

**City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects**  
As of December 31, 2019

YEAR APPROVED	PROJECT ID	DESCRIPTION	APPROVED BUDGET (\$)	ACTUAL EXPENDITURES (\$)	PO COMMITMENTS (\$)	AVAILABLE BALANCE (\$) d = a - b - c	% COMPLETE e = (b+c) / a	Project Manager	STATUS EXPLANATION as of December 31, 2019
			a	b	c	d	e		
<b><u>CAPITAL DELIVERY SECTION</u></b>									
<b><u>Water Rates</u></b>									
2011	5141166110	WTP - Process Upgrades	26,010,000	14,798,114	-	11,211,886	56.9%	S. Leitch	STATUS: Work in progress - construction (process upgrades - phase 1). NEXT STEPS: Substantial performance in Q4 2021.
2012	5141267274	Kenilworth PS - HD005 Upgrades	3,355,000	2,678,590	57,092	619,318	81.5%	S. Leitch	STATUS: Work in progress - construction (pump station). Work completed (valve replacement). NEXT STEPS: Substantial performance in Q1 2020 (pump station).
2012	5141269250	HVAC Upgrade New Lab & Admin	5,620,000	1,032,012	149,025	4,438,963	21.0%	S. Leitch	STATUS: Work in progress - conceptual design to descope and reconfigure the HVAC and interior project scope for the laboratory upgrades. NEXT STEPS: Request for proposals for design of Lab HVAC and interior upgrades in Q3 2020.
2013	5141395353	Ferguson HD002 Pumping Stn	2,600,000	483,291	35,579	2,081,130	20.0%	S. Leitch	STATUS: Work in progress - condition assessment (HD0X2 Old Ferguson Water Pumping Station). NEXT STEPS: Request for proposals for design of New Ferguson PS (Phase 3 Upgrades) in Q1 2020.
2015	5141567520	HDR05 Reservoir Upgrades	4,192,000	1,374,643	2,660,777	156,580	96.3%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q2 2020.
2015	5141567575	High Lift PS Upgrades Phase 2	880,000	415,938	32,677	431,385	51.0%	S. Leitch	STATUS: Work in progress - field study (HLPS Power Distribution & Protection Setup). NEXT STEPS: Construction - power distribution (commissioning) in Q1 2020.
2015	5141567577	Security - Water PS Facilities	5,600,000	2,262,365	418,374	2,919,261	47.9%	S. Leitch	STATUS: Substantially performed (physical security - fencing). NEXT STEPS: Electronic security system - high priority water stations (to be delivered by Corporate Facilities Section).
2016	5141666110	WTP - Corrosion Control	7,660,000	7,413,797	110,519	135,683	98.2%	S. Leitch	STATUS: Substantially performed. NEXT STEPS: Account to be closed once the maintenance and warranty period expires in Q4 2019.
2016	5141666608	Lynden Additional Water Supply	7,965,000	4,570,130	2,724,234	670,635	91.6%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q1 2020.
2016	5141667420	Ben Nevis & Dewitt HD08A WPS	3,140,000	903,063	2,177,526	59,411	98.1%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q1 2020.
2016	5141667421	Glancaster & Hwy 53 HD018 WPS	6,040,000	17,860	-	6,022,140	0.3%	S. Leitch	STATUS: Work in progress - evaluating proposals from 7 proponents (Request for Proposals for Design - Garner PS Interim Upgrades). NEXT STEPS: Award RFP for Design in Q1 2020.
2016	5141667422	Osler Road HD011 WPS	2,569,000	1,898,525	422,501	247,975	90.3%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q1 2020.
2016	5141667424	Freelton Tower HDT03 Upgrades	3,600,000	2,161,561	248,727	1,189,712	67.0%	S. Leitch	STATUS: Substantially performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires in Q1 2020.
2016	5141695883	York & Valley HD016 WPS (W-26)	3,710,000	231,308	19,068	3,459,625	6.7%	S. Leitch	STATUS: Work completed - detailed asset condition assessments & hydraulic assessment. NEXT STEPS: RFP for design in Q1 2020.
2017	5141766421	WTP Fluoride Building HVAC	470,000	53,280	-	416,720	11.3%	S. Leitch	STATUS: Work completed - air quality study. NEXT STEPS: Roster for design of Fluoride & CCB Process and H&S Upgrades in Q1 2020.

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2017	5141767420	Carlisle Well Stn Sys Enhance	940,000	121,028	-	818,972	12.9%	S. Leitch	STATUS: Work in progress - scope verification. NEXT STEPS: Roster request for proposals for design in Q2 2020.
2017	5141767650	New Greensville Communal Well	1,250,000	69,008	24,246	1,156,747	7.5%	S. Leitch	STATUS: Awaiting completion of schedule C EA for the Greensville new well. NEXT STEPS: Land acquisition and detailed design to follow completion of EA.
2017	5141795850	Greenhill PS HD04B & HD05A	9,820,000	946,104	470,323	8,403,573	14.4%	S. Leitch	STATUS: Work in progress - construction (immediate needs) & structural investigation (ultimate upgrades). NEXT STEPS: Substantial performance (immediate needs) in Q1 2020 & RFP for Design (ultimate needs) in Q2 2020.
2018	5141867651	HD007 Highland Rd Reservoir	260,000	61,314	30,714	167,972	35.4%	S. Leitch	STATUS: Work in progress : condition assessment & rehabilitation strategy. NEXT STEPS: RFP for design in Q2 2020.
2019	5141966911	WTP - Bio Filtration Study	150,000	-	-	150,000	0.0%	S. Leitch	STATUS: Developing roster invitation letter for biological filtration pilot study. NEXT STEPS: Award roster in Q1 2020.
2019	5141967375	Kenilworth&Ben Nevis Reservoir	7,550,000	110,643	520,538	6,918,820	8.4%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q4 2020.
<b>Sub-Total Capital Delivery - Water</b>			<b>103,381,000</b>	<b>41,602,574</b>	<b>10,101,919</b>	<b>51,676,506</b>	<b>50.0%</b>		

**Wastewater - Rates**

2009	5160966912	Decommission Waterdown WWTP-WW08	6,000,000	2,165,663	1,296,488	2,537,850	57.7%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q1 2020.
2010	5161066065	Waste Hauler Receiving Station	3,439,800	2,907,353	434,356	98,091	97.1%	S. Leitch	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q2 2020.
2012	5161266213	Dundas WWTP Improvements	1,420,200	493,888	-	926,312	34.8%	S. Leitch	STATUS: Upgrade project on hold. Work completed – feasibility study (Dundas WWTP outfall assessment & asset replacement study). NEXT STEPS: Exploring funding opportunities for the preferred upgrade solution.
2012	5161267270	Ancaster WW Outstations	8,540,000	4,339,589	322,217	3,878,194	54.6%	S. Leitch	STATUS: Work completed (HC009, HC013 upgrades). Awarding tender for construction in Q1 2020 (HC005). NEXT STEPS: Request for quotes in Q2 2020 (Civil Improvements - HC009, HC013). Substantial performance (HC005) in Q2 2021.
2012	5161267273	Dundas WW Outstations	2,730,000	1,397,535	54,306	1,278,160	53.2%	S. Leitch	STATUS: Work completed (DC005, DC006). Work in progress - geotechnical investigation (DC010). NEXT STEPS: Request for proposals for design (DC010) in Q1 2020.
2013	5161367360	Cormorant & Osprey (HC014)	4,450,000	4,222,291	275,186	(47,477)	101.1%	S. Leitch	STATUS: Work completed. NEXT STEPS: Request for quotations (construction - roof coating deficiencies) in Q2 2020.
2014	5161467756	Greenhill & Cochrane HCS01	2,920,000	237,081	-	2,682,919	8.1%	S. Leitch	STATUS: Work in progress - design (Greenhill HCS01 CSO tank cleaning and investigative services). NEXT STEPS: Request for prequalified contractors (CSO cleaning) in Q2 2020.
2015	5161595858	Binbrook PS Upgrade (WW-20)	6,280,000	3,915,032	740,349	1,624,619	74.1%	S. Leitch	STATUS: Substantially performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires in Q4 2020.

