

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
3M	x			Original Equipment Manufacturer for DBI-Sala Davit Guard System and associated parts. Original Equipment Manufacturer of NSF 53, BLA100 Series Filters for the Carlisle Well water treatment.			\$ 50,000.00	\$ -	\$ -	\$ 6,000.00	\$ -	\$ -
ABB Inc. (Asea Brown Boveri)	x	x	x	Original Equipment Manufacturer for analyzers and transmitters, as well as GE Industrial Solutions electrical control equipment, switchgear, soft starters, variable frequency drives, power distribution equipment / Centrifuge power and control equipment. Original Equipment Manufacturer for regulatory water quality monitoring equipment which include measurement & analytical products.	Original Equipment Manufacturer, sole service provider for ABB and GE Industrial Solutions products.	Original Equipment Manufacturer, sole goods provider for ABB and GE Industrial Solutions products.	\$ 15,000.00	\$ -	\$ -	\$ -	\$ 2,280.00	\$ 13,768.00
ACG - Envirocan Wastewater Treatment		x	x		Sole authorized service provider for JWC Environmental, Muffin Monster®, Channel Monster®, Auger Monster®, Screenings Washer Monster®, Honey Monster® and Monster Screening Systems® products.	Sole authorized parts distributor for JWC Environmental, Muffin Monster®, Channel Monster®, Auger Monster®, Screenings Washer Monster®, Honey Monster® and Monster Screening Systems® products.	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ 36,300.00
ACI Instrumentation Ltd.		x	x		ACI Instruments LTD is the sole service provider for Pulsar, Greyline and Krohne products.	ACI Instruments LTD is the sole distributor of parts for Pulsar, Greyline, Hydroflow and Krohne products.	\$ 35,000.00	\$ 3,693.04	\$ 13,405.20	\$ 21,000.00	\$ 22,589.00	\$ 79,319.00
Active Scale Manufacturing Inc.	x	x	x	Original Equipment Manufacturer for the truck weigh scale system used at the Woodward WWTP.	Sole authorized service provider for Active Scale products.	Sole authorized parts provider for Active Scale products.	\$ 10,000.00	\$ 6,371.88	\$ 8,285.79	\$ 3,872.00	\$ 850.00	\$ -
Additel	x			Original Equipment Manufacturer for process measurement and calibration monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Advantech	x			Original Equipment Manufacturer for Advantech equipment			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Aerzen Canada Inc.	x	x	x	Original Equipment Manufacturer for Aerzen blowers and associated parts.	Sole authorized service provider for Aerzen Canada products.	Sole authorized parts provider for Aerzen Canada products.	\$ 10,000.00	\$ 39,581.38	\$ 1,437.81	\$ -	\$ 1,788.90	\$ 1,040.60
Ainsworth Inc. (Formerly ESC Automation Inc.)		x	x		Sole authorized service provider for Delta Controls products.	Sole authorized parts provider for Delta Controls products.	\$ 30,000.00	\$ -	\$ 21,808.75	\$ 54,000.00	\$ 43,937.00	\$ 82,887.00

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AirOn HVAC Services Ltd.	x	x		Original Equipment Manufacturer authorized service provider for Honeywell Niagara (WAS Building) and Bistech (TSB Building) products. 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, as well as AirOn technicians are specially trained to maintain and service this MUA unit, until a replacement unit can be provided under separate contract. In addition AirOn is the Sole Original Equipment Manufacturer authorized service provider for Honeywell Niagara (WAS Building) and Bistech (TSB Building) products.		\$ 115,000.00	\$ 108,567.85	\$250,876.73	\$75,629	\$ 175,519.15	\$ 74,650.00
Alfa Laval Canada Inc.	x	x	x	Original Equipment Manufacturer for centrifuges, gravity thickener belts (formerly Ashbrooks) and associated parts.	Sole authorized service provider for Alfa Laval Canada Inc. (including associated parts required for service) and Ashbrooks products.	Sole parts provider for Alfa Laval Canada Inc. and Ashbrooks products.	\$ 75,000.00	\$ 81,651.57	\$ 159,225.34	\$ 10,035.00	\$ 26,114.02	\$ 315,342.13
Anderson Electronics		x	x		Anderson Electronics is the preferred service provider for DC power battery bank protection systems. These systems are used to protect the electrical system including high voltage switch gear, pumps used at Woodward water treatment plant, major pumps stations and UPS units in RTC stations. They also provide ongoing data trending, battery condition history and perform any required repairs. As they have all the history in their proprietary data base, an alternate provider would not have the history and trending data to make the appropriate repair recommendations.	Anderson Electronics is the preferred parts provider for DC power battery bank protection systems. These systems are used to protect the electrical system including high voltage switch gear, pumps used at Woodward water treatment plant, major pumps stations and UPS units in RTC stations. They also provide ongoing data trending, battery condition history and perform any required repairs. As they have all the history in their proprietary data base, an alternate provider would not have the history and trending data to make the appropriate parts recommendations.	\$ 50,000.00	\$ -	\$ 8,679.28			
Aqua Technical Sales Inc.			x			Sole authorized distributor for Smith & Loveless line of sewage pumping, headworks, screening, treatment equipment, Shade Aides and associated parts for the above.	\$ 30,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
APCO	x			Original Equipment Manufacturer of specialty valves.			\$ -	\$ -	\$0.00	\$0	\$ -	\$ -
Armstrong Fluid Technology	x			Original Equipment Manufacturer for pumps, hot water recirculation systems and associated parts.			\$ -	\$ -		\$ -	\$ -	\$ -
A.R. Thomson Group	x			Original Equipment Manufacturer of Gaskets (soft and metal), packing, mechanical seals and bearing isolators.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Asco	x			Original Equipment Manufacturer for regulatory flow, control and pressure control equipment and Transfer Switches			\$ 5,000.00	\$ -	\$ -	\$ -	\$ -	\$ -

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ASI Group Ltd.		x			Provision of underwater services for inspection, repair, cleanout, or installation of equipment. ASI are a specialized local and readily available firm to respond to emergency situations. They have extensive experience performing diving work with Hamilton Water which mitigates safety risks and have a vast understanding of the City's water infrastructure.		\$ 15,000.00	\$ 17,382.68	\$ -	\$ -	\$ 8,151.00	\$ 25,111.00
ATI	x			Original Equipment Manufacturer for gas analytical equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Auma Actuators Inc	x			Original Equipment Manufacturer for actuators.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Avensys Solutions Inc.		x	x		Sole authorized service provider for Teledyne ISCO and QCEC automatic water/wastewater sampling and flow monitoring equipment for Canada.	Sole parts distributor for Fluid Components International LLC products for the Province of Ontario and sole distributor for Teledyne ISCO and QCEC automatic water/wastewater sampling and flow monitoring equipment for Canada.	\$ 25,000.00	\$ 11,556.41	\$ 34,782.01	\$ 70,571.00	\$ 34,219.00	\$ 48,481.45
