



## PUBLIC WORKS COMMITTEE REPORT 19-011

9:30 a.m.

Wednesday, August 14, 2019

Council Chambers

Hamilton City Hall

71 Main Street West

**Present:** Councillors L. Ferguson (Chair), J.P. Danko (Vice-Chair), C. Collins, J. Farr, T. Jackson, S. Merulla, N. Nann, E. Pauls, M. Pearson, A. VanderBeek, and T. Whitehead

### THE PUBLIC WORKS COMMITTEE PRESENTS REPORT 19-011 AND RESPECTFULLY RECOMMENDS:

#### 1. **Proposed Permanent Closure and Sale of a Portion of Road Allowance Abutting 40 Maple Drive, Stoney Creek (PW16112(a)) (Ward 10) (Item 8.3)**

- (a) That the application of the Bruce Trail Conservancy, to permanently close and purchase a portion of road allowance abutting 40 Maple Drive, Hamilton ("Subject Lands"), as shown on Appendix "A" to Public Works Committee Report 19-011, be approved, subject to the following conditions:
  - (i) That the City Solicitor be authorized and directed to prepare all necessary by-laws to permanently close and sell the highway, for enactment by Council;
  - (ii) The Real Estate Section of the Planning and Economic Development Department be authorized and directed to enter into any requisite easement agreements necessary to affect the orderly disposition of the Subject Lands and to proceed to sell the closed alleyway to the Bruce Trail Conservancy, as described in Report PW16112(a), in accordance with the City of Hamilton Sale of Land Policy By-law 14-204;
  - (iii) The City Solicitor be authorized to complete the transfer of the Subject Lands to the Bruce Trail Conservancy pursuant to an Agreement of Purchase and Sale or Offer to Purchase as

negotiated by the Real Estate Section of the Planning and Economic Development Department;

- (iv) That the City Solicitor be authorized and directed to register a certified copy of the by-law(s) permanently closing and selling the highway in the proper land registry office;
- (v) That the Public Works Department publish any required notice of the City's intention to pass the by-laws and/or permanently sell the closed highway pursuant to the City of Hamilton Sale of Land Policy By-law 14-204;
- (vi) That the applicant enter into any ancillary agreements required by the City and any Public Utility; and,
- (vii) That the applicant be fully responsible for the deposit of a reference plan in the proper land registry office, and that said plan be prepared by an Ontario Land Surveyor to the satisfaction of the Manager, Geomatics and Corridor Management Section, and that the applicant also deposit a reproducible copy of said plan with the Manager, Geomatics and Corridor Management Section.

**2. Ancaster Memorial Arts & Culture Centre (PW19072) (Ward 12)  
(Outstanding Business Item List) (Item 10.1)**

- (a) That the General Manager, Public Works Department be authorized and directed to negotiate, enter into and execute the construction contract and any ancillary documents required to give effect thereto with the prequalified compliant bidder of Tender C13-39-19, in a form satisfactory to the City Solicitor;
- (b) That the following funding strategy for an additional \$12.115M be approved for Project 3541641602, Ancaster Memorial Arts & Culture Centre, to complete construction of the project as well as cover any associated project costs and fees:
  - (i) \$860,000 from Councillor Priority Roads Work-In-Process (for road access upgrade to property);
  - (ii) \$540,000 from additional Property Sales;
  - (iii) \$2,000,000 from additional Community Contribution, of which \$1,000,000 will be loaned from the Investment Stabilization Reserve 112300;
  - (iv) \$2,738,333 from Federal Gas Tax;
  - (v) \$2,738,334 from the Unallocated Capital Reserve 108020;
  - (vi) \$2,738,333 from a 10-year Ancaster area-rating charge to be loaned from the Investment Stabilization Reserve 112300;

- (vii) \$500,000 from Early Years Reserve 112218;
  - (c) That staff be directed to explore funding from other levels of government to offset the City's own source funding commitment;
  - (d) That the General Manager, Public Works Department be authorized and directed to negotiate, enter into, execute and amend any ancillary documents with funders or other levels of government for additional funding on the project, with such terms and conditions in a form satisfactory to the City Solicitor; and,
  - (e) That pursuant to Procurement Policy #11 – Non-competitive Procurements staff be authorized to enter into single source procurement for \$125,000, with Archaeology Research Associates to complete the final Stage 4 excavation report in accordance with the Ministry of Tourism Culture and Sport Standards and Guidelines for Archaeologists.
- 3. To Incorporate City Lands into Acadia Drive by By-law (PW19063) (Ward 7) (deferred from the July 10, 2019 meeting) (Item 10.2)**
- (a) That the following City Lands be incorporated into the following Street:
    - (i) Acadia Drive, Parts 1 and 4 on Plan 62R-20060;
  - (b) That the By-Law as outlined in Report PW19063 as Appendix "B" to carry out the incorporation of the said lands into the foregoing Street be prepared to the satisfaction of the Corporate Counsel and be enacted by Council; and,
  - (c) That the General Manager of Public Works, be authorized and directed to register the By-Law.
- 4. Standardization of Hamilton Water Equipment, Parts, Supplies and Services (PW19070) (City Wide) (Item 10.3)**
- (a) That the standardization of the products, services and suppliers identified in Appendices "B", "C" and "D" to Public Works Committee Report 19-011 pursuant to Procurement Policy #14 - Standardization and as the single source of supply for the listed equipment, parts, supplies and services for the Hamilton Water Division be approved;
  - (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 "B", "C" and "D" to Public Works

Committee Report 19-011 with content acceptable to the General Manager of Public Works, and in a form satisfactory to the City Solicitor; and,

- (c) That the General Manager of Public Works, or his designate, be authorized, in the event that a supplier identified in Appendices “B”, “C” and “D” to Public Works Committee Report 19-011 undergoes a name change, to amend any Contracts executed and any ancillary documents as required in a form satisfactory to the City Solicitor.

**5. HSR TransCab - In-House Bid for 2019 Request for Tenders (RFT) (PW19071) (Wards 6, 9, 10 and 11) (Item 10.4)**

- (a) That the Manager of Procurement be authorized and directed to issue a Request for Tenders (RFT) for the provision of shared ride taxi (Trans-Cab) services between locations in designated neighbourhoods;
- (b) That the General Manager of Public Works be authorized and directed to establish an in-house bid team together with the Amalgamated Transit Union (ATU), to prepare and submit a bid to the RFT with the potential to transfer the Trans-Cab services from a contracted service provider to an in-house service as outlined in the City’s Procurement Policy #22 – In-House Bid Submission;
- (c) That staff retain a Fairness Monitor to assist in ensuring fairness in the RFT process; and,
- (d) That staff report back to the Public Works Committee with recommendations based on the results of both the in-house bid and external bids received in response to the RFT.

