

**CITY OF HAMILTON
WASTEWATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)**

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
Coordinated - Network Extension	5162180187	Garner Road Trunk Sanitary Sewer - Hwy 6 w/o Raymond - CASH FLOW	4,000,000	4,000,000	4,000,000	-	-	-	-	-	-	-	-	-	8,000,000	4,000,000	2021	2022
	5162280280	Dewitt Road Sanitary Sewer - Barton to SSR	-	-	1,000,000	500,000	-	-	-	-	-	-	-	-	1,000,000	500,000	2022	2022
	5162280281	Dickenson Road West Sanitary Sewer - Garth Street Extension to Upper James Street	-	-	2,670,000	-	-	-	-	-	-	-	-	-	2,670,000	-	2022	2022
	5162280282	Fifty Road Trunk Sanitary Sewer	-	-	1,300,000	-	-	-	-	-	-	-	-	-	1,300,000	-	2022	2022
	5162280284	Shaver Road Sanitary Sewer - Osprey to hydro corridor	-	-	600,000	-	-	-	-	-	-	-	-	-	600,000	-	2022	2022
Coordinated - Network Extension Total			4,000,000	4,000,000	9,570,000	500,000	-	-	-	-	-	-	-	-	13,570,000	4,500,000		
Coordinated - Replacement	5162171015	Sewer Lateral Replacement for Co-ordinated Projects	354,000	354,000	600,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,454,000	5,354,000	2021	2046
	5162171025	Dewitt - Highway 8 to Barton	600,000	600,000	1,040,000	1,040,000	-	-	-	-	-	-	-	-	1,640,000	1,640,000	2021	2022
	5162271012	Strathearne - Main to Britannia - Sewer Laterals	-	-	170,000	170,000	-	-	-	-	-	-	-	-	170,000	170,000	2022	2022
	5162271021	Westdale South Neighbourhood (Central)	-	-	30,000	30,000	-	-	-	-	-	-	-	-	30,000	30,000	2022	2022
	5162271022	Burlington - James to Ferguson	-	-	440,000	200,000	-	-	-	-	-	-	-	-	440,000	200,000	2022	2022
	5162271109	Scenic - Mohawk to Chateau	-	-	70,000	70,000	-	-	-	-	-	-	-	-	70,000	70,000	2022	2022
	5162271214	Fairfield - Barton to Britannia	-	-	250,000	250,000	-	-	-	-	-	-	-	-	250,000	250,000	2022	2022
	5162271296	Governor's - Main to Ogilvie (Bridge 296)	-	-	380,000	380,000	-	-	-	-	-	-	-	-	380,000	380,000	2022	2022
	5162271303	Marion - Longwood to Dromore	-	-	180,000	180,000	-	-	-	-	-	-	-	-	180,000	180,000	2022	2022
	5162271306	Kelvin - Old Orchard to south end	-	-	60,000	60,000	-	-	-	-	-	-	-	-	60,000	60,000	2022	2022
	5162271308	Concession / Mountain Brow - Upper Gage to Oakcrest	-	-	150,000	150,000	-	-	-	-	-	-	-	-	150,000	150,000	2022	2022
	5162272205	Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	-	-	1,250,000	-	-	-	-	-	-	-	-	-	1,250,000	-	2022	2022
	5162371307	Duke - Hess to west end & Robinson - Queen to west end	-	-	-	-	30,000	30,000	250,000	250,000	-	-	-	-	280,000	280,000	2023	2024
	5162471202	Hughson - Simcoe to Brock & Wood - James to Hughson	-	-	-	-	-	-	400,000	400,000	-	-	-	-	400,000	400,000	2024	2024
	5162471304	Ferguson/Foster/Walnut/Patrick	-	-	-	-	-	-	110,000	110,000	-	-	-	-	110,000	110,000	2024	2024
	5162471308	Scenic - Chateau Crt to Upper Paradise	-	-	-	-	-	-	1,070,000	1,070,000	-	-	-	-	1,070,000	1,070,000	2024	2024
	5162571201	Simcoe - James to Wellington & Hughson - Strachan to Simcoe	-	-	-	-	-	-	-	-	400,000	400,000	-	-	400,000	400,000	2025	2025
	5162772214	Westdale North Neighbourhood Phase 1	-	-	-	-	-	-	-	-	-	-	1,590,000	1,590,000	1,590,000	1,590,000	2027	2027
	5162871115	Westdale North Neighbourhood Phase 2	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2028	2028
	5162871118	Charlton - Walnut to Sherman Access	-	-	-	-	-	-	-	-	-	-	120,000	120,000	120,000	120,000	2028	2028
