

Toronto Water 2019 and 2020-2029 Budget Adjustments

Schedule A- Part A- Toronto Water 2019 and Approved 2020-2029 Budget Adjustment Reallocations due to Accelerations

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
BUSINESS & TECHNOLOGY	CPW039-10	SCADA UPGRADES FOR WWT	40,159,703	307,672	0	-307,672
TRUNK WATERMAINS	CPW058-18	JOS - REVENUE METER REPLACEMENT	8,783,500	414,074		-414,074
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW060-08	ROSEHILL RESERVOIR	35,844,043	1,311,948	0	-1,311,948
HARRIS WATER FILTRATION PLANT	CPW061-15	HARRIS FILTERS REHABILITATION - PILOT	13,129,138	571,008	-571,008	0
ISLAND WATER FILTRATION PLANT	CPW064-17	AMMONIA AND FLUORIDE SYSTEM UPGRADES	15,396,850	1,286,952	-600,000	-686,952
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW069-01	WATER SUSTAINABILITY PROGRAM (STANDBY POWER - ELLESMERE)	28,700,701	852,422	-852,422	0
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW069-03	STANDBY POWER - ROSEHILL	12,258,646	1,505,622	-885,000	-620,622
WATERMAIN REPLACEMENT	CPW542-23	DIST W/M REPLACEMENT - 2018	88,766,045	4,060,045	-500,000	-3,560,045
WATERMAIN REPLACEMENT	CPW542-24	WATERMAIN UPGRADES - 2018	23,104,937	1,338,937	0	-1,338,937
WATERMAIN REPLACEMENT	CPW542-25	DIST W/M REPLACEMENT - 2019-2021	306,283,635	8,945,635	-7,000,000	-1,945,635
WATERMAIN REPLACEMENT	CPW542-26	WATERMAIN UPGRADES - 2019-2021	82,620,631	7,177,630	-2,700,000	-4,477,630
WATERMAIN REHABILITATION	CPW543-04	WATERMAIN STRUCTURAL LINING	539,668,331	4,301,709	-1,000,000	-3,301,709
WATER SERVICE REPLACEMENT	CPW544-15	WATER SERVICE REPAIR - WM REHAB PROGRAM	55,094,884	509,005	-351,000	-158,005
WATER SERVICE REPLACEMENT	CPW544-19	2018 WATER SERVICE REPLACEMENT - SOGR	20,008,059	253,510	-253,510	0
WATER SERVICE REPLACEMENT	CPW544-21	2019-2021 WATER SERVICE REPLACEMENT - SOGR	66,382,299	7,538,299	-1,000,000	-6,538,299
WATERMAIN REPLACEMENT	CPW701-01	LAWRENCE ALLAN REVITALIZATION PLAN - INTERNAL	17,172,258	1,118,207	-1,118,207	0
HUMBER WASTEWATER TREATMENT PLANT	CWW005-123	EQUIPMENT REPLACEMENT	19,064,295	1,988,343	-1,000,000	-988,343
TRUNK SEWERS	CWW014-17	TRUNK SEWER REHABILITATION - 2018	173,862,817	1,575,402	-560,000	-1,015,402
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-28	DIGESTERS CLEANING REHAB - TANKS 14, 16, 13	20,922,346	1,307,308	-600,000	-707,308
YARDS & FACILITIES	CWW021-03	LAB & EMP FACILITIES	35,610,694	615,765	-615,765	0
BUSINESS & TECHNOLOGY	CWW034-15	PCS UPGRADES FOR WASTEWATER TREATMENT	15,510,636	1,354,959	0	-1,354,959

