2018 BUDGET REPORT Revised

Corporation of Hamilton

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Executive Summary

The Corporation of Hamilton ("The Corporation") is pleased to present a balanced budget for the financial year ending December 31, 2018. A balanced budget is obtained by determining the sources of funds (projected revenue and cash on hand at the beginning of the year) and then determining the uses of those funds which include both operating expenses and capital projects. (See Cash flow). The operations budget is fairly close to the minimum level needed to provide services so in most cases a balanced budget is obtained by delaying capital projects. This year would have been the first time that the Corporation presented a three year balanced budget, however, while preparing the budget it has become evident that the Corporation can no longer delay some of the capital projects and we will not be able to pay for these projects using current income alone. This can be seen in the 2019 and 2020 budgets which show that uses of funds far exceed the sources of funds.

Additional Funding

During 2018 the Corporation will explore options for funding these projects from other sources.

Sewage Treatment

The Corporation has an aging sewage plant which will require upgrading over the next few years.

Projected Costs for the Sewage system are:

Year	Amount	Description
2018	$ 750,000	Design of primary treatment solution
2019	$ 7,500,000	Primary Treatment Solution
2021	$ 10,000,000	Replace outfall pipes

Car Park Resurfacing

The Corporation will continue to set aside $600,000 each year in the operations budget for the resurfacing of the streets. This, however, does not provide enough funds to also resurface the car parks. Additional funding will be sought for the car parks.

2018 Capital Projects

Vehicles

In all budgets going forward the Corporation will set aside funds to replace vehicles. This will ensure our fleet of vehicles are kept up to date and eliminate any disruptions to service due to equipment failure from aging vehicles.

Traffic Lights

The traffic light system is over 30 years old and has to be replaced. In the 2018 funds have been set aside to replace traffic lights at two intersections. The city will also implement the Split Cycle Offset Optimisation Technique (SCOOT) system which will allow the traffic lights to communicate and improve the flow of traffic. SCOOT automatically adjusts the traffic signal delays to adapt to traffic conditions, using data from traffic sensors.

Street light and furniture

Funds have also been allocated to continuously improving street lights and furniture. Street furniture is the items for decorating the streets such as bins, benches and planters.

Property

The Fenchurch property will be renovated this year with the aim of improving the revenue that the Corporation receives from this property.

2018 Operations Budget

Revenue

By the end of 2017 Car park barriers will have been installed in 5 car parks. (Number 1, Par-La-Ville, City Hall, Bulls Head and Elliott Street car parks) The budget reflects that we expect to see an increase in car park revenue. The Traffic Offences and Procedure Amendment and Validation Act 2015 (TOPA) was effective from June 1st 2017. The 2018 Budget reflects that we expect to receive revenue from parking tickets issued on the streets of Hamilton.

Tax Revenue is expected to remain fairly consistent with prior years. No rate increase has been proposed for this year.

Wharfage and Dock Storage revenue were fairly high during the first six months of the year due to America's Cup activity we expect the revenue in 2018 to be closer to 2016 levels.

Staff Expenses

We have budgeted for 6 new staff members. Details of the increases by department can be found in the number of employees by department schedule on Page 6 of this report.

Administrative and Operating Expenses

As in prior year no significant changes have been made to the services provided to the city so the operations expense budgets have remained fairly consistent from one year to the next with the exception of legal fees which have increased due to legal issued related to the MIF case.

2018 Events

Back on the events calendar in 2018 will be the Fashion Festival. There will be two Food Festivals in 2018 with one in the spring and another in the fall. In 2017 the Corporation took over the responsibility of running the boat parade which will continue to be held every other year. In the alternative years the Corporation will hold New Year's Eve events. Bonfires & BBQ's and Movie Lounge are two popular events that were started in 2017. They will return to the Events calendar in 2018.

In October 2017 a tent has been erected in No 1 car park. In addition to being used for the food and fashion festivals this site will be rented out to third parties for their events. This should increase revenues as well as adds vibrancy to the area.