	5162871208	Burlington & Industrial - Ottawa to Kenilworth	-	-	-	-	-	-	-	-	-	-	760,000	760,000	760,000	760,000	2028	2028
	5162871311	Oak/Emerald/East Ave - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	440,000	440,000	440,000	440,000	2028	2028
	5162971020	Sanford - Cannon to Barton	-	-	-	-	-	-	-	-	-	-	20,000	20,000	20,000	20,000	2029	2029
	5162971106	Wentworth - Barton to Burlington	-	-	-	-	-	-	-	-	-	-	250,000	250,000	250,000	250,000	2027	2027
	5162971113	Westdale North Neighbourhood Phase 3	-	-	-	-	-	-	-	-	-	-	750,000	750,000	750,000	750,000	2029	2029
	5162971114	Charlton - James to Walnut	-	-	-	-	-	-	-	-	-	-	75,000	75,000	75,000	75,000	2029	2029
	5162971117	Green - Carla to Barton	-	-	-	-	-	-	-	-	-	-	100,000	100,000	100,000	100,000	2029	2029
	5162971311	Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	-	-	-	-	-	-	-	-	-	-	420,000	420,000	420,000	420,000	2029	2029
	5163071308	Stipeley Neighbourhood (South) - Connaught / Balasm / Dunsmore	-	-	-	-	-	-	-	-	-	-	80,000	80,000	80,000	80,000	2030	2030
Coordinated - Replacement Total			954,000	954,000	4,620,000	3,030,000	530,000	530,000	2,330,000	2,330,000	900,000	900,000	8,355,000	8,355,000	17,689,000	16,099,000		
Demolition / Disposal	5161767772	Decommissioning Aberdeen Sewage Pumping Station	10,000	10,000	-	-	-	-	-	-	110,000	110,000	1,190,000	1,190,000	1,310,000	1,310,000	2019	2026
	5162068851	Pier 25 Dredging - Windermere Basin	50,000	50,000	13,250,000	13,250,000	-	-	-	-	-	-	-	-	13,300,000	13,300,000	2018	2022
Demolition / Disposal Total			60,000	60,000	13,250,000	13,250,000	-	-	-	-	110,000	110,000	1,190,000	1,190,000	14,610,000	14,610,000		
Enhancement	5162241350	Pilot solar power installation at a Class B Hamilton Water facility	-	-	150,000	150,000	600,000	600,000	-	-	-	-	-	-	750,000	750,000	2022	2025
	5162268757	Lower Chedoke Combined EA Study	-	-	280,000	-	1,650,000	-	1,100,000	-	2,100,000	2,100,000	2,100,000	2,100,000	7,230,000	4,200,000	2022	2026
	5162268767	Chedoke Watershed Stormwater Retrofit EA Study	-	-	280,000	-	1,100,000	-	3,150,000	350,000	3,150,000	3,150,000	4,300,000	4,300,000	11,980,000	7,800,000	2022	2027
Enhancement Total			-	-	710,000	150,000	3,350,000	600,000	4,250,000	350,000	5,250,000	5,250,000	6,400,000	6,400,000	19,960,000	12,750,000		
Expansion / Extension	5161966102	Woodward WWTP - Expansion (CASH FLOWED)	3,500,000	-	4,500,000	-	4,500,000	-	5,700,000	-	5,700,000	-	289,274,000	-	313,174,000	-	2019	2028
	5162196011	Intensification Infrastructure Upgrades Program - Wastewater	-	-	-	-	400,000	200,000	-	-	400,000	200,000	1,200,000	600,000	2,000,000	1,000,000	2023	2039
	5162280283	370 Garner Road Pumping Station (AEGD)	-	-	3,500,000	-	-	-	-	-	-	-	-	-	3,500,000	-	2022	2022
	5162380380	Millen Road Sanitary Sewer QEW crossing	-	-	-	-	1,125,000	-	-	-	-	-	-	-	1,125,000	-	2023	2023
	5162696475	Flooding & Drainage Master Plan Capital Forecast	-	-	-	-	-	-	-	-	-	-	22,500,000	22,500,000	22,500,000	22,500,000	2027	2029
Expansion / Extension Total			3,500,000	-	8,000,000	-	6,025,000	200,000	5,700,000	-	6,100,000	200,000	312,974,000	23,100,000	342,299,000	23,500,000		
Feasibility Plans / EA's/ Studies	5161555264	City-Wide Wastewater Master Plan	950,000	680,000	280,000	-	-	-	-	-	-	-	550,000	-	1,780,000	680,000	2015	2028