AW Chesterton Co Ltd	x	x	x	Original Equipment Manufacturer for Mechanical Seal Pumps and Valve Packing, Engineered Polymer Hydraulic/Pneumatic Seals, Sheet Gaskets, Metal and Concrete Composite Coating Systems, MRO and Production Cleaners and Degreasers, Lubricants and Metal Working Fluids.	Sole authorized service provider for AW Chesterton Co. Ltd products and Inpro/Seals® Custom Engineered Bearing Protection and Process Seals.	Sole parts distributor for Inpro/Seals® Custom Engineered Bearing Protection and Process Seals.	\$ 60,000.00	\$ 52,828.00	\$ -	\$ 1,542.00	\$ 3,666.60	\$ 10,560.00
Aysix Analytical Equipment	x			Original Equipment Manufacturer for process monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Banyan	x			Original Equipment Manufacturer of FRP (non-metallic) flight chain, flight board links, sprockets, spacers, UHMW wear strips, wear shoes and fibreglass C&L flight boards.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Benshaw	x			Original Equipment Manufacturer for soft starters, variable frequency drives and switchgear equipment.			\$ 10,000.00	\$ -		\$ -	\$ -	\$ 8,028.00
Bentley Nevada a division of BAKER HUGHES ENERGY SERVICES CANADA INC	x	x	x	Original Equipment Manufacturer for pump monitoring equipment.	Sole authorized service provider for Bentley Nevada products, including but not limited to vibration monitoring equipment and associated parts.	Sole goods provider for Bentley Nevada products, including but not limited to vibration monitoring equipment and associated parts.	\$ 75,000.00	\$ -	\$ 13,891.53	\$ -	\$ -	\$ 6,442.50

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Biorem		x			The manufacturer of the proprietary biofilter system at Woodward WWTP is no longer in business. Biorem is the only known service provider that has experience inspecting, maintaining, repairing and training on this proprietary system. Furthermore, Biorem is the manufacturer of the proprietary biofilter at HCS6A which will require similar inspection, maintenance and repair services.		\$ 15,000.00					
Blue-White Industries	x			Original Equipment Manufacturer for chemical metering and dosing equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BNW Valve	x			Original Equipment Manufacturer of zero leakage stainless steel sluice gates, mud valves, flap valves, telescopic valves and stop gates.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Brentwood Industries	x			Original Equipment Manufacturer for clarifier tank equipment and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Byron Jackson	x			Original Equipment Manufacturer of industrial pumps and systems.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C-CAN Power Systems Inc.	x		x	Original Equipment Manufacturer of a wide range of high performance DC Power Systems used to support critical industrial process systems.		Sole authorized parts distributor for high performance DC Power Systems and battery charger systems.	\$ 20,000.00					
C & M Environmental Technologies Inc.		x	x		Sole authorized service provider for Brentwood (inspection service only), WesTech Engineering LLC and Spirac products.	Sole authorized distributor for Brentwood, WesTech Engineering LLC, and Spirac products. Sole authorized sales representative for WesTech Engineering sludge mixers and associated parts (eg. draft tubes, motors, etc.) in Ontario.	\$ 30,000.00	\$ -	\$ -	\$ -	\$ -	\$ 21,376.88
Can-Am Instruments Ltd.		x	x		Sole Original Equipment Manufacturer authorized service provider for Hach Flow & Sampling in Ontario.	Sole authorized distributor of Hach Flow & Sampling products in Ontario.	\$ 10,000.00	\$ 4,876.27	\$ 6,647.22	\$ 10,073.00	\$ 1,958.34	\$ 13,955.76
Cancoppas Limited		x	x		Sole authorized service provider for Aysix Technologies products, and GWF Technologies.	Sole authorized parts distributor for Aysix Technologies products in Canada, and GWF Technologies products in Ontario.	\$ 15,000.00	\$ 12,132.25	\$ 9,076.55	\$ 62,427.00	\$ 24,677.25	\$ 19,765.42

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Caterpillar Inc.	x	x	x	Original Equipment Manufacturer for engines, generators, controllers and associated parts for back-up power equipment.	Within the Electrical Power Centre, all generator maintenance services, proprietary PLC and automation control components must be performed by caterpillar due to the complex nature of the equipment installed through a capital project, procured through a competitive process and to ensure warranty compliance	Within the Electrical Power Centre, all propriety and non propriety parts required for generator maintenance services shall be supplied by caterpillar due to the complex nature of the equipment installed through a capital project, procured through a competitive process and to ensure warranty compliance	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Chemline	x			Original Equipment Manufacturer for pressure control devices, valves, control and regulation devices, piping, tubing and flow meters.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Chemtrac	x			Original Equipment Manufacturer of process monitoring and control instruments.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Chopper	x			Original Equipment Manufacturer of Pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cla-Val	x			Original Equipment Manufacturer for specialty valves and flow monitoring.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Conval Process Solutions Inc.			x			Sole authorized distributor for Golden Anderson (GA) Industries products in Ontario.	\$ 10,000.00	\$ 9,154.25	\$ 15,751.61	\$ -	\$ 23,618.45	\$ 13,709.00
Crane Pumps And Systems Canada	x			Original Equipment Manufacturer pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cummins	x			Original Equipment Manufacturer for engines, generators, controllers and associated parts for back-up power equipment.			\$ 10,000.00	\$ -	\$ -	\$ -	\$ 1,094.34	\$ -
Danfoss / Vacon	x			Original Equipment Manufacturer for Vacon soft starters and variable frequency drives.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Delta Controls	x			Original Equipment Manufacturer of building automation systems.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Devine & Associates Ltd.		x	x		Sole authorized service provider of Cla-Val products in Ontario.	Sole authorized parts distributor of Cla-Val products in Ontario.	\$ 10,000.00	\$ 19,709.90	\$ 20,568.97	\$ 4,086.00	\$ 22,324.00	\$ 4,216.00
Dezurik	x			Original Equipment Manufacturer of valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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Directrik Inc.		x	x		Sole service provider for Hidrostal, Armstrong, Flowserve and seepex pumps and equipment.	Sole authorized distributor for Seepex, Armstrong, Vogelsang, Flowserve (including but not limited to Worthington, Pacific, Ingersoll-Rand, Byron Jackson, Durco, Innomag and Sihi), Trillium Flow Technologies (WEMCO, WSP), and Hidrostal pumps and products for the province of Ontario	\$ 25,000.00	\$ 109,223.47	\$ 18,286.11	\$ 18,067.00	\$ 24,572.53	\$ -
