

**City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects
As of December 31, 2018**

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, 2018
			a	b	c	d	e		

CAPITAL DELIVERY SECTION

Water Rates

2010	5141061303	Valve Chamber No 3 First-Isaac	2,790,000	2,560,506	33,747	195,747	93.0%	S.Leitch	STATUS: Work Completed (Valve Chamber No. 3 Upgrades). Work in Progress - Design (SCADA Components - Valve Chamber 3). NEXT STEPS: RFQ for Construction (SCADA Components) Q2 2019.
2011	5141166110	WTP - Process Upgrades	14,660,000	3,121,943	25,307,824	(13,769,767)	193.9%	S.Leitch	STATUS: Work in Progress - Construction (Process Upgrades - Phase 1). NEXT STEPS: Substantial Performance Q4 2021. Negative balance due to budgets being approved on a cash flow basis by Finance (\$142M future budgets approved, 2019 - 2028).
2012	5141267270	Water Control Valve Upgrades	4,060,000	2,001,020	466,266	1,592,715	60.8%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q2 2019. WIP Fund Projectid 5141666608 by \$1,200,000 through 2019 Rates Budget.
2012	5141267272	Hillcrest Reservoir - HDR02	12,200,000	10,749,498	1,261,673	188,829	98.5%	S.Leitch	STATUS: Substantially Performed (Hillcrest Reservoir Upgrades & Security Gate). NEXT STEPS: Q1 2019 Completion. WIP Fund Projectid 5141666608 by \$1,000,000 through 2019 Rates Budget.
2012	5141267274	Kenilworth PS - HD005 Upgrades	3,025,000	563,282	371,788	2,089,930	30.9%	S.Leitch	STATUS: Work in Progress - Awarding Tender for Construction (Pump Station) & Construction (Valve Replacement). NEXT STEPS: Substantial Performance Q3 2019 (Valve Replacement) & (Pump Station) Q4 2019.
2012	5141269250	HVAC Upgrade New Lab & Admin	5,620,000	952,920	6,599	4,660,481	17.1%	S.Leitch	STATUS: Work in Progress - Design. New Lab Extension cancelled. NEXT STEPS: Request for Prequalified Contractors for Construction Q3 2019 (Lab HVAC Upgrades).
2013	5141395353	Ferguson HD002 Pumping Stn	2,270,000	324,201	35,579	1,910,220	15.8%	S.Leitch	STATUS: Work in Progress - Condition Assessment (HD0X2 Old Ferguson Water Pumping Station). NEXT STEPS: Request for Proposals for Design - New Ferguson PS (Phase 2 Upgrades) Q1 2019.
2015	5141567520	HDR05 Reservoir Upgrades	4,192,000	313,604	325,616	3,552,780	15.2%	S.Leitch	STATUS: Work in Progress - Design (Evaluating Bids from 7 Contractors from Pre-Qualification for Construction). NEXT STEPS: Tender for Construction Q2 2019.
2015	5141567525	HDR08 Reservoir Decommission	520,000	338,708	106,559	74,733	85.6%	S.Leitch	STATUS: Work Completed. NEXT STEPS: Account to be closed once outstanding purchase orders have been closed.
2015	5141567575	High Lift PS Upgrades Phase 2	880,000	253,703	140,885	485,411	44.8%	S.Leitch	STATUS: Work Complete - Field Study (HLPS Power Distribution & Protection Setup). NEXT STEPS: Construction - Power Distribution (Recommissioning) Q1 2019.
2015	5141567577	Security - Water PS Facilities	5,600,000	1,006,800	1,578,889	3,014,311	46.2%	S.Leitch	STATUS: Work in Progress - Construction (Physical Security - Fencing). NEXT STEPS: Substantial Performance Q1 2019 (Physical Security - Fencing). Request for Proposals 2019 (Electronic Security System).

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2016	5141666110	WTP - Corrosion Control	7,660,000	6,480,004	806,084	373,912	95.1%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q4 2019.
2016	5141666608	Lynden Additional Water Supply	4,570,000	515,581	304,769	3,749,650	18.0%	S.Leitch	STATUS: Work in Progress - Awarding Tender for Construction. NEXT STEPS: Substantial Performance Q1 2020.
2016	5141667420	Ben Nevis & Dewitt HD08A WPS	2,590,000	219,149	405,004	1,965,847	24.1%	S.Leitch	STATUS: Work in Progress - Design (4 Contractors Prequalified for Construction). NEXT STEPS: Tender for Construction Q1 2019.

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2016	5141667421	Glancaster & Hwy 53 HD018 WPS	6,040,000	5,107	-	6,034,893	0.1%	S.Leitch	STATUS: Awaiting completion of the PD18 Ancaster Tower EA and Land Purchase. NEXT STEPS: Issue Project Charter Q3 2019.
2016	5141667422	Osler Road HD011 WPS	2,289,000	296,853	1,860,745	131,402	94.3%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q3 2019.
2016	5141667424	Freelton Tower HDT03 Upgrades	3,600,000	1,671,558	650,452	1,277,990	64.5%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2019.
2016	5141695883	York & Valley HD016 WPS (W-26)	3,710,000	58,671	-	3,651,329	1.6%	S.Leitch	STATUS: Work Completed - Conceptual Review. NEXT STEPS: Roster for Hydraulic assessment of the York & Valley HD016 Pumping station capacity upgrades Q1 2019.
2017	5141766421	WTP Fluoride Building HVAC	470,000	31,060	21,836	417,104	11.3%	S.Leitch	STATUS: Work Completed - Air Quality Study. NEXT STEPS: Policy 11 previously approved - Contractor providing quote for expansion to Corrosion Control Building Q1 2019 and complete works in Q2 2019
2017	5141767420	Carlisle Well Stn Sys Enhance	940,000	18,843	-	921,157	2.0%	S.Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q2 2019.
2017	5141767650	New Greensville Communal Well	500,000	66,558	26,653	406,789	18.6%	S.Leitch	STATUS: Awaiting completion of Schedule C EA for the Greensville New Well. NEXT STEPS: Issue Project Charter Q4 2019.
2017	5141795850	Greenhill PS HD04B & HD05A	8,270,000	144,717	222,395	7,902,888	4.4%	S.Leitch	STATUS: Work in Progress - Design (Immediate Needs) & Conceptual Design (Ultimate Upgrades). Awarding Tender for Construction (Immediate Needs). NEXT STEPS: Substantial Performance (Immediate Needs) Q4 2019.
2018	5141867651	HD007 Highland Rd Reservoir	260,000	-	-	260,000	0.0%	S.Leitch	STATUS: Timing of this project is aligned with the Reservoir Capital Coordination Schedule. NEXT STEPS: Issue Project Charter Q1 2019.
Sub-Total Capital Delivery - Water			96,716,000	31,694,287	33,933,362	31,088,351	67.9%		

Wastewater - Rates

2007	5160795760	Southcote PS&Forcemain-HC008	5,512,100	2,945,721	110,840	2,455,539	55.5%	S.Leitch	STATUS: Work Completed (Forcemain & Pumping Station). NEXT STEPS: Completion Q1 2019 (minor electrical work).
2009	5160966912	Decommission Waterdown WWTP-WW08	6,000,000	690,383	80,965	5,228,652	12.9%	S.Leitch	STATUS: Work in Progress - Design (7 Contractors Prequalified for Construction). NEXT STEPS: Tender for Construction Q1 2019.
2010	5161066065	Waste Hauler Receiving Station	2,789,800	608,282	2,109,875	71,643	97.4%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q3 2019.
2012	5161266213	Dundas WWTP Improvements	1,420,200	423,655	-	996,545	29.8%	S.Leitch	STATUS: On Hold - Exploring Funding Opportunities. Work Completed - Feasibility Study (Dundas WWTP outfall extension) & Asset Replacement Study. NEXT STEPS: Request for Proposals for Process Technology Pilot Study / Design in 2019.