The residents committee has also asked for events to be added to the budget. In 2018 the residents committee will host quarterly safety meetings with the residents to facilitate the creation of a City Neighborhood Watch. They will also create historical education walking tours of the city as well as a design and naming contest for city neighborhoods.

Issues

The city will continue to try to resolve several issues which are outstanding with the Bermuda Government.

Leases

The following leases are outstanding with the Bermuda Government.

1) Fire station- Property has been occupied rent free since the lease ended in 2008. The previous annual rent was $1.00
2) Bus Terminal – Lease expired December 2016.
3) Ferry Terminal
4) Customs House

The Corporation will continue to reach out to the Bermuda Government to get these leases resolved.

Ordinances

During 2017 the Corporation was not successful in getting the Bermuda Government to pass the Sewage Tax Ordinance. The act would have imposed an additional tax on those customers who use the sewage system. All funds from the tax would have been isolated and used solely for projects related to the sewage system. Since we have not been able to get the act passed the projected revenue from that tax has not been included in the budget. The Corporation will continue to push to get this ordinance passed.

In 2017 the Corporation purchased a new trash truck and new equipment was added to another trash truck. Wheelie bins were also purchased in anticipation of rolling out a wheelie bin initiative for the entire city. All commercial and residential properties would have been required to place all trash in the wheelie bins. This initiative has stalled as the Garbage Ordinance Amendment has not been passed.

The city has also not been able to get the Parking Ordinance passed by the Bermuda Government.

Number of Employees by Department

Department	2018			
	Beginning (2017)	New Hires	Terminations	Ending (2018)
City Hall	1			1
Parks	16	2	(1)	17
Sanitation	28	1	(1)	28
Sewer	2			2
Street	18	1		19
Wharf	1			1
Works Depot	2			2
Car Park	2	1		3
Engineering – Management & Admin	11			11
Total Engineering	81	5	(2)	84
CEO and Administration	4			4
Events	5			5
Finance	9			9
HR	2	1		3
Total Administration	20	1	-	21
Total Employees	101	6	(2)	105

Staff changes in 2018

Parks	2	Foreman and Aborist to be added. One retiree
Sanitation	1	Foreman to be added. One Retiree
Streets	1	Foreman to be added
Car Park	1	Electrical & Engineering Technician to maintain traffic systems
Human Resources	1	HR would like to hire an HR administrator
	6	

Budget Reports

Cash Flow

Budget for 2018, 2019 and 2020

		2018 Budget	2019 Budget	2020 Budget
Source of Funds				
Projected Revenue		23,176,894	23,330,644	23,492,082
Projected Opening Cash		3,900,000	527,086	(9,327,476)
Total Source of funds		27,076,894	23,857,730	14,164,606
Use of Funds				
Capital Expenditures				
	New Capital Projects	1,000,000	9,255,000	6,215,000
	Vehicle Renewals	445,000	170,000	250,000
	Capital Renewals	4,379,500	2,941,000	3,895,000
	Total Capital Expenditures	5,824,500	12,366,000	10,360,000
Operating Expenses - Cash basis (see below)				
	Staff Costs	10,425,116	10,490,150	10,642,958
	Admin & Operating	9,745,717	9,173,717	8,397,717
	Bank Service charges	86,400	87,264	88,140
	Remove non cash item	(600,000)		
Loan Payments	Loan - Clarien	1,068,075	1,068,075	1,068,075
Total use of Funds		26,549,808	33,185,206	30,556,890
Cash available at end of year		527,086	(9,327,476)	(16,392,284)

Note: The Corporation of Hamilton needs to do several large projects in the next three years and we will not be able to complete those projects using current income. Funding will need to be obtained from other sources.