**6. Installation of Speed Cushions on Queensdale Avenue East, Hamilton in front of #76 Queensdale Avenue East, #103 Queensdale Avenue East and on Queensdale Avenue East Approximately 20 Metres West of Bruce Park Drive (Ward 8) (Item 11.1)**

- (a) That staff be directed to install three speed cushions on Queensdale Avenue East, Hamilton in front of #76 Queensdale Avenue East, #103 Queensdale Avenue East and on Queensdale Avenue East Approximately 20 Metres West of Bruce Park Drive, at a cost not to exceed \$16,800, to be funded from the Ward 8 Area Rating Capital Reserve Fund (108058); and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents to install three speed

cushions on Queensdale Avenue East, Hamilton in front of #76 Queensdale Avenue East, #103 Queensdale Avenue East and on Queensdale Avenue East Approximately 20 Metres West of Bruce Park Drive, with such terms and conditions in a form satisfactory to the City Solicitor.

**7. Installation of Two Ornamental Bollards on the Northeast Corner of Main Street East and John Street South, Hamilton (Ward 2) (Item 11.2)**

WHEREAS, a number of collisions have occurred resulting in vehicles coming to rest on the sidewalk or striking the building on the northeast corner of Main Street East and John Street South, Hamilton; and,

WHEREAS, there are concerns for pedestrian safety at the northeast corner of Main Street East and John Street South, Hamilton;

THEREFORE, BE IT RESOLVED:

- (a) That staff be directed to install two ornamental bollards on the northeast corner of Main Street East and John Street South, Hamilton, to be funded from the Ward 2 Area Rating Reserve Fund (108052) to an upset limit of \$6,000; and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents to install two ornamental bollards on the northeast corner of Main Street East and John Street South, Hamilton, with such terms and conditions in a form satisfactory to the City Solicitor.

**8. Installation of a Speed Cushion on Wexford Avenue South, Hamilton in front of #278 Wexford Avenue South (Ward 4) (Item 11.3)**

WHEREAS, Ward 4 Councillor Sam Merulla received requests from the residents of Wexford Avenue South to install a speed cushion on Wexford Avenue South, Hamilton;

THEREFORE, BE IT RESOLVED:

- (a) That staff be directed to install a speed cushion on Wexford Avenue South, Hamilton in front of #278 Wexford Avenue South at a cost not to exceed \$5,600, to be funded from the Ward 4 Area Rating Capital Reserve account (108054); and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents to install a speed cushion

on Wexford Avenue South, Hamilton in front of #278 Wexford Avenue South with such terms and conditions in a form satisfactory to the City Solicitor.

**9. Ward 2 Area Rating Capital Reserve Community Building Capital Partnership Projects (Item 11.4)**

WHEREAS, the following projects represent a collaboration of work between various downtown stakeholders that include, but are not limited to, the Downtown Business Improvement Area (BIA), Stinson Neighbourhood Association, Business owners on Restaurant Row, James Street North merchants, Supercrawl Productions and City Staff that includes EMS (Fire), Planning and Economic Development, and Public Works;

THEREFORE, BE IT RESOLVED:

- (a) That funding for the following projects, to be financed from the Ward 2 Area Rating Capital Reserve Fund (108052), be approved:
  - (i) \$19,200 for three power conduits for the James Street North holiday seasonal public art lighting displays and Supercrawl Productions non-generated environmentally friendly power sourcing in partnership with Alectra Utilities (specifications shown in Appendix “E” to Public Works Committee Report 19-011);
  - (ii) \$5,500 for a string lighting project on Restaurant Row (King William Street between James Street North and John Street North), with the Downtown Business Improvement Area (BIA) being responsible for operating costs associated with the lighting;
  - (iii) \$50,000 for replacing an existing basketball pad and pathways at Shamrock Park North;
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

**10. Victoria Park Pedestrian Lighting Improvements (Ward 1) (Item 11.5)**

WHEREAS, Victoria Park is an active community park in the Strathcona neighbourhood of Ward 1, with pathways that promote active transportation through the community;

WHEREAS, pedestrian pathway lighting exists in the majority of Victoria Park, supporting commuters and park users;

WHEREAS, the southern area of Victoria Park is not currently lit, and park users would benefit with the addition of pedestrian pathway lighting; and,

WHEREAS, the \$80,000 (Project ID #4241709114) of funding previously approved for Victoria Park pedestrian lighting is not adequate to meet the \$112,000.00 estimated costs for archaeological work, increased lighting scope and contingency;

THEREFORE, BE IT RESOLVED:

- (a) That an additional \$32,000 of funding be allocated from the Ward 1 Area Rating Reserve Fund (108051) to Project ID #4241709114, to implement new pedestrian pathway lighting along the southern pathways of Victoria Park; and,
- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents to allocate \$32,000 of additional funding from the Ward 1 Area Rating Reserve Fund (108051) to Project ID #4241709114, to implement new pedestrian pathway lighting along the southern pathways of Victoria Park, with such terms and conditions in a form satisfactory to the City Solicitor.

**11. Appointment to the Keep Hamilton Clean and Green Committee for the 2018-2022 Term (Item 14.1)**

That the recommendation be approved and released publicly following approval by Council.

**FOR INFORMATION:**

**(a) CHANGES TO THE AGENDA (Item 2)**

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

**1. DELEGATION REQUESTS (Item 6)**

- 6.1 Ian Borsuk, Environment Hamilton, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072) (for today's meeting)
- 6.2 Jamie Stuckless, Share the Road Cycling Coalition, respecting the Bicycle Friendly Communities Program (for a future meeting)

It is recommended that both Delegations respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072) be heard first during the Public Hearings/Delegations section (Item 8) of the

agenda and that Item 10.1 be considered immediately following these Delegations.

**2. PRIVATE AND CONFIDENTIAL (Item 14)**

**14.2. Waste Collection Service Contract (PW19069) (City Wide) --  
WITHDRAWN**

The agenda for the August 14, 2019 Public Works Committee meeting was approved, as amended.