Durco	x			Original Equipment Manufacturer of plug and butterfly valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DXP - NatPro			x			Sole authorized part distributor for Pentair and Aurora products.	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Eaton Industries Canada Company	x	x	x	Original Equipment Manufacturer of parts for electrical distribution equipment covering Eaton Industries Canada, Cutler-Hammer, Westinghouse, Cooper, and Klockler Moller brand names. Parts include motor control, soft starter/VFD's, transformers, switchgear, breakers, relays/power meters, Ct's, Pt's, surge protectors, Uninterrupted Power Supply (UPS) units and other associated electrical distribution parts.	Authorized provider of service, maintenance and technical support including the supply and installation of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Eaton control logic. This work will require programming to be completed by Eaton. The selection of Eaton as the station control software was determined through a competitive capital procurement process.	The supply of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Eaton control logic. This work will require programming to be completed by Eaton. The selection of Eaton as the station control software was determined through a competitive capital procurement process.	\$ 150,000.00	\$ 200,337.04	\$ 34,645.27	\$ 77,000.00	\$ 127,341.00	\$ 124,004.43
Eaton Powerware	x	x	x	Original Equipment Manufacturer of UPS systems ranging from 110v to 600V	Service/maintenance provider for UPS systems (including any parts required for service/maintenance) covering Eaton Powerware Equipment. Eaton Powerware has an intimate history of the needs and complexity, as well as technicians are specially trained to maintain their own Original Equipment Manufacturer equipment at various locations across Hamilton Water.	Authorized provider of service, maintenance and technical support for UPS systems including the supply and installation of proprietary and associated non-proprietary parts and assemblies covering Eaton Powerware Equipment. The selection of Eaton Powerware as the station equipment was determined through a competitive capital procurement process.	\$ 60,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Endress+Hauser	x			Original Equipment Manufacturer for process measurement and optimization monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Environmental Dynamics International / Nexom	x			Original Equipment Manufacturer for aeration diffusers and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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Eramosa		x	x		Service provider for the SCADA architecture, DATA, Network under SCADA master plan and SCADA _E network provider. Eramosa is the most qualified service provider for work required within the core areas of the SCADA control centre and application servers based on their legacy knowledge and confidentiality requirements pertaining to cyber security of the SCADA System.	Parts Provider of the SCADA architecture , DATA, Network under SCADA master plan and SCADA _E network provider. Eramosa is the most qualified provider for work required within the core areas of the SCADA control centre and application servers based on their legacy knowledge and confidentiality requirements pertaining to cyber security of the SCADA System.	\$ 60,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Everest Automation		x	x		Sole authorized provider of service for ABB measurement & analytical products. This includes temperature, pressure, level, flow, combustion, pH, ORP, conductivity, gas analyzers and liquid analyzers, etc. excluding Aquamaster.	Sole authorized parts and equipment distributor for ABB measurement & analytical products. This includes temperature, pressure, level, flow, combustion, pH, ORP, conductivity, gas analyzers and liquid analyzers, etc. excluding Aquamaster.	\$ 10,000.00					
Evoqua Water Technologies Ltd.	x		x	Original Equipment Manufacturer for intake screens, clarification systems, separation systems and associated parts as well as disinfection, water quality and regulatory monitoring equipment.		Sole authorized parts distributor for Wallace & Tiernan equipment and associated parts.	\$ 100,000.00	\$ 152,070.51	\$ 20,697.11	\$ 120,508.00	\$ 21,104.99	\$ 549,684.42
Fag Bearings	x			Original Equipment Manufacturer for bearings.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Floval Equipment Ltd.		x	x		Sole authorized service provider for BNW Valve, HydraTite Seal products and Dezurik (APCO, Hilton and Willamette).	Sole authorized parts distributor for BNW Valve, HydraTite Seal, DeZURIK, APCO, Willamette, and Hilton parts and equipment.	\$ 15,000.00	\$ 1,395.23	\$ 25,710.74	\$ -	\$ 14,000.00	\$ 19,723.00
Flow Motion	x			Original Equipment Manufacturer for chemical metering equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Flowserve	x			Original Equipment Manufacturer for valves and pumps.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fluid Components International LLC	x			Original Equipment Manufacturer of thermal mass flow meters, flow switches and level switches.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Flygt	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fontaine-Aquanox	x			Original Equipment Manufacturer of water control gates.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gerrie Electric Wholesale Limited		x	x		Sole authorized service provider for Rockwell Automation, Allen Bradley, Endress+Hauser brand electrical distribution systems and parts. Rockwell Agent for technical support under Rockwell technical support agreement.	Sole authorized parts distributor for Rockwell Automation, Allen Bradley, and Endress+Hauser parts for electrical, distribution, Instrumentation Control components and devices.	\$ 130,000.00	\$ 191,849.31	\$ 262,137.64	\$ 243,200.00	\$ 135,000.00	\$ 126,582.97

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Golden Anderson (GA Industries)	x			Original Equipment Manufacturer for valves and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gorman Rupp	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Goulds Water Technology	x			Original Equipment Manufacturer of pumps, boosters, drives, valves and controllers.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gratec	x			Original Equipment Manufacturer for mixers and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GrayMatter Systems		x	x		Gray Matter Systems, Inc. is the Partner of Record for the City of Hamilton and currently the only third-party entity GE Digital allowed to quote and provide support under the GE Digital AP agreement. Provides support for the GE Historian and Alarm and Events software.	Aventech panel computers (OIT's) with embedded ifix license	\$ 60,000.00	\$ -	\$ -	\$ 20,483.00	\$ -	\$ -
