

City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects  
As of September 30, 2017

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 September 30, 2017
			a	b	c	d	e		

**CAPITAL DELIVERY SECTION**

**Water Rates**

2006	5140667650	Carlise Communal Well Upgrade	4,840,000	4,690,929	23,657	125,414	97.4%	S.Leitch	STATUS: Work Completed (Carlisle Tower Refurbishment). NEXT STEPS: Completion Q4 2017.
2009	5140967950	ISF-672-Ferguson Pumping Station Upgrade	22,730,000	22,972,241	34,552	(276,793)	101.2%	S.Leitch	STATUS: Substantially Performed. Work in Progress - Investigation of the vertical turbine pump issues. NEXT STEPS: Completion Q4 2017. Negative balance due to unanticipated tax changes and internal staffing allocation.
2009	5140967951	ISF-714-Hillcrest Reservoir	13,400,000	12,734,081	85,000	580,919	95.7%	S.Leitch	STATUS: Work Completed (Hillcrest Reservoir Phase 2, Royal Botanical Gardens Annual Reporting on Butternut Trees). NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed Q4 2017.
2010	5141061303	Valve Chamber No 3 First-Isaac	2,790,000	2,355,661	555,609	(121,270)	104.3%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q2 2018. Negative balance due to internal staffing allocation.
2011	5141166110	WTP - Process Upgrades	8,150,000	1,873,765	1,185,101	5,091,134	37.5%	S.Leitch	STATUS: Work in Progress - Design of Woodward WTP Upgrades (Phase 1). NEXT STEPS: Request for Prequalified Contractors Q4 2017.
2012	5141267270	Water Control Valve Upgrades	4,060,000	288,438	408,632	3,362,930	17.2%	S.Leitch	STATUS: Work in Progress - Design (Evaluating Tender Bids from 4 Prequalified Contractors). NEXT STEPS: Award Tender for Construction Q4 2017.
2012	5141267271	Pumping Station HD018 Hwy 53 & HD011 Osler	740,000	635,697	72,898	31,405	95.8%	S.Leitch	STATUS: Substantially Performed (Osler HD011 Immediate Needs). NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2018.
2012	5141267272	Hillcrest Reservoir - HDR02	12,200,000	10,496,144	1,420,597	283,259	97.7%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2018.
2012	5141267274	Kenilworth Pumping Station - HD005 Upgrades	3,025,000	460,317	157,118	2,407,565	20.4%	S.Leitch	STATUS: Work in Progress - Design (4 Contractors Pre-Qualified for Construction). NEXT STEPS: Tender for Construction Q4 2017.
2012	5141267275	SC Water Outstations Upgrade	3,890,000	3,688,696	269,643	(68,339)	101.8%	S.Leitch	STATUS: Work Completed (Greenhill Reservoir). Work in Progress - Substantially Performed (Stoney Creek Outstations). NEXT STEPS: Issue Project Charter Q1 2017 (Ben Nevis Dewitt Reservoir Phase 2 - West Cell Upgrades).
2012	5141269250	HVAC Upgrade New Lab & Admin	5,400,000	902,873	156,749	4,340,378	19.6%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Tender for Construction Q4 2017.

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2013	5141395353	Ferguson HD002 Pumping Stn	2,270,000	169,924	93,140	2,006,936	11.6%	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) Q4 2017.
2015	5141567520	HDR05 Reservoir Upgrades	4,192,000	181,009	416,126	3,594,865	14.2%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors Q4 2018.
2015	5141567525	HDR08 Reservoir Decommission	520,000	184,491	216,169	119,340	77.1%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2018.
2015	5141567574	HDR01 Reservoir Upgrades	550,000	7,533	0	542,467	1.4%	S.Leitch	NEXT STEPS: Issue Project Charter Q4 2017.
2015	5141567575	High Lift Pumping Station Upgrades Phase 2	880,000	187,276	172,274	520,450	40.9%	S.Leitch	STATUS: Work in Progress - Field Study (HLPS Power Distribution & Protection Setup). NEXT STEPS: Tender for Construction - Power Distribution (Recommissioning) Q2 2018.
2015	5141567576	Low Lift Pumping Station Upgrades Phase 2	470,000	141,516	41,633	286,851	39.0%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2017.
2015	5141567577	Security - Water Pumping Station Facilities	5,600,000	144,219	239,620	5,216,161	6.9%	S.Leitch	STATUS: Work in Progress - Design (Physical Security - Fencing). NEXT STEPS: Request for Prequalified Contractors for Construction (Physical Security - Fencing) Q1 2018.
2016	5141666110	WTP - Corrosion Control	7,660,000	531,264	6,490,378	638,358	91.7%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q4 2018.
2016	5141666515	WTP - Surge Tower Upgrades	480,000	46,037	14,350	419,613	12.6%	S.Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed Q4 2017.
2016	5141666608	Lynden Additional Water Supply	3,250,000	6,167	834,541	2,409,292	25.9%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q4 2017.
2016	5141667420	Ben Nevis & Dewitt HD08A WPumping Station	1,710,000	41,436	519,347	1,149,217	32.8%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q4 2017.
2016	5141667421	Glancaster & Hwy 53 HD018 WPumping Station	6,040,000	5,107	0	6,034,893	0.1%	S.Leitch	STATUS: Awaiting completion of the PD18 Ancaster Tower EA and Land Purchase. NEXT STEPS: Issue Project Charter Q1 2019.
2016	5141667422	Osler Road HD011 WPumping Station	2,040,000	70,523	483,552	1,485,925	27.2%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q4 2017.
2016	5141667424	Freelton Tower HDT03 Upgrades	3,600,000	85,993	370,074	3,143,933	12.7%	S.Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q4 2017.
2016	5141695883	York & Valley HD016 WPumping Station (W-26)	3,710,000	21,435	0	3,688,565	0.6%	S.Leitch	STATUS: Work Completed - Conceptual Review. NEXT STEPS: Request for Proposals for Design Q1 2018.

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2017	5141766150	Granular Activated Carbon Replacement	550,000	0	0	550,000	0.0%	S.Leitch	STATUS: Scope incorporated into Water Treatment Plant Process Upgrades Construction Contract. NEXT STEPS: Account to be closed after WIP Fund 2018 Water Treatment Plant Process Upgrades \$550k through 2018 Budget Cycle.
2017	5141766421	WTP Fluoride Building HVAC	390,000	0	0	390,000	0.0%	S.Leitch	STATUS: Work in Progress - Developing Roster Invitation for Design. NEXT STEPS: Design Q4 2017.
2017	5141767420	Carlisle Well Stn Sys Enhance	440,000	0	0	440,000	0.0%	S.Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q1 2018.
2017	5141767650	New Greensville Communal Well	390,000	17,621	69,675	302,704	22.4%	S.Leitch	STATUS: Awaiting completion of Schedule C EA for the Greensville New Well. NEXT STEPS: Issue Project Charter Q3 2018.
2017	5141795850	Greenhill Pumping Station HD04B & HD05A	720,000	33,184	116,725	570,091	20.8%	S.Leitch	STATUS: Work in Progress - Design (Immediate Needs). NEXT STEPS: Request for Prequalified Contractors for Construction (Immediate Needs) Q4 2017.
<b><u>Sub-Total Capital Delivery - Water</u></b>			<b>126,687,000</b>	<b>62,973,577</b>	<b>14,447,160</b>	<b>49,266,263</b>	<b>61.1%</b>		

**Wastewater - Rates**

2007	5160795760	Southcote Pumping Station&Forcemain-HC008	6,312,100	2,911,974	241,448	3,158,678	50.0%	S.Leitch	STATUS: Work Completed (Forcemain). Substantially Performed (Pumping Station). NEXT STEPS: Account to be closed once maintenance and warranty period expires (Pumping Station) Q4 2017.
2007	5160795784	Twenty Pumping Station & Forcemain - HC018	4,770,000	4,589,737	406,079	(225,816)	104.7%	S.Leitch	STATUS: Work Completed (Forcemain). Substantially Performed (Pumping Station). NEXT STEP: Account to be closed once outstanding deficiencies are completed (Pumping Station) Q4 2017. Negative balance due to staffing allocation.
2009	5160966912	Decomision Waterdown WWTP-WW08	6,000,000	611,396	102,908	5,285,696	11.9%	S.Leitch	STATUS: Work in Progress - Design. 8 Contractors Prequalified for Construction. NEXT STEPS: Tender for Construction Q1 2018.
2010	5161066065	Waste Hauler Receiving Station	2,540,000	447,773	174,308	1,917,919	24.5%	S.Leitch	STATUS: Work in Progress - Design. 5 Contractors Prequalified for Construction. NEXT STEPS: Tender for Construction Q4 2017.
2010	5161067751	WW Outstns-Asset Management	710,000	702,276	208,527	(200,803)	128.3%	S.Leitch	STATUS: Substantially Performed (HC019 & HC031 Carbon Filters). NEXT STEPS: Account to be closed once maintenance and warranty period expires Q4 2017, anticipate a project surplus upon completion which will reconcile overrun.
2012	5161261240	WSI-Leeds-Burl E Gate Removal	300,000	263,098	45,733	(8,831)	102.9%	S.Leitch	STATUS: Work Completed - Design. NEXT STEPS: City's Linear (Roads) Infrastructure improvements program to coordinate Construction in 2022.
2012	5161266213	Dundas WWTP Improvements	3,070,000	374,140	9,223	2,686,637	12.5%	S.Leitch	STATUS: Work Completed - Feasibility Study to extend the Dundas wastewater treatment plant outfall & Preliminary Asset Replacement Study for Future Use of the Dundas WWTP. NEXT STEPS: Request for Proposals for Design Q1 2019.