**(b) DECLARATIONS OF INTEREST (Item 3)**

There were no declarations of interest.

**(c) APPROVAL OF MINUTES OF THE PREVIOUS MEETING (Item 4)**

**(i) July 10, 2019 (Item 4.1)**

The Minutes of the July 10, 2019 meeting of the Public Works Committee were approved, as presented.

**(d) DELEGATION REQUESTS (Item 6)**

The following delegation requests were approved:

- (i) Ian Borsuk, Environment Hamilton, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072) (for today's meeting) (Added Item 6.1)
- (ii) Jamie Stuckless, Share the Road Cycling Coalition, respecting the Bicycle Friendly Communities Program (for a future meeting) (Added Item 6.2)

**(e) CONSENT ITEMS (Item 7)**

**(i) Interview Sub-Committee to the Public Works Committee Minutes -  
August 12, 2019 (Item 7.1)**

The Minutes of the August 12, 2019 meeting of the Interview Sub-Committee to the Public Works Committee, were received.



**(f) PUBLIC HEARINGS / DELEGATIONS (Item 8)**

**(i) Robert Wilkins, Ancaster Society for the Performing Arts, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072) (approved on June 3, 2019) (Item 8.1)**

Robert Wilkins, Ancaster Society for the Performing Arts, addressed the Committee respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072), with the aid of a handout.

Robert Wilkins, Ancaster Society for the Performing Arts, was permitted to address the Committee for an additional 5 minutes in order to complete his presentation.

The delegation by Robert Wilkins, Ancaster Society for the Performing Arts, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072), was received.

A copy of the handout is available on the City's website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

For further disposition of this matter, refer to Item 2.

**(ii) Ian Borsuk, Environment Hamilton, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072) (Added Item 8.4)**

Ian Borsuk, Environment Hamilton, addressed the Committee respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072), with the aid of a handout.

The delegation by Ian Borsuk, Environment Hamilton, respecting Item 10.1 - Ancaster Memorial Arts & Culture Centre (PW19072), was received.

A copy of the handout is available on the City's website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

For further disposition of this matter, refer to Item 2.

**(g) DISCUSSION ITEMS (Item 10)**

**(i) Ancaster Memorial Arts & Culture Centre (PW19072) (Ward 12) (Outstanding Business Item List) (Item 10.1)**

Councillor Ferguson relinquished the Chair to Councillor Danko.

For further disposition of this matter, refer to Item 2.

**(h) PUBLIC HEARINGS / DELEGATIONS (Item 8) - CONTINUED**

**(i) David Borsellino, respecting Traffic Data Used to Make Modifications on Aberdeen Ave. and Enhancements at the Intersection at Kent St. and Glenfern Ave. (Ward 1) (approved on July 10, 2019) (Item 8.2)**

David Borsellino addressed the Committee respecting Traffic Data Used to Make Modifications on Aberdeen Ave. and Enhancements at the Intersection at Kent St. and Glenfern Ave. (Ward 1), with the aid of a handout.

David Borsellino was permitted to address the Committee for an additional 5 minutes in order to complete his presentation.

The delegation by David Borsellino, respecting Traffic Data Used to Make Modifications on Aberdeen Ave. and Enhancements at the Intersection at Kent St. and Glenfern Ave. (Ward 1), was received.

A copy of the handout is available on the City's website at [www.hamilton.ca](http://www.hamilton.ca) or through the Office of the City Clerk.

**(ii) Proposed Permanent Closure and Sale of a Portion of Road Allowance Abutting 40 Maple Drive, Stoney Creek (PW16112(a)) (Ward 10) (Item 8.3)**

Councillor Danko advised that notice of the Proposed Permanent Closure and Sale of a Portion of Road Allowance Abutting 40 Maple Drive, Stoney Creek (PW16112(a)) (Ward 10) was given as required under the City's By-law #14-204 – the Sale of Land Policy By-law.

The Committee Clerk advised that there were no registered speakers.

The Chair asked three times if there were any members of the public in attendance who wished to come forward to speak to the matter. No individuals came forward.

The public meeting was closed.

For disposition of this matter, refer to Item 1.

**(i) DISCUSSION ITEMS (Item 10) - CONTINUED**

**(i) Standardization of Hamilton Water Equipment, Parts, Supplies and Services (PW19070) (City Wide) (Item 10.3)**

Councillor Ferguson reassumed the Chair.

For further disposition of this matter, refer to Item 4.

**(j) MOTIONS (Item 11)**

**(i) Theft and Vandalism Prevention in City-Owned Public Spaces (City Wide) (Added Item 11.6)**

Staff were directed to identify and explore the feasibility of various options, including Hamilton Police involvement and the installation of security cameras, to address the increase in vandalism and theft in City-owned public spaces and report back to the Public Works Committee.

**(k) NOTICES OF MOTION (Item 12)**

**(i) Theft and Vandalism Prevention in City-Owned Public Spaces (City Wide) (Added Item 12.1)**

The Rules of Order were waived to allow for the introduction of a Motion respecting Theft and Vandalism Prevention in City-Owned Public Spaces.

For further disposition of this matter, refer to Item (j) (i).

**(l) GENERAL INFORMATION / OTHER BUSINESS (Item 13)**

**(i) Amendments to the Outstanding Business List (Item 13.1)**

The following amendments to the Public Works Committee's Outstanding Business List, were approved:

**(a) Items Requiring a New Due Date:**

- (i) Functional Traffic Study for Kenilworth Avenue from Main Street to Barton Street**  
Item on OBL: J  
Current Due Date: August 14, 2019  
Proposed New Due Date: October 18, 2019

- (ii) Hamilton-Halton Homebuilders' Association (HHHBA)  
Delegation on Water Main Approval Issues and  
Recommendations for Master-water/wastewater Servicing  
Studies  
Item on OBL: T  
Current Due Date: August 14, 2019  
Proposed New Due Date: September 6, 2019
- (iii) Red Hill Valley Project Integrated Environmental Monitoring  
Program  
Item on OBL: Z  
Current Due Date: September 30, 2019  
Proposed New Due Date: November 18, 2019
- (iv) Timely Notice of Any Discharges of Untreated or Partially  
Treated Sewerage into Hamilton Harbour from Local  
Municipal Sewerage Treatment Plants  
Item on OBL: AJ  
Current Due Date: August 14, 2019  
Proposed New Due Date: September 16, 2019
- (v) Additional Report on Vision Zero  
Item on OBL: AP  
Current Due Date: September 16, 2019  
Proposed New Due Date: October 18, 2019
- (b) Items Considered Complete and Needing to be Removed:
  - (i) Project 3541641602 – Ancaster Memorial Arts and Culture  
Centre  
Addressed as Item 10.1 on today's agenda – Report  
PW19072  
Item on OBL: AX

**(m) PRIVATE AND CONFIDENTIAL (Item 14)**

Committee determined that discussion of Item 14.1 was not required in Closed Session, so the item was addressed in Open Session, as follows:

- (i) **Appointment to the Keep Hamilton Clean and Green Committee for the 2018-2022 Term (Item 14.1)**

For further disposition of this matter, refer to Item 11.