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2012	5161267270	Ancaster WW Outstations	6,310,000	3,994,228	332,666	1,983,106	68.6%	S.Leitch	STATUS: Substantially Performed (HC009, HC013). Work in Progress - Design (HC005). NEXT STEPS: Request for Prequalified Contractors Q1 2019 (HC005). Request for Quotes - Minor Electrical and Civil Improvements (HC009, HC013).
2012	5161267273	Dundas WW Outstations	2,730,000	1,180,190	106,256	1,443,554	47.1%	S.Leitch	STATUS: Substantially Performed (DC005, DC006). Work Completed - Scope Verification (DC010). NEXT STEPS: Request for Proposals for Design (DC010) Q1 2019.
2013	5161367360	Cormorant & Osprey (HC014)	4,610,000	3,934,220	367,163	308,616	93.3%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2019.

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2013	5161367374	Waterdown Outstation Upgrades	3,420,000	3,219,576	131,037	69,387	98.0%	S.Leitch	STATUS: Substantially Performed (DC013, FC003). NEXT STEPS : Account to be closed once deficiencies and finishing work have been completed Q1 2019.
2014	5161467756	Greenhill & Cochrane HCS01	1,990,000	203,083	-	1,786,917	10.2%	S.Leitch	STATUS: Work Completed - Life Cycle Analysis. NEXT STEPS: Issue Project Charter Q2 2019.
2015	5161595858	Binbrook PS Upgrade (WW-20)	6,280,000	1,959,809	2,878,518	1,441,673	77.0%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q3 2019.
2016	5161667622	FC001 DC009 HC011 Upgrades	2,140,000	98,152	110,420	1,931,428	9.7%	S.Leitch	STATUS: Work in Progress - Design (FC001, DC009). Evaluating Proposals for Design from 9 Consulting Engineers (HC011). NEXT STEPS: Request for Prequalified Contractors for Construction Q1 2019 (FC001, DC009). Award Design Q1 2019 (HC011).
2017	5161766421	WWTP Methane Sphere Upgrades	4,400,000	3,179,097	842,132	378,771	91.4%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2019.
2017	5161767420	Parkdale Av HC001 WW Statn Upg	660,000	-	-	660,000	0.0%	S.Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q2 2019.
2017	5161796786	First Street PS Upgrade DC014	3,450,000	146,087	571,945	2,731,968	20.8%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q2 2019.
2020	5162068851	Pier 25 Dredging - Windermere	170,000	-	-	170,000	0.0%	S.Leitch	STATUS: Developing Roster Invitation (Feasibility Study to determine potential locations for Silt Disposal). NEXT STEPS: Award Feasibility Study Q2 2019.
<i>Sub-Total Capital Delivery - Wastewater</i>			51,882,100	22,582,484	7,641,818	21,657,798	58.3%		
<i>TOTAL CAPITAL DELIVERY SECTION</i>			148,598,100	54,276,771	41,575,180	52,746,150	64.5%		

INFRASTRUCTURE PLANNING & SYSTEMS DESIGN

Water - Rates

2011	5141167150	Greensville New Well – EA	720,000	1,327,085	22,337	(629,422)	187.4%	B.Posedowski	STATUS: Work Completed - Pumping Test and Hydrogeologic investigation, Greensville Subwatershed Study Report. Work in Progress - New Greensville Municipal Well Schedule C EA. NEXT STEPS: Completion of EA Q2 2019.
2013	5141395354	PD18 Elevated Reservoir W14	2,610,000	356,574	26,951	2,226,475	14.7%	B.Posedowski	STATUS: Work in Progress - Class EA and Conceptual Design, Terrestrial and Avian Assessments. NEXT STEPS: Completion of EA is Q2 2019. Land Purchase is in the Critical Path.
2014	5141495551	PD7 Elevated Reservoir W-23	1,990,000	110,097	36,814	1,843,089	7.4%	B.Posedowski	STATUS: Work in Progress - EA & Conceptual Design of PD7 Elevated Tower / Reservoir & New Pumping Station. NEXT STEPS: EA Completion Q1 2019.
2015	5141555010	Water Systems Planning	450,000	357,753	65,288	26,959	94.0%	B.Posedowski	STATUS: Work in Progress - Servicing alternatives for Ancaster, Screening of Development Applications, Pressure District Boundary Condition Characterization. NEXT STEPS: Completion Q2 2019.

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2015	5141555264	City-Wide Water MP	550,000	61,557	499,252	(10,809)	102.0%	B.Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.
2015	5141555555	City Wide Groundwater Model	710,000	390,092	52,001	267,907	62.3%	B.Posedowski	STATUS: Work in Progress - Vulnerability Mapping for Rural Development, Delineation of Lynden Wellhead Protection Areas. NEXT STEPS: Freulton Wellhead Protection Area Delineation Q1 2019.

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2015	5141564533	Up Wentworth - Hydro to Twenty	200,000	12,638	-	187,362	6.3%	B.Posedowski	STAU: 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	NEXT STEPS: Issue Project Charter Q1 2019.
2015	5141595553	HD12A PS Upgrades (W-04)	720,000	152,717	17,875	549,408	23.7%	B.Posedowski	STATUS: Work Completed - Land Acquisition and Phase One & Two Environmental Site Assessment (ESA) & pre-demolition Designated Substances / Hazardous Materials Survey. Work in Progress - Class EA. NEXT STEPS: Completion of EA Q1 2019.
2016	5141664632	Twenty (Greti) to Upper James	1,610,000	184,337	-	1,425,663	11.4%	B.Posedowski	STAU: On Hold. NEXT STEPS: City Wide Water and Wastewater Master Plan will dictate whether this is required.
2016	5141667423	Freelton Well FDF01 Capacity	1,430,000	188,607	91,341	1,150,052	19.6%	B.Posedowski	STATUS: Work Complete - Hydrogeological study. Work in Progress - GUDI Investigation & Treatment Capacity Study. NEXT STEPS: Study Completion Q1 2019.
2017	5141767752	WW Outstation Inspection - AM	550,000	185,495	268,572	95,932	82.6%	B.Posedowski	STATUS: Work in Progress - Design of Facility Asset Management Program and Peer Review, Condition Assessments (HDR00, Chlorine Building), Energy Audit of HW facilities (Phase II). NEXT STEPS: Completion Q2 2023.
2017	5141796752	PD16 Trunk - PS HD016 to Hwy 5	1,690,000	146,359	-	1,543,641	8.7%	B.Posedowski	STATUS: Completed Functional design. NEXT STEPS: Class EA for the Waterdown Trunk Watermain Twinning Q1 2019.
2018	5141855010	Water Systems Planning	300,000	9,993	112,827	177,180	40.9%	B.Posedowski	STATUS: Support for ongoing water system analysis of the LRT intensification corridor, Screening and development application services, Pressure District Boundary Condition Characterization. NEXT STEPS: Completion Q1 2019.
2018	5141855777	LRT Corridor - Water	220,000	-	-	220,000	0.0%	B.Posedowski	0
2018	5141867752	Water Outstation Inspections	660,000	124,794	272,895	262,311	60.3%	B.Posedowski	STATUS: Work in Progress - 2018 Water and Wastewater Financial Plan, Lynden New Well Cost Estimate Peer Review, Condition Assessment (FDG01). NEXT STEPS: Condition Assessment (HDR2A) Q1 2019, Woodward WTP Upgrades DC Study Q1 2019.
2018	5141895852	Carlisle Additnl Water Storage	440,000	-	-	440,000	0.0%	B.Posedowski	NEXT STEPS: Water System Specialist to assess alternatives to the Future Carlisle Water Storage Q1 2019.
2018	5141895956	Water Distribution Model	350,000	-	700	349,300	0.2%	B.Posedowski	NEXT STEPS: WaterCAD Model Update and Maintenance Procedure Q1 2019.
Sub-Total Infrastructure Planning & Systems Design - Water			17,130,000	3,612,144	1,466,853	12,051,003	29.6%		