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2012	5161267270	Ancaster WW Outstations	6,310,000	1,303,238	2,766,298	2,240,464	64.5%	S.Leitch	STATUS: Work in Progress - Construction (HC009, HC013) & Design (HC005). NEXT STEPS: Substantial Performance Q1 2018 (HC009, HC013) & Request for Prequalified Contractors for Construction Q1 2018 (HC005).
2012	5161267273	Dundas WW Outstations	2,450,000	789,031	391,085	1,269,884	48.2%	S.Leitch	STATUS: Work in Progress - Construction (DC005, DC006). NEXT STEPS: Substantial Performance Q4 2017 (DC005, DC006). Request for Proposals for Design (DC010) Q1 2018.
2013	5161367360	Cormorant & Osprey (HC014)	4,610,000	2,746,384	1,433,826	429,790	90.7%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2018.
2013	5161367374	Waterdown Outstation Upgrades	3,420,000	3,129,153	181,403	109,444	96.8%	S.Leitch	STATUS: Substantially Performed (DC013, FC003). NEXT STEPS : Account to be closed once maintenance and warranty period expires Q2 2018.
2015	5161595858	Binbrook Pumping Station Upgrade (WW-20)	2,640,000	440,662	460,075	1,739,263	34.1%	S.Leitch	STATUS: Work in Progress - Design (Interim Capacity Upgrades). NEXT STEPS: Prepurchase of Equipment & Request for Prequalified Contractors Q4 2017.
2016	5161667622	FC001 DC009 HC011 Upgrades	740,000	12,025	146,680	581,295	21.4%	S.Leitch	STATUS: Work in Progress - Design (FC001, DC009). NEXT STEPS: Request for Prequalified Contractors for Construction Q4 2017. Issue Project Charter Q1 2018 (HC011).
2017	5161766421	WWTP Methane Sphere Upgrades	4,400,000	77,007	129,000	4,193,993	4.7%	S.Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2018.
2017	5161767420	Parkdale Av HC001 WW Statn Upg	550,000	0	0	550,000	0.0%	S.Leitch	STATUS: Scope Verification. NEXT STEPS: Issue Project Charter Q4 2017.
2017	5161796786	First Street Pumping Station Upgrade DC014	1,520,000	0	0	1,520,000	0.0%	S.Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q4 2017.
<b><u>Sub-Total Capital Delivery - Wastewater</u></b>			<b>50,342,100</b>	<b>18,397,894</b>	<b>6,696,593</b>	<b>25,247,613</b>	<b>49.8%</b>		
<b><u>TOTAL CAPITAL DELIVERY SECTION</u></b>			<b>177,029,100</b>	<b>81,371,471</b>	<b>21,143,753</b>	<b>74,513,876</b>	<b>57.9%</b>		

**INFRASTRUCTURE PLANNING & SYSTEMS DESIGN**

**Water - Rates**

2009	5140995956	Water Distribution Model	500,000	101,476	22,925	375,599	24.9%	U.Ehrenberg	STATUS: Work in Progress - WaterCad Model Review and Identification of Data Gaps. NEXT STEPS: Completion Q4 2017. WIP Fund Water Distribution Model 2018 capital account \$350k through 2018 Budget Cycle.
2013	5141395354	PD18 Elevated Reservoir W14	2,550,000	196,200	21,484	2,332,316	8.5%	U.Ehrenberg	STATUS: Work in Progress - Class EA and Conceptual Design, Terrestrial and Avian Assessments. NEXT STEPS: Alternative Location needs to be identified due to Airport restrictions. Land Purchase is in the Critical Path, Completion of EA is Q4 2018.

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2014	5141495551	PD7 Elevated Reservior W-23	1,440,000	29,246	114,823	1,295,931	10.0%	U.Ehrenberg	STATUS: Work in Progress - EA & Conceptual Design of PD7 Elevated Tower / Reservoir & New Pumping Station. NEXT STEPS: EA Completion Q4 2018.
2015	5141555010	Water Systems Planning	450,000	149,459	265,079	35,462	92.1%	U.Ehrenberg	STATUS: Work in Progress - Servicing alternatives for Ancaster, Pre-Design for the Twinning of Waterdown Trunk Feedermain, Screening of Development Applications, Pressure District Boundary Condition Characterization. NEXT STEPS: Completion Q4 2018.
2015	5141555264	City-Wide Water MP	550,000	47,395	499,252	3,353	99.4%	U.Ehrenberg	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q4 2018.
2015	5141567273	HD17A Pumping Station Replace Decommission	1,650,000	4,047	0	1,645,953	0.2%	U.Ehrenberg	NEXT STEPS: Refining Project Charter for Senior Management Approval Q4 2017.
2015	5141595553	HD12A Pumping Station Upgrades (W-04)	720,000	22,222	85,333	612,445	14.9%	U.Ehrenberg	STATUS: Work in Progress - EA and Land Negotiations with Horizon Utilities Corporation. NEXT STEPS: Completion of EA Q1 2018 with Detailed Design to follow.
2017	5141755010	Water System Planning	300,000	47,237	183,377	69,386	76.9%	U.Ehrenberg	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 Q4 2018.
2017	5141767422	New PD2 Water Pumping Station	500,000	0	0	500,000	0.0%	U.Ehrenberg	STATUS: Work in Progress - Citywide Water Wastewater Stormwater Master Plan will confirm the need for this pumping station. NEXT STEPS: Completion Master Plan Q4 2018. Budget is being reserved for Land Acquisition.
<b><i>Sub-Total Infrastructure Planning &amp; Systems Design - Water</i></b>			<b>8,660,000</b>	<b>597,282</b>	<b>1,192,273</b>	<b>6,870,445</b>	<b>20.7%</b>		

Wastewater - Rates

2007	5160755640	Non-trunk Flow Monitoring	500,000	104,478	398,089	(2,567)	100.5%	U.Ehrenberg	STATUS: Work Complete - Design of Wet Weather Control (Keep Open for Contract Administration of Phase 2 Construction). NEXT STEPS: Completion Q4 2020. Negative balance due to unanticipated tax changes.
2008	5160867751	WW Outstns - Asset Management	2,655,000	1,222,200	1,460,941	(28,141)	101.1%	U.Ehrenberg	STATUS: Work Complete - Design of Wet Weather Control (Keep Open for Contract Administration of Phase 2 Construction). NEXT STEPS: Completion Q4 2020. Negative balance due to unanticipated tax changes.
2009	5160955953	Annual-Hydraulic Sewer Model	1,500,000	948,302	0	551,698	63.2%	U.Ehrenberg	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding Wastewater Computer Model Update & Maintenance \$280k through 2018 Budget Cycle.
2014	5161455010	Water System Planning	600,000	328,911	0	271,089	54.8%	U.Ehrenberg	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding Wastewater Systems Planning \$220k through 2018 Budget Cycle.
2014	5161455420	SERG - Flooding & Drainage MP	555,000	114,052	343,847	97,101	82.5%	U.Ehrenberg	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q3 2018.