Greyline	x			Original Equipment Manufacturer of level monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grundfos	x			Original Equipment Manufacturer for submersible pumps and related parts, and chemical dosing equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GWF Technologies (Hydrovision)	x			Original Equipment Manufacturer for flow monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
H2Flow Equipment, Inc.		x	x		H2Flow Equipment Inc. is the sole authorized service provider for Environmental Dynamics International parts and equipment.	H2 Flow is the sole authorized parts provider for all UGSI Chemical Feed, Inc. PolyBlend® and DynablenD™ polymer activation products, aeration diffusers systems and associated parts. H2Flow Equipment Inc. is the sole authorized distributor for parts supplied and provided by Environmental Dynamics International	\$ 100,000.00	\$ 24,288.13	\$ 17,697.88	\$ -	\$ -	\$ -
Hach Sales & Service LP	x	x	x	Original Equipment Manufacturer for regulatory analyzers, monitoring and control devices.	Sole authorized service provider for repair, start-up service, warranty repair or maintenance on HACH instruments.	Sole source parts distributor for all Hach branded products, excluding Hach flow & sampling products (see Can-Am)	\$ 200,000.00	\$ 217,364.23	\$ 196,539.21	\$ 259,394.00	\$ 89,537.75	\$ 73,963.28
HCE Telecom Inc.	x	x	x	City authorized SCADA ISP provider	HCE provides remote SCADA access and communications to Hamilton Water Infrastructure including fibre optic cable installation and repair services. This has been secured through the City Network Fibre Contract (FCS15031) (City Wide)	Based on the City Wide contract for Services with HCE, its recommended that HCE also be the provider of communication hardware, routers, switches and cellular antennas to maintain reliability and compatibility of the systems.	\$ 10,000.00	\$ 4,603.63	\$ -	\$ 29,000.00	\$ -	\$ -



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Hibon	x	x		Original Equipment Manufacturer of Hibon brand multi stage centrifugal blowers and associated parts	Sole authorized service center for field service visits & complete blower overhauls for multi stage centrifugal blowers in Canada.		\$ 10,000.00					
Hidrostal	x			Original Equipment Manufacturer of high-quality, low-maintenance pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HILTON	x			Original Equipment Manufacturer of shutoff and control valves			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hitachi, Hitachi Energy Formerly (ABB/GE)	x	x	x	Hitachi purchased certain divisions of ABB and GE. Now Hitachi is the Original Equipment Manufacturer for analyzers and transmitters, as well as GE Industrial Solutions electrical control equipment, switchgear, soft starters, variable frequency drives. Power distribution equipment / Centrifuge power and control equipment.	Authorized provider of service, maintenance and technical support including the supply and installation of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Hitachi or Hitachi Energy control logic. This work will require programming to be completed by Hitachi or Hitachi Energy. The selection of Hitachi or Hitachi Energy as the station control software was determined through a competitive capital procurement process.	The supply of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Hitachi or Hitachi Energy control logic will require programming to be completed by Hitachi or Hitachi Energy. The selection of Hitachi or Hitachi Energy as the station control software was determined through a competitive capital procurement process.	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Honeywell	x			Original Equipment Manufacturer for Miller Davit Guard Systems and associated parts including but not limited to davit posts, tripods, self-retracting lifelines (with rescue function) and davit bases (permanently installed and portable).			\$ 10,000.00					
Howden Roots, LLC	x			Original Equipment Manufacturer of rotary positive displacement blowers.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HTS Engineering Ltd.		x	x		Sole authorized service provider for Alerton products for building automation.	Sole authorized parts distributor for Alerton products for building automation.	\$ 50,000.00					
HydraTech Engineered Products	x			Original Equipment Manufacturer of HydraTite Seal.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hydroflow	x			Original Equipment Manufacturer for electronic water conditioners and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Hydromatic Pumps	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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Ingersoll-Rand	x			Original Equipment Manufacturer of Pumps.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Innomag	x			Original Equipment Manufacturer of sealless, non-metallic, magnetically driven pumps.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Inpro Seal products	x			Original Equipment Manufacturer of permanent bearing protection and complete shaft sealing solutions for rotating equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
J&S Valve, Inc.	x			Original Equipment Manufacturer of Gate Valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
John Brooks Company Limited		x	x		Sole authorized service provider for Grundfos (Municipal Water Utility distributor for Grundfos Sewage pumps and Controllers), Gorman Rupp and Vaughan Co. Inc. (including Chopper, Triton, and Rotomix brands).	Sole authorized parts distributor for Engineered Systems, Gorman Rupp Pumps (Municipal) , Vaughan Co. Inc. (Chopper, Triton, Rotomix), Goulds Water Technology and Grundfos (Municipal Water Utility distributor for Grundfos Sewage pumps and Controllers).	\$ 40,000.00	\$ 40,648.44	\$ 2,652.93	\$ 10,186.00	\$ 270.60	\$ 75,878.02
John Crane	x			Original Equipment Manufacturer of seals, packing, couplings and associated parts.			\$ 40,000.00	\$ 41,483.00	\$ 6,156.55	\$ 22,400.00	\$ 9,455.84	\$ 13,829.20
JSM Controls Inc		x			JSM is the preferred service provider to the City of Hamilton for chlorination equipment and gas chlorination systems including any parts required for service in water/wastewater treatment applications. <u>Rationale:</u> 1.JSM Controls maintains the appropriate TSSA licensing and credentials to perform this work. 2.Extensive experience with Hamilton Water leaves them well-versed with the process and equipment within Hamilton Water's facilities. 3.Expertise and timely service is critical to ensure regulatory compliance. 4.Market scan in 2016 and current input from Evoqua Water Technologies indicates that small-scale service on chlorination systems is limited to only a few Canadian vendors, and due to proximity JSM is the best option for Hamilton Water. In advance of the 2024-2025 Standardization cycle, the team has committed to completing a municipal review and procurement Request for Information to determine if a competitive bidding process is required for this service.		\$ 100,000.00	\$ 69,197.18	\$ 9,996.26	\$ 19,000.00	\$ 40,000.00	\$ 40,894.00