Operations Budget 2018, 2019 and 2020

Statement of Current Fund Revenue and Expenditures

	Actual		Projected	2018 Budget	2019 Budget	2020 Budget
	2015	2016	2017	Revised	Revised	Revised
Revenues						
Banners	$6,000	$4,883	$3,211	3,000	3,000	3,000
Car parks	3,362,750	2,882,818	2,989,005	3,898,969	4,052,719	4,214,157
Docks storage	100	188,424	322,938	201,000	201,000	201,000
Pension Surplus	6,284	5,292	2,000	4,000	4,000	4,000
Encroachments	30,300	31,217	31,300	31,300	31,300	31,300
Goods sold	9,236	8,555	2,190	2,000	2,000	2,000
Interest	946	12,012	12,986	18,444	18,444	18,444
Licences and permits	314,350	372,318	374,896	359,380	359,380	359,380
City Maintenance - PTB Cleaning	49,440	49,440	49,590	49,440	49,440	49,440
Miscellaneous	147,439	13,362	9,967	2,460	2,460	2,460
Rents	990,942	1,042,210	1,089,346	1,083,959	1,083,959	1,083,959
Sewerage	2,250,902	2,284,546	2,286,433	2,284,546	2,284,546	2,284,546
Tax revenue	8,526,787	8,588,848	8,529,663	8,553,396	8,553,396	8,553,396
Wharfage - Government	6,054,443	6,322,083	6,582,652	6,331,000	6,331,000	6,331,000
Wharfage - Ships	359,333	358,940	390,988	354,000	354,000	354,000
Total Revenue	**22,109,252**	**22,164,946**	**22,677,165**	**23,176,894**	**23,330,644**	**23,492,082**
Expenses						
Staff costs						
Gross wages & salaries	4,802,907	4,501,410	5,031,983	5,069,500	5,067,500	5,085,500
Overtime	611,575	663,372	712,917	751,280	741,280	741,280
Social security	176,318	174,462	176,796	186,408	186,408	186,408
Health insurance	799,664	764,220	939,835	768,460	768,460	768,460
Life insurance	109,711	101,001	106,470	102,000	102,000	102,000
Long term disability	84,662	77,984	92,721	88,280	88,280	88,280
Payroll tax	302,948	316,231	359,957	331,758	331,758	331,758
Pension	556,521	469,754	502,363	481,576	481,576	481,576
Staff costs and fees	23,186	30,181	9,605	26,800	26,800	26,800
Management and Admin salaries	2,601,953	2,535,053	2,620,663	2,619,054	2,696,088	2,830,896
Total Staff Cost	**10,069,446**	**9,633,668**	**10,553,309**	**10,425,116**	**10,490,150**	**10,642,958**
Administrative & operating						
Advertising	127,445	89,921	66,972	131,500	147,500	143,500
Audit fees	109,940	91,220	97,045	93,000	93,000	93,000
Computer expenses - hardware	965				-	-
Computer expenses - software	161,719	127,903	93,138	120,000	120,000	120,000
Contracted Services	1,467,459	1,014,120	1,579,130	1,703,200	1,703,200	1,703,200
Debt collection costs	115,375	172,866	129,768	180,000	180,000	180,000
Electricity	1,105,883	1,096,757	1,021,867	1,112,000	1,112,000	1,112,000
Events	468,936	460,732	568,081	677,000	767,000	695,000
Fuel	117,133	111,443	90,816	110,000	110,000	110,000
Gifts and donations	4,950	5,618	1,806	50,000	20,000	20,000
Government charges	589,637	617,984	624,741	610,000	610,000	610,000
Insurance	402,043	416,122	420,570	445,000	445,000	445,000
Legal fees	446,504	1,179,420	1,019,650	1,005,000	1,005,000	305,000
Liquidators Fees		400,000			-	-
Maintenance agreements	173,951	164,879	205,274	188,325	188,325	188,325
Materials and equipment/ tool purchase	1,291,065	1,472,701	1,210,438	1,234,500	1,183,500	1,183,500
Miscellaneous	11,489	3,346	1,190		-	-
Meetings - Hospitality Expenses	4,499	7,505	9,369	9,000	9,000	9,000
Members Expenses	11,815	17,949	21,250	30,000	30,000	30,000
Office supplies	79,868	67,523	74,974	103,300	103,300	103,300
Professional fees	51,047	34,092	9,721	6,000	6,000	6,000
Security	757,630	758,986	779,674	813,000	813,000	813,000
Telephone and Internet	181,796	148,762	161,008	160,392	160,392	160,392
Temporary staff	6,130	4,365	46,516	62,000	65,000	65,000
Training	67,976	90,430	59,653	75,000	75,000	75,000
Travel	33,015	37,500	52,852	50,000	50,000	50,000
Uniforms and protective clothing	69,811	70,020	48,908	62,500	62,500	62,500
Water	98,810	125,522	164,322	115,000	115,000	115,000
Reserve for potential liability	650,781	625,904	436,000	600,000	-	-
Derecognition of Liability		(18,752,548)				
Total Admin & Operating	**8,607,670**	**(9,338,957)**	**8,994,735**	**9,745,717**	**9,173,717**	**8,397,717**
Depreciation	1,575,653	1,646,562	1,676,064	1,669,608	1,669,608	1,669,608
Finance				-	-	-
Interest	485,930	468,191	361,026	363,207	363,207	363,207
Interest on Guarantee (MIF)	752,548		220,004	-	-	-
Bank service charges	88,197	84,270	92,548	86,400	87,264	88,140
Total Finance Charges	**1,326,676**	**552,461**	**673,578**	**449,607**	**450,471**	**451,347**
Total Expenses	**21,579,445**	**2,493,735**	**21,897,687**	**22,290,048**	**21,783,946**	**21,161,630**
Surplus/(Deficit)	**529,807**	**19,671,211**	**779,478**	**886,846**	**1,546,698**	**2,330,452**