Wastewater - Rates

2007	5160755640	Non-trunk Flow Monitoring	500,000	114,300	398,089	(12,389)	102.5%	B.Posedowski	STATUS: Work Complete - Design of Wet Weather Control. NEXT STEPS: Completion of Conceptual Design Q3 2018. Negative balance due to unanticipated tax changes.
2008	5160867751	WW Outstns - Asset Management	2,655,000	1,348,830	1,370,886	(64,716)	102.4%	B.Posedowski	STATUS: Work Complete - Design of Wet Weather Control. NEXT STEPS: Completion of Conceptual Design Q3 2018. Negative balance due to unanticipated tax changes.

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2013	5161367752	WW Outstation Inspection - AM	645,000	147,148	494,829	3,023	99.5%	B.Posedowski	STATUS: Work in Progress - Design for Facility Asset Management Program. NEXT STEPS: Completion Q2 2023.
2014	5161455420	SERG - Flooding & Drainage MP	555,000	201,627	266,836	86,537	84.4%	B.Posedowski	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q1 2019.

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2015	5161555264	City-Wide Wastewater MP	550,000	439,327	127,203	(16,531)	103.0%	B.Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.
2015	5161555955	Inflow & Infiltration	474,000	360,598	78,516	34,886	92.6%	B.Posedowski	STATUS: Work in Progress - HC058 Capacity Analysis and Wet Weather Relief Class EA, West Mountain Flow Monitoring & West 18th, Riverdale East Flooding. NEXT STEPS: Completion Q1 2019.
2015	5161557545	Wastewater Computer Model	550,000	175,470	327,650	46,880	91.5%	B.Posedowski	STATUS: Work in Progress - Rain Gauges Flow Monitoring Services, Hydrologic-hydraulic model for the storm sewer systems of Phase 1 Hamilton Mountain Areas (Ancaster). NEXT STEPS: Completion Q4 2020.
2015	5161567564	HC005 - Schedule C EA	990,000	233,632	145,319	611,049	38.3%	B.Posedowski	STATUS: Work in Progress - Emergency Overflow Schedule C Municipal Class EA. NEXT STEPS: EA Completion Q2 2019. Detailed Design to follow.
2016	5161655350	Riverdale Flood Relief EA	220,000	4,247	-	215,753	1.9%	B.Posedowski	STATUS: Work in Progress - Riverdale East and Surrounding Neighbourhood Flooding Remedial Measures & Conceptual Design . NEXT STEPS: Conceptual Design Completion Q2 2019. Detailed Design to follow.
2016	5161655351	Lawfield & Berrisfield Area	185,000	223,536	-	(38,536)	120.8%	B.Posedowski	STATUS: Work Completed - Smoke Testing, Manhole Inspection, Conceptual Design of Neighbourhood 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	100,000	4,875	-	95,125	4.9%	B.Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2016	5161667421	New Haulage Receiving Station	1,140,000	139,588	87,157	913,255	19.9%	B.Posedowski	STATUS: Work in Progress - Class EA and Conceptual Design. NEXT STEPS: EA Completion Q2 2019. Land Purchase & Detailed Design to follow.
2016	5161695747	Battlefield Trunk Sewer WW-33	1,650,000	124,279	-	1,525,721	7.5%	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	2,750,000	298,230	5,025	2,446,745	11.0%	B.Posedowski	STATUS: Work Completed - Economic Analysis and Feasibility study to support the Conceptual Design Implementation. NEXT STEPS: Detailed Design.
2017	5161755640	Non-Trunk Flow Monitoring	100,000	10,003	78,365	11,632	88.4%	B.Posedowski	STATUS: Citywide Sanitary Service Flow Monitoring. NEXT STEPS: Completion Q1 2020.
2017	5161755955	Inflow & Infiltration	300,000	207,902	16,161	75,937	74.7%	B.Posedowski	STATUS: Work in Progress - Glen Road Inspection and Monitoring/ Aberdeen CSO Monitoring. NEXT STEPS: Completion Q1 2019.
2017	5161757420	SCADA Rain Gauges	50,000	-	-	50,000	0.0%	B.Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2017	5161767752	WW Outstn Insp -Asset Mgm Prog	220,000	58,376	96,478	65,146	70.4%	B.Posedowski	STATUS: Work in Progress - Energy Audit (of HW facilities - Phase II). Pilot Study - Asset Management. NEXT STEPS: Roster Invitation - Condition Assessment (DC007 McMaster SPS) Q1 2019.

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2018	5161855010	Wastewater Systems Planning	300,000	29,517	206,532	63,951	78.7%	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: Completion Q1 2019.
2018	5161855640	Flow Monitoring Program	50,000	8,838	50,092	(8,930)	117.9%	B.Posedowski	STATUS: Citywide Sanitary Service Flow Monitoring, Rain Gauges Flow Monitoring Services. NEXT STEPS: Completion Q1 2020.

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2018	5161855777	LRT Corridor - Wastewater	220,000	-	98,480	121,520	44.8%	B.Posedowski	NEXT STEPS: Wastewater System Analysis for LRT intensification Corridor Q1 2019.
2018	5161857545	Wastewater Computer Model	280,000	108,968	59,541	111,490	60.2%	B.Posedowski	STATUS: Citywide Sanitary & Stormwater Flow Monitoring Services. NEXT STEPS: Completion Q1 2020.
2018	5161867752	Wastewater Outstation Inspect	520,000	41,111	75,417	403,472	22.4%	B.Posedowski	STATUS: Work in Progress - Condition Assessment (HC017 Eastport SPS), Development Water Financial Plan. NEXT STEPS: Completion Q1 2019.
<i>Sub-Total Infrastructure Planning & Systems Design -</i>			15,004,000	4,280,402	3,982,577	6,741,021	55.1%		