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
JWC Environmental	x			Original Equipment Manufacturer for Muffin Monster®, Channel Monster®, Auger Monster®, Screenings Washer Monster®, Honey Monster® and Monster Screening Systems® and associated parts			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Krohne	x			Original Equipment Manufacturer for flow meters.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
KSB Pumps Inc. (Canada)	x	x	x	Original Equipment Manufacturer for pumps and associated parts.	Sole authorized service provider in Canada for all KSB manufactured pumps and valves.	Sole authorized parts provider in Canada for all KSB manufactured pumps, valves and associated goods.	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ 9,102.26
Kurz Instruments	x			Original Equipment Manufacturer of flow monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Lakeside Process Controls Ltd		x	x		Sole authorized service provider for Emerson Automation Solutions products including, but not limited to, MicroMotion flowmeters, Fisher Control Valves, DeltaV® Control Systems, and the Rosemount brand of measurement devices.	Sole authorized parts distributor for Emerson Automation Solutions products including, but not limited to, MicroMotion flowmeters, Fisher Control Valves, DeltaV® Control Systems, and the Rosemount brand of measurement devices.	\$ 10,000.00	\$ 2,691.56	\$ 36,997.58	\$ 32,463.00	\$ 4,638.06	\$ 1,280.00
Landmark Municipal Services ULC (LMS)		x			Landmark is the preferred service provider to the City of Hamilton for annual aircraft lighting and water tower maintenance and repair. They have extensive experience, have been the primary constructor's of water towers owned and operated by the City of Hamilton, and have a proven track record of providing reliable, responsive and safe service for work on the City of Hamilton's water towers. <u>Rationale:</u> 1.Aviation navigation lighting, regulated by Canadian Aviation Regs – requires immediate replacement if lights fail. 2.Landmark is the original constructor of 5 out of 7 water towers/standpipes owned by Hamilton Water, so they have the inherent knowledge of the structures. 3.Landmark is the market leaders in this service and have the familiarity and expertise with the infrastructure we are asking them to work on. In advance of the 2024-2025 Standardization cycle, the team has committed to completing a municipal review and procurement Request for Information to determine if a competitive bidding process is required for this service.		\$ 45,000.00	\$ 42,956.44	\$ -	\$ 10,350.00	\$ 18,500.00	\$ 9,800.00

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Limitorque Products	x			Original Equipment Manufacturer of Valve Actuators.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Link Belt	x			Original Equipment Manufacturer for bearings, seals and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Lonestar	x	x	x	Original Equipment Manufacturer for aeration blowers and associated parts.	Sole provider for all service and warranty needs for blower related products in Ontario.		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Lotowater Technical Services Inc		x			Lotowater is the preferred service provider to the City of Hamilton for potable water wells assessment, maintenance and repair. They are local and readily available to respond to emergency situations, they have profound experience with each of the City's communal drinking water wells, and they maintain an inventory of repair parts and equipment at their facility.		\$ 10,000.00	\$ 2,035.20	\$ 6,906.46	\$ 135,230.00	\$ -	\$ -
Mccrometer	x			Original Equipment Manufacturer for regulatory flow monitoring devices.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Mettler Toledo	x	x	x	Original Equipment Manufacturer of the M series Water pH analyzers and associated sensors	Sole provider of service for the M series Water pH analyzers and associated sensors.		\$ 20,000.00					
Micro Pump	x			Original Equipment Manufacturer of pumps for regulatory water quality sampling systems and chemical metering equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Moyno Inc	x			Original Equipment Manufacturer for pumps, grinders and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MSA	x			Original Equipment Manufacturer for gas monitoring equipment, self contained breathing apparatus, confined space entry equipment, and associated replacement parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Myers Pumps	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Netzsch	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Nivus	x			Original Equipment Manufacturer for flow and level control equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pacific	x			Original Equipment Manufacturer of pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pentair	x			Original Equipment Manufacturer for Pentair (Aurora, Aurora Fire, Fairbanks, Nijhuis, Layne-Vertiline, VTSH (vertical turbine solid handling) products and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Philadelphia Mixing Solutions	x			Original Equipment Manufacturer for mixers and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PMC Engineering	x			Original Equipment Manufacturer for level, pressure and process monitoring and control equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Powell Electric (Formerly GE)	x	x	x	<p>Powell Electric is the Original Equipment Manufacturer for the following equipment:</p> <ol style="list-style-type: none"> <li>1) PowerVac Switchgear Product Line - MV Power Distribution Equipment</li> <li>2) PowlVac Switchgear Product line - MV Power Distribution Equipment</li> <li>3) Powell Breaker Technologies Inc. (PBTI) - MV Power Distribution Equipment</li> <li>4) Powell Flextrol Product Line - MV Power Distribution Equipment</li> <li>5) Powell Flexgear ProductUne- LV Power Distribution Equipment</li> <li>6) Powell Arc Whipper - MV Transfer/ Padmount Switches (SF6 and Oil)</li> <li>7) Delta/Unibus Product Lines - Isolated Phase Bus Equipment</li> <li>8) Delta/Unibus Product Lines - LV and MV Non-Seg Bus Duct Bus Equipment</li> <li>9) Powell Bus Product Line - LV and MV Non-Seg Bus Duct Bus Equipment</li> </ol> <p>Original Equipment Manufacturer for power distribution, soft starters and variable frequency drives and other associated electrical distribution parts (including PLC's, programming and design).</p>	Authorized provider of service, maintenance and technical support including the supply and installation of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Powell Electric control logic. This work will require programming to be completed by Powell Electric. The selection of Powell Electric as the station control software was determined through a competitive capital procurement process.	The supply of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Powell Electric control logic will require programming to be completed by Powell Electric. The selection of Powell Electric as the station control software was determined through a competitive capital procurement process.	\$ 100,000.00	\$ -	\$ 9,957.24			

