\$ 660,000
		49002- Debenture Proceeds	\$ 660,000			\$ 660,000
		Total Project Budget:	\$ 1,320,000	\$ -	\$ -	\$ 1,320,000
New wash racks at Mountain Transit Centre	5301785700	42001 - Federal Grant	\$ 440,000			\$ 440,000
		49002- Debenture Proceeds	\$ 440,000			\$ 440,000
		Total Project Budget:	\$ 880,000	\$ -	\$ -	\$ 880,000
Support fleet - 10 vehicles to accommodate growth	5301783701	42001 - Federal Grant	\$ 200,000			\$ 200,000
		49002- Debenture Proceeds	\$ 200,000			\$ 200,000
		Total Project Budget:	\$ 400,000	\$ -	\$ -	\$ 400,000
Total			\$ 72,978,000	-\$ 12,650,000	\$ 12,650,000	\$ 72,978,000

42001 - Federal Grant	-\$6,325,000	\$ 6,325,000
49002- Debenture Proceeds	-\$6,325,000	\$ 6,325,000
	<u>-\$12,650,000</u>	<u>\$12,650,000</u>

Parts, Supplies, Equipment and Services for the
City of Hamilton Environmental Laboratory

Services	Account #	Dept Id.	Est. Annual \$ 2018	Annual \$ 2017	Annual \$ 2016	Annual \$ 2015
The Makeup Air Unit (Engineered Air) is the sole unit that provides exhaust for all laboratory chemical hoods. Airon has been providing this service and now has an intimate history of the needs and complexity until a replacement unit can be provided under separate contract.	55916	510310	\$ 60,000.00	\$ 58,612.00	\$ 50,000.00	\$ 45,000.00
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 9,300.00	\$ 9,300.00	\$ 10,150.00	\$ 7,900.00
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 22,000.00	\$ 16,666.49	\$ 21,720.50	\$ 14,347.24
	54920	510250	\$ 54,000.00	\$ 49,944.00	\$ 58,648.77	\$ 49,701.34
On site ISO 17025 Laboratory Assessments and Provider of specialized standards utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53132	510250	\$ 25,000.00	\$ 22,400.00	\$ 22,617.03	\$ 18,555.00
Provider of specialized standards and consumables utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53051	510250	\$ 25,000.00	\$ 19,324.04	\$ 24,155.75	\$ 11,317.20
Provider of OEM parts, supplies and service for equipment utilized by the Environmental Laboratory	53051	510250	\$35,000.00	NA	NA	NA
Providing on-site calibration services for the laboratory certified thermometers and digesters	54920	510250	\$ 6,024.00	\$ 5,694.00	\$ 5,331.00	\$ 5,592.00
Maintenance and Upgrades to laboratory information management system (LIMS) database	53251	5161669075	\$ 16,000.00	\$ 15,922.00	\$ 21,002.87	\$ 18,629.16
	54920	5161669075	\$ 30,000.00	\$ 8,487.00	\$ 14,090.00	\$ 14,090.00
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 7,500.00	\$ 5,625.00	\$ 6,948.50	\$ 4,206.00
	54920	510250	\$ 13,000.00	\$ 12,056.00	\$ 11,705.40	\$ 10,963.50
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 12,500.00	\$ 11,482.16	\$ 9,036.16	\$ 10,312.44
	54920	510250	\$ 3,210.20	\$ 3,210.20	\$ 1,689.00	\$ 922.00
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 2,500.00	\$ -	\$ 2,580.00	\$ 35.00
Provider of analytical testing services for the Environmental Laboratory's surplus analysis	55916	510250	\$ 60,000.00	\$ 109,074.00	\$ 52,434.50	\$ 96,284.50
Provider of specialized standards utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53051	510250	\$ 13,000.00	\$ 12,894.50	\$ 11,075.20	\$ 11,127.70
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 12,000.00	\$ 8,000.00	\$ 10,953.20	\$ 10,166.00
	54920	510250	\$ 8,500.00	\$ 7,795.00	\$ 7,295.00	\$ 6,995.00
Provider of pre-cleaned, pre-labelled Laboratory Bottles for all analytical analysis including regulatory drinking water	53051	510250	\$ 45,000.00	\$ 44,404.30	\$ 41,582.93	\$ 42,476.17
OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 18,000.00	\$ 14,689.40	\$ 14,896.80	\$ 16,533.26
	54920	510250	\$ 12,000.00	\$ 11,150.84	\$ 9,545.00	\$ 11,964.22
Provider of specialized standards utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53132	510250	\$ 23,342.00	\$ 23,342.00	\$ 20,679.45	\$ 20,803.48
			\$ 512,876.20	\$ 470,072.93	\$ 428,137.06	\$ 427,921.21