	5161695747	Battlefield Trunk Sewer Twinning (WW-33) (CASH FLOWED)	20,000,000	(2,650,000)	-	-	-	-	18,000,000	-	-	-	-	-	38,000,000	(2,650,000)	2016	2024
	5161855777	Wastewater infrastructure Analysis - Growth and Economic Opportunities	920,000	920,000	550,000	550,000	-	-	-	-	-	-	-	-	1,470,000	1,470,000	2018	2022
	5162055800	Sewer Outfall Monitoring Study	-	-	500,000	500,000	-	-	1,000,000	1,000,000	-	-	-	-	1,500,000	1,500,000	2020	2024

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Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162095800	Flooding & Drainage Master Plan Capital Improvements	380,000	380,000	450,000	450,000	550,000	550,000	440,000	440,000	170,000	170,000	-	-	1,990,000	1,990,000	2020	2025
	5162149555	QA-QC Service Contract Program	-	-	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	900,000	900,000	1,500,000	1,500,000	2021	2046
	5162155010	Wastewater Systems Planning Program	-	-	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000	3,600,000	6,000,000	6,000,000	2022	2046
	5162155022	Engineering Consultant Sewermain Projects	300,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,300,000	5,300,000	2021	2046
	5162155556	Mapping Update Program	96,000	96,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	240,000	240,000	496,000	496,000	2021	2046
	5162155878	Forcemain Condition Assessment Program	270,000	270,000	626,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	1,620,000	1,620,000	3,326,000	2,970,000	2021	2046
	5162155880	Inflow & Infiltration Studies and Flow Monitoring Program	450,000	450,000	-	-	820,000	410,000	820,000	410,000	280,000	140,000	1,680,000	840,000	4,050,000	2,250,000	2021	2046
	5162157545	Wastewater Computer Model Update & Maintenance	150,000	150,000	220,000	220,000	440,000	440,000	440,000	440,000	280,000	280,000	1,020,000	1,020,000	2,550,000	2,550,000	2021	2046
	5162167752	Wastewater Outstation Inspections - Asset Management Program	200,000	200,000	1,020,000	1,020,000	920,000	920,000	920,000	920,000	920,000	920,000	5,520,000	5,520,000	9,500,000	9,500,000	2021	2046
	5162168777	Chedoke Creek Water Quality Improvements (CASH FLOWED)	800,000	800,000	9,050,000	-	1,250,000	-	1,100,000	-	-	-	-	-	12,200,000	800,000	2021	2024
	5162255242	Combined Sewer Outfall Monitoring Study	-	-	600,000	600,000	200,000	71,470	-	-	-	-	-	-	800,000	671,470	2022	2023
	5162255800	Inflow & Infiltration Study for New Subdivisions	-	-	550,000	550,000	-	-	-	-	-	-	-	-	550,000	550,000	2022	2022
	5162257800	Wastewater Facility Asset Management Implementation Plan	-	-	100,000	100,000	280,000	280,000	110,000	110,000	-	-	-	-	490,000	490,000	2022	2024
	5162262305	Iona Avenue Sewer Improvements	-	-	330,000	330,000	-	-	-	-	-	-	-	-	330,000	330,000	2022	2022
	5162562543	CSO Characterization Program	-	-	170,000	170,000	170,000	170,000	170,000	170,000	600,000	600,000	1,020,000	1,020,000	2,130,000	2,130,000	2022	2031
	5163066151	2030 SCADA Master Plan	-	-	-	-	-	-	-	-	-	-	5,125,000	5,125,000	5,125,000	5,125,000	2029	2034
Feasibility Plans / EA's/ Studies Total			24,516,000	1,596,000	15,736,000	6,050,000	6,190,000	4,401,470	24,560,000	5,050,000	3,810,000	3,670,000	24,275,000	22,885,000	99,087,000	43,652,470		
Licenses	5162162073	Field Data Systems Program	170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000	2021	2046
Licenses Total			170,000	170,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	660,000	660,000	1,270,000	1,270,000		