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2016	5161667622	FC001 DC009 HC011 Upgrades	5,340,000	386,142	567,812	4,386,047	17.9%	S. Leitch	STATUS: Work in progress - construction (FC001, DC009) & design (HC011). NEXT STEPS: Request for prequalified contractors (HC011) in Q1 2020. Substantial performance (FC001, DC009) in Q3 2020.
2017	5161766421	WWTP Methane Sphere Upgrades	4,400,000	3,221,949	832,329	345,722	92.1%	S. Leitch	STATUS: Work completed. NEXT STEPS: Account to be closed once purchase orders have been closed.
2017	5161767420	Parkdale Av HC001 WW Statn Upg	660,000	81,765	-	578,235	12.4%	S. Leitch	STATUS: Work in progress - utilities coordination & scope verification. NEXT STEPS: Request for proposals for design in Q2 2020.
2017	5161796786	First Street PS Upgrade DC014	4,930,000	424,019	422,375	4,083,607	17.2%	S. Leitch	STATUS: Work in progress - design (9 contractors prequalified for construction). NEXT STEPS: Tender for construction in Q2 2020.
2019	5161967123	AEGD Growth Initiative	11,000,000	103,362	1,018,878	9,877,760	10.2%	S. Leitch	STATUS: Work in progress - design (9 contractors prequalified for construction). NEXT STEPS: Tender for construction in Q1 2020.
2020	5162068851	Pier 25 Dredging - Windermere	170,000	44,065	-	125,935	25.9%	S. Leitch	STATUS: Develop roster invitation letter for feasibility study. NEXT STEPS: Design contract admin award in Q1 2022.

**Sub-Total Capital Delivery - Wastewater**

<b>62,280,000</b>	<b>23,939,735</b>	<b>5,964,294</b>	<b>32,375,971</b>	<b>48.0%</b>
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**TOTAL CAPITAL DELIVERY SECTION**

<b>165,661,000</b>	<b>65,542,309</b>	<b>16,066,214</b>	<b>84,052,477</b>	<b>49.3%</b>
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**INFRASTRUCTURE PLANNING & SYSTEMS DESIGN**

**Water - Rates**

2011	5141167150	Greensville New Well – EA	720,000	1,493,235	22,337	(795,572)	210.5%	B. Posedowski	STATUS: Work in progress - new Greensville well schedule C EA. NEXT STEPS: Completion of EA and land acquisition in Q2 2020. Unfavorable budget variance due to staffing chargebacks.
2013	5141395354	PD18 Elevated Reservoir W14	2,610,000	442,610	22,906	2,144,484	17.8%	B. Posedowski	STATUS: Work in progress - EA and conceptual design. NEXT STEPS: Completion of EA and land acquisition in Q2 2020.
2014	5141495551	PD7 Elevated Reservoir W-23	1,990,000	210,812	11,190	1,767,998	11.2%	B. Posedowski	STATUS: Work in progress - EA & conceptual design. NEXT STEPS: Completion of EA in Q4 2019. Detailed design to follow.
2015	5141555010	Water Systems Planning	450,000	407,089	4,610	38,301	91.5%	B. Posedowski	STATUS: Work completed. NEXT STEPS: Account to be closed once active purchase orders have been closed.
2015	5141555264	City-Wide Water MP	650,000	93,238	485,838	70,924	89.1%	B. Posedowski	STATUS: Work in progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion in Q1 2021.
2015	5141555555	City Wide Groundwater Model	710,000	585,703	84,936	39,361	94.5%	B. Posedowski	STATUS: Work in progress - Lyden & Freelton wellhead protection area delineation. NEXT STEPS: Model expansion, database and stratigraphic model updates and calibration in Q2 2020.
2015	5141564533	Up Wentworth - Hydro to Twenty	2,200,000	12,638	-	2,187,362	0.6%	B. Posedowski	STATUS: On hold. NEXT STEPS: City Wide Water and Wastewater Master Plan will dictate whether this is required.
2015	5141567273	HD17A PS Replace Decommission	1,930,000	4,047	-	1,925,953	0.2%	B. Posedowski	STATUS: Scope verification. NEXT STEPS: Issue roster invitation letter for EA & conceptual design in Q2 2020.

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2015	5141595553	HD12A PS Upgrades (W-04)	720,000	232,623	4,195	483,182	32.9%	B. Posedowski	STATUS: Work completed - Class EA. NEXT STEPS: Power services connection for existing pumping station power in Q1 2020.
2016	5141664632	Twenty (Greti) to Upper James	1,610,000	184,337	-	1,425,663	11.4%	B. Posedowski	STATUS: On hold. NEXT STEPS: City Wide Water and Wastewater Master Plan will dictate whether this is required.
2016	5141667423	Freelton Well FDF01 Capacity	1,870,000	357,377	29,173	1,483,450	20.7%	B. Posedowski	STATUS: Work complete - Hydrogeological study & GUDI Investigation. Work in progress - Treatment Capacity Study. NEXT STEPS: Awaiting Freelton water model results to finalize capacity study.
2017	5141767752	WW Outstation Inspection - AM	550,000	258,611	195,957	95,433	82.6%	B. Posedowski	STATUS: Work in progress - Design of Facility Asset Management Program. NEXT STEPS: Completion in Q3 2023.
2017	5141796752	PD16 Trunk - PS HD016 to Hwy 5	2,570,000	295,960	96,127	2,177,914	15.3%	B. Posedowski	STATUS: Work in progress - Class Schedule B EA for the Waterdown Trunk Watermain Twinning. NEXT STEPS: Completion of EA in Q2 2021. Detailed design to follow.
2018	5141855010	Water Systems Planning	300,000	216,643	110,545	(27,188)	109.1%	B. Posedowski	STATUS: Support for ongoing water system analysis of the LRT intensification corridor, screening and development application services, and pressure district boundary condition characterization. NEXT STEPS: Completion in Q4 2020.
2018	5141855777	LRT Corridor - Water	570,000	-	-	570,000	0.0%	B. Posedowski	STATUS: On hold.
2018	5141867752	Water Outstation Inspections	660,000	594,034	104,101	(38,135)	105.8%	B. Posedowski	STATUS: Work in progress - Water and Wastewater Financial Plan, Lynden New Well Cost Estimate Peer Review, and Condition Assessments (FDG01, HDR2A). NEXT STEPS: Account to be closed once purchase orders are closed in Q4 2020.
2018	5141895852	Carlisle Additnl Water Storage	440,000	-	-	440,000	0.0%	B. Posedowski	STATUS: Work completed - Three year Water Conservation Program in Carlisle. NEXT STEPS: Water System Specialist to assess alternatives to the future Carlisle Water Storage and initiate an EA Q2 2020.
2018	5141895956	Water Distribution Model	350,000	-	-	350,000	0.0%	B. Posedowski	NEXT STEPS: Issue project charter for water CAD model update and maintenance procedure in Q2 2020.
2019	5141955010	Water Systems Planning Program	400,000	27,608	99,968	272,425	31.9%	B. Posedowski	STATUS: Work in progress - Hydraulic impact assessment of watermain shutdown routes. NEXT STEPS: Issue Project Charter for Transient Modelling, System Curves and Watermain Hydraulic Analysis Report in Q2 2020.
2019	5141955247	Drinking Water System Changes	150,000	50,880	6,250	92,870	38.1%	B. Posedowski	STATUS: Consulting services - Form 1 development screening and approval support. NEXT STEPS: Completion in Q4 2020.
2019	5141955713	Drinking Water System Optimize	220,000	-	-	220,000	0.0%	B. Posedowski	NEXT STEPS: Issue project charter for pressure districts and drinking water system optimization in Q2 2020.
2019	5141957545	Water - Computer Model	280,000	-	-	280,000	0.0%	B. Posedowski	NEXT STEPS: Issue project charter for water CAD model update and maintenance procedure in Q2 2020.
2019	5141967752	Water Outstation Inspections	660,000	88,957	245,958	325,086	50.7%	B. Posedowski	STATUS: Condition assessments at different facilities. NEXT STEPS: Completion dates in Q2 2020.
<b>Sub-Total Infrastructure Planning &amp; Systems Design - Water</b>			<b>22,610,000</b>	<b>5,556,400</b>	<b>1,524,091</b>	<b>15,529,509</b>	<b>31.3%</b>		