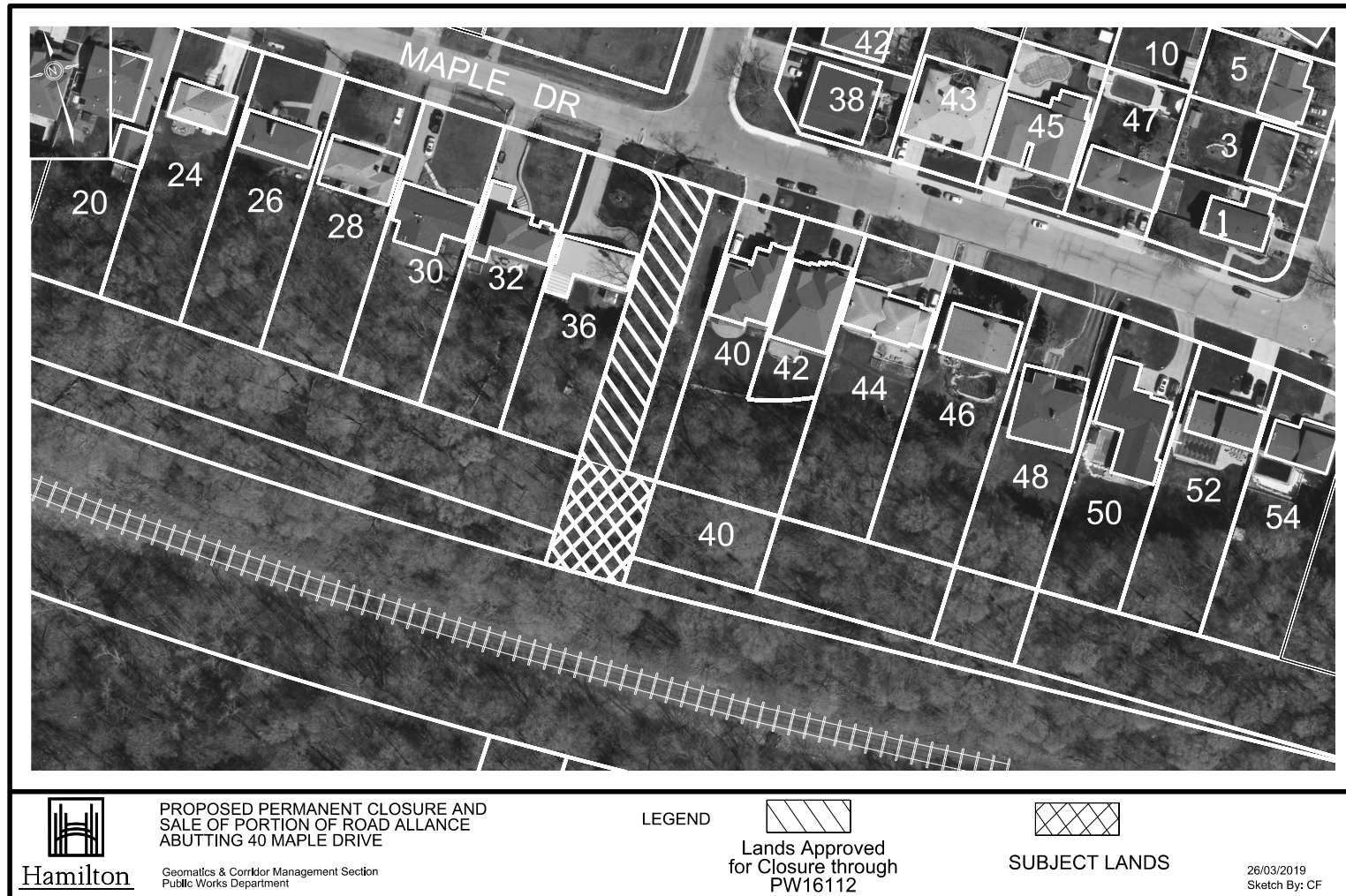
**(n) ADJOURNMENT (Item 15)**

There being no further business, the Public Works Committee was adjourned at 12:18 p.m.