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2014	5161455640	Non-Trunk Flow Monitoring	400,000	348,775	0	51,225	87.2%	U.Ehrenberg	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding Flow Monitoring Program \$50k through 2018 Budget Cycle.
2015	5161555264	City-Wide Wastewater MP	550,000	129,667	417,591	2,742	99.5%	U.Ehrenberg	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q4 2018.
2015	5161555640	Non-Trunk Flow Monitoring	440,000	175,134	87,749	177,117	59.7%	U.Ehrenberg	STATUS: Citywide Sanitary Service Flow Monitoring, Rain Gauges Flow Monitoring Services. NEXT STEPS: Completion Q4 2018.
2015	5161555955	Inflow & Infiltration	474,000	222,324	137,614	114,062	75.9%	U.Ehrenberg	STATUS: Work in Progress - HC058 Capacity Analysis and Wet Weather Relief Class EA, West Mountain Flow Monitoring & West 18th, Riverdale East Flooding. NEXT STEPS: Program Development (3P - Protective Plumbing Program) Q4 2017.
2015	5161557545	Wastewater Computer Model	550,000	44,343	223,923	281,734	48.8%	U.Ehrenberg	STATUS: Refinement of the sanitary and combined sewer model files and calibration. NEXT STEPS: Issue Roster for Design Q4 2017 (Storm Sewer Network Hydraulic Model Calibration / Validation - Ancaster Area).
2015	5161567564	HC005 - Schedule C EA	990,000	122,678	154,773	712,549	28.0%	U.Ehrenberg	STATUS: Work in Progress - Emergency Overflow Schedule C Municipal Class EA. NEXT STEPS: EA Completion Q4 2018. Detailed Design to follow.
2016	5161655010	Wastewater Systems Planning	300,000	153,154	87,680	59,166	80.3%	U.Ehrenberg	STATUS: Work in Progress - Scope Confirmation of First Street SPS (DC014), Main/King CSO tank performance review. NEXT STEPS: Completion Q4 2017.
2016	5161655350	Riverdale Flood Relief EA	220,000	4,247	0	215,753	1.9%	U.Ehrenberg	STATUS: Work Completed - Flow Monitoring and Model calibration. NEXT STEPS: Detailed Design Q1 2018.
2016	5161655351	Lawfield & Berrisfield Area	75,000	113,735	0	(38,735)	151.6%	U.Ehrenberg	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	UPumping Stationize Wilson Street Forcemain	50,000	4,875	0	45,125	9.8%	U.Ehrenberg	STATUS: Refining Project Charter for Senior Management Approval. Q1 2018 Issuance.
2016	5161667421	New Haulage Receiving Station	1,140,000	2,082	149,352	988,566	13.3%	U.Ehrenberg	STATUS: Work in Progress - Class EA and Conceptual Design. NEXT STEPS: EA Completion Q4 2018. Detailed Design to follow.
2016	5161695747	Battlefield Trunk Sewer WW-33	1,650,000	124,279	0	1,525,721	7.5%	S.Jacob	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	205,950	53,960	2,490,090	9.5%	U.Ehrenberg	STATUS: Work in Progress - Economic Analysis and Feasibility study to support the Conceptual Design Implementation. NEXT STEPS: Study Completion Q4 2017. Detailed Design by Engineering Services to follow.

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2017	5161755010	Wastewater System Planning	300,000	0	280,926	19,074	93.6%	U.Ehrenberg	STATUS: Work in Progress - Pollution Control Plan, Riverdale East Flooding Investigation, Wastewater system analysis of the LRT intensification corridor, CSO Reporting. NEXT STEPS: Completion Q4 2018.
2017	5161755640	Non-Trunk Flow Monitoring	100,000	0	0	100,000	0.0%	U.Ehrenberg	0
2017	5161755955	Inflow & Infiltration	300,000	0	0	300,000	0.0%	U.Ehrenberg	NEXT STEPS: Construction of I & I Reduction (West 18th Neighbourhood) Q4 2018.
2017	5161757420	SCADA Rain Gauges	50,000	0	0	50,000	0.0%	U.Ehrenberg	NEXT STEPS: Issue Project Charter Q4 2017.

<b><u>Sub-Total Infrastructure Planning &amp; Systems Design - Wastewater</u></b>	<b>16,149,000</b>	<b>4,369,186</b>	<b>3,796,445</b>	<b>7,983,369</b>	<b>50.6%</b>
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Storm water - Rates

2010	5181055060	Greenhill Storm Drainage - EA	120,000	96,644	8,336	15,020	87.5%	U.Ehrenberg	STATUS: Work Completed - Greenhill Avenue Storm Drainage EA. NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed Q4 2017.
2011	5181155101	Stoney&Battlefield Crk Control	540,000	362,284	12,391	165,325	69.4%	U.Ehrenberg	STATUS: Work in Progress - Stoney Creek and Battlefield Creek Flood & Erosion Control Class Environmental Assessment. NEXT STEPS: EA Completion Q1 2018.
2012	5181260214	Parkside and Kipling Flood	1,330,000	315,185	9,168	1,005,647	24.4%	U.Ehrenberg	STATUS: Work in Progress - Modeling and Flood Protection (Churchill Park Neighbourhood area). Work Completed - Analysis of Low Impact Development Solution. NEXT STEPS: Modeling and Flood Protection Completion Q1 2018.
2012	5181260216	Golf Course SWMP Rosedale	2,570,000	402,748	136,686	2,030,566	21.0%	U.Ehrenberg	STATUS: Work in Progress - Enhanced Functional Design and Topographic Survey. Detailed design of the diversion channel, berm and outlet. NEXT STEPS: Completion of Enhanced Functional Design Q1 2018.
2013	5181355350	SERG Studies & Assessments	740,000	260,411	168,009	311,580	57.9%	U.Ehrenberg	STATUS: Work in Progress - Construction of Low Impact Development Bumpout (Bay and Simcoe), Beach Strip Flooding Study. Operational Support - Flood Study and Conceptual Design for Winona, Lower East End Drainage Analysis. NEXT STEPS: Completion Q2 2018.
2014	5181455420	SERG - Flooding & Drianage MP	645,000	4,345	453,434	187,221	71.0%	U.Ehrenberg	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q3 2018.
2015	5181555422	GRIDS II - Stormwater MP	550,000	43,589	499,252	7,159	98.7%	U.Ehrenberg	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q4 2018.
2015	5181562590	SWMP Retrofits	440,000	0	0	440,000	0.0%	U.Ehrenberg	NEXT STEPS : Issue Project Charter for the Analysis & Conceptual Design - Stormwater Management Pond Retrofits (Ponds # 67, 9, 54, 52, 35, 14) Q1 2018.

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2016	5181655075	SERG - Watershed Proj Coord	500,000	77,338	64,500	358,162	28.4%	U.Ehrenberg	STATUS: Lower Spencer Creek Subwatershed Study, Future Hamilton Climate Change Pilot Study, Delivery of environmental data collection in the field. NEXT STEPS: Completion Q4 2018.
2016	5181655421	SERG Stormwater System Planing	280,000	82,934	35,621	161,445	42.3%	U.Ehrenberg	STATUS: Work in Progress - Analysis & Conceptual Design of Rymal Road stormwater drainage. NEXT STEPS: Completion Q4 2017.
2017	5181755420	Stormwater Drainage Review	280,000	0	0	280,000	0.0%	U.Ehrenberg	STATUS: Working on Terms of Reference for Detailed Drainage Assessment Study (Phase 2) - Development of Existing Residential (ER) Neighbourhoods in Rural Ancaster. NEXT STEPS: Award in Q4 2017.
2017	5181755421	SERG - SW System Planning	280,000	0	39,002	240,998	13.9%	U.Ehrenberg	STATUS: Wilson Street Stormwater Drainage Plan. NEXT STEPS: Asset Protection Strategy - Mill Street Siphon Q1 2018.

Sub-Total Infrastructure Planning & Systems Design - Storm water

8,275,000	1,645,478	1,426,399	5,203,123	37.1%
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TOTAL INFRASTRUCTURE PLANNING & SYSTEMS DESIGN SECTION

33,084,000	6,611,946	6,415,117	20,056,937	39.4%
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SUSTAINABLE INITIATIVES SECTION

Water - Rates

2005	5140566508	Lynden Water Supply – Land&EA	1,790,000	1,806,541	5,210	(21,751)	101.2%	B.Posedowski	STATUS: Final Well has been flow tested with positive quality and quantity results. Hydrogeology report and PIC complete. Work in Progress - Treatment Pilot study. NEXT STEPS: Completion Q4 2017.
2011	5141167150	Greensville New Well – EA	720,000	911,378	46,817	(238,195)	133.1%	B.Posedowski	STATUS: Pumping Test and Hydrogeologic investigation, Greensville Subwatershed Study Report complete. Work in Progress - New Greensville Municipal Well Schedule C EA. NEXT STEPS: Completion of EA Q3 2018.
2015	5141555555	City Wide Groundwater Model	710,000	197,077	78,410	434,513	38.8%	B.Posedowski	STATUS: Work in Progress - City Wide Groundwater Model (Delineation of Greensville & Lynden Wellhead Protection Areas). NEXT STEPS: City Wide Groundwater Model Expansion, Database and Stratigraphic Update, Web Interface Development Q3 2018.
2016	5141655420	Freelton Water Meter Accuracy	110,000	93,078	55,113	(38,191)	134.7%	B.Posedowski	STATUS: Field work and communications to residents concerning home meter replacement complete. Work in Progress - Home Meter Replacements. NEXT STEPS: Completion Q4 2017.
2016	5141667423	Freelton Well FDF01 Capacity	330,000	0	134,365	195,635	40.7%	B.Posedowski	STATUS: Work in Progress - Hydrogeological study for the identification of increased capacity at FDF01 in the Freelton water supply. NEXT STEPS: Completion Q4 2017.