**Wastewater - Rates**

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2007	5160755640	Non-trunk Flow Monitoring	500,000	114,300	398,089	(12,389)	102.5%	B. Posedowski	STATUS: Work in progress - design of wet weather control. NEXT STEPS: Request for prequalified contractors for construction in Q2 2020. Negative balance due to unanticipated tax changes.
2008	5160867751	WW Outstns - Asset Management	2,655,000	1,608,491	1,203,426	(156,917)	105.9%	B. Posedowski	STATUS: Work in progress - design of wet weather control. NEXT STEPS: Request for prequalified contractors for construction in Q2 2020. Negative balance due to unanticipated tax changes.
2013	5161367752	WW Outstation Inspection - AM	645,000	168,505	494,829	(18,334)	102.8%	B. Posedowski	STATUS: Work in progress - design for Facility Asset Management Program. NEXT STEPS: Completion in Q3 2023.
2014	5161455420	SERG - Flooding & Drainage MP	555,000	371,325	116,874	66,802	88.0%	B. Posedowski	STATUS: Work in progress - Flooding and Drainage Master Plan. NEXT STEP: Completion in Q4 2020.
2015	5161555264	City-Wide Wastewater MP	650,000	538,268	58,460	53,272	91.8%	B. Posedowski	STATUS: Work in progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion in Q1 2021.
2015	5161555955	Inflow & Infiltration	474,000	461,752	67,726	(55,478)	111.7%	B. Posedowski	STATUS: Work complete - HC058 Capacity Analysis. Work in progress - West Mountain Flow Monitoring (Phase II). NEXT STEPS: Completion in Q4 2020.
2015	5161557545	Wastewater Computer Model	550,000	458,164	171,482	(79,646)	114.5%	B. Posedowski	STATUS: Work in progress - Rain Gauges Flow Monitoring Services, and Hydrologic-hydraulic model for the storm sewer systems. NEXT STEPS: Completion in Q4 2020.
2016	5161655350	Riverdale Flood Relief EA	1,540,000	4,247	-	1,535,753	0.3%	B. Posedowski	STATUS: Work in progress - Riverdale East and Surrounding Neighbourhood Flooding Remedial Measures & Conceptual Design . NEXT STEPS: Conceptual Design Completion in Q1 2020. Detailed Design to follow.
2016	5161655351	Lawfield & Berrisfield Area	185,000	239,105	-	(54,105)	129.2%	B. Posedowski	STATUS: Work completed - Conceptual Design of Neighborhood I/I Reduction. NEXT STEPS: Consultation with HW Sr Management to decide which solution to pursue. Community outreach and education to follow.
2016	5161661434	Upsize Wilson Street Forcemain	270,000	4,875	-	265,125	1.8%	B. Posedowski	NEXT STEPS: Scope verification and issue project charter in Q1 2020.
2016	5161667421	New Haulage Receiving Station	1,690,000	210,565	34,590	1,444,845	14.5%	B. Posedowski	STATUS: Work in progress - Class EA and conceptual design. NEXT STEPS: EA completion & land acquisition in Q4 2020. Detailed design to follow.
2016	5161695747	Battlefield Trunk Sewer WW-33	12,150,000	1,559,153	-	10,590,847	12.8%	B. Posedowski	STATUS: Scope and timing to be confirmed in Citywide Master Plan. NEXT STEPS: Detailed Design by Engineering Services to follow.
2016	5161696452	AEGD - Dickenson Rd FM & Sewer	4,400,000	926,747	1,715,563	1,757,690	60.1%	S Jacob	Cole Engineering has been retained by City for the consulting services to undertake preliminary design, investigative services, detailed design and tender and contract administration services. The project is expected to be tendered late in 2020 with construction to begin in 2021. This is a multiple year project with construction taking at least 3 to 4 years. Expected completion - 2024/2025.
2017	5161755640	Non-Trunk Flow Monitoring	100,000	144,972	49,607	(94,579)	194.6%	B. Posedowski	STATUS: Work completed. NEXT STEPS: Account to be closed once outstanding purchase orders have been closed.
2017	5161755955	Inflow & Infiltration	300,000	272,681	5,211	22,108	92.6%	B. Posedowski	STATUS: Work completed. NEXT STEPS: Account to be closed once outstanding purchase orders have been closed.

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2017	5161757420	SCADA Rain Gauges	50,000	-	-	50,000	0.0%	B. Posedowski	NEXT STEPS: Scope verification and issue project charter in Q2 2020.
2017	5161767752	WW Outstn Insp -Asset Mgm Prog	220,000	168,304	33,545	18,151	91.7%	B. Posedowski	STATUS: Work completed - Energy Audit (of HW facilities) & Condition Assessment (DC007 McMaster SPS). NEXT STEPS: Account to be closed once outstanding purchase orders have been closed.
2018	5161855010	Wastewater Systems Planning	300,000	188,288	124,635	(12,923)	104.3%	B. Posedowski	STATUS: Work in progress - Wastewater System Analysis & Hydraulic Assessment (LRT intensification Corridor & Roads Capital Program), Pollution Control Plan, Riverdale East Flooding Investigation, CSO Reporting. NEXT STEPS: Work ongoing.
2018	5161855640	Flow Monitoring Program	50,000	40,813	2,820	6,367	87.3%	B. Posedowski	STATUS: Work completed - Citywide Sanitary Service Flow Monitoring, and Rain Gauges Flow Monitoring Services. NEXT STEPS: Account to be closed once purchase orders are closed.
2018	5161855777	LRT Corridor - Wastewater	570,000	(7,084)	1,801	575,282	-0.9%	B. Posedowski	STATUS: On hold.
2018	5161857545	Wastewater Computer Model	280,000	237,849	70,664	(28,512)	110.2%	B. Posedowski	STATUS: Work completed - Citywide Sanitary & Stormwater Flow Monitoring Services. NEXT STEPS: Account to be closed once purchase orders have been closed.
2018	5161867752	Wastewater Outstation Inspect	520,000	136,373	64,196	319,431	38.6%	B. Posedowski	STATUS: Work in progress - Condition Assessment (HC017 Eastport SPS), and Development Water Financial Plan. NEXT STEPS: Completion in Q3 2019.
2019	5161955010	WW Systems Planning Program	600,000	41,913	154,619	403,468	32.8%	B. Posedowski	STATUS: Work in progress - Capacity Monitoring Study at the Woodward WWTP, Development Screening and Approval Support, and CSO Reporting. NEXT STEPS: Completion in Q4 2020.
2019	5161955640	Flow Monitoring Program	350,000	-	-	350,000	0.0%	B. Posedowski	STATUS: Work in progress - Sanitary Service Flow Monitoring in Binbrook, and Citywide Rain Gauges Monitoring. NEXT STEPS: Completion in Q1 2022.
2019	5161955955	Inflow & Infiltration Studies	500,000	178,771	58	321,171	35.8%	B. Posedowski	STATUS: Work complete - AEGD Flow monitoring and inflow and infiltration analysis NEXT STEPS: Completion in Q4 2020.
2019	5161957545	Wastewater Computer Model	380,000	-	-	380,000	0.0%	B. Posedowski	NEXT STEPS: Scope verification and issue project charter in Q2 2020.
2019	5161967752	WW Outstation Inspections	520,000	-	-	520,000	0.0%	B. Posedowski	NEXT STEPS: Scope verification and issue project charter in Q2 2020.
2019	5161996954	Aberdeen Hillside Sewer	450,000	-	-	450,000	0.0%	B. Posedowski	NEXT STEPS: Scope verification and issue project charter in Q2 2020.
<b>Sub-Total Infrastructure Planning &amp; Systems Design - Wastewater</b>			<b>31,454,000</b>	<b>8,068,376</b>	<b>4,768,195</b>	<b>18,617,429</b>	<b>40.8%</b>		
<b>Storm water - Rates</b>									
2012	5181260216	Golf Course SWMP Rosedale	2,570,000	651,757	97,902	1,820,341	29.2%	B. Posedowski	STATUS: Work in progress - Enhanced Functional Design and Topographic Survey, Archaeological investigation, MOE and HCA Approvals review period. NEXT STEPS: Completion of functional design in Q4 2020. Detailed design to follow.