Storm water - Rates

2012	5181260214	Parkside and Kipling Flood	1,500,000	1,365,490	-	134,510	91.0%	C.Graham	STATUS: Work in Progress - Construction (Churchill Park Rain Gardens - Phase 1). NEXT STEPS: Substantial Performance (Phase 1) Q2 2019.
2012	5181260216	Golf Course SWMP Rosedale	2,570,000	481,330	52,233	2,036,437	20.8%	B.Posedowski	STATUS: Work in Progress - Enhanced Functional Design and Topographic Survey. NEXT STEPS: Completion of Enhanced Functional Design Q2 2019. Detailed Design to follow.
2012	5181274800	Watercourse 5 and 6	3,850,000	380,006	31,211	3,438,783	10.7%	B.Posedowski	STATUS: Work in Progress - Flood plain mapping and hydrologic analysis to update SCUBE reports, Hydraulics Assessment and Class EA Work Plan. NEXT STEPS: EA Completion Q1 2019. Detailed Design to follow.
2013	5181355350	SERG Studies & Assessments	740,000	542,012	46,071	151,917	79.5%	B.Posedowski	STATUS: Work Completed - Low Impact Development Bumpout (Bay and Simcoe). Work in Progress - Beach Strip Flooding Study. NEXT STEPS: Completion Q1 2019.
2014	5181455420	SERG - Flooding & Drainage MP	645,000	13,553	453,434	178,014	72.4%	B.Posedowski	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q1 2019.
2015	5181555422	GRIDS II - Stormwater MP	550,000	57,750	499,252	(7,002)	101.3%	B.Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.
2015	5181562590	SWMP Retrofits	660,000	-	-	660,000	0.0%	B.Posedowski	NEXT STEPS : Issue Project Charter for the Analysis & Conceptual Design - Stormwater Management Pond Retrofits (Ponds # 67, 9, 54, 52, 35, 14) Q1 2019.
2016	5181655075	SERG - Watershed Proj Coord	500,000	173,043	180,822	146,135	70.8%	B.Posedowski	STATUS: Work in Progress - Lower Spencer Creek Subwatershed Study, Delivery of environmental data collection in the field. NEXT STEPS: Completion Q1 2019.
2016	5181655421	SERG Stormwater System Planning	280,000	56,954	96,335	126,711	54.7%	B.Posedowski	STATUS: Work in Progress - Hydraulic Assessment (Storm Sewer in Ancaster, Stormwater needs for Roads Capital Program). NEXT STEPS: Completion Q4 2020.
2017	5181755420	Stormwater Drainage Review	280,000	50,331	200,470	29,199	89.6%	B.Posedowski	STATUS: Work in Progress - Detailed Drainage Assessment Study (Phase 2) - Development of Existing Residential (ER) Neighbourhoods in Rural Ancaster. NEXT STEPS: Completion Q1 2019.

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			a	b	c	d	e		
2017	5181755421	SERG - SW System Planning	280,000	36,879	11,692	231,430	17.3%	B.Posedowski	STATUS: Wilson Street Stormwater Drainage Plan. NEXT STEPS: City-wide Stormwater Infrastructure Field Verification & GIS Database Update for Modelling Q1 2019.
2018	5181823155	SERG - Dundas Drainage Upgrade	60,000	-	-	60,000	0.0%	B.Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2018	5181872295	SERG - LEEDS Implementation	440,000	16,013	-	423,987	3.6%	B.Posedowski	0
<u>Sub-Total Infrastructure Planning & Systems Design - Storm</u>			12,355,000	3,173,362	1,571,519	7,610,119	38.4%		
<u>TOTAL INFRASTRUCTURE PLANNING & SYSTEMS DESIGN</u>			44,489,000	11,065,909	7,020,949	26,402,142	40.7%		

WOODWARD UPGRADES SECTION

Wastewater - Rates

2008	5160866801	Woodward WWTP - Clean Harbour	227,205,114	82,163,050	145,042,064	-	100.0%	J.Helka	STATUS: GIF Funded. \$254M future budgets approved (cash flowed 2019 - 2021). Work in Progress - Construction (Raw Wastewater Pumping Station, Electrical System), Pre-Purchased Equipment (Tertiary). NEXT STEPS: Tender for Construction (Tertiary Q1 2019).
2009	5160966910	WWTP - Biosolids MP Implement	10,220,000	4,049,847	4,829,591	1,340,562	86.9%	J.Helka	STATUS: PPP Canada Funded, 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 Q2 2020.
<u>Sub-Total Woodward Upgrades - Wastewater</u>			237,425,114	86,212,897	149,871,655	1,340,562	99.4%		
<u>TOTAL WOODWARD UPGRADES SECTION</u>			237,425,114	86,212,897	149,871,655	1,340,562	99.4%		

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

PLANT MAINTENANCE AND TECHNICAL SERVICES SECTION

Water - Rates

2011	5141166151	SCADA Master Plan Implement	15,580,000	12,395,252	806,911	2,377,837	84.7%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Account to be closed once final invoices have been paid and outstanding purchase orders have been closed. WIP Fund Projectid 5141966151 by \$2,500,000 through 2019 Rates Budget.
2015	5141566711	Annual Water Treatment Studies	250,000	51,185	62,820	135,995	45.6%	G.Botha	STATUS: Work in Progress - Baseline biological activity in the full scale media filters at the Woodward Avenue WTP. NEXT STEPS: Roster Invitation - Optimization Study for Corrosion Control using Phosphoric acid chemical dosing Q1 2019.
2016	5141666713	Annual Water Maintenance	600,000	496,859	38,035	65,106	89.1%	G.Botha	STATUS: Substantially Performed - Woodward WWTP Staff Building Renovations. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q1 2019.

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2017	5141766711	Annual Water Treatment Studies	250,000	96,869	22,545	130,586	47.8%	G.Botha	STATUS: Work in Progress - Condition Assessment (Chlorine Chemical Building), Assessment of current CT calculations. NEXT STEPS: Completion Q1 2019.
2017	5141766713	Annual Water Maintenance	2,500,000	160,529	343,253	1,996,218	20.2%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Tenders for Construction - Installation of Premise Isolation Backflow Devices and Containments for various HW Facilities Q1 2019.
2018	5141866350	WTP Lighting Upgrade	200,000	-	135,827	64,173	67.9%	G.Botha	STATUS: Work in Progress - Construction (Energy Efficient LED Lighting at Woodward Ave. SSTP and Administration Building). NEXT STEPS: Substantial Performance Q3 2019.
2018	5141866713	Annual Water Maintenance	1,500,000	76,371	0	1,423,629	5.1%	G.Botha	STATUS: Work in Progress.

Sub-Total Plant Maintenance & Technical Services - Water **20,880,000** **13,277,066** **1,409,391** **6,193,543** **70.3%**

Wastewater - Rates

2011	5161166151	SCADA Master Plan Implement	15,875,000	13,383,052	211,318	2,280,630	85.6%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Account to be closed once final invoices have been paid and outstanding purchase orders have been closed. WIP Fund Projectid 5161966151 by \$1,500,000 through 2019 Rates Budget.
2017	5161766713	Wastewater Maintenance Capital	3,000,000	1,813,406	1,140,941	45,653	98.5%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Completion Q4 2019.
2017	5161766745	Woodward WWTP-Oper Readiness	4,875,000	1,078,806	899,993	2,896,201	40.6%	G.Botha	STATUS: Work in Progress - Construction (Replacement of Membrane Tube Diffusers & Step Feed Weir Refurbishment at the Woodward WWTP). NEXT STEPS: Substantial Performance Q1 2019. WIP Fund Projectid 5161966713 by \$2,400,000 through 2019 Rates Budget.
2018	5161866350	Woodward WWTP Lighting Upgrade	690,000	14,755	663,692	11,553	98.3%	G.Botha	STATUS: Work in Progress - Construction (Energy Efficient LED Lighting at Woodward Ave. SSTP and Administration Building). NEXT STEPS: Substantial Performance Q3 2019.
2018	5161866511	Woodward WWTP - Digester #4	5,500,000	-	-	5,500,000	0.0%	G.Botha	STATUS: Work in Progress - Design (3 Contractors Pre-Qualified for Construction). NEXT STEPS: Tender for Construction Q1 2019.
2018	5161866713	Wastewater Maintenance Capital	4,750,000	184,643	169,423	4,395,934	7.5%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Completion Q4 2020.