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2017	5141767752	WW Outstation Inspection - AM	550,000	0	247,264	302,736	45.0%	B.Posedowski	STATUS: Work in Progress - Design of Facility Asset Management Program, Condition Assessments (HDR00, HD002 STK, HD12A, Chlorine Building), Access Options for HDR2A Reservoir, Energy Audit of HW facilities (Phase II). NEXT STEPS: Completion Q3 2019.

**Sub-Total Sustainable Initiatives - Water** 4,210,000 3,008,074 567,179 634,747 84.9%

Wastewater - Rates

2013	5161367752	WW Outstation Inspection - AM	645,000	56,852	587,469	679	99.9%	B.Posedowski	STATUS: Work in Progress - Design for Facility Asset Management Program. Condition Assessment (HC017 Eastport SPS). NEXT STEPS: Completion Q3 2019.
2014	5161467756	Greenhill & Cochrane HCS01	1,060,000	176,205	0	883,795	16.6%	S.Leitch	STATUS: Work Completed - Life Cycle Analysis. NEXT STEPS: Issue Project Charter Q1 2018.
2017	5161767752	WW Outstn Insp -Asset Mgm Prog	220,000	0	0	220,000	0.0%	B.Posedowski	STATUS: Energy Audit of HW facilities (Phase II). NEXT STEPS: Water and Wastewater Financial Plan Q3 2017.

**Sub-Total Sustainable Initiatives - Wastewater** 1,925,000 233,057 587,469 1,104,474 42.6%

**TOTAL SUSTAINABLE INITIATIVES SECTION** 6,135,000 3,241,131 1,154,648 1,739,221 71.7%

**WOODWARD UPGRADES SECTION**

Wastewater - Rates

2008	5160866801*	Woodward WWTP - Clean Harbour	225,012,923	33,387,505	191,625,418	-	100.0%	D.Chauvin	STATUS: GIF Funded, Cash Flow Budget approved by Finance. Work in Progress - Construction (Raw Wastewater Pumping Station, Electrical and Chlorination System). Pre-Purchased Equipment (Tertiary). NEXT STEPS: Tender for Construction (Tertiary Q2 2018).
2009	5160966910	WWTP - Biosolids MP Implement	5,020,000	3,219,371	5,114,807	(3,314,178)	166.0%	D.Chauvin	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.
2013	5161366360	Flares at Biogas Facility	3,280,000	3,103,729	51,273	124,998	96.2%	D.Chauvin	STATUS: Work Completed. NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed.
2015	5161555545	Capital Works Information Mgmt	280,000	0	0	280,000	0.0%	D.Chauvin	STATUS: Work in Progress - Project Management Office / Business Intelligence Collaborative Project (Phase 1 - Automate Existing PMO Reporting System). NEXT STEPS: Phase 2 Q1 2018.

**Sub-Total Woodward Upgrades - Wastewater** 233,592,923 39,710,605 196,791,498 (2,909,180) 101.2%

**TOTAL WOODWARD UPGRADES SECTION** 233,592,923 39,710,605 196,791,498 (2,909,180) 101.2%

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

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**PLANT MAINTENANCE AND TECHNICAL SERVICES SECTION**

**Water - Rates**

2014	5141466713	Annual Water Maintenance	1,305,000	902,976	0	402,024	69.2%	G.Botha	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding of 2018 Annual Water Capital Maintenance by \$400k through 2018 Budget Cycle.
2015	5141566713	Annual Water Maintenance	388,000	208,886	0	179,114	53.8%	G.Botha	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding of 2018 Annual Water Capital Maintenance by \$180k through 2018 Budget Cycle.
2015	5141566711	Annual Water Treatment Studies	250,000	48,102	21,578	180,320	27.9%	G.Botha	STATUS: Work in Progress - PO Contractor H&S Program Review / Audit & Coagulation Optimization at Woodward WWTP. NEXT STEPS: Arc Flash Study in Outstations, Chlorine to Ammonia ratio and Chlorine residual on valve gasket seals (Q4 2017).
2016	5141666713	Annual Water Maintenance	600,000	283,106	276,238	40,656	93.2%	G.Botha	STATUS: Work in Progress - Construction (Woodward WWTP Staff Building Renovations, Installation of new valve at the Lee Smith Reservoir. NEXT STEPS: Completion Q4 2017.
2017	5141766711	Annual Water Treatment Studies	250,000	29,070	60,228	160,702	35.7%	G.Botha	STATUS: Work in Progress - Condition Assessment (Chlorine Chemical Building). NEXT STEPS: Completion Q1 2018.
2017	5141766713	Annual Water Maintenance	2,500,000	0	352,641	2,147,359	14.1%	G.Botha	STATUS: Work in Progress. NEXT STEPS: Pre-Purchase of Equipment & Tender for Construction - Low Lift Pumping Station Traveling Screen Replacement (Q2 2018).

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

5,293,000	1,472,140	710,685	3,110,175	41.2%
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**Wastewater - Rates**

2014	5161466713	Wastewater Maintenance Capital	2,000,000	1,000,000	0	1,000,000	50.0%	G.Botha	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding of HSDIG Digester #4 Cleanout and Mixer Replacement by \$1M through 2018 Budget Cycle.
2015	5161566713	Wastewater Maintenance Capital	1,900,000	1,050,000	0	850,000	55.3%	G.Botha	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding of HSDIG Digester #4 Cleanout and Mixer Replacement by \$850k through 2018 Budget Cycle.
2016	5161666713	Wastewater Maintenance Capital	2,000,000	800,000	0	1,200,000	40.0%	G.Botha	STATUS: Work Completed. NEXT STEPS: Account to be closed after WIP Funding of HSDIG Digester #4 Cleanout and Mixer Replacement by \$1.2M through 2018 Budget Cycle.
2017	5161766713	Wastewater Maintenance Capital	3,500,000	736,302	1,660,680	1,103,018	68.5%	G.Botha	STATUS: Work in Progress. NEXT STEPS: WIP Funding of HSDIG Digester #4 Cleanout and Mixer Replacement by \$500k through 2018 Budget Cycle.

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2017	5161766745	Woodward WWTP-Oper Readiness	3,800,000	8,725	105,154	3,686,121	3.0%	G.Botha	STATUS: Design - Replacement of Membrane Tube Diffusers at the Woodward WWTP. NEXT STEPS: Tender for Construction - HSAER North Aeration Diffuser Installation & Step Feed Weir Refurbishment Q2 2018, Design - North Secondary Clarifiers Q1 2018.
<u>Sub-Total Plant Maintenance &amp; Technical Services - Wastewater</u>			13,200,000	3,595,027	1,765,834	7,839,139	40.6%		
<u>TOTAL PLANT MAINTENANCE &amp; TECHNICAL SERVICES SECTION</u>			18,493,000	5,067,167	2,476,519	10,949,314	40.8%		
<u>WATER &amp; WASTEWATER PLANNING AND CAPITAL SECTION</u>									
<u>Corporate Project Program - Tax</u>									
2009	2110953900	Randle Reef Rehab Project	6,500,000	6,222,735	1,900,000	(1,622,735)	125.0%	M.Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Construction ongoing, Stage 2 Tender awarded June 2017. NEXT STEPS: Estimated Substantial Performance - Stage 1 Q4 2017, Stage 2 Q1 2020. Future Stage 3 work planned after Stage 2 completion.
<u>Sub-Total Water &amp; Wastewater Planning &amp; Capital - Corporate Project Program</u>			6,500,000	6,222,735	1,900,000	(1,622,735)	125.0%		
<u>Wastewater - Rates</u>									
2014	5161468422	Randle Reef Sediment Remediate	4,000,000	4,000,000	2,000,000	(2,000,000)	150.0%	M.Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Construction ongoing, Stage 2 Tender awarded June 2017. NEXT STEPS: Estimated Substantial Performance - Stage 1 Q4 2017, Stage 2 Q1 2020. Future Stage 3 work planned after Stage 2 completion.
<u>Sub-Total Water &amp; Wastewater Planning &amp; Capital - Wastewater</u>			4,000,000	4,000,000	2,000,000	(2,000,000)	150.0%		
<u>TOTAL WATER &amp; WASTEWATER PLANNING AND CAPITAL SECTION</u>			10,500,000	10,222,735	3,900,000	(3,622,735)	134.5%		
<u>HAMILTON WATER &amp; WASTEWATER- DIRECTOR</u>									
<u>Water - Rates</u>									
2015	5141557543	Workforce & Time Mgmt-Kronos	430,000	351,066	21,607	57,327	86.7%	A.Grice	STATUS: Work in Progress - Acquisition of Manager's licenses and a terminal. NEXT STEPS: Completion Q4 2017.
2016	5141641226	Centralized W-WW OPumping Station Centre	250,000	0	0	250,000	0.0%	A.Grice	NEXT STEPS: Evaluate yard options which includes an analysis of site requirements and potential locations.
<u>Sub-Total - Water</u>			430,000	351,066	21,607	57,327	86.7%		