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2012	5181274800	Watercourse 5 and 6	3,850,000	397,595	29,436	3,422,969	11.1%	B. Posedowski	STATUS: Work completed - Flood plain mapping and hydrologic analysis to update SCUBE reports, Hydraulics Assessment and Class EA Work. NEXT STEPS: Account to be closed.
2013	5181355350	SERG Studies & Assessments	740,000	683,079	51,926	4,995	99.3%	B. Posedowski	STATUS: Work completed - Low Impact Development Bump out (Bay and Simcoe) & Beach Strip Flooding Study. NEXT STEPS: Account to be closed once purchase orders are closed.
2014	5181455420	SERG - Flooding & Drainage MP	645,000	30,649	449,999	164,353	74.5%	B. Posedowski	STATUS: Work in progress - Flooding and Drainage Master Plan. NEXT STEP: Completion in Q4 2020.
2015	5181555422	GRIDS II - Stormwater MP	650,000	75,426	499,252	75,322	88.4%	B. Posedowski	STATUS: Work in progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion in Q1 2021.
2015	5181562590	SWMP Retrofits	660,000	68,769	130,124	461,108	30.1%	B. Posedowski	STATUS: Work in progress - Analysis & conceptual design (Stormwater Management Pond Retrofits # 67, 9, 54, 52, 35, 14). NEXT STEPS: Completion of design in Q3 2020. Construction to follow.
2016	5181655075	SERG - Watershed Proj Coord	500,000	232,413	167,322	100,265	79.9%	B. Posedowski	STATUS: Work in progress - Lower Spencer Creek Sub watershed study. NEXT STEPS: Completion in Q4 2020.
2016	5181655421	SERG Stormwater System Planning	280,000	259,246	93,980	(73,226)	126.2%	B. Posedowski	STATUS: Work completed - Hydraulic Assessment (Storm Sewer in Ancaster, and Stormwater needs for Roads Capital Program). NEXT STEPS: Account to be closed once purchase orders are closed.
2017	5181755420	Stormwater Drainage Review	280,000	217,938	35,762	26,300	90.6%	B. Posedowski	STATUS: Work in progress - Detailed Drainage Assessment Study Phase 2 (Development of Existing Residential Neighborhoods in Rural Ancaster). NEXT STEPS: Completion in Q2 2020.
2017	5181755421	SERG - SW System Planning	280,000	113,406	11,692	154,902	44.7%	B. Posedowski	STATUS: Work completed - Wilson Street Stormwater Drainage Plan. NEXT STEPS: Completion in Q4 2020.
2018	5181823155	SERG - Dundas Drainage Upgrade	120,000	22,856	43,325	53,819	55.2%	B. Posedowski	STATUS: Work in progress - Conceptual design. NEXT STEPS: Detailed design in Q1 2021.
2018	5181872295	SERG - LEEDS Implementation	610,000	18,519	-	591,481	3.0%	B. Posedowski	NEXT STEPS: Revisit the conceptual solution to the Winona Area Drainage Improvements and provide an alternate solution. Project charter to be issued in Q2 2020.
2019	5181955350	Climate Change Impact Assess	550,000	119	-	549,881	0.0%	B. Posedowski	NEXT STEPS: Issue project charter to evaluate current IDF curves with considerations for climate change in Q2 2020.
2019	5181955421	Storm System Planning Prm	480,000	-	39,375	440,625	8.2%	B. Posedowski	STATUS: Work in progress - Development screening and approval support, and Hydraulic assessments of local storm sewers. NEXT STEPS: Completion in Q3 2020.
2019	5181957545	Stormwater Computer Model	1,080,000	-	-	1,080,000	0.0%	B. Posedowski	STATUS: Scope verification NEXT STEPS: Issue project charter in Q2 2020.
2021	5182155101	SERG - SC & Battlefield Creek	150,000	-	-	150,000	0.0%	B. Posedowski	STATUS: On hold. Awaiting results of HCA study on Battlefield Creek. NEXT STEPS: Initiate study in 2021 on erosion control and creek bank stabilization along lower Battlefield Creek.
<b>Sub-Total Infrastructure Planning &amp; Systems Design - Storm water</b>			<b>13,445,000</b>	<b>2,771,772</b>	<b>1,650,093</b>	<b>9,023,134</b>	<b>32.9%</b>		
<b>TOTAL INFRASTRUCTURE PLANNING &amp; SYSTEMS DESIGN SECTION</b>			<b>67,509,000</b>	<b>16,396,548</b>	<b>7,942,379</b>	<b>43,170,073</b>	<b>36.1%</b>		

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			a	b	c	d	e		

**WOODWARD UPGRADES SECTION**

**Wastewater - Rates**

2008	5160866801*	Woodward WWTP - Clean Harbour	395,647,800	166,027,262	229,620,538	-	100.0%	J. Helka	STATUS: GIF funded. \$94M future budgets requested (cash flowed 2021 - 2022). Work in progress - construction (Raw Wastewater Pumping Station, Electrical System, and Tertiary Treatment). NEXT STEPS: Substantial performance in Q1 2022.
2009	5160966910	WWTP - Biosolids MP Implement	10,470,000	5,493,654	4,197,331	779,015	92.6%	J. Helka	STATUS: PPP Canada funded, and cash flow budget approved by Finance. Work in progress - Design-Bid-Finance-Operate-Maintain Contract awarded to Harbour City Solutions for the Biosolids Management Project. NEXT STEPS: Substantial performance in Q2 2020.

**Sub-Total Woodward Upgrades - Wastewater**

**406,117,800      171,520,916      233,817,869      779,015      99.8%**

**TOTAL WOODWARD UPGRADES SECTION**

**406,117,800      171,520,916      233,817,869      779,015      99.8%**

\*Note: Due to significant funds and multi-year cash flows, funded budget = expenditures and commitments

**PLANT MAINTENANCE AND TECHNICAL SERVICES SECTION**

**Water - Rates**

2015	5141566711	Annual Water Treatment Studies	250,000	119,673	134,728	(4,402)	101.8%	S. McCauley	STATUS: Work in progress - Woodward Water Treatment Plant (Baseline biological activity, and Optimization Study for Corrosion Control using Phosphoric acid chemical dosing). NEXT STEPS: Completion in Q4 2020.
2017	5141766711	Annual Water Treatment Studies	250,000	121,410	116,000	12,590	95.0%	S. McCauley	STATUS: Work completed - assessment (Chlorine Chemical Building, and CT calculations). Work in progress - Industry Review of Asset Maintenance Programs for Municipal W&WW Vertical Infrastructure. NEXT STEPS: Completion in Q4 2020.
2017	5141766713	Annual Water Maintenance	2,500,000	649,854	230,271	1,619,875	35.2%	S. McCauley	STATUS: Work in progress - design (PACL system repairs at the Woodward WTP), & awarding construction (Installation of Premise Isolation Backflow Protection Program for HW Facilities). NEXT STEPS: Completion in Q4 2020.
2018	5141866350	WTP Lighting Upgrade	200,000	27,727	108,579	63,694	68.2%	S. McCauley	STATUS: Substantially performed (Energy Efficient LED Lighting at Woodward WWTP and Administration Building). NEXT STEPS: Account to close once purchase orders have been closed.
2018	5141866713	Annual Water Maintenance	1,500,000	76,371	70,000	1,353,629	9.8%	S. McCauley	STATUS: Work in progress. NEXT STEPS: Completion in Q4 2020.