Corporation of Hamilton
2018 Budget
New Capital Projects

	PROPOSED NEW CAPITAL PROJECTS	TYPE	Code	2018	2019	2020	
				Revised Budget	Revised Budget	Revised Budget	
2	CCTV camera installations	Security	A	-	100,000	-	Install existing cameras and purchase additonal cameras
4	Sewage Treatment - Primary treatment	Sewer	C	750,000	7,500,000	-	Project as detailed in AE Proposal
6	Install sewage pump station and remove cess pit	Sewer	C	-	80,000	-	Install a packaged ejector station to collect all wastewater from the bathrooms and concession and pipe to nearest city sewer.
7	Barrs Bay Park - Repurpose building	Facilities	D1	-	150,000	-	Refurbish building to accommodate new use. Uses have not yet been determined
9	Stair access on Bulls Head / Elliott Street	Parking	D1	-	140,000	-	Provide pedestrian access to Bull's Head and eliminate conflict with vehicles on ramp.
10	Permanent cover over Reviewing Stand	Street	D1	-	100,000	-	Remove need for fabric covers with limited life span
11	Reid Street improvements	Street	D2	-	200,000	100,000	Install pedestrian improvements as per the Reid Street plan
12	#5 Car Park conversion to Green Park	Parks	D2	-	150,000	-	Repurpose #5 Car park for use as a park amenity
14	Bulls Head Car Park Bathroom	Facilities	D2	-	100,000	-	Install a public washroom at the multistorey car park to address current sanitary issues
15	Barrs Bay Park - Marina	Facilities	D2	-	-	850,000	Install a marina to accommodate day parking for boats wishing to access the city
16	Barrs Bay Park - Install public washrooms	Facilities	D2	-	80,000	-	Install public washrooms in the existing gardening shed.
17	Fort Hamilton - Install event lighting	Parks	D2	-	150,000	-	Install lighting to allow for evening and night events at the park. Currently there is no lighting at all.
18	Fort Hamilton - Remove and replace asphalt at entrance	Parks	D2	-	80,000	-	Asphalt is degrading and will need to be replaced. As aphalt is not in keeping with the historical character of the Fort we are proposing concrete and brick paving
24	Tree grates	Parks	D2	-	100,000	50,000	For installation through out city as we install new street trees
28	Washington Lane refurbishment	Street	D2	-	200,000	-	Remove and replace concrete pavers with brick pavers
29	Harbour Boardwalk	Street	D2	-	-	200,000	Design and construct amenity linking Front street together
30	Theatre lighting - upgrade to LED	Facilities	D2	-	50,000	15,000	Project to completely convert lighting over to new and inproved LED lighting fixtures. Cost saving in power consumption from both lights and AC.
31	Car Park control equipment	Parking	E	50,000	-	-	Continuation of providing barrier systems in P&D car parks
33	Fort Hamilton - Install potable water system	Parks	E	-	75,000	-	Install water service to Fort to remove need to use water truck to fill tanks that have no catchment
36	Bulls Head - Solar Panels	Misc	E	-	-	5,000,000	Install a solar farm to provide power to local buildings or grid
37	Solar panels for City Properties	Misc	E	200,000		-	Propose using Front St Pump Station, Hamilton Hall, Stevedoring House, Works Depot. No costs have been gathered for individual projects. Return on Investment (ROI) is currently 7 years if all power produced is consumed on site.
38				-			
	Total			$ 1,000,000.00	$ 9,255,000.00	$ 6,215,000.00	
	Capital Project Priority Definitions						