New	5161667421	New Haulage Receiving Station	190,000	190,000	-	-	170,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	10,660,000	10,660,000	2016	2025
	5161696452	Airport Lands Dickinson Rd Trunk Sewer (WW-27, WW-26, WW-28) (CASH FLOWED)	46,000,000	(5,500,000)	20,300,000	-	11,300,000	-	-	-	-	-	-	-	77,600,000	(5,500,000)	2016	2023
	5162280285	Drop Structure Installation - Upper Centennial Trunk Sewer Manhole #10	-	-	500,000	500,000	-	-	-	-	-	-	-	-	500,000	500,000	2022	2022
New Total			46,190,000	(5,310,000)	20,800,000	500,000	11,470,000	170,000	5,150,000	5,150,000	5,150,000	5,150,000	-	-	88,760,000	5,660,000		
Rehabilitation / Renovation	5160866801	Woodward WWTP - Clean Harbour (CASH FLOWED)	386,737,000	374,971,000	37,895,253	32,828,253	-	-	-	-	-	-	-	-	424,632,253	407,799,253	2008	2022
	5160966910	Woodward WWTP - Biosolids Management Facility	37,680,000	16,441,000	2,770,000	2,246,470	2,770,000	-	2,770,000	2,246,470	2,770,000	2,246,470	16,620,000	13,478,820	65,380,000	36,659,230	2009	2046
	5161266213	Dundas WWTP Improvements (CASH FLOWED)	2,770,000	2,770,000	-	-	1,650,000	1,650,000	-	-	9,150,000	9,150,000	14,700,000	14,700,000	28,270,000	28,270,000	2011	2027
	5161467756	Greenhill & Cochrane HCS01 Combined Sewer Overflow Tank Cleaning & Upgrades (CASH FLOWED)	2,470,000	2,470,000	-	-	2,150,000	2,150,000	-	-	-	-	-	-	4,620,000	4,620,000	2014	2023
	5161767420	Parkdale Avenue HC001 Wastewater Pumping Station Upgrades	560,000	560,000	-	-	2,860,000	2,860,000	-	-	-	-	-	-	3,420,000	3,420,000	2016	2023
	5161966511	Woodward WWTP - Digester 3 & 5 (CASH FLOWED)	8,650,000	8,650,000	4,710,000	4,710,000	-	-	-	-	-	-	-	-	13,360,000	13,360,000	2019	2022
	5162067425	Hillside SPS (DC006) Upgrades	1,130,000	1,130,000	280,000	280,000	550,000	550,000	-	-	-	-	-	-	1,960,000	1,960,000	2020	2023
	5162111101	Road Cut Restoration Program	1,800,000	1,800,000	2,315,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000	10,800,000	20,315,000	19,800,000	2021	2046
	5162160302	Emergency Repairs - Cross Connections Program	500,000	500,000	1,470,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	350,000	350,000	3,520,000	2,350,000	2021	2026
	5162160390	Wastewater System Lining Program	4,050,000	4,050,000	4,050,000	3,650,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	24,300,000	24,300,000	44,550,000	44,150,000	2021	2046
	5162160522	Sewer Lateral Management Program (WWC)	4,250,000	4,250,000	4,000,000	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	21,000,000	21,000,000	39,750,000	39,750,000	2021	2046
	5162160533	Trenchless Manhole Rehabilitation	70,000	70,000	250,000	180,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,570,000	2,500,000	2021	2046
	5162160574	Capital Programming Sewer Inspection & Assessment	500,000	500,000	1,150,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	4,200,000	4,200,000	7,950,000	7,500,000	2021	2046
	5162160575	Mainline Sewer Condition Assessment Program	1,140,000	1,140,000	2,030,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	1,140,000	6,840,000	6,840,000	13,430,000	12,540,000	2021	2046
	5162160576	Sewer Lateral Condition Assessment Program	540,000	540,000	790,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,370,000	2,370,000	4,450,000	3,910,000	2021	2046