Respectfully submitted,

Councillor L. Ferguson  
Chair, Public Works Committee

Alicia Davenport  
Legislative Coordinator  
Office of the City Clerk



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

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept Id.	Est. Annual \$ 2019	Annual Spent 2018	Annual Spent 2017	Annual Spent 2016	Comments
AirOn HVAC Services Ltd.	X	X	X	Provide all Labour, Equipment and Materials necessary to service and maintain the Laboratory's only Makeup Air Unit (MAU).	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	\$ 90,000.00	\$ 74,650.00	\$ 58,612.00	\$ 50,000.00	
Abraxis, LLC	X	X	X	Instruments, parts, supplies, service and Laboratory Performance Testing samples for microcystins ELISA analysis	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 9,000.00	\$ 6,675.00	\$ 9,300.00	\$ 10,150.00	USD
Agilent Technologies Canada, Inc.	X	X	X	Instruments, parts, supplies and service for trace metal (Varian Vista-PRO Axial CCD ICP/OES and Agilent 7900 ICP/MS) and trace organic analysis (Agilent GC/MSD System, Tekmar Purge and Trap auto sampler with Agilent GC/MSD System, Agilent GC/MS/MS System, SPME PAL Autosampler with GC/MSD System)	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 23,000.00	\$ 14,176.96	\$ 16,666.49	\$ 21,720.50	
					54920	510250	\$ 55,000.00	\$ 50,772.00	\$ 49,944.00	\$ 58,648.77		
Canadian Association for Laboratory Accreditation (CALA)		X		Laboratory Accreditation Services and Laboratory Performance Testing Samples	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	\$ 27,550.00	\$ 22,400.00	\$ 22,617.03	
Delta Scientific Laboratory Products Ltd.			X	Certified reference standards and laboratory consumables.	Provider of specialized standards and consumables utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53051	510250	\$ 25,000.00	\$ 18,686.68	\$ 19,324.04	\$ 24,155.75	
High-Purity Standards	X											
Q2SI	X											
Inorganic Ventures	X											
IDEXX Laboratories Canada Corporation	X	X	X	Instruments, parts and supplies for Microbiological analysis of regulated drinking waters, wastewaters and bioassays	Provider of OEM parts, supplies and service for equipment utilized by the Environmental Laboratory	53051	510250	\$ 35,000.00	\$ 16,805.00	NA	NA	
Instruments Canada Company Ltd.		X		Providing on-site calibration services for the laboratory certified thermometers and digesters	Providing on-site calibration services for the laboratory certified thermometers and digesters	54920	510250	\$ 8,000.00	\$ 6,024.00	\$ 5,694.00	\$ 5,331.00	
					53251	5161769075	\$ 30,000.00	\$ 6,664.25	\$ 7,511.37	\$ 21,002.87		
Magnetar Corporation	X	X		Maintenance and Upgrades to SIRIUS Laboratory Information Management System (LIMS) database	Maintenance and Upgrades to laboratory information management system (LIMS) database	54920	5161769075	\$ 20,000.00	\$ 15,581.51	\$ 14,090.00	\$ 14,090.00	
Millipore Canada Ltd.	X	X	X	Parts, supplies and service for Laboratory water purification systems for trace analysis	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 17,500.00	\$ 14,124.80	\$ 11,482.16	\$ 9,036.16	
					54920	510250	\$ 3,600.00	\$ 3,546.20	\$ 3,210.20	\$ 1,689.00		
PerkinElmer Health Sciences Canada, Inc.	X	X	X	Instruments, parts, supplies and service for Flow Injection Mercury System.	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	54920	510250	\$ 2,500.00	\$ -	\$ -	\$ 2,580.00	
SGS Canada Inc.		X		Laboratory Analytical Services Accredited to ISO 17025 and MECP Licensed for regulatory drinking water analysis for specific tests listed in their scope of analysis.	Provider of analytical testing services for the Environmental Laboratory's surplus analysis	55916	510250	\$ 60,000.00	\$ 38,738.10	\$ 109,074.00	\$ 52,434.50	
Sigma-Aldrich Canada Co.	X		X	SUPELCO, Fluka, Cerillan and RTC Analytical certified reference standards, certified proficiency testing standards and SUPELCO laboratory consumables	Provider of specialized standards utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53051	510250	\$ 12,000.00	\$ 7,394.90	\$ 12,894.50	\$ 11,075.20	
Skalar Inc.	X	X	X	Instruments parts, supplies and service for Skalar Automated Chemistry Systems	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 15,000.00	\$ 12,424.00	\$ 9,999.00	\$ 10,953.20	
Systems Plus (598076 Ontario Inc.)	X		X	Supplier of pre-cleaned, pre-labelled Laboratory Bottles for all analytical analysis including regulatory drinking water	Provider of pre-cleaned, pre-labelled Laboratory Bottles for all analytical analysis including regulatory drinking water	53051	510250	\$ 45,000.00	\$ 31,150.74	\$ 44,404.30	\$ 41,582.93	
Thermo Fisher Scientific (Mississauga) Inc	X	X	X	Instruments, parts, supplies and service for anion analysis	OEM spare parts, supplies and services for existing equipment utilized by the Environmental Laboratory	53051	510250	\$ 18,000.00	\$ 22,492.00	\$ 14,689.40	\$ 14,896.80	
VWR (A Part of Avantor)			X	Supplier of Single Blind Reference Standards	Provider of specialized standards utilized by the Environmental Laboratory to maintain ISO 17025 Accreditation	53132	510250	\$ 23,000.00	\$ 20,616.00	\$ 23,342.00	\$ 20,679.45	
Environmental Resource Associates (ERA)	X											
								\$ 516,600.00	\$ 408,572.14	\$ 451,583.30	\$ 409,483.16	