	PROPOSED NEW CAPITAL PROJECTS	TYPE	Code	2018	2019	2020	
				Revised Budget	Revised Budget	Revised Budget	
A	Life safety	Project needs to be done to prevent immediate danger to persons or property. Typically non deferrable.					
B	Structural Failure	Project needs to be done to fix a broken or failed structure or component. Typically non deferrable.					
C	Legislative/Code	Project needs to be done to comly with legilative requirements. Typically non deferrable.					
D	Technical	Projects consisiting of preventative maintenance, functional and aesthetic spending requirements. Typically this type of project is considered discretionary spending which can be deferred within a short- medium term.					
D1	Techincal-Functional	The original design does not serve the current and future purpose. It is out of date or useless.					
D2	Technical - aesthetic	Deals with the appearance of the component/asset. The component/asset still serves its current and future purpose and is still functional. The component/asset may appear weary and worn-out. Aesthetic also includes extra amenities to improve public's quality of life.					
E	Efficiency	The project represent an opportunity to reduce ongoing operating costs. Typically this type of project is considered discretionary spending which can be deferred.					

Corporation of Hamilton
2018 Budget
Vehicles

				2018	2019	2020	
		Cab/Chassis		Budget	Budget	Budget	
Description	Licence #	Make	Manufacture Date				
Dump Truck	HC 485	Mitsubishi	1997	70,000	-	-	
Vacuum Truck	HC 623	Isuzu		-	-	-	
Small garbage truck	HX 30	Isuzu	1998	-	-	-	
Van	IN	Mazda		-	-	-	
Scooter	BH662	Sym	2008	-	-	-	
				-	-	-	
Garbage Truck	HX 38	Renault	2006	250,000	-	-	
Pedestrian Sweeper (3)	N/A	Applied Sweepers	20??	165,000	-	-	
Front load dumper	NEW			-	-	-	To replace payloader
Van	L 2946	Daihatsu	2003	30,000	-	-	
				-	-	-	
Dump Truck	HC 524	Mitsubishi	1997	-	70,000	-	
Mechanics van	HB 250	Chevy	1995	-	30,000	-	
Dump Truck	HA 083	Mitsubishi	2001	-	70,000	-	
				-	-	-	
Garbage Truck	HX 69	Renault	2006	-	-	250,000	
				-	-	-	
				$ 445,000.00	**$ 170,000.00**	**$ 250,000.00**	