**Sub-Total Plant Maintenance & Technical Services - Water**

**4,700,000      995,035      659,578      3,045,387      35.2%**

**Wastewater - Rates**

2017	5161766713	Wastewater Maintenance Capital	3,000,000	1,902,595	1,068,454	28,951	99.0%	S. McCauley	STATUS: Work in progress. NEXT STEPS: Completion in Q4 2020.
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2017	5161766745	Woodward WWTP-Oper Readiness	2,475,000	1,582,209	394,224	498,568	79.9%	S. McCauley	STATUS: Work completed (North Aeration Diffuser Membranes). NEXT STEPS: Account to close once purchase orders have been closed.
2018	5161866350	Woodward WWTP Lighting Upgrade	690,000	597,782	90,749	1,468	99.8%	S. McCauley	STATUS: Substantially performed (Energy Efficient LED Lighting at Woodward WWTP and Administration Building). NEXT STEPS: Account to close once purchase orders have been closed.
2018	5161866511	Woodward WWTP - Digester #4	5,500,000	726,910	2,734,449	2,038,641	62.9%	S. McCauley	STATUS: Work in progress - construction. NEXT STEPS: Substantial performance in Q1 2021.
2018	5161866713	Wastewater Maintenance Capital	4,750,000	478,704	652,840	3,618,455	23.8%	S. McCauley	STATUS: Work in progress. NEXT STEPS: Completion in Q4 2021.
<b><u>Sub-Total Plant Maintenance &amp; Technical Services - WasteWater</u></b>			<b>16,415,000</b>	<b>5,288,201</b>	<b>4,940,717</b>	<b>6,186,083</b>	<b>62.3%</b>		
<b><u>TOTAL PLANT MAINTENANCE &amp; TECHNICAL SERVICES SECTION</u></b>			<b>21,115,000</b>	<b>6,283,236</b>	<b>5,600,295</b>	<b>9,231,470</b>	<b>56.3%</b>		
<b><u>WATER &amp; WASTEWATER PLANNING AND CAPITAL SECTION</u></b>									
<b><u>Corporate Project Program - Tax</u></b>									
2009	2110953900	Randle Reef Rehab Project	7,250,000	7,847,735	275,000	(872,735)	112.0%	M. Bainbridge	STATUS: Cash flow budget approved by Finance. Work completed - Stage 1 (October 2018). Work in progress - Stage 2. NEXT STEPS: Stage 2 Completion in Q1 2020 & Stage 3 Tender for Construction in late 2020.
<b><u>Sub-Total Water &amp; Wastewater Planning &amp; Capital - Corporate Project Program</u></b>			<b>7,250,000</b>	<b>7,847,735</b>	<b>275,000</b>	<b>(872,735)</b>	<b>112.0%</b>		
<b><u>Wastewater - Rates</u></b>									
2014	5161468422	Randle Reef Sediment Remediate	5,100,000	4,325,000	1,675,000	(900,000)	117.6%	M. Bainbridge	STATUS: Cash flow budget approved by Finance. Work completed - Stage 1 (October 2018). Work in progress - Stage 2. NEXT STEPS: Stage 2 Completion in Q1 2020 & Stage 3 Tender for Construction in late 2020.
<b><u>Sub-Total Water &amp; Wastewater Planning &amp; Capital - Wastewater</u></b>			<b>5,100,000</b>	<b>4,325,000</b>	<b>1,675,000</b>	<b>(900,000)</b>	<b>117.6%</b>		
<b><u>TOTAL WATER &amp; WASTEWATER PLANNING AND CAPITAL SECTION</u></b>			<b>12,350,000</b>	<b>12,172,735</b>	<b>1,950,000</b>	<b>(1,772,735)</b>	<b>114.4%</b>		
<b><u>HAMILTON WATER &amp; WASTEWATER- DIRECTOR</u></b>									
<b><u>Wastewater - Rates</u></b>									
2015	5161555545	Capital Works Information Mgmt	280,000	-	-	280,000	0.0%	A. Grice	STATUS: Work complete - PMO / IT BI Collaborative Reporting Project (WATSN). NEXT STEPS: Dashboards, Working Environment, and Operating Budget Reporting in Q2 2020.
<b><u>Sub-Total - Wastewater</u></b>			<b>280,000</b>	<b>0</b>	<b>0</b>	<b>280,000</b>	<b>0.0%</b>		
<b><u>TOTAL HAMILTON WATER &amp; WASTEWATER DIRECTOR SECTION</u></b>			<b>280,000</b>	<b>-</b>	<b>-</b>	<b>280,000</b>	<b>0.0%</b>		
<b><u>WATER &amp; WASTEWATER ENGINEERING SERVICES SECTION</u></b>									
<b><u>Water - Engineering Services</u></b>									

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2014	5141455425	Concrete Pipe Condition Assessment	2,750,000	1,690,973	287,384	771,644	71.9%	E. Waite / Zantingh / Grieci	Ongoing - work in progress
2015	5141596152	PD11 (Governor's Rd) Extend	1,120,000	1,144,690	2,699	(27,388)	102.4%	M. Oddi	Will close in next closing report.
2015	5141596153	PD22 (Governor's Rd) Extend	900,000	883,250	2,200	14,550	98.4%	M. Oddi	Will close in next closing report.
2015	5141596550	Stone Church Feedermain (W-24)	25,300,000	2,440,078	92,831	22,767,091	10.0%	S. Jacob	Functional design report to be received by end of March 2020. If a different route has to be decided, a consultant assignment to check the Stone Church Road feasibility between Paramount and Darnhall have to be checked. Construction schedule to be re-examined.
2016	5141660999	Closed Projects - Water	218,000	75,388	148,658	(6,046)	102.8%	M. Oddi / P. McNab	Move purchase order for Lakeside Contracting (C15-49-14 - James St N) to separate project ID and monitor balance of project for unused contingency and maintenance period works.
2016	5141670000	Coordinated Road and Subsurface Works - 2016	3,091,000	2,927,693	152,192	11,116	99.6%	M. Oddi / P. McNab	Pending litigation with Lakeside Contracting (James St S).
2017	5141757626	Critical WM Inspection Program - 2017	330,000	73,459	149,970	106,571	67.7%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress. Claim for CWWF funding underway.
2017	5141760577	Metallic Watermain Condition Assessment Program - 2017	685,000	685,000	-	-	100.0%	E. Waite / M. Zantingh / J. Grieci	Will close once CWWF final claim has been processed - after March 31/20.
2017	5141760754	Kenilworth Transmission Watermain Renewal	2,400,000	525,045	16,370	1,858,584	22.6%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress
2017	5141761777	Beach Trunkmain Rehab	7,300,000	899,744	-	6,400,256	12.3%	E. Waite / M. Zantingh / J. Grieci	To be tendered in Q3 2020.
2017	5141771301	WM Replace Program - Coordinated with Roads - 2017	2,815,000	2,508,859	263,728	42,413	98.5%	M. Oddi / P. McNab	Complete pending final review/audit/payment.
2018	5141811101	Road Restoration Program - 2018	5,400,000	3,092,105	-	2,307,895	57.3%	D. Lamont / B. Waddell	Complete. Surplus to be used to WIP fund to 2021 program.
2018	5141857626	Critical WM Inspection Program - 2018	330,000	169,890	52,531	107,580	67.4%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress. Claim for CWWF funding underway.
2018	5141857627	Fennell Trunkmain Inspection	750,000	681,720	64,883	3,397	99.5%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141857628	Saltfleet Trunkmain Inspection	593,000	591,221	-	1,779	99.7%	E. Waite / M. Zantingh / J. Grieci	Will close once CWWF final claim has been processed - after March 31/20
2018	5141860072	Structural WM Lining Program - 2018	7,320,000	6,722,668	116,649	480,683	93.4%	E. Waite / M. Zantingh / J. Grieci	Complete and will close once commitments are paid/cleared.
2018	5141860577	Metallic Watermain Condition Assessment Program - 2018	700,000	474,606	202,659	22,736	96.8%	E. Waite / M. Zantingh / J. Grieci	Complete and will close once commitments are paid/cleared.

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2018	5141861300	Wm Replacement Program - 2018	800,000	195,949	-	604,051	24.5%	E. Waite / M. Zantingh / J. Grieci	Barton - Queen to Locke to be reprioritized in capital budget and surplus used as WIP funding.
2019	5141911101	Road Restoration Program - 2019	5,400,000	3,457,848	1,831,661	110,491	98.0%	D. Lamont / B. Waddell	Ongoing - work in progress. Anticipate completion by Q2 2020.
2019	5141949555	QA-QC Service Contract 2019	160,000	54,342	15,190	90,468	43.5%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress
2019	5141955556	Mapping Update - 2019	40,000	5,781	-	34,219	14.5%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020.
2019	5141960072	Structural WM Lining Program - 2019	6,996,000	6,914,344	-	81,656	98.8%	E. Waite / M. Zantingh / J. Grieci	Will close next BER, after year end reporting.
2019	5141960080	Valve Replacement - 2019	1,580,000	480,998	92,983	1,006,019	36.3%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress
2019	5141960577	Metallic WM Condition Assess	580,000	124,080	76,848	379,073	34.6%	E. Waite / M. Zantingh / J. Grieci	Complete and will close once commitments are paid/cleared.
2019	5141960711	PW Capital Water Consumption Program - 2019	200,000	228,045	-	(28,045)	114.0%	E. Waite / P. McNab	Will close next BER, after year end reporting.
2019	5141961341	Pineland-Teal-Community etc	110,000	15,032	-	94,968	13.7%	E. Waite / M. Zantingh / J. Grieci	Ongoing - work in progress
2019	5141962073	Field Data Systems Program - 2019	150,000	46,221	85,043	18,736	87.5%	E. Waite / Sharma	Ongoing - work in progress - to be complete by year end 2020.
2019	5141970002	Baldwin & Court-West to Dundas	190,000	129,692	54,968	5,340	97.2%	M. Oddi	Complete - surface asphalt in 2020
2019	5141970003	Brampton - Parkdale to Strathearne	780,000	812,645	-	(32,645)	104.2%	M. Oddi	Will close next BER, after year end reporting.
2019	5141970004	Bruce Dale - Upper Wentworth to Upper Sherman (Eastmount Nbhd)	780,000	757,553	-	22,447	97.1%	M. Oddi	Will close next BER, after year end reporting.
2019	5141970005	Cheever - Barton to Birge and Birge - Cheever to Wentworth	240,000	239,617	2,823	(2,440)	101.0%	M. Oddi	Complete and will close once commitments are paid/cleared.
2019	5141970007	Haddon - Sterling to Marion	310,000	42,363	-	267,637	13.7%	E. Waite / M. Zantingh / J. Grieci	Work to be completed in 2020.
2019	5141970008	Hewitson - Dupont to Barton	230,000	176,495	27,290	26,215	88.6%	M. Oddi	Complete - surface asphalt in 2020
2019	5141970009	Locke - Herkimer to Main	800,000	757,430	39,915	2,655	99.7%	M. Oddi	Complete pending final review/audit/payment.
2019	5141970010	Parkdale - Burlington to north end & Steel City Court	1,050,000	921,190	101,508	27,302	97.4%	M. Oddi	Complete pending final review/audit/payment.
2019	5141970012	Sheaffe / Park / Mulberry (Central Nbhd (North))	910,000	124,356	-	785,644	13.7%	E. Waite / M. Zantingh / J. Grieci	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation done as stand alone in 2019.
2019	5141971074	Contingency for Unscheduled Works Program - 2019	100,000	12,977	-	87,023	13.0%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5141971302	Baldwin & Court-West to Dundas	170,000	173,392	-	(3,392)	102.0%	M. Oddi	Will close next BER, after year end reporting.
2019	5141971303	Brampton - Parkdale to Strathearne	730,000	718,572	14,130	(2,702)	100.4%	M. Oddi	Complete pending final review/audit/payment.