USD

Parts, Supplies, Equipment and Services for the
Plant Operations and Plant Maintenance and Technical Services

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID	Est. Annual \$ 2016	Annual Spent 2017	Annual Spent 2018	Annual Spent 2019
H2 FLOW EQUIPMENT INC.		x	x	OEM support and supplies for Trojan Ultra-Violet (UV) disinfection units & Digester mixer equipment	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 3,457.61	\$ 25,768.75	\$ 2,531.20	\$ -
Dulvo Trojan Technologies	x x	x x	x x								
HACH SALES & SERVICE LP	x	x	x	OEM support and supplies for Hach equipment.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	54720	\$ 31,276.93	\$ 89,869.32	\$ 72,381.32	\$ 1,231.60
INDACHEM INC			x	Polyblend Polymer systems, including pumps, mixers, drives, controllers, etc. ORP, Strantrol Analyzers and Chemical Feed/mixing systems.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ 24,689.54	\$ 27,939.54
UGSI Chemical Feed, Inc	x										
JOHN BROOKS COMPANY LIMITED		x	x	Gorman Rupp Pumps and Vaughan Pumps, low lift trash Pump, digester pumps, digester recirculation pumps, scum pumps, Seapex Pumping Systems, including pumps, motors, drives, etc.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	53051	\$ 86,887.35	\$ -	\$ 69,112.47	\$ -
Gorman Rupp Seapex Vaughan Pumps	x x x										
JSM CONTROLS INC			x	Gas Chlorination System	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 6000	510320	\$ -	\$ 132,000.29	\$ 28,227.71	\$ -
KSB PUMPS INC. (CANADA)	x		x	KSB process systems, including pumps, mixers, drives, controllers, etc. and other miscellaneous equipment and parts for these VSR systems.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ -	\$ 1,374.10
LAKESIDE PROCESS CONTROLS LTD		x	x	Emerson Rosemount Analyzers used in numerous processes throughout the water treatment facilities.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ 19,189.45	
Emerson	x										
LANDMARK MUNICIPAL SERVICES ULC (LMS)		x		Municipal Water Towers, structural inspections	Provide all Labour, Equipment and Materials to maintain potable water towers	53051	510320	\$ 9,300.00	\$ 9,361.05	\$ 8,500.00	\$ 9,150.00
LOTOWATER TECHNICAL SERVICES INC		x		Potable water wells assessment, maintenance and repair	OEM spare parts, equipment and services for the potable water wells maintenance and associated equipment utilized by Plant Operations.	54720	510320	\$ -	\$ 33,178.69	\$ 33,342.60	\$ -
METCON SALES & ENGINEERING LIMITED			x	ABB Flow Meters, Turbidity Meters (including analyzers, switches, valves and other associated equipment and components). Peristaltic Metering pumps	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 43,104.81	\$ 61,045.42	\$ 37,022.36	\$ -
ABB Prominent	x x			Prominent Chlorine monitors and analyzers							
NATIONAL PROCESS EQUIPMENT		x	x	Charlotte America bladder vessels Fairbank pumps, van chopper pumps, Penlair Aurora products	OEM parts and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ -	\$ -
Charlotte America	x										
Nedco			x	Schneider Electric control equipment & switchgear. Schneider Electric encompasses the following brands: Square D, Juno Lighting Group, PELCO and APC.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ -	\$ 3,148.00
Schneider Electric	x										
PENCON EQUIPMENT COMPANY		x	x	RoFlo Gas Compressors within the process systems, including full compressor assemblies and miscellaneous equipment and parts (e.g. rotor blades cylinder heads etc.)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54720	510320	\$ 8,807.22	\$ -	\$ 8,113.40	\$ 25,632.92
Ro-Flo Compressors LLC	x										
Pinder's Security Products		x	x	Medeco Security Lock systems, Sargent - Assa Abloy devices, Mechanical Lock/Key, High Security Locking Systems and parts for these systems.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	56202	\$ -	\$ -	\$ -	\$ 13,412.22
Medeco	x										
PRO AQUA INC		x	x	Siemens Industry, Inc. Envirex Products Aqua-Lator Systems & Services	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 93,151.48	\$ -	\$ 176,342.90	\$ -
Siemens Industry Inc.	x										
ROTORC CONTROLS (CANADA) LTD.	x	x	x	Rotork actuator systems, including various equipment and components such as actuators, spindles, brackets, starters, transformers, valve positioners, controls etc.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 4,596.84	\$ 28,903.43	\$ 53,141.18	\$ -
Schneider Electric Canada Inc.	x	x	x	Schneider Electric. Electrical supply and control systems	OEM services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 21,003.33	\$ -	\$ -	\$ -
SCHWING BIOSET INC	x	x	x	Schwing replacement parts	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 25,614.75	\$ -	\$ 18,844.07	\$ 48,222.21
Smart Turner Pumps Inc.	x	x	x	Smart Turner water pumps and motors.	OEM spare parts and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ -	\$ 33,800.91
SMITH & LOVELESS, INC.	x		x	Smith and Loveless process systems, including pumps, classifiers, grit separators, controllers etc.	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 40,984.89	\$ 10,065.50	\$ 22,251.42	\$ -
SPAANS BABCOCK	x	x	x	Archimedes Screw	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ 16,925.14	\$ -	\$ 82,043.30
SPD SALES LIMITED			x	Grundfos Products Including Aildos Products, ATI Technology Inc. Products and Blue-White Metering Pumps.	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	510310	\$ 8,281.77	\$ 29,418.85	\$ 14,057.44	\$ -
Grundfos Blue-White	x x										
SUEZ TREATMENT SOLUTIONS INC.	x	x	x	Climbing Bar Screens (formerly inflico Degremont)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ 175,067.83	\$ 1,662.09	\$ 46,366.12