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Powell Fabrication & Manufacturing Inc.	x			Original Equipment Manufacturer of pneumatic valve closure systems of the chlorine rail cars.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pro Aqua Inc		x	x		Sole service provider for Schwing Bioset equipment and parts in Ontario.	Sole authorized parts distributor for Evoqua's Wastewater Treatment Group equipment, and are the only authorized seller of Schwing Bioset Parts in Ontario.	\$ 200,000.00	\$ 34,991.73	\$ -	\$ 2,336.00	\$ 2,080.70	\$ 110,566.68
Prominent	x			Original Equipment Manufacturer for regulatory water quality monitoring and disinfection equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Pro-Tech Power		x	x		Pro-Tech Power is the exclusive authorized service representative for Schweitzer Engineering Laboratories Inc. in the province of Ontario.	Pro-Tech Power is the exclusive authorized manufacturer's representative for Schweitzer Engineering Laboratories Inc. in the province of Ontario.	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Pulsar	x			Original Equipment Manufacturer of level monitoring equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RAVCO International		x			Ravco is the preferred service provider including any associated parts to complete the work, as required for the fountain located at the low lift building. Ravco designed the layout, PLC control logic and wind and drainage sensors needed for the operation. Ravco has the intimate knowledge necessary to perform ongoing maintenance as required.		\$ 25,000.00	\$ 3,917.77	\$ -	\$ -	\$ -	\$ -
Red Valve	x			Original Equipment Manufacturer for valves and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rockwell Automation (Allen-Bradley)	x			Original Equipment Manufacturer for soft starters, variable frequency drives, Reduced Voltage Starters, MCC components and SCADA components.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ro-Flo Compressors LLC	x			Original Equipment Manufacturer for compressors and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,558.00
Rosetown Mechanical		x			Service and supply of parts for HVAC systems in SCADA hub rooms Rosetown Central has been maintaining and servicing the Liebert computer room equipment at 700 Woodward Avenue for just over 15 years and are well-versed in the site and equipment conditions. this knowledge adds value for the speed of repairs and historical knowledge for any upgrade recommendations.		\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Rotamix	x			Original Equipment Manufacturer of Pumps.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rotork Controls (Canada) Ltd.	x	x	x	Original Equipment Manufacturer for actuators.	Original Equipment Manufacturer authorized service provider.	Original Equipment Manufacturer authorized distributor.	\$ 65,000.00	\$ 55,586.23	\$ 36,656.31	\$ 13,000.00	\$ 17,205.05	\$ 43,910.66
Royce Technologies	x			Original Equipment Manufacturer of monitoring and control instrumentation and sensors.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S&C Electric Canada	x	x		Original Equipment Manufacturer for electrical distribution equipment including all controls, battery chargers and power distribution/communication equipment.	Original Equipment Manufacturer authorized service/maintenance provider for power distribution systems including any parts required for service and maintenance. S&C Electric Canada has an intimate history of the needs and complexity of the equipment in the EPC and have specifically trained technicians to maintain their own Original Equipment Manufacturer equipment.		\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
SCG Process		x	x		Sole service provider for Spence, ProMinent Canada and the Powell Fabrication & Manufacturing Inc. UniPro™ Valve Closure Systems and related systems.	Sole authorized parts distributor for Howden Roots, LLC (formerly Spencer Turbine), Watson Marlow Fluid Technology, ProMinent Canada products and Powell Fabrication & Manufacturing Inc.	\$ 80,000.00	\$ 78,641.42	\$ 98,534.04	\$ 70,000.00	\$ 37,965.04	\$ 52,918.46
Schneider Electric Canada	x	x	x	Original Equipment Manufacturer for the following power distribution system: 1) Federal Pioneer Ltd. - LV & MV Distribution Equipment 2) Square D - LV & MV Distribution Equipment 3) Merlin Gerin – LV & MV Distribution Equipment 4) Telemecanique – Automation & Control Products 5) APC - UPS Equipment 6) ASCO – Transfer Switches 7) Powerlogic – Metering Equipment. Also the Original Equipment Manufacturer for ION Metering parts and relays, and other associated electrical distribution parts.	Authorized provider of service, maintenance and technical support including the supply and installation of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Schneider Electric Canada control logic. This work will require programming to be completed by Schneider Electric Canada. The selection of Schneider Electric Canada as the station control software was determined through a competitive capital procurement process.	Provider of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Schneider Electric Canada control logic will require programming to be completed by Schneider Electric Canada. The selection of Schneider Electric Canada as the station control software was determined through a competitive capital procurement process.	\$ 20,000.00	\$ 4,086.69	\$ -	\$ -	\$ -	\$ 10,874.44
Schweitzer Engineering Laboratories	x			Original Equipment Manufacturer for protective relay and communications equipment associated with the power distribution system. Distributer - Pro-Tech listed above			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Schwing Bioset Inc	x			Original Equipment Manufacturer for biosolids equipment and associated parts.			\$ -	\$ -	\$ 24,681.36	\$ 34,000.00	\$ 230,598.16	\$ 26,132.50

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Seepex	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SES North America Inc. DBA Suez Digital Solutions.	x	x		Original Equipment Manufacturer and support for eRIS reporting software used by SCADA and Ops.	Sole Original Equipment Manufacturer authorized service agent in North America for existing eRIS software users.		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Siemens Canada Limited	x	x	x	Original Equipment Manufacturer for power distribution, soft starters and variable frequency drives, PLC's and other associated electrical distribution parts.	Provider of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Siemens Canada Limited control logic will require programming to be completed by Siemens Canada Limited. The selection of Siemens Canada Limited as the station control software was determined through a competitive capital procurement process.	Provider of proprietary and associated non-proprietary parts and assemblies in stations/facilities operated using Siemens Canada Limited control logic will require programming to be completed by Siemens Canada Limited. The selection of Siemens Canada Limited as the station control software was determined through a competitive capital procurement process.	\$ 40,000.00	\$ -	\$ 2,533.83	\$ -	\$ -	\$ 58,480.04