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Wastewater - Rates

2016	5161641226	Centralized W-WW OPumping Station Centre	250,000	0	0	250,000	0.0%	A.Grice	NEXT STEPS: Evaluate yard options which includes an analysis of site requirements and potential locations.
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Sub-Total Roads - Wastewater

250,000	0	0	250,000	0.0%
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TOTAL HAMILTON WATER & WASTEWATER DIRECTOR SECTION

680,000	351,066	21,607	307,327	54.8%
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WATER & WASTEWATER ENGINEERING SERVICES SECTION

Water - Engineering Services

2013	5141371301	WM Replace Program - Coordinated with Roads - 2013	11,370,000	10,754,882	182,615	432,503	96.2%	M.Oddi/P. McNab	Construction complete. Awaiting billing from CN. \$430k surplus at this time.
2013	5141396351	Garner Watermain Trunk W09	530,000	171,795	0	358,205	32.4%	E.Waite	Construction delayed and phased in coordination with Development needs 2018-2020
2014	5141455425	Concrete Pipe Condition Assessment	1,730,000	1,189,119	250,440	290,441	83.2%	E.Waite	Ongoing - work in progress.
2014	5141461300	Wm Replacement Program - 2014	1,450,000	450,959	0	999,041	31.1%	M.Oddi/P. McNab	\$200k being used to WIP fund Patrick - Walnut to west end which has been rebudgeted in 2018/2019. The balance of funds will be used to with fund Brampton - Parkdale to Strathearne which has been rebudgeted in 2019.
2014	5141471301	WM Replace Program - Coordinated with Roads - 2014	12,690,000	12,698,281	0	(8,281)	100.1%	M.Oddi/P. McNab	CLOSE NEXT BER
2015	5141555501	Ferguson PumPumping Stationation 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	5141564533	Up Wentworth - Hydro to Twenty	200,000	12,638	0	187,362	6.3%	S.Jacob	Not working on this project. Was requested by IPSD to hold off until WWMaster Plan update is complete
2015	5141571301	WM Replace Program - Coordinated with Roads - 2015	12,717,000	12,284,891	143,319	288,790	97.7%	M.Oddi/P. McNab	Multi-year project. 11 of 12 projects have been awarded, Rymal W - Garth to West 5th construction 2018. Additional funds have been added in the 2018 Capital Budget.
2015	5141596152	PD11 (Governor's Rd) Extend	540,000	34,258	0	505,742	6.3%	S.Jacob	Design 2017, Construct 2018
2015	5141596153	PD22 (Governor's Rd) Extend	900,000	58,090	0	841,910	6.5%	S.Jacob	Design 2017, Construct 2018
2015	5141596550	Stone Church Feedermain (W-24)	25,300,000	1,901,769	0	23,398,231	7.5%	S.Jacob	Starting Functional design in 2017, Consultant proposal received.

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2015	5141596558	Greenhill Feedermain - King to Greenhill Tank	5,700,000	5,168,552	149,638	381,810	93.3%	M.Oddi	Complete - Close once commitments are paid/cleared
2016	5141655556	Mapping Update - 2016	70,000	57,548	5,135	7,317	89.5%	G.McGuire	Complete - Close once commitments are paid/cleared
2016	5141657626	Critical WM Inspection Program - 2016	299,000	164,559	75,932	58,509	80.4%	E.Waite	Anticipate 100% spent by year end 2017
2016	5141660577	Metallic Watermain Condition Assessment Program - 2016	700,000	335,388	361,008	3,604	99.5%	E.Waite	Ongoing - work in progress
2016	5141660999	Closed Projects - Water	218,000	29,957	187,362	681	99.7%	E.Waite/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 all of the original project ID. % spent is dependent on maintenance required.
2016	5141661300	WM Replacement Program - 2016	890,000	397,628	281,834	210,538	76.3%	M.Oddi/P. McNab	Mill St ongoing construction with completion in summer of 2018. \$190K WIP funded to 2018 Waterfront project for Sheaffe/Cannon/Caroline/Railway/Mill/Harriet (Central Park) - 4411806202
2016	5141662073	Field Data Systems Program - 2016	169,380	42,404	22,050	104,926	38.1%	I.Szczepanik	Ongoing - work in progress. Not an annual project. No funds requested for 2018.
2016	5141664632	Twenty (Greti) to Upper James	1,610,000	158,194	0	1,451,806	9.8%	S.Jacob	Not working on this project. Was requested by IPSD to hold off until WWMaster Plan update is complete
2016	5141670000	Coordinated Road and Subsurface Works - 2016	3,591,000	2,044,609	1,072,609	473,782	86.8%	M.Oddi/P. McNab	6 of 6 project awarded. Construction ongoing. Surplus approximately \$400k at this time.
2016	5141671301	WM Replace Program - Coordinated with Roads - 2016	4,935,000	3,676,557	701,805	556,638	88.7%	M.Oddi/P. McNab	\$507k being used to WIP fund the 2018 program. 5 of 5 projects awarded. Ongoing construction.
2017	5141711101	Road Restoration Program - 2017	5,400,000	2,487,894	1,622,980	1,289,126	76.1%	G.McGuire	Ongoing - work in progress
2017	5141749555	QA-QC Service Contract - 2017	110,000	68,969	51,935	(10,904)	109.9%	E.Waite	Ongoing - work in progress
2017	5141757626	Critical WM Inspection Program - 2017	330,000	32,476	0	297,524	9.8%	E.Waite	Ongoing - work in progress
2017	5141757628	Mountain Feedermain	340,000	33,461	0	306,539	9.8%	E.Waite	Ongoing - work in process, completion Q1 2018
2017	5141760072	Structural WM Lining Program - 2017	6,922,000	6,918,264	5,769	(2,033)	100.0%	E.Waite	Ongoing - work in progress
2017	5141760080	Valve Replacement - 2017	1,760,000	208,404	1,274,007	277,589	84.2%	E.Waite	Ongoing - work in progress



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2017	5141760577	Metallic Watermain Condition Assessment Program - 2017	685,000	215,612	414,193	55,195	91.9%	E.Waite	Ongoing - work in progress
2017	5141760711	PW Capital Water Consumption Program - 2017	200,000	9,747	0	190,253	4.9%	E.Waite	Ongoing - work in progress. Anticipate completion by year end 2017 when Hamilton Water transfers charges.
2017	5141760754	Kenilworth Transmission Watermain Renewal	200,000	33,306	134,360	32,334	83.8%	E.Waite	Work complete, pending final report. Anticipated close by end of 2017.
2017	5141761300	WM Replacement Program - 2017	1,630,000	160,414	0	1,469,586	9.8%	E.Waite	Ongoing - work in progress Burlington Trunkmain Repairs; Woodward Greenhill Transmission Main Pipeline repair on Summercrest; James and Charlton Intersection
2017	5141761777	Beach Trunkmain Rehab	5,000,000	492,068	0	4,507,932	9.8%	E.Waite	Ongoing - work in progress. Construction expected in 2018. Delays due to other projects requiring system operation coordination.
2017	5141770000	Coordinated Road and Subsurface Works - 2017	3,000,000	920,879	1,924,628	154,493	94.9%	M.Oddi/P. McNab	4 of 4 projects have been awarded. Ongoing construction.
2017	5141771074	Contingency for Unscheduled Works Program - 2017	200,000	140,151	0	59,849	70.1%	E.Waite	% spent dependent on # of unscheduled works.
2017	5141771301	WM Replace Program - Coordinated with Roads - 2017	2,775,000	1,397,183	1,155,639	222,178	92.0%	M.Oddi/P. McNab	\$100K WIP funded to 2018 Waterfront project for Sheaffe/Cannon/Caroline/Railway/Mill/Harriet (Central Park) - 4411806202. 2 of 4 projects awarded. Remaining two are design 2017 only. Ongoing construction.
2017	5141771740	Upper Sherman - Rymal to Stone	1,590,000	1,038,444	240,070	311,486	80.4%	M.Oddi	Ongoing construction
2017	5141796752	PD16 Trunk - Pumping Station HD016 to Hwy 5	1,250,000	123,017	0	1,126,983	9.8%	S.Jacob	Completed Functional design, requires land and Class EA, IPSD to be the lead on this.
<b><i>Sub-Total Water - Engineering Services</i></b>			<b>118,151,380</b>	<b>66,937,074</b>	<b>10,351,798</b>	<b>40,862,508</b>	<b>65.4%</b>		