Parts, Supplies, Equipment and Services for the
Plant Operations and Plant Maintenance and Technical Services

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID	Est. Annual \$ 2016	Annual Spent 2017	Annual Spent 2016	Annual Spent 2015
SYNTEC PROCESS EQUIPMENT LTD.		x	x	Singer Pressure Reducing Valves (PRV), Val-Matic, Red Valve, Trueline, Tideflex, Netzsch Pumps	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051 55916	510320	\$ 66,723.19	\$ 75,000.96	\$ 25,853.27	\$ -
Singer Valve	x										
T.D. ROOKE ASSOCIATES LIMITED		x	x	Gratec LIGHTNING (SPX Flow) Mixers process systems, including mixers, drives, controllers, etc. and Flowserve Pumps (Worthington Pumps in Main Pump House)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ 55,300.28	\$ -	\$ 27,370.12
Gratec SPX Flow	x	x									
Technical Standards & Safety Authority (TSSA)				Providing safety management consultation for businesses and industries in Ontario.	Quality Assessed Facility (QAF) program: to ensure that each piece of equipment is thoroughly examined for the necessary approvals and compliance with the Technical Standards and Safety Act 2000, applicable regulations and codes.	55926	510320	\$ 1,200.00	\$ 1,113.00	\$ -	\$ -

Parts, Supplies, Equipment and Services for the
Plant Operations and Plant Maintenance and Technical Services

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID	Est. Annual \$ 2016	Annual Spent 2017	Annual Spent 2016	Annual Spent 2015
TRANSCAT INC		x		Providing on-site calibration services to the instrumentation testing equipment.	OEM services to maintain existing equipment utilized by Plant Operations.	54720	510320	\$ 17,966.00	\$ 15,847.54	\$ 15,268.22	\$ 24,867.20
WAJAX INDUSTRIAL COMPONENTS		x	x	Moyno Pumping Systems. Including pumps, motors, drives, etc. and other miscellaneous equipment and parts for these Moyno Pump Systems.	OEM spare parts and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 163,724.90	\$ 14,323.32	\$ 17,184.17	\$ -
Moyno Inc	x										
XYLEM CANADA COMPANY		x	x	ITT Flygt process systems. Including pumps, mixers, drives, controllers, etc. and other miscellaneous equipment and parts for these ITT systems.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54915	510320	\$ 265,218.40	\$ 302,944.68	\$ 224,548.46	\$ 17,171.22
ITT Flygt	x										
Niagara AX	x	x	x	Building automation system	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54915	510320	\$ -	\$ -	\$ -	\$ 41,456.27
Brenntag		x	x	Tonnars, 68 kg chlorine cylinders	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54915	510320	\$ -	\$ -	\$ -	\$ 222,967.61
Abba Parts	x	x	x	Pumps vertical turbines (HD002) (HD016) Gould's, HSMPS impellers and parts	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ -	\$ -	\$ -	\$ -
Troy-Ontor Inc		x	x	Auma actuators	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 10,103.18	\$ -	\$ -	\$ -
Auma Actuators Inc	x										
Siemens Canada	x	x	x	Siemens High voltage low voltage	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	55916	510320	\$ -	\$ -	\$ -	\$ -
Active scale	x	x	x	Active scale	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	55916 53051	510320	\$ -	\$ -	\$ -	\$ -
Westech	x	x	x	Varec and Westech gas equipment	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 5,013.00	\$ -	\$ -	\$ -
								\$ 1,645,746.77	\$ 1,707,498.58	\$ 1,202,898.52	\$ 861,924.73