Sihi	x			Original Equipment Manufacturer of liquid and vacuum pumps, compressors and systems			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Singer Valve	x			Original Equipment Manufacturer for valves and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SKF Bearings	x			Original Equipment Manufacturer for bearings.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Smart Turner Pumps Inc.	x	x	x	Original Equipment Manufacturer for pumps and associated parts.	Sole authorized service provider for Smart Turner Pumps.	Sole authorized parts distributor of Smart Turner Pumps.	\$ 60,000.00	\$ 59,931.67		\$ 58,370.00	\$ -	\$ -
Smith & Loveless, Inc.	x		x	Original Equipment Manufacturer for pumps, grit classification systems and associated parts.		Original Equipment Manufacturer and sole distributor of Smith & Loveless products and equipment.	\$ 80,000.00	\$ 77,845.39	\$ 75,006.30	\$ -	\$ -	\$ -
Spaans Babcock	x	x	x	Original Equipment Manufacturer for screws, gear box and associated parts.	Original Equipment Manufacturer and sole provider of Spaans Babcock training / inspection and site services in North America. The products include Spaans Babcock screw pumps, hydro screw generators, fine screen and any spare parts related to these products.	Original Equipment Manufacturer and sole distributor of Spaans Babcock products in North America. The products include Spaans Babcock screw pumps, hydro screw generators, fine screen and any spare parts related to these products.	\$ 20,000.00	\$ 39,401.54	\$ 15,610.01	\$ 71,125.00	\$ 8,455.00	\$ 7,833.00



Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
SPD Sales Limited		x	x		Sole Original Equipment Manufacturer authorized service provider for Grundfos (Dosing and Disinfection Products), Kurz Instruments, Chemtrac, ATI, Xylem Brands (YSI IQ Sensornet, Royce Technologies & WTW products).	Sole authorized distributor for MSA Safety Inc. (for Fixed Gas and Flame Detection products), ATI products, Blue-White Industries Pro-Series M product line, Nivus, Grundfos (Dosing and Disinfection Products), Kurz Instruments, Chemtrac, and Xylem Brands (YSI IQ Sensornet, Royce Technologies & WTW products).	\$ 125,000.00	\$ 154,107.69	\$ 113,558.43	\$ 115,781.00	\$ 79,801.75	\$ 43,437.00
Spirac	x			Original Equipment Manufacturer for grit handling augers and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SPX Flow	x			Original Equipment Manufacturer for mixer process systems and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SRP Control Systems Limited		x	x		Sole Authorized Service Provider for PMC Engineering Legacy Series Industrial Pressure Transmitters, PMC Engineering VersaLine Series Submersible Depth and Level Sensors, and STS Series Precision Pressure Sensors.	Sole authorized parts distributor of PMC Engineering Legacy Series Industrial Pressure Transmitters, PMC Engineering VersaLine Series Submersible Depth and Level Sensors, and STS Series Precision Pressure Sensors in Canada.	\$ 10,000.00	\$ 3,047.72	\$ 11,977.17	\$ 19,920.00	\$ 16,215.00	\$ -
Summa Engineering Limited		x			SUMMA Engineering Ltd. as the SCADA Service vendor for the Electrical Power Center (EPC) housing the 13.8 kV switchgear Automation System project at the Woodward Avenue WWTP. Summa Engineering Ltd. being the Designer of the SCADA for this automation system are the preferred service provider for the SCADA graphics system for this complete system. SUMMA has in the past, successfully completed similar work and has completed SCADA Graphics Original Equipment Manufacturer Projects. Also, SUMMA, being the designer of the SCADA - E graphics system, can provide expert service seamlessly without delays. SUMMA has the experience and dedicated staff to provide SCADA - E service.		\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Syntec Process Equipment Ltd.		x	x		Sole authorized service provider for Banyan Products, Fontaine- Aquanox, J&S Valve Inc., Netzsch, Singer, Trueline Valve Corp., Val-Matic, Trumbull Mfg. Ltd and Red Valve / Tideflex	Sole authorized parts distributor for Banyan Products, Fontaine- Aquanox, J&S Valve Inc., Netzsch, Singer, Litorque Products for Simons Automation and Supply, Trueline Valve Corp., Val-Matic, Trumbull Mfg. Ltd and Red Valve / Tideflex	\$ 200,000.00	\$ 221,655.19	\$ 191,135.08	\$ 172,381.00	\$ 197,007.30	\$ 129,690.50
T.D. Rooke Associates Limited			x			Sole authorized parts distributor for SPXFLOW – Lightning Mixers, and associated parts.	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -

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Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Teledyne (ISCO & QCEC)	x			Original Equipment Manufacturer of auto samplers.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tideflex	x			Original Equipment Manufacturer of valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Toromont Industries Ltd.		x			Toromont programmed the PLC control according to customer Plant Control Narrative and performed the commissioning and customer witness test for the supplied system. Toromont is the sole service provider for the standby power PLC control, full commissioning, testing, training and inspection for the Woodward Power Center. Consequently Toromont is the Sole service provider (and associated parts required for the service) for C175 diesel generator sets with remote radiators, Local and manual control panels (LMCP), and System Automation System (SAS) Panels at Woodward WWTP.		\$ 30,000.00	\$ -	\$ -	\$ -	\$ 1,094.34	\$ -
Triton	x			Original Equipment Manufacturer of pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trillium Measurement and Control		x	x		Sole authorized service provider for Varec digester equipment and associated parts.	Sole authorized parts provider for Varec digester equipment and associated parts.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trojan Technologies	x	x	x	Original Equipment Manufacturer for disinfection process equipment.	Service provider must be used to ensure performance guarantee is maintained.	Parts must be purchased through Original Equipment Manufacturer to maintain warranties and guarantee equipment performance	\$ 20,000.00	\$ 14,481.86	\$ 21,470.95	\$ -	\$ -	\$ -
Troy-Ontor Inc		x	x		Sole authorized service provider for Auma products in Canada.	Sole authorized parts distributor for Auma products in Canada.	\$ 80,000.00	\$ 70,727.26	\$ 37,990.52	\$ 18,000.00	\$ 19,431.92	\$ 29,897.00