	5162161444	Sewer Lateral Replace/Rehab Program	3,600,000	3,600,000	3,620,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	20,100,000	20,100,000	36,620,000	36,100,000	2021	2046
	5162166713	Wastewater Maintenance Capital Program	1,500,000	1,500,000	-	-	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000	12,000,000	19,500,000	19,500,000	2021	2046
	5162166810	Woodward WWTP - Maintenance Building (CASH FLOWED)	500,000	500,000	500,000	500,000	-	-	-	-	-	-	-	-	1,000,000	1,000,000	2018	2022
	5162167420	DC007 McMaster Sewage Pumping Station Upgrades	620,000	620,000	330,000	330,000	2,090,000	2,090,000	-	-	-	-	-	-	3,040,000	3,040,000	2021	2023
	5162167501	Odour Control Program & Media Replacement	150,000	150,000	1,000,000	1,000,000	-	-	-	-	-	-	-	-	1,150,000	1,150,000	2021	2022
	5162169075	City Environmental Lab Improvements Program	410,000	410,000	340,000	340,000	190,000	190,000	90,000	90,000	50,000	50,000	300,000	300,000	1,380,000	1,380,000	2021	2046
	5162261741	Resetting or Adjusting of Wastewater Utility Structures	-	-	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,500,000	2,500,000	2022	2046
	5162262250	Eastern Sewer Interceptor (ESI) - South Service - Fruitland to Green	-	-	8,000,000	4,932,415	-	-	-	-	-	-	-	-	8,000,000	4,932,415	2022	2022
	5162266011	Woodward WWTP - Secondary Digester	-	-	-	-	500,000	500,000	6,000,000	6,000,000	-	-	-	-	6,500,000	6,500,000	2022	2025
	5162266712	Wastewater Maintenance - Rebuild, Replacement and New Capital	1,500,000	1,500,000	600,000	600,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000	1,800,000	4,800,000	4,800,000	2021	2046
	5162266911	Woodward WWTP - North Digester Complex Rehabilitation (CASH FLOW)	-	-	3,450,000	3,450,000	-	-	5,900,000	5,900,000	5,900,000	5,900,000	-	-	15,250,000	15,250,000	2022	2025
	5162267375	Beach Boulevard (HC051) Wastewater Pump Station Upgrades	-	-	440,000	440,000	1,150,000	1,150,000	-	-	-	-	-	-	1,590,000	1,590,000	2022	2023
	5162267376	Rockcliffe (DC015) Wastewater Pumping Station Upgrades	-	-	990,000	990,000	3,350,000	3,350,000	-	-	-	-	-	-	4,340,000	4,340,000	2022	2023
	5162267585	Diesel Fuel Storage Compliance Upgrades	-	-	1,100,000	1,100,000	1,400,000	1,400,000	-	-	-	-	-	-	2,500,000	2,500,000	2022	2023
	5162360310	Regional Road 56 - Fall Fair Way to 500m North of Guyatt Rd - Sewer Main Rehab	-	-	-	-	2,500,000	2,500,000	-	-	-	-	-	-	2,500,000	2,500,000	2023	2023

CITY OF HAMILTON
WASTEWATER SYSTEM
2022 - 2031 CAPITAL BUDGET LIST (\$)

Project Type	Project ID	Title	Pre 2022		2022		2023		2024		2025		Remaining		Project Total		Start Year	End Year
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net		
	5162360372	Large Sewer Lining - Blanshard St: Locke St to Poulette St	-	-	-	-	2,300,000	2,300,000	-	-	-	-	-	-	2,300,000	2,300,000	2023	2023
	5162366420	Woodward WWTP - Primary Clarifiers (Galleries 1-8)	-	-	1,100,000	1,100,000	930,000	930,000	12,955,000	12,955,000	12,955,000	12,955,000	-	-	27,940,000	27,940,000	2022	2026
	5162441226	Centralized Water and Wastewater Operations Centre (CASH FLOWED)	-	-	-	-	2,625,000	-	5,125,000	5,125,000	-	-	-	-	7,750,000	5,125,000	2023	2024
	5162461420	West 31st 400mm Forcemain Replacement & Rehabilitation	-	-	-	-	-	-	1,600,000	1,600,000	-	-	-	-	1,600,000	1,600,000	2024	2024
	5162466301	Woodward WWTP North Plant Rehabilitation (CASH FLOWED)	-	-	-	-	2,200,000	2,200,000	2,200,000	2,200,000	1,200,000	1,200,000	70,600,000	70,600,000	76,200,000	76,200,000	2023	2028