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW036-15	LIQUID TRAIN - ENGINEERING	51,006,277	553,930	0	-553,930
HUMBER WASTEWATER TREATMENT PLANT	CWW037-12	HVAC UPGRADES	14,754,463	2,301,665	-750,000	-1,551,665
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW039-02	DISINFECTION SYSTEM CONSTRUCTION	218,529,236	4,186,731	0	-4,186,731
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW039-06	OUTFALL CONSTRUCTION	280,990,426	1,870,687	0	-1,870,687
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW040-02	INTEGRATED PUMPING STATION (IPS) - ENGINEERING	74,549,126	1,671,428	-1,671,428	0
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW040-07	P BLDG HEADWORKS UPGRADE	144,675,183	920,435	0	-920,435
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW041-01	MISC MECH REHAB	15,699,537	481,728	-481,728	0
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW047-02	BMP IMPLEMENTATION & ENHANCEMENTS - ENGINEERING	23,220,726	1,062,586	-200,000	-862,586
HUMBER WASTEWATER TREATMENT PLANT	CWW052-03	SECONDARY TREATMENT UPGRADES - SOUTH - CONSTRUCTION	161,096,378	4,056,968	-2,017,000	-2,039,968
BASEMENT FLOODING	CWW421-11	BASEMENT FLOODING RELIEF - TUNNEL PROJECT	35,646,667	456,175	-456,175	0
BASEMENT FLOODING	CWW421-13	BASEMENT FLOODING DESIGN - GROUP 3	13,060,504	802,070	-802,070	0
BASEMENT FLOODING	CWW421-15	BASEMENT FLOODING DESIGN - GROUP 4 (ENGINEERING)	292,108,042	5,354,110	0	-5,354,110
SEWER REHABILITATION	CWW465-09	SEWER REHABILITATION - CWD	268,266,112	6,633,695	-1,000,000	-5,633,695
LINEAR ENGINEERING	CWW470-02	CONSULTING FEES	110,600,694	1,996,216	-500,000	-1,496,216
SEWER REPLACEMENT	CWW472-20	SEWER REPLC - 2018 PROGRAM	7,915,922	258,211	-258,211	0
NEW SEWERS	CWW477-01	GEORGETOWN SOUTH CITY INFRASTRUCTURE UPGRADES	28,965,000	565,000	-565,000	0
SUB-TOTAL			3,359,428,741	81,506,087	(28,308,524)	(53,197,563)

*No change in approved project costs.

Schedule A - Part B- Toronto Water 2019 and Approved 2020-2029 Budget Adjustment Reallocations due to Deferrals

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
BUSINESS & TECHNOLOGY	CPW039-20	TECHNOLOGY IMPROVEMENTS	5,969,972	-1,611,028	1,611,028	0
ISLAND WATER FILTRATION PLANT	CPW043-07	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	7,893,480	-483,000	358,000	125,000
TRUNK WATERMAINS	CPW058-15	TRANSMISSION SYSTEM AUTOMATION	7,567,403	-354,722	0	354,722
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW060-01	TRANS FACILITIES REHAB	16,976,172	-808,535	250,000	558,535
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW060-11	ROSEHILL PS REHAB	5,342,721	-323,000	223,000	100,000
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW060-13	PUMP REPLACEMENTS	1,465,887	-729,000	250,000	479,000
WATER TREATMENT - STORAGE & PUMPING STATIONS	CPW060-16	PS REHAB - PHASE 2 - CONSTRUCTION	20,220,316	-716,683	400,000	316,683
HARRIS WATER FILTRATION PLANT	CPW061-19	HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	913,681	-165,729	0	165,729
HARRIS WATER FILTRATION PLANT	CPW061-20	CONTROL ROOM RELOCATION	1,238,602	-703,645	300,000	403,645
CLARK WATER FILTRATION PLANT	CPW063-10	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	83,316,554	-700,000	350,000	350,000
TRUNK WATERMAINS	CPW066-07	JOS - WM from Scar PS to St. Clair and Midland (CONST)	36,398,718	-1,593,282	0	1,593,282
WATER TREATMENT PLANTS - PLANTWIDE	CPW070-06	STANDBY POWER - PHASE 2 - ENG	9,125,068	-196,958	0	196,958
WATER TREATMENT PLANTS - PLANTWIDE	CPW070-08	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS AT WTP	2,734,835	-140,000	0	140,000
WATER TREATMENT PLANTS - PLANTWIDE	CPW070-09	SOURCE WATER PROTECTION - LAKE ONTARIO COLLABORATIVE	1,766,381	-113,618	0	113,618
AUTOMATED METER READING	CPW532-02	AUTOMATED METER READING SYSTEM	233,511,970	-1,828,191	1,304,000	524,191
LINEAR ENGINEERING	CPW537-03	CAPITAL PROGRAMMING & FACILITY ASSET PLANNING	11,814,726	-386,000	0	386,000
LINEAR ENGINEERING	CPW537-08	WATER LOSS REDUCTION STRATEGY	5,007,484	-524,830	0	524,830
LINEAR ENGINEERING	CPW537-09	JOS UPDATE PHASE II	1,849,551	-70,000	70,000	0
WATERMAIN REPLACEMENT	CPW542-16	WATERMAIN REPLACEMENT - METROLINX	4,787,000	-690,000	0	690,000
WATERMAIN REHABILITATION	CPW543-03	CUT REPAIR	49,383,102	-847,048	0	847,048
WATERMAIN REHABILITATION	CPW543-05	CATHODIC PROTECTION	33,157,144	-640,000	0	640,000
WATERMAIN REHABILITATION	CPW543-07	PRV INSPECTION & RENEWAL	1,670,632	-409,323	0	409,323
WATER SERVICE REPLACEMENT	CPW544-03	WATER SERVICE REPAIR - LEAD PROGRAM	163,047,362	-2,720,000	1,360,000	1,360,000