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

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID.	Est. Annual \$ 2019	Annual Spent 2018	Annual Spent 2017	Annual Spent 2016	Comments
ABB	x	x	x	ABB and GE Industrial Solutions electrical control equipment, switchgear, soft starters, VFDs	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 15,000.00	\$ 13,768.00	\$ -	\$ -	
ALLWELD	x	x	x	Screw Conveyor System for Biosolids loading	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ -	\$ -	\$ 765.00	\$ -	
ARMSTRONG	x			Armstrong pumps for Effluent Pumping Station, Hot water recirculation pumps for Woodward and Outstation hot water	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 25,000.00	\$ 42,969.47	\$ 10,751.11	\$ -	
HAMILTON HYDRONICS		x	x	Krohne Flow Meters, Primary controller, secondary measuring element, control cabling, miscellaneous equipment, HydroFlow for Struvite Control, Pulsar for level instrumentation related to Headworks Barscreens and various outstation locations and	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 15,000.00	\$ 79,319.00	\$ 8,679.88	\$ 9,537.30	
ACI INSTRUMENTATION LTD		x	x	Aerzen Blowers currently provide air for Dundas Aeration and Woodward TSB	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 5,000.00	\$ 1,040.60	\$ 11,437.31	\$ -	
HYDROFLOW	x											
KROHNE	x											
PULSAR	x											
AERZEN CANADA INC.	x	x	x	Centrifuges, specialized equipment, specialized testing	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 85,000.00	\$ 315,342.13	\$ 59,451.79	\$ -	
ALFA LAVAL INC.	x	x	x	Various diving operations for Water and Wastewater locations	Diving Operations, underwater equipment inspection, video/camera and maintenance repairs services	54720 55916	510320	\$ 15,000.00	\$ 26,377.00	\$ 19,127.50		
ASI GROUP LTD		x		Chesterton mechanical seals for the pumps in the main pump house at the WWTP , Auto Lubes through the plant.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 5,000.00	\$ 10,560.00	\$ 1,027.00	\$ -	
A W CHESTERTON CO LTD	x		x	Fluid Components International (FCI) methane gas flow meters, Teledyne (ISCO) Wastewater samplers	OEM spare parts, equipment and services (TSSA licensed certificate holder for gas) to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 30,000.00	\$ 48,481.45	\$ 28,872.00	\$ 6,875.80	
AVENSYS SOLUTIONS INC.		x	x	Benshaw Soft Starters (4160 V, 2200 V, 600 V)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 12,500.00	\$ 8,028.00	\$ 3,320.00		
FLUID COMPONENTS INTERNATIONAL	x											
TELEDYNE	x											
BENSHAW	x	x	x	Environmental Dynamics International aeration diffuser bubbler system and Polychem Products flight & chains currently installed in Dundas WWTP and Woodward SPIRAC liners for headworks screen conveyors.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 20,000.00	\$ 21,376.88	\$ 86,831.29	\$ 36,797.34	
C & M ENVIRONMENTAL TECHNOLOGIES INC.		x	x	Hach/ Sigma samplers, pumps, motors, drives and other miscellaneous equipment.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 20,000.00	\$ 13,955.76	\$ 22,082.60	\$ 18,413.97	
ENVIRONMENTAL DYNAMICS	x											
BRENTWOOD INDUSTRIES	x											
SPIRAC	x											
CAN-AM INSTRUMENTS LTD.		x	x	Hydrovision Flow Meter for Woodward WWTP Effluent Channel	OEM spare parts and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 20,000.00	\$ 19,765.42	\$ 2,617.24	\$ 14,845.69	
HACH	x											
CANCOPPAS LIMITED		x	x	Golden Anderson Pressure Reducing Valves (PRV)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 15,000.00	\$ 13,709.00	\$ 14,400.72	\$ 16,924.01	
CONVAL PROCESS SOLUTIONS INC.			x									
GOLDEN ANDERSON	x											
DEVINE & ASSOCIATES LTD.			x	Cla-Val Pressure Reducing Valves (PRV), controllers and positioners	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 5,000.00	\$ 4,216.00	\$ 7,751.86	\$ 1,159.38	
CLAU VAL		x	x	Vacon AC drives	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 12,500.00	\$ -	\$ -	\$ -	
DRIVE CENTRE	x	x		Eaton, Cutler Hammer and Westinghouse Control equipment, switchgear, soft starters, VFDs, Cooper Transformers, Powerware UPS Systems and ATS	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54720 55916	510310 510320	\$ 350,000.00	\$ 124,004.43	\$ 235,974.10	\$ 102,538.52	
DANFOSS												
EATON INDUSTRIES CANADA COMPANY	x	x	x	Muffin monster grinders and cartridge	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 45,000.00	\$ 36,300.00	\$ 138,764.00	\$ -	
ENVIROCAN WASTEWATER TREATMENT		x										
JWC Environmental	x											
ESC Automation Inc.		x		HVAC system from Optimira Energy	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	55916	510320	\$ 50,000.00	\$ 82,887.00	\$ 46,458.00	\$ -	
OPTIMIRA ENERGY	x											
EVOQUA WATER TECHNOLOGIES LTD	x	x	x	Evoqua, Link Belt raw water trash screens, chlorine / fluoride analyzers (Micro 2000, US Filter, Wallace & Tiernan), chlorine evaporators, chlorinators, and associated parts. Evoqua Envirex products for HSPRI	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 50,000.00	\$ 549,684.42	\$ 26,081.07	\$ 101,322.39	
LINK BELT	x											
US FILTER	x											
WALLACE AND TIERNAN	x											
FLOYAL EQUIPMENT LTD.		x	x	DeZurik Valves parts components and services	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 39,000.00	\$ 19,723.00	\$ 588.73	\$ 1,454.31	
DEZURIK	x											
General Electric Energy - Measurement and Control	x	x	x	Vibration equipment HSAER, HSMPs	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 7,500.00	\$ 6,442.50	\$ 7,272.50	\$ -	
Bentley Nevada	x											
GERRIE ELECTRIC WHOLESALE LIMITED			x	Rockwell (Allen-Bradley) VFD parts components and services, SCADA PAC, Endress+Hauser Products and Services	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 50,000.00	\$ 126,582.97	\$ 7,633.48	\$ 20,745.54	
Rockwell Automation (Allen-Bradley)	x	x										
Endress+Hauser	x											