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2019	5141971304	Brucedale - Upper Wentworth to Upper Sherman (Eastmount Nbhd)	1,710,000	1,585,795	17,898	106,307	93.8%	M. Oddi	Complete pending final review/audit/payment.
2019	5141971305	Cheever - Barton to Birge and Birge - Cheever to Wentworth	580,000	537,507	37,891	4,602	99.2%	M. Oddi	Complete pending final review/audit/payment.
2019	5141971306	Ferguson -Simcoe to Burlington	440,000	391,104	44,695	4,201	99.0%	M. Oddi	Surface asphalt in 2020.
2019	5141971307	Haddon - Sterling to Marion	510,000	69,694	-	440,306	13.7%	E. Waite / M. Zantingh / J. Grieci	Work to be completed in 2020.
2019	5141971308	Hewitson - Dupont to Barton	370,000	208,403	26,284	135,313	63.4%	M. Oddi	Complete pending final review/audit/payment.
2019	5141971309	Locke - Herkimer to Main	2,590,000	2,675,686	-	(85,686)	103.3%	M. Oddi	Will close next BER, after year end reporting.
2019	5141971310	Parkdale - Burlington to north end & Steel City Court	1,422,000	1,060,060	360,067	1,873	99.9%	M. Oddi	Complete pending final review/audit/payment.
2019	5141971312	Sheaffe / Park / Mulberry (Central Nbhd (North))	1,050,000	181,306	-	868,694	17.3%	E. Waite / M. Zantingh / J. Grieci	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation done as stand alone in 2019.
2019	5141971313	LRT Sherman-King to south end	90,000	26,763	-	63,237	29.7%	S. Jacob	LRT cancelled, project to be reprioritized in capital budget
2019	5141971314	LRT Wentworth - Wilson to King	90,000	26,661	4,000	59,339	34.1%	S. Jacob	LRT cancelled, project to be reprioritized in capital budget
2019	5141971315	LRT Main-Delena to Normanhurst	230,000	138,618	65,272	26,111	88.6%	S. Jacob	LRT cancelled, project to be reprioritized in capital budget
<b>Sub-Total Water - Engineering Services</b>			<b>93,390,000</b>	<b>48,876,906</b>	<b>4,451,217</b>	<b>40,061,878</b>	<b>57.1%</b>		

**WasteWater - Engineering Services**

2007	5160795757	Centennial Trnk Swr-WW14,WW33	84,200,000	82,316,166	1,353,634	530,200	99.4%	M. Oddi	Sewer complete. Restoration ongoing.
2013	5161395358	Hwy 56 Forcemain&Twinning WW21	27,190,000	18,635,076	55,714	8,499,211	68.7%	M. Oddi	Sewer complete. Well monitoring ongoing.
2015	5161555077	Zoom Camera Inspection - Data Component	760,000	715,029	13,847	31,124	95.9%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2015	5161560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,236,000	886,620	149,086	200,294	83.8%	E. Waite / M. Zantingh / H. Krinas	Complete pending final review/audit/payment.
2015	5161560999	Closed Projects - WasteWater	119,000	20,092	88,728	10,180	91.4%	M. Oddi / P. McNab	Will close in next BER - will move purchase order for Lakeside Contracting (C15-49-14 - James St N) to separate project ID and then close this project.
2015	5161596855	Royal to Main-King CSO (WW-22)	24,880,000	2,672,050	160,390	22,047,560	11.4%	S. Jacob	Stantec Consulting finishing up the design for Phase 1 construction. Will proceed if Ministry of Environment permits and MTO permits are available.
2017	5161718420	Grindstone Creek Utility Bridge	970,000	674,085	304,616	(8,700)	100.9%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2017	5161760390	Wastewater System Lining Program - 2017	4,500,000	4,500,000	-	-	100.0%	E. Waite / M. Zantingh / H. Krinas	Will close once CWWF final claim has been processed - after March 31/20
2017	5161760575	Mainline Sewer Condition Assessment Program - 2017	1,330,000	1,330,000	-	(0)	100.0%	E. Waite / M. Zantingh / H. Krinas	Will close once CWWF final claim has been processed - after March 31/20
2017	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	2,460,000	940,419	703,958	815,623	66.8%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.

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			a	b	c	d	e		
2018	5161855878	Forcemain Condition Assessment Program - 2018	300,000	165,119	33,944	100,937	66.4%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161860390	Wastewater System Lining Program - 2018	4,582,000	4,582,000	-	-	100.0%	E. Waite / M. Zantingh / H. Krinas	Will close once CWWF final claim has been processed - after March 31/20
2018	5161860533	Trenchless Manhole Rehabilitation - 2018	40,000	27,568	11,869	564	98.6%	E. Waite / M. Zantingh / H. Krinas	Will close in next BER.
2018	5161860574	Pre-Construction Mainline Condition Assessment	550,000	363,952	135,954	50,094	90.9%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2018	5161860575	Mainline Sewer Condition Assessment Program - 2018	1,260,000	610,874	617,418	31,708	97.5%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2018	5161860830	Windemere Rd Sewer Extension, Municipal Act	980,000	939,360	2,691	37,948	96.1%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2018	5161861444	Sewer Lateral Replace/Rehab Program - 2018	4,139,000	4,139,000	-	-	100.0%	E. Waite / M. Zantingh / H. Krinas	Will close once CWWF final claim has been processed - after March 31/20
2018	5161862850	Eastern Interceptor Repair at the WWTP Aeration Tank	2,800,000	505,603	83,080	2,211,317	21.0%	E. Waite / M. Zantingh / H. Krinas	Construction to begin in Q3 2020.
2018	5161871074	Contingency for Unscheduled Works Program - 2018	100,000	39,345	24,692	35,963	64.0%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5161911101	Road Restoration Program - 2019	1,800,000	1,399,229	362,667	38,104	97.9%	D Lamont/ Waddell	Ongoing - work in progress. Anticipate completion by Q2 2020.
2019	5161949555	QA-QC Service Contract 2019	220,000	121,941	60,338	37,721	82.9%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161955556	Mapping Update - 2019	40,000	5,781	-	34,219	14.5%	D Lamont/ Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020.
2019	5161955878	Forcemain Condition Assessment Program - 2019	310,000	42,363	-	267,637	13.7%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960390	Wastewater System Lining Program - 2019	4,660,000	3,195,732	775,304	688,965	85.2%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960533	Trenchless Manhole Rehabilitation - 2019	80,000	6,932	-	73,068	8.7%	E. Waite / M. Zantingh / H. Krinas	Will close in next BER.
2019	5161960574	Pre-Construction Mainline Condition Assessment	580,000	92,260	300,000	187,740	67.6%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress

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2019	5161960575	Mainline Sewer Condition Assessment Program - 2019	790,000	360,485	380,590	48,925	93.8%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2019	5161960576	Sewer Lateral Condition Assessment - 2019	620,000	636,339	-	(16,339)	102.6%	E. Waite / M. Zantingh / H. Krinas	Will close in next BER.
2019	5161960577	Mainline Sewer Condition Assessment for Compliance & Regs - 2019	120,000	21,590	100,000	(1,590)	101.3%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960711	PW Capital Water Consumption Program - 2019	200,000	296,960	-	(96,960)	148.5%	E. Waite / P. McNab	Will close in next BER. Deficit will have been cleared.
2019	5161960820	Open Cut Repairs for CIPP Program - 2019	580,000	359,306	74,415	146,278	74.8%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.
2019	5161960942	Ancaster Sewage Pipeline Rehab	6,560,000	4,993,019	989,484	577,498	91.2%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161961444	Sewer Lateral Replace/Rehab Program - 2019	3,620,000	3,410,012	-	209,988	94.2%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161962073	Field Data Systems Program - 2019	110,000	79,559	22,000	8,441	92.3%	E. Waite / D. Sharma	Ongoing - work in progress - to be complete by year end 2020.
2019	5161968920	Fennell-Greenhill Drop Shaft	180,000	77,499	93,336	9,166	94.9%	E. Waite / Zantingh / Krinas	Ongoing - work in progress
2019	5161971015	Sewer Lateral Replacement for Co-ordinated Projects - 2019	430,000	199,963	53,037	177,001	58.8%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161971074	Contingency for Unscheduled Works Program - 2019	160,000	22,393	88,244	49,364	69.1%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5161971905	Cheever - Barton to Birge and Birge - Cheever to Wentworth	90,000	20,884	65,208	3,908	95.7%	M. Oddi	Complete pending final review/audit/payment.
2019	5161971945	Sheaffe / Park / Mulberry (Central Nbhd (North))	2,350,000	413,310	41,188	1,895,502	19.3%	E. Waite / M. Zantingh / H. Krinas	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation done as stand alone in 2019.
<b>Sub-Total Wastewater - Engineering Services</b>			<b>185,896,000</b>	<b>139,817,914</b>	<b>7,145,430</b>	<b>38,932,656</b>	<b>79.1%</b>		

**Storm Sewers - Engineering Services**

2012	5181272290	Storm Sewer Upgrades - 2012	7,596,000	7,332,529	226,616	36,855	99.5%	M. Oddi / P. McNab	Complete pending final billing from CN.
2013	5181372295	SERG - Mount Albion SWMF Rehab	670,000	174,308	5,558	490,134	26.8%	S. Jacob	Hamilton Water (Dave Arsenault) to pursue rehab strategies and advise before embarking on detailed design.
2014	5181460423	SERG - Princess at Birch	90,000	11,172	-	78,828	12.4%	S. Jacob	Phase 2 Class EA is complete but the funding for the total project has been removed.
2015	5181555077	Zoom Camera Inspection - Data Component	760,000	494,945	260,780	4,275	99.4%	E. Waite / M. Zantingh / H. Krinas	Complete and will close once commitments are paid/cleared.

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2015	5181560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,290,000	936,709	140,053	213,239	83.5%	E. Waite / M. Zantingh / H. Krinas	Complete pending final review/audit/payment.
2015	5181560999	Closed Projects - Storm	118,000	26,288	83,377	8,335	92.9%	M. Oddi / P. McNab	This project is primarily used to hold the contingency lines of purchase orders for several completed works until the maintenance period has expired. This allows for the closure of all the original project ID. % spent is dependent on maintenance required.
2016	5181672074	Contingency for Unscheduled Works Program - 2016	150,000	35,370	8,264	106,366	29.1%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2016	5181672259	SERG - Gage Park Pond	2,213,000	2,073,812	143,123	(3,935)	100.2%	M. Oddi	Complete pending final review/audit/payment.
2016	5181672650	West Mtn Sewers - Juggernaut	12,966,000	11,773,215	1,185,716	7,068	99.9%	E. Waite / M. Zantingh / H. Krinas	Complete pending final review/audit/payment.
2018	5181860533	Trenchless Manhole Rehabilitation - 2018	40,000	4,134	-	35,866	10.3%	E. Waite / M. Zantingh / H. Krinas	Will close next BER.
2018	5181860999	Closed Projects - Storm	90,000	688	85,242	4,070	95.5%	M. Oddi / P. McNab	This project is primarily used to hold the contingency lines of purchase orders for several completed works until the maintenance period has expired. This allows for the closure of all the original project ID. % spent is dependent on maintenance required.
2018	5181872074	Contingency for Unscheduled Works Program - 2018	100,000	16,836	42,000	41,164	58.8%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5181949555	QA-QC Service Contract 2019	160,000	84,004	10,585	65,411	59.1%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5181955556	Mapping Update - 2019	40,000	5,781	-	34,219	14.5%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020.
2019	5181960533	Trenchless Manhole Rehabilitation - 2019	80,000	9,932	-	70,068	12.4%	E. Waite / M. Zantingh / H. Krinas	Will close next BER.
2019	5181962073	Field Data Systems Program - 2019	110,000	66,654	16,835	26,511	75.9%	E. Waite / D. Sharma	Ongoing - work in progress - to be complete by year end 2020.
2019	5181972074	Contingency for Unscheduled Works Program - 2019	120,000	24,137	-	95,863	20.1%	E. Waite / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5181972290	Hewitson - Dupont to Barton	520,000	496,528	-	23,472	95.5%	E. Waite / M. Zantingh / H. Krinas	Will close next BER.
2019	5181972291	Haddon - Sterling to Marion	300,000	61,456	-	238,544	20.5%	E. Waite / M. Zantingh / H. Krinas	Work to be completed in 2020.
2019	5181972292	Baldwin & Court-West to Dundas	290,000	151,239	-	138,762	52.2%	E. Waite / M. Zantingh / H. Krinas	Will close next BER.

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			<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>		
2019	5181972940	Evans Road Culvert Twinning	170,000	32,304	82,024	55,672	67.3%	E. Waite / M. Zantingh / H. Krinas	Ongoing - work in progress

**Sub-Total Storm Sewers - Engineering Services** 27,873,000    23,812,041    2,290,175    1,770,784    93.6%

**TOTAL WATER, WASTEWATER & STORM SEWERS ENGINEERING SECTION** 307,159,000    212,506,861    13,886,822    80,765,318    73.7%

**WATER WASTEWATER & STORM SEWERS OPERATIONS SECTION**

**Water - Operations**

2017	5141751710	Fleet Additions - Hamilton Water - 2017	560,000	401,944	4,248	153,808	72.5%	N. Winters / P. Kowalski	To be fully spent by January 2020.
2018	5141851810	Fleet Additions - Hamilton Water - 2018	1,230,000	460,884	-	769,116	37.5%	N. Winters / P. Kowalski	Funds in budget are expected to be fully expended by end of 2020. There are a number of builds currently ongoing.
2018	5141855851	Water Efficiency Plan - 2018	221,000	97,937	63,500	59,563	73.0%	N. Winters / J. Wagner	\$63,500 will be utilized and paid out from the current PO commitments by July 1 2020. The remaining should be whip forward to the 2020 project id.
2018	5141862078	Substandard Water Service Replacement Program - 2018	2,849,000	2,433,679	184,816	230,505	91.9%	N. Winters / D. Alberton	Ongoing - work in progress. Will be fully spent by November 2019.
2018	5141869075	Environmental Lab Improvements - 2018	200,000	7,000	134,150	58,850	70.6%	A. Grice / C. Vanderperk / R. Eszes	Instrument installation in process. Invoice payment pending successful installation. Anticipate balance to be spent by end of 2020 for ICPOES.
2019	5141960750	Unscheduled Valve, Hydrant etc - 2019	3,033,000	1,138,440	757,427	1,137,133	62.5%	N. Winters / D. Alberton	Ongoing - Work in progress to be fully spent by June 1, 2020.
2019	5141961502	Water Meter - Installation /Replace/Repair - General Mtnc - 2019	2,860,000	2,371,578	313,033	175,389	93.9%	N. Winters / R. DiGiovanni	This project has been completed. PO's attached to this project will closed out once all invoices are paid. Closeout of POs and Proj. ID by June 2020.
2019	5141961910	Res Water Meter and Meter Pit	180,000	-	-	180,000	0.0%	N. Winters / R. DiGiovanni	This project has not started yet. Work is to commence in Summer 2020 as non compliant customers come on board.
2019	5141962078	Substandard Water Service Replacement Program - 2019	2,750,000	447,340	2,302,398	262	100.0%	N. Winters / D. Alberton	Fully committed to P.O.
2019	5141969075	Environmental Lab Improvements - 2019	220,000	-	18,790	201,210	8.5%	A. Grice / C. Vanderperk / R. Eszes	Tied to the HVAC Upgrade.