Parts, Supplies, Equipment and Services for
Additional Hamilton Water Sections

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept Id.	Est. Annual \$ 2018	Annual \$ 2017	Annual \$ 2016	Annual \$ 2015
E.H. Wachs	X	X	X	ERV-750 Valve Exerciser - Automated Valve Operator, VMT2 Valve and Hydrant Maintenance Trailer, WACHS Vital (valve data collection) software system, WACHS Hydrant Cutter	OEM spare parts, equipment and services to maintain existing equipment utilized by Water Distribution and Wastewater Collection	58550	510285	\$ 30,000.00	\$ 29,749.58	\$ 36,130.61	\$ 73,159.29
Evans Utility & Municipal Products	X	X	X	Meter spacers of various sizes and red hed reducers, parts to assemble or create Fire Hydrant Meters (i.e. 2.5" Female Swivel by 3" MIPT Adapter), fabricated stands for Fire Hydrant Meters.	OEM spare parts, equipment and services to maintain existing equipment utilized by Customer Service and Community Outreach	53051	510220	\$ 20,000.00	\$ 4,847.00	\$ -	\$ -
Images Puppet Productions Inc.	X	X	X	Images Puppet Productions was hired to create 3 puppet shows with support from Hamilton Water staff which included music creation, puppet creation, educational messaging, props and show recordings.	Equipment and services to maintain existing equipment utilized by Customer Service and Community Outreach	55916	510215	\$ 30,000.00	\$ 23,446.00	\$ 19,650.00	\$ 16,350.00
Industrial Scientific Corporation	X	X	X	OEM Ventis MX4 gas detectors and accessories	OEM spare parts, equipment and services to maintain existing equipment utilized by Water Distribution and Wastewater Collection	55916	510280	\$ 26,520.73	\$ -	\$ -	\$ -
						55916	510275	\$ 8,580.23	\$ -	\$ -	\$ -
						55916	510320	\$ 11,978.52	\$ -	\$ -	\$ -
						53445	510260	\$ 5,076.24	\$ -	\$ -	\$ -
Kronos Inc.	X	X	X	Kronos In Touch 9000 terminals	OEM spare parts, equipment and support services to maintain existing equipment utilized by Hamilton Water.	53251	510200	\$ 10,000.00	\$ 30,000.00	\$ -	\$ -
Pipeline Repair Services Inc.		X		Specialized pipeline repair services (6" to 36" linestop is a temporary isolation point)	OEM spare parts, equipment and services to maintain existing equipment utilized by Water Distribution and Wastewater Collection	55916	510280	\$ 40,000.00	\$ 42,120.00	\$ -	\$ -
Van Essen Instruments - Canada	X	X	X	Water level and water quality dataloggers, including communication devices and cables.	OEM spare parts and services to maintain existing equipment utilized by Sustainable Initiatives	53051	510305	\$ 30,000.00	\$ 11,050.11	\$ 10,516.13	\$ 9,592.34
Voicenet Interactive Inc	X	X		An emergency notification system where our data is stored within Canada on Canadian servers. - this is a new vendor this year. Change from ERMS to Voicenet due to Canadian Privacy requirements.	To provide mass outbaound calling in the event of adverse water quality incidents and preventative measures i.e. Frozen Water Services, Backwater Valve Maintenance etc. to 150,000 Hamilton users.	55916	510230	\$ 10,000.00	\$ -	\$ -	
								\$ 274,311.44	\$ 141,212.69	\$ 66,296.74	\$ 99,101.63