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
WATER SERVICE REPLACEMENT	CPW544-10	WSR CUT REPAIR	42,427,713	-1,404,577	377,000	1,027,577
WATER SERVICE REPLACEMENT	CPW544-17	WSR CUT REPAIRS WITH WM SL	5,337,011	-403,950	0	403,950
WATERMAIN REPLACEMENT	CPW545-01	ROAD RESTORATION	65,109,172	-1,131,431	0	1,131,431
LINEAR ENGINEERING	CPW545-02	CONSULTING FEES	151,210,181	-647,591	0	647,591
NEW CONNECTIONS	CPW600-02	NEW SERVICE CONNECTIONS - SITE SERVICING	300,229,565	-766,751	0	766,751
NEW CONNECTIONS	CPW600-03	NEW SERVICE CONNECTIONS - CUT REPAIRS	116,406,258	-717,069	350,000	367,069
WATERMAIN REPLACEMENT	CPW700-02	REGENT PARK CAPITAL CONTRIBUTION - PHASE 3 - 5	3,861,995	-188,437	0	188,437
TRUNK SEWERS	CWW014-15	TRUNK SEWER REHABILITATION - 2014	71,068,939	-3,219,953	1,583,000	1,636,953
TRUNK SEWERS	CWW014-16	TRUNK SEWER REHABILITATION - 2016	40,680,925	-795,000	495,000	300,000
TRUNK SEWERS	CWW014-18	TRUNK SEWER REHABILITATION - 2019	81,817,759	-460,000	0	460,000
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-08	P BLDG HEADWORKS - ENGINEERING DESIGN & CONTRACT ADMIN	18,872,764	-646,108	150,000	496,108
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-24	FERROUS UPGRADES	29,736,853	-1,550,058	650,000	900,058
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-27	POLYMER UPGRADE	106,284,568	-222,420	0	222,420
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-34	D BUILDING PHASE 2	44,466,106	-252,000	52,000	200,000
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW019-46	HEATING AND AIR SYSTEMS	18,980,929	-183,071	0	183,071
YARDS & FACILITIES	CWW034-01	DIVISIONAL SECURITY	12,363,017	-434,636	434,636	0
YARDS & FACILITIES	CWW034-06	FACILITY RENOVATION	12,135,589	-1,684,020	1,200,000	484,020
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW036-13	DIGESTER CLEANING, REHAB AND IMPROVEMENTS #4-7	1,208,220	-115,000	0	115,000
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW036-18	LIQUID TRAIN REPAIRS - PHASE 1	98,614,143	-998,672	998,672	0
HUMBER WASTEWATER TREATMENT PLANT	CWW037-10	OPERATIONS CONTROL CENTRE - ENGINEERING	2,246,785	-510,000	100,000	410,000
HUMBER WASTEWATER TREATMENT PLANT	CWW037-16	REPLACEMENT OF WASTE GAS BURNERS	7,461,110	-1,939,000	0	1,939,000
HUMBER WASTEWATER TREATMENT PLANT	CWW037-18	SERVICE REHAB AND UPGRADES	31,205,161	-136,838	0	136,838
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW038-08	BLOWER BLDG & OLD NORTH SUBSTATION IMPROVEMENTS	12,535,590	-750,000	0	750,000
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW040-08	INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	635,913,860	-1,923,140	682,000	1,241,140