***WasteWater - Engineering Services***

2007	5160795757	Centennial Trnk Swr-WW14,WW33	84,200,000	59,502,535	23,824,221	873,244	99.0%	M.Oddi	Ongoing - work in progress. Anticipated completion spring/summer of 2019.
2013	5161360307	Charlton and Catharine - Sewer	110,000	92,498	1,742	15,760	85.7%	E.Waite	Delayed for coordination with water and surface works 2018
2013	5161395358	Hwy 56 Forcemain&Twinning WW21	27,190,000	7,204,693	10,766,845	9,218,462	66.1%	M.Oddi	Ongoing - work in progress. Anticipated completion spring/summer of 2019.
2014	5161461422	Patrick - Walnut to west end	330,000	54,532	36,921	238,547	27.7%	E.Waite	Tender in late 2017 for 2018 construction. Delays due to subsurface utility engineering investigation.

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			a	b	c	d	e		
2014	5161471015	Sewer Lateral Replacement for Co-ordinated Projects	400,000	332,969	0	67,031	83.2%	M.Oddi	\$60k being used to WIP fund the 2018 project and then this can be closed.
2015	5161555077	Zoom Camera Inspection - Data Component	760,000	367,194	92,931	299,875	60.5%	E.Waite	Ongoing - work in progress
2015	5161560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,290,000	162,239	25,005	1,102,756	14.5%	E.Waite	Ongoing - work in progress Contract award expected in Q4 2017, construction completion Q2 2018
2015	5161560999	Closed Projects - WasteWater	119,000	0	162,487	(43,487)	136.5%	E.Waite/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 all of the original project ID. % spent is dependent on maintenance required.
2015	5161567563	HC005 - Public Properties	1,040,000	120,064	235,977	683,959	34.2%	E.Waite	Ongoing - Construction to commence in 2018
2015	5161567565	HC005 Montgomery Drive - Inline Storage	2,230,000	1,023,762	1,025,444	180,794	91.9%	M.Oddi	Construction ongoing. Anticipated completion end of November 2017.
2015	5161571015	Sewer Lateral Replacement for Co-ordinated Projects	200,000	49,310	0	150,690	24.7%	M.Oddi	\$150k being used to WIP fund the 2018 project and then this can be closed.
2015	5161571525	Parkdale - Barton to Burlington	3,171,000	2,917,314	0	253,686	92.0%	M.Oddi	\$250k is being used to WIP fund the 2018 program and then this project can be closed.
2015	5161596855	Royal to Main-King CSO (WW-22)	18,040,000	1,557,247	0	16,482,753	8.6%	S.Jacob	Hold up due to Sammy Metals land, need co-ordination with LRT project. Please re-prioritize this project
2016	5161649555	QA-QC Service Contract - 2016	110,000	45,875	13,343	50,782	53.8%	M.Oddi/P. McNab	Complete - Close once commitments are paid/cleared
2016	5161655556	Mapping Update - 2016	70,000	6,805	59,447	3,748	94.6%	G.McGuire	Complete - Close once commitments are paid/cleared
2016	5161660533	Trenchless Manhole Rehabilitation - 2016	80,000	5,897	70,984	3,119	96.1%	E.Waite	Ongoing - work in progress
2016	5161660575	Mainline Sewer Condition Assessment Program - 2016	600,000	396,817	153,490	49,693	91.7%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5161660610	Binbrook Manhole & Sewer Rehab	540,000	40,216	500,000	(216)	100.0%	E.Waite	Complete - Close once commitments are paid/cleared
2016	5161660711	PW Capital Water Consumption Program - 2016	200,000	50,000	0	150,000	25.0%	E.Waite	\$150k being used to WIP fund the 2018 program and then this project can be closed.
2016	5161662073	Field Data Systems Program - 2016	160,110	14,324	71,705	74,081	53.7%	I.Szczepanik	Ongoing - work in progress. Not an annual project. No funds requested for 2018.
2016	5161671074	Contingency for Unscheduled Works Program - 2016	520,000	36,624	477,704	5,672	98.9%	E.Waite/P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds. Not an annual project.

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			a	b	c	d	e		
2017	5161711101	Road Restoration Program - 2017	1,800,000	1,053,455	262,312	484,233	73.1%	G.McGuire	Ongoing - work in progress
2017	5161718420	Grindstone Creek Utility Bridge	390,000	56,975	301,020	32,005	91.8%	E.Waite	Construction delayed to 2024 to coordinate with transportation bridge construction and to commence after the completion of Waterdown E-W Bypass road.
2017	5161749555	QA-QC Service Contract - 2017	110,000	21,696	82,618	5,686	94.8%	E.Waite	Ongoing - work in progress
2017	5161760390	Wastewater System Lining Program - 2017	4,500,000	3,413,954	245,099	840,947	81.3%	E.Waite	Ongoing - work in progress
2017	5161760533	Trenchless Manhole Rehabilitation - 2017	80,000	7,873	70,000	2,127	97.3%	E.Waite	Ongoing - work in progress
2017	5161760575	Mainline Sewer Condition Assessment Program - 2017	1,330,000	359,941	441,791	528,268	60.3%	E.Waite	Ongoing - work in progress
2017	5161760576	Sewer Lateral Condition Assessment Program - 2017	900,000	480,662	419,338	0	100.0%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5161760711	PW Capital Water Consumption Program - 2017	200,000	69,378	0	130,622	34.7%	E.Waite	Ongoing - work in progress
2017	5161760820	Open Cut Repairs for CIPP Program - 2017	400,000	31,745	368,255	0	100.0%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5161761241	Eastern Sanitary Interceptor (ESI) Rehab - SSR at Fruitland	4,688,000	4,687,845	0	155	100.0%	E.Waite	Close after year end report
2017	5161761444	Sewer Lateral Replace/Rehab Program - 2017	4,000,000	2,998,321	996,106	5,573	99.9%	E.Waite	Ongoing - work in progress
2017	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	1,540,000	151,557	1,200,000	188,443	87.8%	E.Waite	Ongoing - work in progress. To be completed by March 31, 2018 as per CWWF requirements
2017	5161771015	Sewer Lateral Replacement for Co-ordinated Projects	300,000	29,524	95,355	175,121	41.6%	E.Waite	Ongoing - work in progress
2017	5161772720	Central Park	120,000	0	0	120,000	0.0%	E.Waite	\$120K WIP funded to 2018 Waterfront project for Sheaffe/Cannon/Caroline/Railway/Mill/Harriet (Central Park) - 4411806202
Sub-Total Wastewater - Engineering Services			161,718,110	87,343,841	42,000,140	32,374,129	80.0%		
Storm Sewers - Engineering Services									
2012	5181272290	Storm Sewer Upgrades - 2012	7,596,000	6,717,256	797,493	81,251	98.9%	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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a			b		c	d	e		
2013	5181360312	Greenhill - Hwy 20 Culverts	2,110,000	889,135	431,012	789,853	62.6%	M.Oddi	Complete - pending final review/audit/payment
2013	5181372295	SERG - Mount Albion SWMF Rehab	670,000	174,308	5,558	490,134	26.8%	S.Jacob	HCA permit outstanding
2014	5181460422	SERG - Holbrook SW Improvement	940,000	666,920	4,868	268,212	71.5%	M.Oddi	Complete - pending final review/audit/payment
2014	5181460423	SERG - Princess at Birch	90,000	11,172	0	78,828	12.4%	S.Jacob	Requires changes to manholes. Can be done as a maintenance activity.
2015	5181555077	Zoom Camera Inspection - Data Component	760,000	120,872	234,207	404,921	46.7%	E.Waite	Ongoing - work in progress
2015	5181560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,290,000	228,078	139	1,061,783	17.7%	E.Waite	Ongoing - work in progress Contract award expected in Q4 2017, construction completion Q2 2018
2015	5181560999	Closed Projects - Storm	275,000	26,288	158,281	90,431	67.1%	E.Waite/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 all of the original project ID. % spent is dependent on maintenance required.
2015	5181572291	Barton & Hamilton St, Waterdown Storm Sewer Upgrade	1,530,000	317,747	0	1,212,253	20.8%	E.Waite	Funding made available through 2015 budget for potential extension for development. Development spearheading. Currently under review by Risk and Legal due to developer/constructor claim.
2015	5181572295	SERG - LEEDS Implementation	910,000	50,228	46,147	813,625	10.6%	E.Waite	Complete. \$590k being used to WIP fund 2018 program. Close once commitments are paid/cleared.
2016	5181649555	QA-QC Service Contract - 2016	60,000	28,200	30,000	1,800	97.0%	M.Oddi/P. McNab	Complete - Close once commitments are paid/cleared
2016	5181655420	Wilson St Stormwater Drainage	2,440,000	965,625	188,947	1,285,428	47.3%	M.Oddi	Construction ongoing. Anticipated completion mid December 2017.
2016	5181655556	Mapping Update - 2016	70,000	5,213	55,447	9,340	86.7%	G.McGuire	Complete - Close once commitments are paid/cleared
2016	5181660533	Trenchless Manhole Rehabilitation - 2016	80,000	35,355	40,248	4,397	94.5%	E.Waite	Ongoing - work in progress, close after year end 2017
2016	5181662073	Field Data Systems Program - 2016	100,000	34,364	0	65,636	34.4%	I.Szczepanik	Ongoing - work in progress. Not an annual project. No funds requested for 2018.
2016	5181672074	Contingency for Unscheduled Works Program - 2016	150,000	35,370	26,345	88,285	41.1%	E.Waite/P. McNab	% spent dependent on # of unscheduled works.
2016	5181672259	SERG - Gage Park Pond	1,980,000	161,695	134,811	1,683,494	15.0%	S.Jacob	Design 2017, construction 2018
2016	5181672290	Storm Sewer Upgrades - 2016	1,538,000	531,044	131,352	875,604	43.1%	M.Oddi/P. McNab	\$280K WIP funded to 2018 Waterfront project for Sheaffe/Cannon/Caroline/Railway/Mill/Harriet (Central Park) - 4411806202. Balance of projects ongoing. Anticipated surplus approx. \$350k