Sub-Total Plant Maintenance & Technical Services - **34,690,000** **16,474,662** **3,085,367** **15,129,971** **56.4%**

TOTAL PLANT MAINTENANCE & TECHNICAL SERVICES **55,570,000** **29,751,727** **4,494,758** **21,323,515** **61.6%**

WATER & WASTEWATER PLANNING AND CAPITAL SECTION

Corporate Project Program - Tax

2009	2110953900	Randle Reef Rehab Project	6,875,000	6,872,735	1,250,000	(1,247,735)	118.1%	M.Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Completion reached in October 2018. Stage 2 Work in Progress with target completion in Q1 2020. NEXT STEPS: Tendering Stage 3 works in 2020
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			a	b	c	d	e		
<i>Sub-Total Water & Wastewater Planning & Capital -</i>			6,875,000	6,872,735	1,250,000	(1,247,735)	118.1%		

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Wastewater - Rates

2014	5161468422	Randle Reef Sediment Remediate	4,550,000	4,325,000	1,675,000	(1,450,000)	131.9%	M.Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Completion reached in October 2018. Stage 2 Work in Progress with target completion in Q1 2020. NEXT STEPS: Tendering Stage 3 works in 2020
Sub-Total Water & Wastewater Planning & Capital -			4,550,000	4,325,000	1,675,000	(1,450,000)	131.9%		
TOTAL WATER & WASTEWATER PLANNING AND CAPITAL SECTION			11,425,000	11,197,735	2,925,000	(2,697,735)	123.6%		

HAMILTON WATER & WASTEWATER- DIRECTOR

Water - Rates

2015	5141557543	Workforce & Time Mgmt-Kronos	430,000	398,579	35,000	(3,579)	100.8%	A.Grice	STATUS: Work Completed. NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed Q1 2019.
Sub-Total - Water			430,000	398,579	35,000	(3,579)	100.8%		

Wastewater - Rates

2015	5161555545	Capital Works Information Mgmt	280,000	-	-	280,000	0.0%	A.Grice	STATUS: Work in Progress - Project Management Office / IT Business Intelligence Collaborative Project (Phase 1 - Automate Existing PMO Reporting System using internal Resources). NEXT STEPS: Phase 2 Dashboard and Power BI Q1 2019.
Sub-Total Roads - Wastewater			280,000	0	0	280,000	0.0%		
TOTAL HAMILTON WATER & WASTEWATER DIRECTOR			710,000	398,579	35,000	276,421	61.1%		

WATER & WASTEWATER ENGINEERING SERVICES SECTION

Water - Engineering Services

2014	5141455425	Concrete Pipe Condition Assessment	2,750,000	1,539,966	236,666	973,368	64.6%	E.Waite	Assessment works delayed due to other works impacting the water network. 2018 and proposed 2019 budget to be utilised by year end 2019.
2015	5141555501	Ferguson Pumpstation to Scenic Reservoir Trunk Main Inspection	1,150,000	1,024,707	94,470	30,823	97.3%	E.Waite	Complete - Close once commitments are paid/cleared
2015	5141571301	WM Replace Program - Coordinated with Roads - 2015	14,575,000	14,320,549	184,643	69,808	99.5%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared
2015	5141596152	PD11 (Governor's Rd) Extend	1,120,000	1,070,333	86,111	(36,444)	103.3%	M.Oddi	Construction 2018/19

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2015	5141596153	PD22 (Governor's Rd) Extend	900,000	774,990	108,587	16,423	98.2%	M.Oddi	Construction 2018/19

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2015	5141596550	Stone Church Feedermain (W-24)	25,300,000	2,208,087	322,279	22,769,634	10.0%	S.Jacob	The functional design is being completed, report is expected for June 2019. The project is to be evaluated with Operation and Maintenance and Master Plan before proceeding to detailed design and construction.
2016	5141657626	Critical WM Inspection Program - 2016	299,000	178,576	62,158	58,266	80.5%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5141660999	Closed Projects - Water	218,000	75,388	87,417	55,195	74.7%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared.
2016	5141662073	Field Data Systems Program - 2016	169,380	132,558	16,007	20,815	87.7%	I.Szczepanik	Anticipate 100% spent by Q1 2019.
2016	5141670000	Coordinated Road and Subsurface Works - 2016	3,091,000	2,915,975	152,192	22,833	99.3%	M.Oddi / P.McNab	Complete - Close once legal & commitments are paid/cleared.
2016	5141671301	WM Replace Program - Coordinated with Roads - 2016	4,088,000	4,075,389	49,763	(37,152)	100.9%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared
2017	5141757626	Critical WM Inspection Program - 2017	330,000	38,639	-	291,361	11.7%	E.Waite	Ongoing - work in progress. Claim for CWWF funding underway.
2017	5141760072	Structural WM Lining Program - 2017	7,291,000	7,291,000	-	-	100.0%	E.Waite	Close after year end reporting. CWWF funded.
2017	5141760577	Metallic Watermain Condition Assessment Program - 2017	685,000	685,000	-	-	100.0%	E.Waite	Complete. Claim for CWWF funding underway.
2017	5141760754	Kenilworth Transmission Watermain Renewal	2,400,000	487,627	55,546	1,856,827	22.6%	E.Waite	Ongoing - work in progress. To be tendered Q4 2019 for 2020 construction.
2017	5141761300	WM Replacement Program - 2017	830,000	173,342	-	656,658	20.9%	E.Waite	1 of 3 projects awarded. Burlington Trunkmain Repairs in 2019 and James and Charlton Intersection rebudgeted in 2024 due to LRT.
2017	5141761777	Beach Trunkmain Rehab	7,300,000	585,438	-	6,714,562	8.0%	E.Waite	Project delayed to Q1 2020 due to water network requirements.
2017	5141770000	Coordinated Road and Subsurface Works - 2017	2,905,000	2,833,308	52,559	19,133	99.3%	M.Oddi / P.McNab	Complete - pending final review/audit/payment. \$19k surplus at this time.
2017	5141771301	WM Replace Program - Coordinated with Roads - 2017	2,815,000	2,508,859	118,959	187,182	93.4%	M.Oddi / P.McNab	2 of 4 projects awarded. Watermain Replacement under CP Tracks at Ferguson on hold pending design review. Remaining project transferred to Waterfront.
2018	5141811101	Road Restoration Program - 2018	5,400,000	3,085,930	1,540,012	774,058	85.7%	D.Lamont / R.Merritt	Ongoing - work in progress
2018	5141849555	QA-QC Service Contract - 2018	110,000	71,260	8,477	30,264	72.5%	E.Waite	Ongoing - work in progress
2018	5141855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D.Lamont / C.Lauricella	Ongoing - work in progress

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2018	5141857626	Critical WM Inspection Program - 2018	330,000	136,689	64,812	128,499	61.1%	E.Waite	Ongoing - work in progress. 2019 budget has been reduced to zero to use up these funds.
2018	5141857627	Fennell Trunkmain Inspection	750,000	117,850	619,000	13,150	98.2%	E.Waite	Ongoing - work in progress