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW040-10	M & T PUMPING STATION CRITICAL REPAIRS	7,862,998	-328,779	328,779	0
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW042-01	D BUILDING TREATMENT & BIOFILTER	84,086,094	-170,000	170,000	0
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW042-04	BIOFILTERS UPGRADE & REPLACEMENT	24,142,617	-1,170,676	0	1,170,676
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW043-04	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	17,765,951	-410,000	0	410,000
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW043-05	PELLETIZER TRUCK LOADING FACILITY UPGRADES	21,809,416	-280,000	120,000	160,000
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW043-06	WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION	175,171,088	-421,059	0	421,059
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW045-02	ODOUR CONTROL UPGRADES - PHASE 1 CONSTR	78,602,635	-394,920	394,920	0
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW046-01	NTPP - ELECTRICAL UPGRADES - ECAR	12,308,261	-514,000	514,000	0
ASHBRIDGES BAY WASTEWATER TREATMENT PLANT	CWW046-04	NTPP - PROCESS IMPROVEMENTS	23,025,907	-135,000	0	135,000
HIGHLAND CREEK WASTEWATER TREATMENT PLANT	CWW047-03	BMP IMPLEMENTATION - CONSTRUCTION	105,461,908	-2,428,091	2,428,091	0
HUMBER WASTEWATER TREATMENT PLANT	CWW049-01	GAS COMPRESSOR SYSTEM UPGRADES	31,825,098	-110,000	0	110,000
HUMBER WASTEWATER TREATMENT PLANT	CWW050-01	ODOUR CONTROL IMPLEMENTATION - PHASE 1	57,877,027	-1,192,730	200,000	992,730
BASEMENT FLOODING	CWW421-08	BASEMENT FLOODING DESIGN - GROUP 2	29,746,839	-332,000	100,000	232,000
BASEMENT FLOODING	CWW421-14	BASEMENT FLOODING STUDIES & EA'S - CITY WIDE IMPLEMENTATION	72,296,632	-1,565,472	1,565,472	0
BASEMENT FLOODING	CWW421-16	BASEMENT FLOODING FLOW MONITORING	6,798,916	-480,000	480,000	0
BASEMENT FLOODING	CWW421-17	BASEMENT FLOODING RELIEF - GROUP 4 (CONSTRUCTION)	491,433,654	-3,214,523	0	3,214,523
BASEMENT FLOODING	CWW421-18	BASEMENT FLOODING RELIEF - GROUP 3 (CONSTRUCTION)	34,581,756	-398,188	0	398,188
WET WEATHER FLOW	CWW441-06	NORTH TORONTO CSO CONSTR	12,532,308	-177,000	177,000	0
WET WEATHER FLOW	CWW441-12	Bonar Creek SWMF Construction	39,632,668	-360,000	220,000	140,000
WET WEATHER FLOW	CWW447-01	SWM INA/EA	11,166,356	-817,000	438,000	379,000
WET WEATHER FLOW	CWW447-12	STORM WATER POND ASSESSMENT & CLEANING	7,967,015	-195,013	0	195,013
WET WEATHER FLOW	CWW447-13	ASHBRIDGES BAY LANDFORMS	91,166,798	-6,533,205	1,665,248	4,867,957