Corporation of Hamilton
2018 Budget
Capital Renewals

	Quantity	Risk due to failure	Life	2018 Budget	2019 Budget	2020 Budget	
Streets							
Roads	10	10	20	$ -	$ -	$ -	
Sidewalks	20	12	40	$ -	$ -	$ -	
Traffic lights	20	12	20	$ 450,000	$ 300,000	$ 300,000	2 junctions per year plus SCOOT
Street lights	300	6	15	$ 200,000	$ 100,000	$ 120,000	
Street furniture	30	5	15	$ 20,000	$ 20,000	$ 35,000	
Pay and Display Machines	36	8	15	$ -	$ -	$ -	Moving to barrier systems
Road Markings	40	15	3	$ -	$ -	$ -	
Road Signs	1500	15	10	$ -	$ -	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Parks							
Vine trellis replacement		4	20	$ -	$ -	$ -	
Victoria Park Wall (Cedar Av South)		12		$ -	$ -	$ -	
Benches	30	4		$ -	$ 10,000	$ 10,000	
Trash bins		3		$ 40,000	$ -	$ 20,000	
Bandstand	1	6		$ -	$ -	$ -	
Public washrooms	4	9		$ -	$ -	$ 50,000	
Fencing Fort Hamilton		5	25	$ -	$ -	$ -	
Bandstand lighting		6	10	$ -	$ -	$ 40,000	
Fencing				$ -	$ 55,000	$ -	
Fort Hamilton Bridge decking		6	20	$ -	$ -	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Property							
All Residential and Commercial Properties							
Painting		10		$ 50,000	$ 50,000	$ 50,000	
Doors		8		$ 50,000	$ 50,000	$ 50,000	
Windows		8		$ 50,000	$ 50,000	$ 50,000	
Roofing				$ 50,000	$ 50,000	$ 50,000	
Fenchurch Refurbishment				$ 600,000	$ 50,000	$ 50,000	
Pier 6 Replace Fire System				$ 160,000			
Old Works Depot Refurnishment				$ 80,000			
				$ -	$ -	$ -	
City Hall							
Driveways		6		$ -	$ -	$ -	
Fences		6		$ -	$ -	$ 20,000	
Foundations		5		$ -	$ -	$ -	
Structural walls		5	10	$ -	$ -	$ -	
Roof		10	5	$ 60,000	$ -	$ -	
Windows and external doors		12		$ -	$ 80,000	$ -	
Ceilings		6		$ -	$ -	$ -	
Internal walls		6	8	$ -	$ -	$ -	
Floors		9	10	$ -	$ 250,000	$ -	Replace BSOA Floor with accoustic soundproofing
Plumbing		9	30	$ -	$ 50,000	$ -	
Fixtures and fittings		8	20	$ -	$ 120,000	$ -	BSOA Bathrooms
Electrical		9		$ -	$ -	$ -	

Corporation of Hamilton
2018 Budget
Capital Renewals

	Quantity	Risk due to failure	Life	2018 Budget	2019 Budget	2020 Budget	
HVAC		12	16	$ -	$ -	$ -	
Elevator	1	12	34	$ -	$ -	$ -	
Elevator	1	12	25	$ 50,000	$ -	$ -	
Phone system	1	12	11	$ -	$ -	$ -	
City Hall tower railing		16		$ -	$ -	$ -	
				$ -	$ -	$ -	
City Hall Theatre							
HVAC		9	16	$ -	$ -	$ -	
Seating		12	20	$ -	$ -	$ 150,000	Replace seating in theatre
Carpet		4	15	$ -	$ -	$ -	
Curtains		10	20	$ -	$ -	$ -	
Stage		6	20	$ -	$ -	$ -	
Lighting and sound equipment		16	20	$ -	$ -	$ -	
				$ -	$ -	$ -	
Corporation Offices							
Fixtures and fittings		10	20	$ 30,000	$ -	$ -	Flooring in new front desk
Decoration/painting		4	10	$ 30,000	$ -	$ -	New lobby decoration
City Hall - Front Desk Security		15		$ -	$ -	$ -	
				$ -	$ -	$ -	
Works Depot							
Driveways		4	30	$ -	$ -	$ -	
Fences		6	30	$ -	$ -	$ -	
Foundations		8	40	$ -	$ -	$ -	
Structural walls		8	40	$ -	$ -	$ -	
Roof		8	20	$ -	$ -	$ -	
Windows and external doors		12	15	$ -	$ -	$ -	
Ceilings		4	20	$ -	$ -	$ -	
Internal walls		4	20	$ 15,000	$ -	$ -	
Floors		4	15	$ -	$ -	$ -	
Plumbing		6	25	$ 70,000	$ -	$ -	Replace domestic pump system
Fixtures and fittings		6	10	$ -	$ -	$ 20,000	
Electrical		6	20	$ -	$ -	$ -	
HVAC		9	15	$ -	$ -	$ -	
Elevator (1)	1	4	20	$ -	$ -	$ -	
Elevator (2)	1	6	20	$ -	$ -	$ -	
Phone system	1	6	10	$ -	$ -	$ -	
Pneumatics	1	9	15	$ -	$ -	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Infrastructure							
Bulls Head Steel painting		16	10	$ 150,000	$ 150,000	$ 150,000	
Car park resurfacing		10		$ -	$ 500,000	$ -	
Bulls Head Car Park Replace culverts	100	10	80	$ -	$ 200,000	$ -	
Lighting at Bulls Head	500	12	25	$ -	$ -	$ -	
Bulls Head Elevator	1	15	25	$ -	$ -	$ 100,000	
Bull Head Fire Control		10	20	$ -	$ -	$ -	
Fencing		9	20	$ -	$ -	$ -	