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

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID.	Est. Annual \$ 2019	Annual Spent 2018	Annual Spent 2017	Annual Spent 2016	Comments
H2 FLOW EQUIPMENT INC.		x	x	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	\$ 25,000.00	\$ 26,511.31	\$ 25,768.75	\$ 2,531.20	
Ovivo			x									
Trojan Technologies	x	x										
HACH SALES & SERVICE LP	x	x	x	Support and supplies for Hach equipment.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 75,000.00	\$ 73,963.28	\$ 89,869.32	\$ 72,381.32	
INDACHEM INC			x	Polyblend Polymer systems, including pumps, mixers, drives, controllers, etc. ORP, Stranal Analyzers and Chemical Feed/mixing systems.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 12,500.00	\$ -	\$ -	\$ 24,689.54	
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. Seepex Pumping Systems, including pumps, motors, drives, etc.	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 45,000.00	\$ 75,878.02	\$ 3,096.00	\$ 69,112.47	
Gorman Rupp	x											
Seepex	x											
Vaughan Pumps	x											
John Crane	x	x	x	Mechanical seals for various high lift pumps	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 12,500.00	\$ 13,829.20	\$ 3,698.50		
JSM CONTROLS INC		x	x	Gas Chlorination System (evaporators, chlorinators, vacuum regulators, pressure relief, piping and valves), Digester Gas System (Westech / Varec field service rep)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 65,000.00	\$ 40,894.00	\$ 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 KSB systems.	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 12,500.00	\$ 9,102.26	\$ -	\$ -	
LAKESIDE PROCESS CONTROLS LTD		x	x	Emerson Rosemount Analyzers used in numerous processes throughout the water treatment facilities.	OEM spare parts, equipment and service to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 12,500.00	\$ 1,280.00	\$ 9,116.08	\$ 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	\$ 10,000.00	\$ 9,800.00	\$ 9,361.05	\$ 8,500.00	
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	\$ 35,000.00	\$ -	\$ 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).	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 50,000.00	\$ 52,918.46	\$ 61,045.42	\$ 37,022.36	
ABB	x											
Prominent	x			Peristaltic Metering pumps Prominent Chlorine monitors and analyzers								
NATIONAL PROCESS EQUIPMENT		x	x	Charlotte America bladder vessels Fairbank pumps, van chopper pumps, Pentair Aurora products	OEM parts and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 5,000.00	\$ -	\$ -	\$ -	
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	\$ 5,000.00	\$ -	\$ -	\$ -	
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	\$ 15,000.00	\$ 60,558.00	\$ -	\$ 8,113.40	
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	510320	\$ 5,000.00	\$ -	\$ -	\$ -	
Medeco	x											
PRO AQUA INC		x	x	Evoqua Envirex Products for HSPRI	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 100,000.00	\$ 110,566.68	\$ -	\$ 176,342.90	
EVQUA WATER TECHNOLOGIES LTD	x			Aqua-Lator Systems & Services								
ROTORK 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	\$ 40,000.00	\$ 43,910.66	\$ 28,903.43	\$ 53,141.18	
Schneider Electric Canada Inc.	x	x	x	Schneider Electric electrical control equipment and switchgear	OEM spare parts and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 12,500.00	\$ 10,874.44	\$ -	\$ -	
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	\$ 225,000.00	\$ 26,132.50	\$ -	\$ 18,844.07	
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	\$ -	\$ -	\$ -	\$ -	
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	\$ 25,000.00	\$ 49,961.63	\$ 10,065.50	\$ 22,251.42	
SPAANS BABCOCK	x	x	x	Archimedes Screw Pumps	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 15,000.00	\$ 7,833.00	\$ 16,925.14	\$ 22,880.00	
SPD SALES LIMITED			x	Grundfos Products including Aldos Products, ATI Technology Inc. Products, Blue-White Metering Pumps and MSA gas monitor equipment	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 100,000.00	\$ 43,437.00	\$ 59,499.57	\$ 20,658.20	
Grundfos	x											
Blue-White	x											
MSA	x											
SRP Controls Limited			x	Additel equipment	OEM spare parts and equipment to maintain existing equipment utilized by Plant Operations.	53051	53051	\$ 50,000.00	\$ -	\$ -	\$ -	
Additel	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 55916	510320	\$ 375,000.00	\$ -	\$ 176,538.71	\$ 1,662.09	
SYNTEC PROCESS EQUIPMENT LTD.		x	x									
Chemline	x			Chemline valves and fittings, Singer pressure reducing valves (PRV), Val-Matic valves, Red Valve (Tideflex) pinch and check valves, Trueline valves and fittings, Netzsch Pumps	OEM spare parts to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 85,000.00	\$ 129,690.50	\$ 75,000.96	\$ 25,853.27	
Netzsch	x											
Red Valve	x											
Singer Valve	x											
Trueline	x											
Val-Matic	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	\$ -	
Gratec		x										
SPX Flow	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	\$ 2,700.00	\$ 1,200.00	\$ 1,113.00	\$ -	
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	\$ 22,500.00	\$ 21,835.34	\$ 15,847.54	\$ 15,288.22	

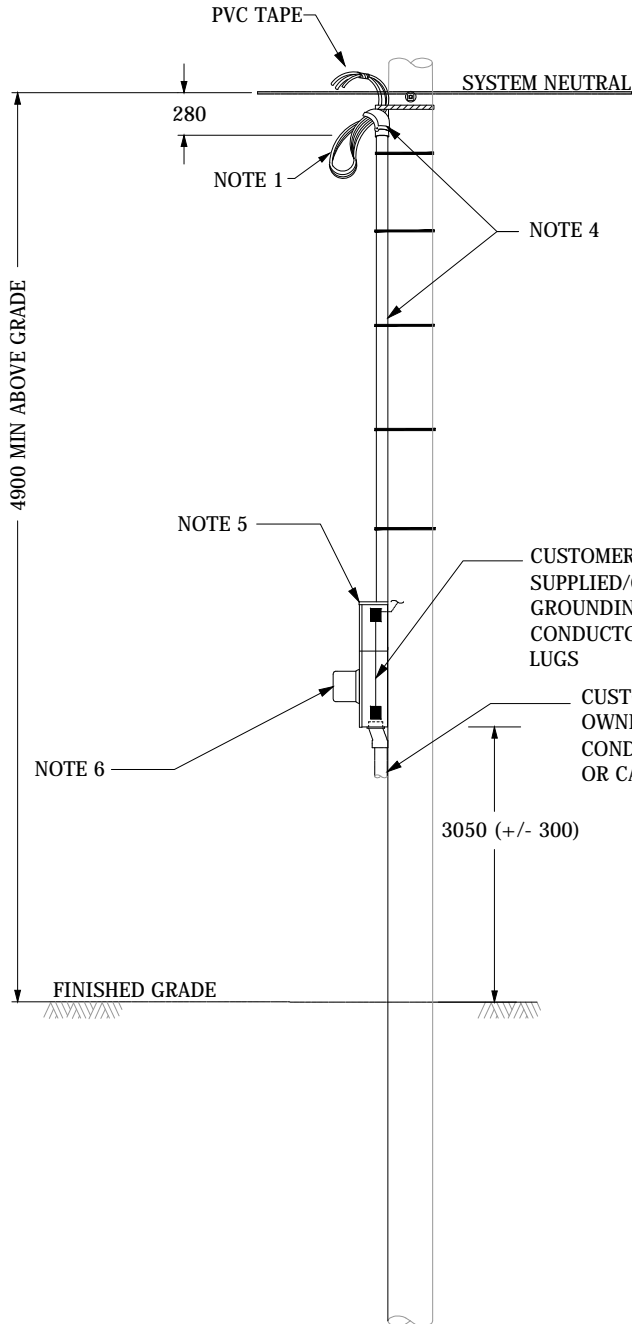
## Parts, Supplies, Equipment and Services for Plant Operations and Plant Maintenance and Technical Services