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2018	5141857628	Saltfleet Trunkmain Inspection	593,000	114,139	468,830	10,031	98.3%	E.Waite	Ongoing - work in progress. Claim for CWWF funding underway.
2018	5141860072	Structural WM Lining Program - 2018	7,320,000	6,184,045	1,091,749	44,207	99.4%	E.Waite	Ongoing - work in progress
2018	5141860080	Valve Replacement - 2018	1,000,000	292,003	668,395	39,602	96.0%	E.Waite	Ongoing - work in progress
2018	5141860577	Metallic Watermain Condition Assessment Program - 2018	700,000	344,786	196,415	158,798	77.3%	E.Waite	Ongoing - work in progress
2018	5141860711	PW Capital Water Consumption Program - 2018	200,000	199,785	-	215	99.9%	E.Waite	Complete. Close after year end reporting.
2018	5141861300	Wm Replacement Program - 2018	800,000	134,685	-	665,315	16.8%	E.Waite	Mulberry - Bay to James (2019) & Barton - Queen to Locke (2020)
2018	5141870000	Coordinated Road and Subsurface Works - 2018	4,340,000	3,570,767	645,080	124,154	97.1%	M.Oddi / P.McNab	4 of 5 project awarded. One project moved to Waterfront and duplicated in error. Construction ongoing for C15-44-18 - Governors Road
2018	5141871074	Contingency for Unscheduled Works Program - 2018	100,000	15,820	-	84,180	15.8%	E.Waite	% spent dependent on # of unscheduled works.
2018	5141871301	WM Replace Program - Coordinated with Roads - 2018	4,659,000	4,614,206	37,395	7,399	99.8%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared
Sub-Total Water - Engineering Services			104,558,380	61,808,429	7,000,521	35,749,430	65.8%		
WasteWater - Engineering Services									
2007	5160795757	Centennial Trnk Swr-WW14,WW33	84,200,000	79,236,994	4,438,486	524,520	99.4%	M.Oddi	Ongoing - work in progress. Anticipated completion Fall 2019.
2013	5161395358	Hwy 56 Forcemain&Twinning WW21	27,190,000	16,332,373	2,320,114	8,537,513	68.6%	M.Oddi	Ongoing - work in progress. Anticipated completion Fall 2019.
2015	5161555077	Zoom Camera Inspection - Data Component	760,000	569,014	182,952	8,034	98.9%	E.Waite	Ongoing - work in progress. To be completed Q4 of 2020
2015	5161560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,290,000	875,714	159,804	254,482	80.3%	E.Waite	Complete - Close once commitments are paid/cleared
2015	5161560999	Closed Projects - WasteWater	119,000	20,092	88,728	10,180	91.4%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared.
2015	5161567563	HC005 - Public Properties	1,040,000	126,459	229,692	683,849	34.2%	E.Waite	Ongoing - work in progress
2015	5161567565	HC005 Montgomery Drive - Inline Storage	2,230,000	2,065,037	27,252	137,711	93.8%	M.Oddi	Complete - pending final review/audit/payment

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2015	5161596855	Royal to Main-King CSO (WW-22)	24,880,000	1,417,102	141,138	23,321,760	6.3%	S.Jacob	Outstanding due to land ownership and access issues. Negotiating with Metrolinx and McMaster Innovation Park who are the new owners of the nearby lands.

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2016	5161660533	Trenchless Manhole Rehabilitation - 2016	80,000	5,897	62,082	12,021	85.0%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5161660575	Mainline Sewer Condition Assessment Program - 2016	600,000	402,477	180,853	16,670	97.2%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5161662073	Field Data Systems Program - 2016	160,110	80,533	22,476	57,102	64.3%	I.Szczepanik	Anticipate 100% spent by Q1 2019.
2016	5161671074	Contingency for Unscheduled Works Program - 2016	520,000	378,641	127,951	13,408	97.4%	E.Waite / P.McNab	Complete - Close once commitments are paid/cleared
2017	5161718420	Grindstone Creek Utility Bridge	970,000	621,916	262,578	85,507	91.2%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5161749555	QA-QC Service Contract - 2017	110,000	56,254	15,003	38,743	64.8%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5161760390	Wastewater System Lining Program - 2017	4,500,000	4,500,000	-	-	100.0%	E.Waite	Complete. Claim for CWWF funding underway.
2017	5161760533	Trenchless Manhole Rehabilitation - 2017	80,000	9,367	70,000	633	99.2%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5161760575	Mainline Sewer Condition Assessment Program - 2017	1,330,000	840,919	473,917	15,164	98.9%	E.Waite	Ongoing - Work in progress. Delays due to other works within sewer system.
2017	5161761444	Sewer Lateral Replace/Rehab Program - 2017	4,172,500	4,172,500	-	-	100.0%	E.Waite	Complete. Claim for CWWF funding underway.
2017	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	2,460,000	610,168	919,148	930,684	62.2%	E.Waite	Ongoing - work in progress
2018	5161811101	Road Restoration Program - 2018	1,800,000	1,754,542	81,863	(36,405)	102.0%	D.Lamont / R.Merritt	Ongoing - work in progress
2018	5161849555	QA-QC Service Contract - 2018	110,000	86,885	-	23,115	79.0%	E.Waite	Complete. Close after year end reporting.
2018	5161855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D.Lamont / C.Lauricella	Ongoing - work in progress
2018	5161855878	Forcemain Condition Assessment Program - 2018	300,000	86,570	114,051	99,379	66.9%	E.Waite	Ongoing - work in progress
2018	5161860390	Wastewater System Lining Program - 2018	4,582,000	3,880,849	74,616	626,536	86.3%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161860533	Trenchless Manhole Rehabilitation - 2018	40,000	30,568	11,869	(2,436)	106.1%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161860574	Pre-Construction Mainline Condition Assessment	550,000	92,596	461,000	(3,596)	100.7%	E.Waite	Ongoing - work in progress

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			a	b	c	d	e		
2018	5161860575	Mainline Sewer Condition Assessment Program - 2018	1,260,000	1,151,426	65,935	42,638	96.6%	E.Waite	Complete - Close once commitments are paid/cleared

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2018	5161860576	Sewer Lateral Condition Assessment - 2018	680,000	692,416	347	(12,763)	101.9%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161860577	Mainline Sewer Condition Assessment for Compliance & Regs - 2018	110,000	102,580	12,394	(4,973)	104.5%	E.Waite	Ongoing - work in progress
2018	5161860711	PW Capital Water Consumption Program - 2018	150,000	89,095	-	60,905	59.4%	E.Waite	Complete. Close after year end reporting.
2018	5161860820	Open Cut Repairs for CIPP Program - 2018	550,000	263,480	139,981	146,538	73.4%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161860830	Windemere Rd Sewer Extension, Municipal Act	980,000	930,099	1,089	48,813	95.0%	E.Waite	Ongoing - work in progress
2018	5161861444	Sewer Lateral Replace/Rehab Program - 2018	4,139,000	4,113,896	2,940	22,164	99.5%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161861825	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	11,900	11,823	-	77	99.4%	E.Waite	Complete. Close after year end reporting.
2018	5161862850	Eastern Interceptor Repair at the WWTP Aeration Tank	2,800,000	491,522	96,918	2,211,560	21.0%	E.Waite	Ongoing - work in progress. Project delayed due to works at Woodward WWTP. Consulting to be completed in 2019 and Construction to start 2020.
2018	5161871015	Sewer Lateral Replacement for Co-ordinated Projects - 2018	210,000	147,235	-	62,765	70.1%	E.Waite	Ongoing - work in progress
2018	5161871074	Contingency for Unscheduled Works Program - 2018	100,000	41,836	-	58,164	41.8%	E.Waite	% spent dependent on # of unscheduled works.
2018	5161871842	Locke St Sewer Rehabilitation	2,090,000	1,890,975	331,729	(132,704)	106.3%	E.Waite	Complete - Close once commitments are paid/cleared
2018	5161872840	Mohawk - Upper Ottawa to Upper Kenilworth	1,000,000	975,275	-	24,725	97.5%	E.Waite	Complete. Close after year end reporting.
<u>Sub-Total Wastewater - Engineering Services</u>			178,194,510	129,161,859	11,149,905	37,882,747	78.7%		
<u>Storm Sewers - Engineering Services</u>									
2012	5181272290	Storm Sewer Upgrades - 2012	7,596,000	7,262,784	226,616	106,600	98.6%	M.Oddi / P.McNab	Ongoing work in progress - outstanding commitment for the replacement of Grade Separation: Bridge 163, Centennial Parkway underpass .