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			a	b	c	d	e		
2016	5181672650	West Mtn Sewers - Juggernaut	9,549,000	1,307,137	10,613,147	(2,371,284)	124.8%	E.Waite	Construction to begin in 2017. CWWF funded project to be completed by March 2018. \$3.3m 2018 budget to be approved and loaded.
2017	5181717549	Concrete Box Culvert Rehabilitation/Repair (< 3.0m span)	194,000	149,627	44,373	0	100.0%	E.Waite	Complete - Close once commitments are paid/cleared
2017	5181749555	QA-QC Service Contract - 2017	60,000	5,905	18,368	35,727	40.5%	E.Waite	Ongoing - work in progress
2017	5181760533	Trenchless Manhole Rehabilitation - 2017	80,000	7,873	70,000	2,127	97.3%	E.Waite	Ongoing - work in progress
2017	5181760730	McQueston Park Entrance - Flooding	250,000	24,603	0	225,397	9.8%	E.Waite	Ongoing - work in progress, completion Q2 2018
2017	5181772290	Storm Sewer Upgrades - 2017	470,000	83,692	4,091	382,217	18.7%	E.Waite	1 of 4 projects tendered. The remaining three projects are design 2017 only.
2017	5181780786	RHBP - Dartnall - Stone Church to Rymal	187,000	16,730	166,943	3,327	98.2%	M.Oddi	Ongoing construction. Surface asphalt 2018.
<b><u>Sub-Total Storm Sewers - Engineering Services</u></b>			<b>33,379,000</b>	<b>12,594,437</b>	<b>13,201,777</b>	<b>7,582,786</b>	<b>77.3%</b>		
<b><u>TOTAL WATER, WASTEWATER &amp; STORM SEWERS ENGINEERING SECTION</u></b>			<b>313,248,490</b>	<b>166,875,352</b>	<b>65,553,715</b>	<b>80,819,423</b>	<b>74.2%</b>		

**WATER WASTEWATER & STORM SEWERS OPERATIONS SECTION**

**Water - Operations**

2011	5141166151	SCADA Master Plan Implement	15,580,000	12,059,386	1,049,759	2,470,855	84.1%	A.McArthur	SCADA Master Plan implementation and construction will continue until Q4 2017
2014	5141455922	Water Loss Audit - 2014	400,000	16,242	14,022	369,736	7.6%	N.Winters	These funds are to install water meters throughout the water distribution system to determine water loss. This project will be fully spent by July 1, 2018
2015	5141560750	Unscheduled Valve, Hydrant etc - 2015	7,350,000	6,794,192	555,808	0	100.0%	N.Winters	These funds are for the Emergency Water Repair contract and they will be fully spent by February 2018.
2015	5141569075	Environmental Lab Improvements - 2015	70,000	27,567	42,910	(477)	100.7%	P.Thomas/C. Vanderperk	Complete - Close once commitments are paid/cleared
2016	5141641226	Centralized Water and Wastewater Operations Centre	250,000	0	0	250,000	0.0%	A.McArthur	Continuing to work with City-wide Portfolio Review of Yard Facilities and Properties.
2016	5141651610	Fleet Additions - Hamilton Water - 2016	400,000	201,838	127,374	70,788	82.3%	G.Botha	This project has experienced some delays but the funds will be fully committed by October 2017. These funds are for installation of AVL modems in Hamilton Water vehicles.
2016	5141655851	Water Efficiency Plan - 2016	102,000	14,481	15,080	72,439	29.0%	J.Wagner	Project to be initiated in Q3. 1/3 to be spent in 2017. 2/3 in 2018.
2016	5141660750	Unscheduled Valve, Hydrant etc - 2016	2,500,000	773,371	1,726,629	0	100.0%	N.Winters	These funds are for the Emergency Water Repair contract and they will be fully spent by February 2019.



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			a	b	c	d	e		
2016	5141661502	New & Replacement Water Meters - 2016	2,000,000	1,721,818	53,370	224,812	88.8%	R.Di Giovanni	Received documentation from contractor in order to release 10% holdback. With F&A group now. Will close after payouts completed.
2016	5141662078	Substandard Water Service Replacement Program - 2016	3,000,000	1,855,893	1,117,332	26,775	99.1%	N.Winters/D. Alberton	These funds are for the replacement of public portion lead water services. This project is on-track and should be fully spent by April 2018.
2016	5141669075	Environmental Lab Improvements - 2016	150,000	0	0	150,000	0.0%	P.Thomas/C. Vanderperk	Anticipate 100% spent/committed by year end 2018.
2017	5141751710	Fleet Additions - Hamilton Water - 2017	560,000	143,733	38,551	377,716	32.6%	G.Botha	Ongoing - work in progress. P.O. for Plant Maintenance & Technical Services Section for the purchase of a new forklift is included.
2017	5141755851	Water Efficiency Plan - 2017	200,000	13,290	35,840	150,870	24.6%	J.Wagner	Anticipate 50 % spent in 2017 & remaining 50 % in 2018
2017	5141757750	Carlisle AMR/AMI Pilot Project	250,000	0	170,000	80,000	68.0%	R. Di Giovanni	Ongoing - work in progress. This project will run until the end of this year.
2017	5141760750	Unscheduled Valve, Hydrant etc - 2017	1,040,000	172,205	850,903	16,892	98.4%	N.Winters	These funds are for the Emergency Water Repair contract and they will be fully spent by November 2019.
2017	5141761502	Water Meter - Installation /Replacement/Repair - General Maintenance	2,100,000	1,388,339	710,676	985	100.0%	R. Di Giovanni	Ongoing - work in progress. This project will run until Feb 1st, 2018.
2017	5141762078	Substandard Water Service Replacement Program - 2017	4,000,000	1,753,773	300,934	1,945,293	51.4%	N.Winters/D. Alberton	These funds are for the replacement of public portion lead water services. This project is on-track and should be fully spent by February 2019.
2017	5141763757	City of Hamilton Bulk Water Fill Stations Upgrade	80,000	0	67,480	12,520	84.4%	R. Di Giovanni	This project will run until the end of this year. PO will be closed in early 2018