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept ID.	Est. Annual \$ 2019	Annual Spent 2018	Annual Spent 2017	Annual Spent 2016	Comments
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	\$ 65,000.00	\$ 325,401.64	\$ 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.	53051 54720	510320	\$ 350,000.00	\$ 452,639.62	\$ 302,944.69	\$ 224,549.46	
ITT Flygt	x											
Trinium EX	x	x	x	Building automation system	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54915	510320	\$ 5,000.00	\$ -	\$ -	\$ -	
Brenntag		x	x	Tonnens, 68 kg chlorine cylinders	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	54915	510320	\$ 5,000.00	\$ -	\$ -	\$ 1,200.00	
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	\$ 7,500.00	\$ -	\$ 55,315.00	\$ -	
Troy-Ontor Inc		x	x	Auma actuators	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 12,500.00	\$ 29,897.00	\$ -	\$ -	
Auma Actuators Inc	x											
Siemens Canada Limited	x	x	x	Siemens electrical control equipment, switchgear, soft starters, VFDs, Flender gearboxes, couplings and geared motors (HSSEC)	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720 55916	510320	\$ 60,000.00	\$ 58,480.04	\$ 50,617.00	\$ 13,795.00	
Active scale	x	x	x	Weigh scales	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051	510320	\$ 3,500.00	\$ -	\$ 1,564.00	\$ 12,083.00	
WESTECH INDUSTRIAL LTD	x	x	x	Varec and Westech gas equipment	OEM spare parts, equipment and services to maintain existing equipment utilized by Plant Operations.	53051 54720	510320	\$ 63,613.00	\$ 5,013.00	\$ -	\$ -	
								\$ 2,901,313.00	\$ 3,246,140.61	\$ 1,970,979.42	\$ 1,259,457.28	

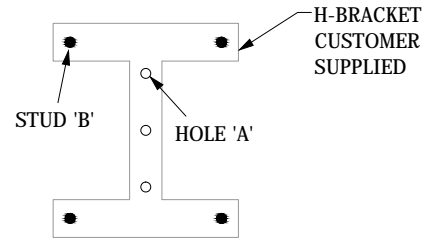
## Parts, Supplies, Equipment and Services for Additional Hamilton Water Sections

Vendor Name	Manufacturer	Service	Distributor	Goods	Services	Account #	Dept Id.	Est. Annual \$ 2019	Annual Spent 2018	Annual Spent 2017	Annual Spent 2016	Comments
AIMAC INC		x		CMMS Software support	Technical support for the modification of the City's existing Computerized Maintenance System	55916	510230	\$ 80,000.00	\$ 23,078.50	\$ 33,249.75		
Infor			x	CMMS Software - EAM licensing and Modules	Infor EAM licensing and extensions	55916	510230	\$ 250,000.00	\$ 43,211.00			
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	\$ 75,000.00	\$ 30,000.00	\$ 29,749.58	\$ 36,130.61	
Evans Utility & Municipal Products	X	X	X	Meter spacers of various sizes and red red 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	\$ 21,000.00	\$ 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	\$ 25,000.00	\$ 30,000.00	\$ 23,446.00	\$ 19,650.00	
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, Plant Operations, Plant Maintenance & Technical Services, and Compliance & Regulations	55916	510280	\$ 25,000.00	\$ 24,396.60	\$ -	\$ -	
						55916	510275	\$ 11,000.00	\$ 10,924.08	\$ -	\$ -	
						55916	510320	\$ 12,000.00	\$ 11,868.60	\$ -	\$ -	
						53445	510260	\$ 5,000.00	\$ 4,966.44	\$ -	\$ -	
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	\$ 15,000.00	\$ 10,000.00	\$ 30,000.00	\$ -	
Pipeline Repair Services Inc.		X		Specialized pipeline repair services (6" to 36" linestop as a temporary isolation point)	OEM spare parts, equipment and services to maintain existing equipment utilized by Water Distribution and Wastewater Collection	55916	510280	\$ 60,000.00	\$ 56,500.00	\$ 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 Water & Wastewater Systems Planning	53051	510305	\$ 20,000.00	\$ 30,000.00	\$ 11,050.11	\$ 10,516.13	
Voicenet Interactive Inc	X	X		An emergency notification system where our data is stored within Canada on Canadian servers.	To provide mass outbound 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	\$ 10,000.00	\$ -	\$ -	
Flowpoint Environmental Systems LP		X		Software which supports our Bulk Water Filling Stations to allow customers to create an account online and purchase water online.	Dispensing Systems Water Exchange Annual Cloud Software and Extended Warranty	55916	510220	\$ 12,575.00	\$ 12,575.00			
Neptune Technology Group		X		Software which supports our Carlisle AMI Pilot Project to ensure that meter reads can be obtained from this technology	Collector and Software maintenance	55916	510220	\$ 15,000.00	\$ 14,075.00			
								\$ 636,575.00	\$ 331,595.22	\$ 174,462.44	\$ 66,296.74	

CERTIFIED  
Regulation 22/04



INSTALLATION OF MOUNTING H-BRACKET  
FOR CUSTOMER OWNED EQUIPMENT.



1. INSTALL 3 3/8 x 3" LAG BOLTS THROUGH H-BRACKET HOLES (A) INTO WOOD POLE. USE BANDING ON CONCRETE POLE.
2. INSTALL CABINET ONTO THREADED STUDS (B) ON H-BRACKET AND INSTALL NUTS.

NOTES:

1. ENSURE DRIP LOOP (915mm) IS INSTALLED.
2. ALL EQUIPMENT/MATERIALS SHOWN WILL BE SUPPLIED BY CUSTOMER, INSTALLED BY HUC CREWS.
3. GROUND AND BOND 3 PHASE DISCONNECT AND METER BASE AS PER 41-99 AND 27-51.
4. CUSTOMER SUPPLIED/OWNED CONDUIT, CONDUCTOR, AND WEATHER HEADS.
5. CUSTOMER SUPPLIED/OWNED 347/600V 100/200A 3 PHASE DISCONNECT/BREAKER (FUSED). DISCONNECT/BREAKER TO BE WATERPROOF AND LOCKABLE.
6. 7-JAW 200A METER OWNED BY HORIZON UTILITIES, METER BASE SUPPLIED/OWNED BY CUSTOMER.
7. INSTALLATION TO BE INSPECTED AND APPROVED BY ELECTRICAL SAFETY AUTHORITY (ESA).
8. DEMARCATION POINT IS THE POINT OF CONNECTION TO OVERHEAD SECONDARY BUS/SERVICE.
9. POLE EXISTING AND OWNED BY HORIZON UTILITIES.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED



DRAWING STATUS	BY	DATE DD/MM/YY
DRAWN:	BN	22/04/15
CHECKED:	RM	28/05/15
APPROVED:	DH	28/05/15

TEMPORARY SERVICE  
INSTALLATION 600V  
WYE SERVICE  
100A/200A

DRAWINGS  
NOT TO SCALE

REFERENCE DRAWINGS:

41-99  
27-51

DRAWING #

27-14B

SHEET#

1

REVISION#

1