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2013	5181372295	SERG - Mount Albion SWMF Rehab	670,000	174,308	5,558	490,134	26.8%	S.Jacob	Concept design acceptable to HCA. Waiting for Construction cost estimates from the Consultant to ensure sufficient budget is available.
2014	5181460423	SERG - Princess at Birch	90,000	11,172	-	78,828	12.4%	S.Jacob	This work is outside the Birch Ave Phase 1 project limits, will be addressed in Phase 2 project.
2015	5181555077	Zoom Camera Inspection - Data Component	760,000	353,453	293,999	112,548	85.2%	E.Waite	Ongoing - work in progress. To be completed Q4 of 2020
2015	5181560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,290,000	936,709	140,053	213,239	83.5%	E.Waite	Complete - Close once commitments are paid/cleared

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2015	5181560999	Closed Projects - Storm	238,000	26,288	86,912	124,800	47.6%	M.Oddi / P.McNab	Complete - Close once commitments are paid/cleared.
2015	5181572291	Barton & Hamilton St, Waterdown Storm Sewer Upgrade	530,000	317,747	-	212,253	60.0%	E.Waite	Complete, pending final payment as per Sally Yong-Lee. Close this project at year end 2018.
2015	5181572295	SERG - LEEDS Implementation	320,000	146,937	62,208	110,855	65.4%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5181655420	Wilson St Stormwater Drainage	1,740,000	1,742,412	43,929	(46,341)	102.7%	M.Oddi	Complete - Close once commitments are paid/cleared
2016	5181660533	Trenchless Manhole Rehabilitation - 2016	80,000	35,355	40,111	4,534	94.3%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5181672074	Contingency for Unscheduled Works Program - 2016	150,000	35,370	26,345	88,286	41.1%	E.Waite / P.McNab	% spent dependent on # of unscheduled works.
2016	5181672259	SERG - Gage Park Pond	2,168,000	1,778,584	433,244	(43,828)	102.0%	M.Oddi	Ongoing - work in progress. Anticipated completion Summer 2019.
2016	5181672650	West Mtn Sewers - Juggernaut	12,849,000	8,192,680	4,707,377	(51,057)	100.4%	E.Waite	Ongoing - work in progress. To be complete by Q3 2019
2017	5181717152	Cross Road Culvert Program - 2017	1,370,000	906,326	414,385	49,289	96.4%	E.Soldo / T.Blackburn	Ongoing - work in progress
2017	5181760533	Trenchless Manhole Rehabilitation - 2017	80,000	9,367	70,000	633	99.2%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5181760730	McQueston Park Entrance - Flooding	250,000	1,168	-	248,832	0.5%	E.Waite	Ditch drainage restored by installing a driveway culvert at the park entrance by O&M. Staff reviewing an outlet for a section of storm sewer within the park.
2017	5181767723	Pumping Stations	100,000	8,352	83,953	7,696	92.3%	E.Soldo / G.Berenyi	Completion delayed to Q3 2019. Project to be transferred to Water
2018	5181817152	Cross Road Culvert Program - 2018	1,380,000	689,246	317,032	373,722	72.9%	E.Soldo/ T.Blackburn	Ongoing - work in progress
2018	5181817458	Catch Basin Replacement/Rehabilitation Program - 2018	575,000	460,125	129,395	(14,520)	102.5%	E.Soldo / G.Berenyi	works ongoing
2018	5181817549	Concrete Box Culvert Rehabilitation/Repair (< 3.0m span) - 2018	150,000	109,059	44,905	(3,964)	102.6%	R.Andoga / T.McClung	Discussions still ongoing with consultant.
2018	5181849555	QA-QC Service Contract - 2018	86,000	46,068	20,322	19,610	77.2%	E.Waite	Ongoing - work in progress
2018	5181855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D.Lamont / C.Lauricella	Ongoing - work in progress
2018	5181860533	Trenchless Manhole Rehabilitation - 2018	40,000	6,734	35,290	(2,024)	105.1%	E.Waite	Complete - Close once commitments are paid/cleared

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2018	5181870000	Coordinated Road and Subsurface Works - 2018	130,000	122,659	12,595	(5,254)	104.0%	M.Oddi / P.McNab	Complete - pending final review/audit/payment.
2018	5181872074	Contingency for Unscheduled Works Program - 2018	100,000	16,836	-	83,164	16.8%	E.Waite	% spent dependent on # of unscheduled works.
2018	5181872290	Mackenzie - East 27th to Upper Sherman (Burkholme Neighbourhood)	103,000	65,659	-	37,341	63.7%	E.Waite	Complete. Close after year end reporting.
2018	5181872291	Catharine St N Sewer Replace	99,000	-	-	99,000	0.0%	E.Waite	Ongoing - work in progress. To be completed in 2019.
2018	5181872293	Bayside Ave Storm Sewer Replacement	160,000	173,770	-	(13,770)	108.6%	E.Waite	CLOSE NEXT BER
<u>Sub-Total Storm Sewers - Engineering Services</u>			33,144,000	23,635,901	7,227,229	2,280,870	93.1%		
<u>TOTAL WATER, WASTEWATER & STORM SEWERS</u>			315,896,890	214,606,189	25,377,654	75,913,046	76.0%		

WATER WASTEWATER & STORM SEWERS OPERATIONS SECTION

Water - Operations

2014	5141455922	Water Loss Audit - 2014	202,000	142,465	43,380	16,156	92.0%	D.Alberton / D.Young	These funds to be fully spent by June 2019
2015	5141569075	Environmental Lab Improvements - 2015	70,000	45,336	22,910	1,754	97.5%	C.Vanderperk / R.Eszes	Project ongoing. Anticipate 100% spent by year end 2019
2016	5141669075	Environmental Lab Improvements - 2016	150,000	96,674	43,933	9,393	93.7%	C.Vanderperk / R.Eszes	Confirming with facilities regarding open POs. Will close once confirmed.
2017	5141751710	Fleet Additions - Hamilton Water - 2017	560,000	137,302	5,000	417,698	25.4%	P.Kowalski	To be fully spent by January 2020
2017	5141757750	Carlisle AMR/AMI Pilot Project	250,000	148,966	23,611	77,423	69.0%	R.DiGiovanni	Project has now been completed. The Capital Account and PO can be closed.
2017	5141760750	Unscheduled Valve, Hydrant etc. - 2017	1,040,000	437,418	575,926	26,656	97.4%	D.Alberton / D.Young	These funds are for the Emergency Water Repair contract and this project can be closed after May 31,2019 when the contract renews.
2017	5141761502	Water Meter - Installation/Replace/Repair - General Mtn - 2017	2,100,000	1,964,433	132,465	3,102	99.9%	R.DiGiovanni	This project has now been completed. The Capital Account and PO can be closed
2018	5141851810	Fleet Additions - Hamilton Water - 2018	1,230,000	50,533	-	1,179,467	4.1%	P.Kowalski	To be fully spent by January 2020
2018	5141855851	Water Efficiency Plan - 2018	221,000	4,890	21,940	194,170	12.1%	J.Wagner	2018 capital will be utilized in 2019. No additional budget request for 2019.