Program	WBS#	Sub-project Description	Total Project Costs*	2019 Proposed Reallocation	2020 Proposed Reallocation	2021 Proposed Reallocation
WET WEATHER FLOW	CWW447-17	GREEN STREETS	3,474,684	-899,749	606,000	293,749
LINEAR ENGINEERING	CWW452-04	SEWER ASSET PLANNING	59,959,912	-432,094	322,094	110,000
LINEAR ENGINEERING	CWW452-05	SEWER SYSTEM INSPECTION	133,574,483	-306,935	0	306,935
LINEAR ENGINEERING	CWW452-06	PPD - INFRASTRUCTURE PLANNING STUDIES	932,943	-133,000	0	133,000
SEWER REHABILITATION	CWW465-06	SEWER REHABILITATION	306,942,780	-2,514,320	2,514,320	0
PUMPING STATIONS AND FORCEMAINS	CWW465-08	GROUP 5 SEWAGE PUMPING STATION UPGRADES	15,673,578	-4,120,297	40,416	4,079,881
SEWER REHABILITATION	CWW465-10	SEWER REHABILITATION - CUT REPAIRS	13,130,527	-525,473	0	525,473
WET WEATHER FLOW	CWW466-06	STUDIES, EAs, MASTER PLANS	6,613,255	-688,000	0	688,000
WET WEATHER FLOW	CWW466-07	WATERCOURSE - ENGINEERING	6,989,916	-328,452	0	328,452
WET WEATHER FLOW	CWW466-08	CRITICAL REPAIRS	6,862,173	-1,128,759	0	1,128,759
WET WEATHER FLOW	CWW466-09	EMERGENCY EROSION CONTROL	6,529,357	-1,976,848	376,848	1,600,000
WET WEATHER FLOW	CWW466-11	WATERCOURSE - CONSTRUCTION	27,067,750	-747,249	0	747,249
SEWER REPLACEMENT	CWW472-11	EBF REPORT	12,499,868	-1,000,000	1,000,000	0
SEWER REPLACEMENT	CWW472-12	EBF REPORT	17,251,047	-549,000	549,000	0
SEWER REPLACEMENT	CWW472-15	SEWER REPLACEMENT - METROLINX	10,495,703	-613,000	0	613,000
PUMPING STATIONS AND FORCEMAINS	CWW472-18	FORCEMAIN REPLACEMENT - 2016	19,660,407	-353,577	0	353,577
SEWER REPLACEMENT	CWW472-21	CSP RENEWAL	1,096,718	-277,837	0	277,837
SEWER REPLACEMENT	CWW472-22	SEWER REPLC - 2019 -2021 PROGRAM	69,494,403	-1,085,596	500,000	585,596
WET WEATHER FLOW	CWW473-04	TRCA - SCARBOROUGH WATERFRONT WEST EA	800,000	-800,000	50,000	750,000
PUMPING STATIONS AND FORCEMAINS	CWW476-05	SPS UPGRADES - GROUP 6	24,635,323	-192,657	0	192,657
WET WEATHER FLOW	CWW480-02	DCW - PHASE 1 - OFFLINE STORAGE TANK AT SHEPPARD/LESLIE	28,315,868	0	0	0
WET WEATHER FLOW	CWW480-03	Don & Waterfront Trunk/CSO Construction - PHASE 1	408,614,640	-2,640,274	0	2,640,274
WET WEATHER FLOW	CWW480-04	DCW - PHASE 1 - ADDITIONAL SCOPE	9,190,657	-731,000	0	731,000
SUB-TOTAL			5,242,400,908	(81,506,087)	28,308,524	53,197,563

*No change in approved project costs.

Schedule A- Part C - Toronto Water 2019 Budget Adjustment Reallocations

Program	WBS#	Sub-project Description	Project Costs	2019 Proposed Reallocation	Revised Project Costs	Comments
BASEMENT FLOODING	CWW421-01	BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	70,623,983	2,202,315	72,826,298	Higher than forecasted demand for the Basement Flooding Subsidy Program
SUB-TOTAL			70,623,983	2,202,315	72,826,298	
LINEAR ENGINEERING	CPW545-10	ECS SALARIES	88,767,139	(828,549)	87,938,590	Lower than forecasted salary recoveries in 2019.
SEWER REPLACEMENT	CWW470-01	ROAD RESTORATION	9,150,861.00	(545,216)	8,605,645	Lower volume of invoicing for permanent restoration.
LINEAR ENGINEERING	CWW470-07	ECS SALARIES	89,281,117	(828,550)	88,452,567	Lower than forecasted salary recoveries in 2019.
SUB-TOTAL			187,199,117	(2,202,315)	184,996,802	