	5162560572	Large Sewer Lining: Upper James - Inverness to James St S	-	-	-	-	-	-	-	-	3,000,000	3,000,000	-	-	3,000,000	3,000,000	2025	2025
	5162560592	Strathearne - Barton to Brampton	-	-	-	-	-	-	-	-	7,280,000	7,280,000	-	-	7,280,000	7,280,000	2024	2025
	5162567751	Wastewater Outstation Upgrades - Asset Management Program	-	-	-	-	-	-	-	-	4,500,000	4,500,000	27,000,000	27,000,000	31,500,000	31,500,000	2024	2046
	5165522888	Mill St Bridge - Sanitary Sewer Erosion Protection	-	-	350,000	350,000	-	-	-	-	-	-	-	-	350,000	350,000	2022	2022
Rehabilitation / Renovation Total			461,127,000	428,122,000	83,780,253	70,567,138	46,955,000	41,560,000	54,380,000	53,856,470	64,545,000	64,021,470	235,980,000	232,838,820	946,767,253	890,965,898		
Relocation	5162255900	EA - McMaster Innovation Park (MIP) Storm Sewer Relocation	-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000	2022	2022
Relocation Total			-	-	5,650,000	5,650,000	-	-	-	-	-	-	-	-	5,650,000	5,650,000		
Replacement	5161966151	SCADA Maintenance Program	1,650,000	1,650,000	150,000	150,000	275,000	275,000	275,000	275,000	900,000	900,000	2,275,000	2,275,000	5,525,000	5,525,000	2019	2046
	5161968920	Fennell/Greenhill Drop Shaft	-	-	-	-	-	-	-	-	-	-	14,850,000	14,850,000	14,850,000	14,850,000	2019	2030
	5162160577	Mainline Sewer Condition Assessment for Compliance & Regulations	100,000	100,000	219,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	600,000	600,000	1,219,000	1,100,000	2021	2046
	5162160711	PW Capital Water Consumption Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	1,500,000	2,750,000	2,750,000	2021	2046
	5162160820	Open Cut Repairs for CIPP Program	560,000	500,000	620,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	5,680,000	5,500,000	2021	2046
	5162161740	Unscheduled Manhole and Sewermain Replacement Program	610,000	610,000	750,000	750,000	650,000	650,000	500,000	500,000	500,000	500,000	3,000,000	3,000,000	6,010,000	6,010,000	2021	2046
	5162171074	Contingency for Unscheduled Works Program	-	-	180,000	180,000	-	-	180,000	180,000	-	-	540,000	540,000	900,000	900,000	2022	2046
	5162367065	Replacement of the Eastport Sanitary Pumping Station	-	-	-	-	1,100,000	1,100,000	280,000	280,000	550,000	550,000	550,000	550,000	2,480,000	2,480,000	2023	2026
	5162418420	Grindstone Creek Utility Bridge	-	-	-	-	-	-	3,500,000	3,500,000	-	-	-	-	3,500,000	3,500,000	2024	2028
Replacement Total			3,170,000	3,110,000	2,169,000	1,930,000	2,875,000	2,875,000	5,585,000	5,585,000	2,800,000	2,800,000	26,315,000	26,315,000	42,914,000	42,615,000		
Safety/ Security	5162266351	Woodward SCADA OT (Operating Technology) Security Program	-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000	2022	2022
Safety/ Security Total			-	-	125,000	125,000	-	-	-	-	-	-	-	-	125,000	125,000		
Staffing Costs	5162101099	Engineering Services Staffing Costs - Wastewater	4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000	2021	2046
Staffing Costs Total			4,700,000	4,700,000	4,500,000	3,922,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	27,000,000	27,000,000	49,700,000	49,122,000		
Grand Total			548,387,000	437,402,000	169,020,253	105,784,138	82,005,000	54,946,470	106,565,000	76,931,470	93,275,000	86,711,470	643,149,000	348,743,820	1,642,401,253	1,110,519,368		