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			a	b	c	d	e		
2018	5141860750	Unscheduled Valve, Hydrant etc. - 2018	799,000	607,043	161,887	30,070	96.2%	D.Alberton / D.Young	These funds are for the Emergency Water Repair contract and this project can be closed after May 31,2019 when the contract renews.

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			a	b	c	d	e		
2018	5141861502	Water Meter - Installation /Replace/Repair - General Mtn - 2018	2,800,000	2,577,311	218,837	3,852	99.9%	R.DiGiovanni	Awaiting documentation from contractor in order to release 10% holdback. Once that is completed this project ID can be closed.
2018	5141862078	Substandard Water Service Replacement Program - 2018	2,849,000	1,015,800	1,744,544	88,656	96.9%	D.Alberton / D.Young	Ongoing - work in progress
2018	5141869075	Environmental Lab Improvements - 2018	200,000	-	57,688	142,312	28.8%	C.Vanderperk / R.Eszes	Anticipate 100% spent by year end 2019.
Sub-Total - Hamilton Water - Operations			12,471,000	7,228,170	3,052,122	2,190,708	82.4%		

WasteWater - Operations

2014	5161469076	BCOS-Beyond Compliance OP Sys	243,000	105,159	-	137,841	43.3%	C.Vanderperk / S.Girt	This project relates to the BCOS software upgrade and DWQMS maintenance. The monies will be spent 2019/2020.
2016	5161669075	Environmental Lab Improvements - 2016	345,000	221,317	97,672	26,012	92.5%	C.Vanderperk / R.Eszes	Part of HVAC upgrade. Do not close.
2017	5161755422	Sewer Use Bylaw Enforcement Infor Upgrade	80,000	26,129	20,870	33,001	58.7%	C.Vanderperk / D.Saunders	Anticipate 100% spent by year end 2019.
2017	5161760302	Emergency Repairs - Cross Connections - 2017	1,000,000	652,279	325,512	22,210	97.8%	D.Alberton / D.Young	Ongoing - work in progress. This account funds the investigation and correction of sewer lateral cross connections. Funds committed to a P.O. which will be spent by December 31, 2019
2017	5161766423	Sewer Use Bylaw 14-090 Parameter Limit Review	300,000	114,649	1,404	183,947	38.7%	C.Vanderperk / D.Saunders	open P.O. for Jacobs (CH2M) can be closed. Will spend 20% of balance in 2019. 80 % in 2020.
2017	5161769075	Environmental Lab Improvements - 2017	250,000	-	-	250,000	0.0%	C.Vanderperk / R.Eszes	Anticipate 100% spent by year end 2019.
2018	5161860302	Emergency Repairs - Cross Connections - 2018	500,000	213,703	169,994	116,303	76.7%	D.Alberton / D.Young	Ongoing - work in progress. This account funds the investigation and correction of sewer lateral cross connections. 97% of funds now committed to a P.O.
2018	5161860522	Sewer Lateral Management Program (WWC) - 2018	4,500,000	3,096,679	414,755	988,566	78.0%	D.Alberton / D.Young	Ongoing 2019 work. This remaining amount is now fully committed to a P.O.
2018	5161861740	Unscheduled Manhole & Sewermain - 2018	320,000	243,220	75,987	793	99.8%	D.Alberton / D.Young	Ongoing - work in progress. Will be fully spent by August 2019
2018	5161869075	Environmental Lab Improvements - 2018	200,000	-	-	200,000	0.0%	C.Vanderperk / R.Eszes	Anticipate 100% spent by year end 2019.
Sub-Total - Hamilton WasteWater - Operations			7,738,000	4,673,134	1,106,193	1,958,673	74.7%		

Storm Sewers - Hamilton Water

2014	5181460452	Shoreline Protection Program	1,310,000	254,821	154,542	900,637	31.2%	N.Winters / R.Moore	Procuring permits to advance construction work.
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2014	5181460461	Forty Mile Municipal Drain	100,000	91,363	-	8,637	91.4%	N.Winters / R.Moore	Request for invoice processing with finance re cost sharing.
2014	5181460722	Municipal Drain Program - 2014/15	139,000	33,264	-	105,736	23.9%	N.Winters / R.Moore	Close once contribution from developer has been received

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2015	5181510501	Mathers Drive Bank Erosion Control and Slope Stabilization	1,100,000	148,042	129,591	822,367	25.2%	N.Winters / R.Moore	Project Tendered. Procurement process slow. Construction to start Q2.
2016	5181674640	Battlefield Creek Remediation	300,000	168,585	-	131,415	56.2%	N.Winters / R.Moore	Close Project. Monitoring Complete.
2017	5181755740	Flushables Research Study	75,000	67,136	9,025	(1,161)	101.5%	J.Wagner	Complete - Close once commitments are paid/cleared
2017	5181760622	SWM Facility Maintenance Program - 2017	1,600,000	1,455,228	107,554	37,218	97.7%	N.Winters / R.Moore	Ongoing - work in progress
2017	5181761740	Unscheduled Manhole & Sewermain - 2017	100,000	-	-	100,000	0.0%	D.Alberton / D.Young	These funds are for the Emergency Sewer Repair contract and will be fully spent/committed by August 2019.
2017	5181774730	Centre Road Drainage Improvement	100,000	-	-	100,000	0.0%	N.Winters / R.Moore	Permit Application Submitted. Preparing to Tender. Construction Q3.
2018	5181860622	SWM Facility Maintenance Program - 2018	1,200,000	353,580	540,308	306,112	74.5%	N.Winters / R.Moore	Ongoing - work in progress
2018	5181860722	Municipal Drain Program - 2018	280,000	104,763	75,195	100,042	64.3%	N.Winters / R.Moore	Ongoing - work in progress
2018	5181861740	Unscheduled Manhole & Sewermain - 2018	30,000	-	-	30,000	0.0%	D.Alberton / D.Young	These funds are for the Emergency Sewer Repair contract and will be fully spent/committed by August 2019.
2018	5181874840	Sydenham Interceptor Swale Re-construction	260,000	-	-	260,000	0.0%	N.Winters / R.Moore	Re-evaluating project needs, monitoring site condition
2018	5181874841	Lower Davis Creek - Flood Control Facility	550,000	9,507	34,408	506,086	8.0%	N.Winters / R.Moore	Design and tender preparation in progress. 50% Design Complete.
<i>Sub-Total - Hamilton Storm Sewers - Roads O&M</i>			7,144,000	2,686,288	1,050,622	3,407,090	52.3%		
<i>TOTAL WATER, WASTEWATER & STORM SEWERS -</i>			27,353,000	14,587,592	5,208,937	7,556,471	72.4%		
Total Public Works - Rate Supported			841,467,104	422,097,400	236,509,132	182,860,572	78.3%		