**Sub-Total - Hamilton Water - Operations** **40,032,000** **26,936,128** **6,876,668** **6,219,204** **84.5%**

**WasteWater - Operations**

2011	5161166151	SCADA Master Plan Implement	15,875,000	13,112,102	683,762	2,079,136	86.9%	A.McArthur	SCADA Master Plan implementation and construction will continue until Q4 2017
2014	5161460450	Iona Trunk Sewer Odour Control	650,000	32,288	0	617,712	5.0%	N.Winters	This project has been completed. We will be completing an appropriation adjustment to move those funds to other wastewater projects. This appropriation adjustment will be completed once the 2018 Budget process has been completed
2014	5161469076	BCOS-Beyond Compliance OP Sys	243,000	97,618	7,410	137,972	43.2%	C.Vanderperk/ S.Girt	This project relates to the BCOS software upgrade and DWQMS maintenance. The monies will be spent 2018/2019.
2015	5161560625	Post Zoom Camera Rehab	220,000	70,747	0	149,253	32.2%	N.Winters	\$149k being used to WIP fund 2018 program. An appropriation adjustment was completed to move \$40k surplus to the 2017 project (this will clear the \$23k deficit for 2015 and 2016 Unscheduled Valve, Hydrant, etc. projects)

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			a	b	c	d	e		
2016	5161641226	Centralized Water and Wastewater Operations Centre	250,000	0	0	250,000	0.0%	A.McArthur	Continuing to work with City-wide Portfolio Review of Yard Facilities and Properties.
2016	5161660302	Emergency Repairs - Cross Connections - 2016	500,000	472,690	27,249	61	100.0%	N.Winters/D. Alberton	This account funds the investigation and correction of sewer lateral cross connections. The funds are fully committed and will be fully spent by December 2017.
2016	5161669075	Environmental Lab Improvements - 2016	345,000	113,467	140,895	90,638	73.7%	P.Thomas/C. Vanderperk	Anticipate 100% spent/committed by year end 2018.
2017	5161755422	Sewer Use Bylaw Enforcement Infor Upgrade	80,000	1,654	33,050	45,296	43.4%	D.Saunders/C. Vanderperk	32, 000 will be spent in 2017. The remainder in 2018
2017	5161760302	Emergency Repairs - Cross Connections - 2017	1,000,000	405,266	513,441	81,293	91.9%	N.Winters/D. Alberton	This account funds the investigation and correction of sewer lateral cross connections. The funds will be fully spent by January 2019.
2017	5161760522	Sewer Lateral Management Program (WWC) - 2017	3,500,000	2,243,269	999,642	257,089	92.7%	N.Winters/D. Alberton	The funds are for the sewer lateral management program and they will be fully spent by April 2018
2017	5161761740	Unscheduled Manhole & Sewermain - 2017	350,000	7,239	325,425	17,336	95.0%	N.Winters	These funds are for the Emergency Sewer Repair contract and they will be fully spent by December 2018.
2017	5161766423	Sewer Use Bylaw 14-090 Parameter Limit Review	150,000	0	0	150,000	0.0%	D.Saunders/C. Vanderperk	50 % will be spent in 2017. The remainder in 2018
2017	5161769075	Environmental Lab Improvements - 2017	250,000	0	0	250,000	0.0%	P.Thomas/C. Vanderperk	Anticipate 100% spent/committed by year end 2018.
<b><u>Sub-Total - Hamilton WasteWater - Operations</u></b>			<b>23,413,000</b>	<b>16,556,340</b>	<b>2,730,874</b>	<b>4,125,786</b>	<b>82.4%</b>		
<b><u>Storm Sewers - Operations</u></b>									
2015	5181560515	Inlet-Outlet Storm Damage Repair - 2015	850,000	381,552	66,221	402,227	52.7%	N.Winters	\$400k surplus being used to wip fund 2018 Storm Capital Program. The \$66K Spring Creek PO will need to remain in this account until the warranty period is complete December 2017).
2017	5181755740	Flushables Research Study	75,000	0	75,000	-	100.0%	J.Wagner	Expected completion of study by end of Q3 2018.
2017	5181761740	Unscheduled Manhole & Sewermain - 2017	100,000	0	1,607	98,393	1.6%	N.Winters	These funds are for the Emergency Sewer Repair contract and they will be fully spent by December 2018.
<b><u>Sub-Total - Hamilton Storm Sewers - Operations</u></b>			<b>1,025,000</b>	<b>381,552</b>	<b>142,828</b>	<b>500,620</b>	<b>51.2%</b>		
<b><u>Storm Sewers - Roads O&amp;M</u></b>									
2014	5181460452	Shoreline Protection Program	1,110,000	229,044	26,768	854,188	23.0%	B.Hughes	Final design preparation subject to private resident involvement.
2014	5181460461	Forty Mile Municipal Drain	100,000	91,363	0	8,637	91.4%	B.Hughes	Close once cost sharing has been confirmed.

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2014	5181460722	Municipal Drain Maintenance Program - 2014/15	199,000	22,765	12,243	163,992	17.6%	B.Hughes	Reactive Account - subject to applications from the public. Note no 2017 allocations.
2015	5181510501	Mathers Drive Bank Erosion Control and Slope Stabilization	1,100,000	43,867	64,797	991,336	9.9%	B.Hughes	Project file to council, design to commence upon council approval, construction anticipated start Q3, 2018.
2015	5181517152	Roadside Drainage Improvement Program - 2015	1,320,000	1,266,028	31,394	22,578	98.3%	B.Hughes	Complete - Close once commitments are paid/cleared
2016	5181617152	Roadside Drainage Improvement Program - 2016	1,500,000	1,024,129	461,408	14,463	99.0%	B.Hughes	Work complete
2016	5181617458	Catch Basin Replacement/Rehabilitatio n Program - 2016	500,000	383,225	27,757	89,018	82.2%	B.Hughes	Anticipate 100% spent Q2, 2018
2016	5181617549	Cross Road Culvert Rehabilitation/Repair - 2016	150,000	97,003	54,675	(1,678)	101.1%	B.Hughes	Anticipate 100% spent Q4 2017
2016	5181617642	South St East Drainage Improve	160,000	21,652	3,224	135,124	15.5%	B.Hughes	Construction Q2, 2018
2016	5181660622	SWM Pond-Creek Maintenance Program - 2016	1,500,000	614,531	878,917	6,552	99.6%	B.Hughes	Work complete
2016	5181660722	Municipal Drain Maintenance Program - 2016	100,000	0	0	100,000	0.0%	B.Hughes	Reactive Account - subject to applications from the public. Note no 2017 allocations.
2016	5181674640	Battlefield Creek Remediation	300,000	166,641	20,256	113,103	62.3%	B.Hughes	Work complete
2017	5181717152	Roadside Drainage Improvement Program - 2017	1,370,000	88,583	1,282,202	(785)	100.1%	B.Hughes	Work complete
2017	5181717458	Catch Basin Replacement/Rehabilitatio n Program - 2017	500,000	145,788	123,334	230,878	53.8%	B.Hughes	Anticipate 100% spent Q4, 2017.
2017	5181760622	SWM Pond-Creek Maintenance Program - 2017	1,600,000	236,888	1,154,191	208,921	86.9%	B.Hughes	Anticipate 100% spent Q4, 2017.
2017	5181760722	Municipal Drain Maintenance Program - 2017	100,000	0	0	100,000	0.0%	B.Hughes	WIP finance 2018 project
2017	5181767723	Pumping Stations	100,000	0	0	100,000	0.0%	B.Hughes	Committed/work anticipated to be complete Q3, 2018
2017	5181774730	Centre Road Drainage Improvement	100,000	0	0	100,000	0.0%	B.Hughes	Anticipate 100% spent Q3, 2018
<b><i>Sub-Total - Hamilton Storm Sewers - Roads O&amp;M</i></b>			<b>11,809,000</b>	<b>4,431,507</b>	<b>4,141,166</b>	<b>3,236,327</b>	<b>72.6%</b>		

City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects  
As of September 30, 2017

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 September 30, 2017
			a	b	c	d	e		

<u>TOTAL WATER, WASTEWATER &amp; STORM SEWERS - OPERATIONS</u>	76,279,000	48,305,527	13,891,536	10,845,610	81.5%
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Total Public Works - Rate Supported	869,041,513	361,757,000	311,348,393	192,699,793	77.5%
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