Trueline Valve Corporation	x			Original Equipment Manufacturer of industrial valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Trumbull Mfg.	x			Original Equipment Manufacturer of Mud valves, extension stems, universal joints, chainwheels, telescopic valves and relief valves			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Tyco Integrated Fire and Security Canada, Inc. o/a Johnson Controls	x	x		Original Equipment Manufacturer and service/maintenance provider of Simplex fire alarm panels.	Tyco Integrated Fire and Security Canada, Inc. o/a Johnson Controls collaboratively designed, commissioned and verified the newly installed Fire Alarm and fire protection equipment installed at 700 Woodward Avenue Hamilton. This system contains a Simplex-brand fire alarm panel and Tyco sprinkler products.		\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
UGSI Chemical Feed, Inc	x			Original Equipment Manufacturer for PolyBlend® product line of equipment, including but not limited to pumps, mixers, drives, controllers, ORP, Strantrol Analyzers and Chemical Feed/mixing systems.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
United Electric Controls	x			Original Equipment Manufacturer for pressure control and monitoring devices.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
USP Technologies		x			USP is the sole source service provider for the Binbrook Odour Control Pilot using Hydrogen Peroxide to control sewer odours. The pilot began in 2020 and is approximately 3 years in length.		\$ 100,000.00	\$ 149,698.61	\$ 92,000.00	\$ -	\$ -	\$ -
Val-Matic	x			Original Equipment Manufacturer for valves and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Varec	x			Original Equipment Manufacturer for tank level gauges.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Varec Biogas	x	x		Original Equipment Manufacturer for digester equipment and associated parts.	Only a qualified field service engineer from Varec Biogas is authorized to perform any service on Varec Biogas equipment, otherwise this will void any existing warranties for the product.		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vaughan Company	x			Original Equipment Manufacturer for pumps and associated parts.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vega	x			Original Equipment Manufacturer for process control equipment.			\$ -	\$ 55,592.78	\$ 47,146.58	\$ -	\$ -	\$ -
VEOLIA WTS Services USA Inc. (Formerly Suez Treatment Solutions Inc.)	x	x	x	Original Equipment Manufacturer for Climber Screen®, and associated parts.	Original Equipment Manufacturer and sole provider of service for Climber Screen® related equipment.	Original Equipment Manufacturer and sole distributor of Climber Screen®, and associated parts.	\$ 150,000.00	\$ 1,584.85		\$ 52,547.00	\$ -	\$ 357,720.21

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Vogelsang	x			Original Equipment Manufacturer of HiFlo Pumps and Rota-Cut inline Macerators.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Wajax Limited		x	x		Sole authorized service provider for Moyno Progressing Cavity Pumps in Ontario.	Sole authorized parts distributor for Moyno Progressing Cavity Pumps in Ontario.	\$ 50,000.00	\$ 84,959.70	\$ 51,519.56	\$ 101,000.00	\$ 23,845.51	\$ 325,401.64
Wallace And Tiernan	x			Original Equipment Manufacturer for disinfection process equipment.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Appendix B - Equipment, Parts, Supplies and Services for Plant Operations and Plant Maintenance and Technical Services												
Vendor Name	Original Equipment Manufacturer	Provider for Service	Distributor for Equipment, Parts and Supplies	(Original Equipment Manufacturer) Description of Goods and/or Service Supplied	Provider for Service	Distributor for Equipment, Parts and Supplies	Estimated Spend 2023	Annual Spent 2022	Annual Spent 2021	Annual Spent 2020	Annual Spent 2019	Annual Spent 2018
Watech		x			Underwater services for inspection, rehabilitation, repairs, cleanout, or installation of equipment. They are a specialized, local and readily available firm. They have previous experience performing diving work with the City which mitigates safety risks. Having two vendors will provide redundancy for the specialized services that the City cannot provide and are typically required for unforeseen conditions that are time-sensitive.		\$ 15,000.00					
Watts Unlimited	x	x		Original Equipment Manufacturer of UPS systems for the Real Time Control bypass gates.	Original Equipment Manufacturer authorized service/maintenance provider for UPS systems (including any parts required for service/maintenance) covering Watts Equipment including but no limited to batteries, transfer switches, bypass switches, controllers and any associated components. Watts has an intimate history of the needs and complexity, as well as technicians are specially trained to maintain their own Original Equipment Manufacturer equipment at various locations across Hamilton Water.		\$ 10,000.00	\$ -				
Watson Marlow Fluid Technology	x			Original Equipment Manufacturer of peristaltic pumps.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WEMCO	x			Original Equipment Manufacturer of centrifugal screw and vortex pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WesTech Engineering LLC	x			Original Equipment Manufacturer of the ExtremeDuty™ Internal Sludge Mixer Model SMI1.			\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
Westech Industrial Ltd			x			Sole authorized parts provider for Emerson and Varec - Biogas equipment and in-service digester gas or biogas (untreated or treated) in Canada.	\$ 10,000.00	\$ -	\$ 49,633.54	\$ -	\$ -	\$ 5,013.00
Willamette	x			Original Equipment Manufacturer of valves.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Worthington	x			Original Equipment Manufacturer of Pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WSP	x			Original Equipment Manufacturer of self-priming pumps			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Xylem Canada LP.	x	x	x	Original Equipment Manufacturer of Flygt branded submersible pumps and mixers, and associated parts. Original Equipment Manufacturer of Godwin branded pumps and accessories.	Sole Original Equipment Manufacturer authorized service provider for Flygt branded submersible pumps and mixers. Sole Original Equipment Manufacturer authorized service provider Godwin branded pumps and accessories.	Sole authorized distributor of Flygt branded submersible pumps and mixers, and associated parts. Sole authorized distributor of Godwin branded pumps and accessories.	\$ 400,000.00	\$ 333,370.96	\$ 234,631.17	\$ 330,861.00	\$ 293,238.49	\$ 452,639.62
YSI	x			Original Equipment Manufacturer for regulatory analyzers, monitoring and control devices.			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals</b>							<b>\$ 4,070,000.00</b>	<b>\$2,911,277.91</b>	<b>\$ 2,316,902.62</b>	<b>2,375,837</b>	<b>1,804,146</b>	<b>3,534,767</b>