Corporation of Hamilton
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Capital Renewals

	Quantity	Risk due to failure	Life	2018 Budget	2019 Budget	2020 Budget	
Signage	50	6		$ -	$ -	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Wharf							
Wharf Edge refurbishment - cargo docks		12		$ -	$ 30,000	$ -	
CCTV replacements	12	16		$ -	$ 25,000	$ 25,000	
Seawall		16		$ 1,500,000	$ -	$ -	Flagpole and Ferry terminal areas
Bollard replacement	50	16	20	$ 20,000	$ 20,000	$ 20,000	
Fender replacement		8	25	$ -	$ 20,000	$ 20,000	
Fencing		8	21	$ -	$ -	$ -	
Reefer system		12	15	$ -	$ -	$ 70,000	
Transformer	1	8	20	$ -	$ -	$ -	
Asphalt surfacing		12		$ 100,000	$ 100,000	$ 100,000	
Electrical system		8		$ 30,000	$ -	$ -	Pier 6/welding shop issue
Hi Mast Lighting	10	9		$ -	$ 100,000	$ 1,900,000	
Concrete Pad Repair				$ 50,000		$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Equipment							
Computers	28	6	8	$ 20,000	$ 20,000	$ 20,000	
Software		4	1	$ 34,500	$ 3,000	$ 70,000	
Software - GP enhancements		4	1	$ 50,000	$ 3,000	$ 70,000	
Servers		9	10	$ -	$ -	$ -	
Wireless network		12	5	$ -	$ 200,000	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Wastewater							
Front Street Pump Station							
Civil		5	40	$ -	$ 15,000	$ -	
Structural		5	40	$ -	$ -	$ -	
Electrical		10	15	$ -	$ -	$ -	
Pumps		15	20	$ 30,000	$ -	$ 30,000	
Valves and piping		15	40	$ 50,000	$ 150,000	$ -	Dry well measure and replace piping
Meters		15	20	$ -	$ -	$ -	
Odour unit		8	20	$ 80,000	$ -	$ 80,000	
Generator		16	25	$ -	$ -	$ -	
Bar screens		20	15	$ -	$ -	$ -	
Hoists		9	25	$ -	$ -	$ -	
				$ -	$ -	$ -	
North Street Pump Station							
Civil		10		$ -	$ -	$ -	
Structural		10		$ -	$ -	$ 50,000	
Electrical		10		$ -	$ -	$ -	
Pumps		9	20	$ -	$ -	$ -	
Valves and piping		10		$ 5,000	$ -	$ -	
Meters		10		$ 10,000	$ 25,000	$ -	Digitise meter readings
Odour unit		16		$ -	$ -	$ -	