**Sub-Total - Hamilton Water - Operations** 14,103,000    7,358,802    3,778,363    2,965,835    79.0%

**WasteWater - Operations**

2014	5161469076	BCOS-Beyond Compliance OP Sys	243,000	105,159	-	137,841	43.3%	A. Grice / C. Vanderperk / S. Girt	Various projects are upcoming in 2020 (WW compliance audit - March 2020, training and OH&S assistance to close OH&S compliance audit findings).
2015	5161567565	HC005 Montgomery Drive - Inline Storage	2,170,000	2,089,437	9,396	71,167	96.7%	N. Winters / S. MacPherson- Nemeth	Work completed. PO will be closed.
2016	5161669075	Environmental Lab Improvements - 2016	345,000	221,317	13,183	110,501	68.0%	A. Grice / Vanderperk/ Eszes	Part of HVAC upgrade. Cannot close.

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2017	5161755422	Sewer Use Bylaw Enforcement Infor Upgrade	80,000	32,112	19,190	28,698	64.1%	A. Grice / C. Vanderperk / Saunders	13% has been spent to date on PO 0000093042. Remaining funds to support EME during 2020.
2017	5161760302	Emergency Repairs - Cross Connections - 2017	1,000,000	666,037	43,930	290,033	71.0%	N. Winters / D. Alberton	Complete pending final review/audit/payment. Surplus funds to be used to WIP fund to 2021 program.
2017	5161766423	Sewer Use Bylaw 14-090 Parameter Limit Review	300,000	114,649	-	185,351	38.2%	A. Grice / C. Vanderperk / Saunders	2020 Working with Jacobs on Construction Dewatering Program. No PO issued yet, however it will be for \$137,904. Will spend 10,000\$ for IRIS reporting.
2017	5161769075	Environmental Lab Improvements - 2017	250,000	132,743	110,031	7,226	97.1%	A. Grice / C. Vanderperk / R. Eszes	Expecting delivery of instruments in Q2 2020.
2018	5161860302	Emergency Repairs - Cross Connections - 2018	500,000	359,110	-	140,890	71.8%	N. Winters / D. Alberton	Complete pending final review/audit/payment. Surplus funds to be used to WIP fund to 2021 program.
2018	5161869075	Environmental Lab Improvements - 2018	200,000	-	-	200,000	0.0%	A. Grice / C. Vanderperk / R. Eszes	Working with Purchasing on RFT for ICPOES.
2019	5161960302	Emergency Repairs - Cross Connections - 2019	750,000	105,216	186,604	458,180	38.9%	N. Winters / D. Alberton	Ongoing - work in progress - this account funds the investigation and correction of sewer lateral cross connections.
2019	5161960522	Sewer Lateral Management Program (WWC) - 2019	4,500,000	1,683,491	2,577,115	239,393	94.7%	N. Winters / D. Alberton	Ongoing work in progress, will be fully committed to P.O. by March 1, 2020.
2019	5161961740	Unscheduled Manhole & Sewermain - 2019	400,000	168,195	27,773	204,032	49.0%	N. Winters / D. Alberton	Ongoing - work in progress - To be fully spent by Aug 1, 2020.
2019	5161969075	Environmental Lab Improvements - 2019	200,000	-	-	200,000	0.0%	A. Grice / C. Vanderperk / R. Eszes	Tied to the HVAC Upgrade.

**Sub-Total - Hamilton WasteWater - Operations** **10,938,000**    **5,677,465**    **2,987,223**    **2,273,312**    **79.2%**

**Storm Sewers - Hamilton Water**

2014	5181460452	Shoreline Protection Program	1,310,000	284,707	248,531	776,762	40.7%	N. Winters / R. Moore	Project has refunded costs through DMAF Funding.
2014	5181460461	Forty Mile Municipal Drain	100,000	91,363	-	8,637	91.4%	N. Winters / R. Moore	Will close next BER. Unable to invoice watershed as previous D.S. did not first obtain a by-law to levy the costs.
2014	5181460722	Municipal Drain Program - 2014/15	139,000	33,264	-	105,736	23.9%	N. Winters / R. Moore	Will close next BER.
2015	5181510501	Mathers Drive Bank Erosion Control and Slope Stabilization	1,100,000	693,703	212,989	193,308	82.4%	N. Winters / R. Moore	Construction works complete. Monitoring work to commence until 2022.
2017	5181755740	Flushables Research Study	75,000	75,900	413	(1,313)	101.8%	N. Winters / J. Wagner	Complete and will close once commitments are paid/cleared.
2018	5181817152	Cross Road Culvert Program - 2018	1,380,000	319,845	200,284	859,871	37.7%	E. Soldo / M. Pastuszok	Centre Rd is completed and invoices paid. Old Guelph design and permits to be completed by Q2 2020. Project will then be passed along to Engineering Services. Contract for 2018 completed and remaining funds will be used in 2020 contract.
2018	5181860622	SWM Facility Maintenance Program - 2018	1,200,000	773,654	408,510	17,836	98.5%	N. Winters / R. Moore	Will close next BER.
2018	5181860722	Municipal Drain Program - 2018	280,000	146,418	27,960	105,622	62.3%	N. Winters / R. Moore	Will close next BER.

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2018	5181874840	Sydenham Interceptor Swale Re-construction	260,000	-	-	260,000	0.0%	N. Winters / R. Moore	CN proceeded with channel improvements. Works not required at this time. Will close next BER.
2018	5181874841	Lower Davis Creek - Flood Control Facility	550,000	53,900	44,446	451,654	17.9%	N. Winters / R. Moore	Ongoing - limited resources to deliver work plan.
2019	5181917152	Cross Road Culvert Program - 2019	1,390,000	944,650	352,566	92,784	93.3%	E. Soldo / M. Pastuszok	2019 Culvert contract completed. Final invoice to be paid in Q1 2020, and remaining funds will be used under 2020 Culvert Program.
2019	5181917458	Catch Basin Replacement/Rehabilitation Program - 2019	770,000	430,445	296,517	43,038	94.4%	E. Soldo / R. Marques	2019 program completed and 2020 program has commenced.
2019	5181917549	Concrete Box Culvert Rehabilitation/Repair (< 3.0m span) - 2019	620,000	57,968	-	562,032	9.3%	E. Soldo / M. Pastuszok	2019 project on Garner has been completed. No further works planned at this time.
2019	5181960622	SWM Facility Maintenance Program - 2019	1,200,000	1,200,000	-	-	100.0%	N. Winters / R. Moore	Will close next BER, after year end reporting.
2019	5181960722	Municipal Drain Program - 2019	100,000	-	-	100,000	0.0%	N. Winters / R. Moore	Ongoing - future works anticipated from staff report to Council (Info Report May 2020)
2019	5181961740	Unscheduled Manhole & Sewermain - 2019	60,000	-	-	60,000	0.0%	N. Winters / D. Alberton	Ongoing - work in progress - to be fully spent by Aug 1, 2020.
2019	5181974950	Watercourse & Drainage Mtn	580,000	-	-	580,000	0.0%	N. Winters / R. Moore	Ongoing - limited resources to deliver work plan.
2019	5181974951	Shoreline Protection Program	350,000	-	25,000	325,000	7.1%	N. Winters / R. Moore	Ongoing - limited resources to deliver work plan.
<b><i>Sub-Total - Hamilton Storm Sewers - Roads O&amp;M</i></b>			<b>11,464,000</b>	<b>5,105,816</b>	<b>1,817,217</b>	<b>4,540,967</b>	<b>60.4%</b>		
<b><i>TOTAL WATER, WASTEWATER &amp; STORM SEWERS - OPERATIONS</i></b>			<b>36,505,000</b>	<b>18,142,083</b>	<b>8,582,803</b>	<b>9,780,115</b>	<b>73.2%</b>		
<b>Total Public Works - Rate Supported</b>			<b>1,016,696,800</b>	<b>502,564,687</b>	<b>287,846,381</b>	<b>226,285,732</b>	<b>77.7%</b>		