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				2018	2019	2020
	Quantity	Risk due to failure	Life	Budget	Budget	Budget
Generator		6	20	$ -	$ -	$ -
				$ -	$ -	$ -
Dundonald Pump Station						
Civil		10		$ -	$ -	$ -
Structural		10		$ -	$ -	$ 50,000
Electrical		10	15	$ -	$ -	$ -
Pumps		9	20	$ -	$ -	$ -
Valves and piping		10	40	$ 5,000	$ -	$ -
Meters		10	20	$ -	$ -	$ -
Odour unit		8	15	$ -	$ -	$ -
Generator		6	20	$ -	$ -	$ -
				$ -	$ -	$ -
Albouys Point Pump Station						
Civil		10		$ -	$ 5,000	$ -
Structural		10		$ -	$ -	$ 15,000
Electrical		15	15	$ -	$ -	$ -
Pumps	2	9	20	$ -	$ -	$ -
Valves and piping		25	20	$ -	$ -	$ -
				$ -	$ -	$ -
Laffan Street Pump Station						
Civil		15	40	$ -	$ -	$ -
Structural		15	40	$ -	$ -	$ -
Electrical		20	15	$ -	$ -	$ -
Pumps	2	15	20	$ -	$ -	$ -
Valves and piping		25	20	$ -	$ -	$ -
				$ -	$ -	$ -

Corporation of Hamilton
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Capital Renewals

	Quantity	Risk due to failure	Life	2018 Budget	2019 Budget	2020 Budget	
Bulls Head Pump Station							
Civil		10	40	$ 5,000	$ -	$ -	
Structural		10	40	$ -	$ -	$ -	
Electrical		10	15	$ -	$ -	$ -	
Pumps	2	9	20	$ -	$ 10,000	$ -	
Valves and piping		15	20	$ -	$ -	$ -	
				$ -	$ -	$ -	
Woodlands Road Pump Station							
Civil		10	40	$ -	$ -	$ -	
Structural		10	40	$ -	$ -	$ -	
Electrical		10	15	$ 100,000	$ -	$ -	Refurbish existing PS
Pumps	2	9	20	$ 25,000	$ -	$ -	
Valves and piping		20	20	$ 50,000	$ -	$ -	
				$ -	$ -	$ -	
Barr's Bay Pump Station							
Civil		15	40	$ -	$ -	$ -	
Structural		15	40	$ -	$ -	$ -	
Electrical		15	15	$ -	$ -	$ -	
Pumps	1	15	20	$ -	$ -	$ -	
Valves and piping		15	20	$ -	$ -	$ -	
				$ -	$ -	$ -	
Sewer Reticulation System							
Gravity Mains				$ -	$ -	$ -	
Pipe sections		12	100	$ -	$ 20,000	$ -	
Vents		3		$ -	$ -	$ -	
Odour unit		9	15	$ 50,000	$ -	$ -	
Manholes		8	40	$ -	$ 10,000	$ 10,000	
Rising Mains - Pipe		15	40	$ 10,000	$ -	$ -	
Outfalls		15	20	$ -	$ 100,000	$ 100,000	Design with aim to replace in 2021
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Stormwater Reticulation							
Gravity Mains							
Pipes		4	50	$ -	$ -	$ -	
Manholes		6	40	$ -	$ -	$ -	
Pits		4		$ -	$ -	$ -	
Catch basins		4	40	$ -	$ -	$ -	
Channels		6	50	$ -	$ -	$ -	
Rising mains		0					
Pipes		6	50	$ -	$ -	$ -	
Valves		4	40	$ -	$ -	$ -	
				$ -	$ -	$ -	
				$ -	$ -	$ -	
Pump Stations							
Bulls Head Hill PS				$ -	$ -	$ -	
Structure		4	40	$ -	$ -	$ -	
Electrical		4	15	$ -	$ -	$ -	

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				2018	2019	2020
	Quantity	Risk due to failure	Life	Budget	Budget	Budget
Valves		4	40	$ -	$ -	$ -
Pumps		4	15	$ -	$ -	$ -
				$ -	$ -	$ -
		YEARLY TOTALS		**$ 4,379,500**	**$ 2,941,000**	**$ 3,895,000**

RISK

Likelihood		Consequence				
		Insignificant	Minor	Moderate	Major	Severe
		1	2	3	4	5
Almost certain	5	5	10	15	20	25
Likely	4	4	8	12	16	20
Possible	3	3	6	9	12	15
Rare	1	1	2	3	4	5

Risk is defined as "the potential for realizing unwanted adverse consequences to human life,health, property, or the environment; estimation of risk is usually based on the expected value of the