

APPENDIX F
WASTEWATER ENTERPRISE FUND

**Waste Water 2020 Budget
Projection for 2019-20**

	Actual 2017-18	Proposed 2018-19	Revenue Projection				Estimate 2022-23
			Estimate 2019-20	Estimate 2020-21	Estimate 2021-22	Estimate 2022-23	
Service Charges	\$1,855,916	\$1,930,709	\$2,008,517	\$2,089,460	\$2,173,665	\$2,261,264	\$2,352,393
Connection Fees	\$110,900	\$110,900	\$110,900	\$110,900	\$110,900	\$110,900	\$110,900
Miscellaneous Revenue	\$28,852	\$28,852	\$28,852	\$28,852	\$28,852	\$28,852	\$28,852
Interest	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500
Cumberland O & M	\$167,227	\$165,723	\$192,200	\$193,829	\$195,471	\$197,127	\$198,797
Cumberland Reimbursement, Capital Spending	\$9,202	\$86,637	\$15,000	\$10,350	\$41,400	\$57,000	\$36,705
Cumberland Reimbursement, plant upgrade	\$152,216	\$149,788	\$147,360	\$144,932	\$142,504	\$140,076	\$137,648
Cumberland Reimbursement, Mill Creek	\$114,815	\$152,889	\$151,606	\$150,323	\$149,040	\$147,756	\$146,473
Projected Revenue after rate change	\$2,447,628	\$2,633,998	\$2,662,935	\$2,737,146	\$2,850,332	\$2,951,475	\$3,020,268
			Expenditure Projection				
Expense	\$1,526,368	\$1,574,413	\$1,725,056	\$1,769,308	\$1,814,886	\$1,861,833	\$1,910,188
Less: Capital Transfer	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Plus: Capital Spending	\$134,251	\$878,129	\$233,000	\$538,137	\$604,400	\$612,780	\$544,510
Plus: Debt							
Plant Upgrade	\$400,960	\$394,564	\$388,168	\$381,772	\$375,377	\$368,981	\$362,585
Mill Creek Debt Service	\$257,121	\$297,581	\$295,082	\$292,583	\$290,084	\$287,585	\$285,086
West Falmouth Debt Service	\$0	\$0	\$0	\$310,637	\$323,400	\$318,780	\$314,160
Total Expenses	\$2,068,700	\$2,894,687	\$2,391,306	\$3,042,437	\$3,158,147	\$3,199,959	\$3,166,529
Total Enterprise Fund Change	\$378,928	-\$260,689	\$271,629	-\$305,291	-\$307,815	-\$248,484	-\$146,261
CIP Find Balance	\$3,036,436	\$2,775,747	\$3,047,376	\$2,742,085	\$2,434,270	\$2,185,786	\$2,039,525
Operating Fund Balance	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
Total Enterprise Fund Balance	\$3,786,436	\$3,525,747	\$3,797,376	\$3,492,085	\$3,184,270	\$2,935,786	\$2,789,525
Monthly Rate	\$41.65	\$42.90	\$44.19	\$45.51	\$46.88	\$48.28	\$49.73
	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Rate Increase %							

DEPARTMENT: Wastewater, Falmouth Enterprise Fund 040

Account Number	Actual 2015-16	Actual 2016-17	Actual 2017-18	Anticipated 2018-19	Budget 2018-19	Proposed Budget 2019	FY20 Bud vs FY19 Bud
Falmouth only cost centers, including gross debt payments before reimbursements							
201	338,845	2,000,446	952,338	1,016,861	1,026,205	1,065,550	Falmouth users 100 %
201-1	541,213	527,532	555,429	563,078	545,075	547,474	2,399
Combined Falmouth / Cumberland cost centers, shared based on flow contributions							
202	394,075	357,622	352,791	357,170	419,645	446,858	Falmouth users approx. 77%
202-1	63,896	139,584	58,607	44,535	50,554	48,293	Falmouth users approx. 57 %
202-2	146,190	142,677	137,736	132,295	151,927	151,756	Falmouth users approx. 77 %
202-3	138,521	134,785	128,322	149,196	153,987	148,376	Falmouth users approx. 77 %
DEPARTMENT TOTAL	1,612,740	3,302,647	2,184,449	2,263,135	2,347,392	2,408,305	2.8%
Number	Account Name						
LABOR & BENEFITS							
4010	437,607	527,345	563,868	545,650	564,283	591,351	Funding for labor portion of the activities that serve the combined Falmouth / Cumberland system.
4030	32,695	29,876	25,734	21,960	33,415	33,415	0
4050	86,597	105,309	94,915	108,725	121,853	131,828	9,975
4060	38,245	48,740	49,968	52,250	44,605	46,389	1,783
4061	4,769	5,542	7,163	5,810	5,541	5,774	233
4070	34,916	40,149	40,240	42,175	43,168	44,860	1,692
4080	64	64	59	60	100	100	0
4090	0	0	204	1,050	2,500	2,500	0
4100	7,100	8,068	10,672	11,850	8,573	12,445	3,872
4110	0	0	391	450	800	800	0
SERVICES							
5010	658	547	576	360	650	650	0
5020	2,541	2,529	2,184	1,970	2,165	2,165	0
5030	0	0	0	0	50	50	0
5040	1,691	1,623	1,565	1,950	1,980	1,980	0
5070	0	0	54	80	200	200	0
5080	0	88	612	300	650	650	0
5100	19,061	21,620	22,711	23,510	23,710	23,710	0

Line Item Budget Request Justification

Funding for labor portion of the activities that serve the combined Falmouth / Cumberland system.

Funding for overtime labor weekends and off hours for non - exempt employees.

Department's share of employer's health insurance premiums (12.7% increase). Replacement employee on family plan vs. single plan.

Department's share of employer retirement contributions (9.6%)

Department share of health saving plan

Department's share of employer Social Security.

Employer's share of the group life insurance.

Employers share of the income protection insurance cost.

Funding for Worker's Compensation insurance based on the department's specific payroll, based on manual rate and the Town's experience rate.

Generally inactive, represents roughly 10% of Town unemployment charge

Postage and maintenance costs on the town hall mail equipment.

Department's prorated share of town wide telephone expenses.

Employer's cost reimbursement for use of personal vehicle.

Cost for meetings and seminars, primarily required training to maintain employee certifications.

Funds for plan copies and updated tax maps.

Public notices and advertising costs.

Department's share of vehicle and property insurance.

5200	ELECTRICITY	155,772	154,361	140,428	143,775	157,230	144,400	-12,830	Funds for electric cost for the treatment plant and 28 pump stations. Annual costs may vary due to flow levels.
5220	WATER	1,477	1,242	1,478	1,520	1,600	1,600	0	Funds for potable water cost from the Portland Water District.
5230	FUEL OIL	12,603	14,127	14,770	15,400	15,850	19,750	3,900	Funds for natural gas and standby generator fuel cost at the treatment plant and pumps stations.
5300	MACHINES/EQUIPMENT	16,380	15,715	8,005	12,550	16,000	16,000	0	Funds for outside vendor cost related to maintenance of plant and pump station equipment such as generator preventive maintenance, specialized maintenance tasks/calibrations.
5310	VEHICLE MAINTENANCE	2,923	1,477	1,605	2,270	3,280	3,280	0	Preventive and breakdown maintenance cost for 3 department pickups and sewer cleaning machine.
5320	SEWER LINE MAINTENANCE	316	0	3,386	4,000	4,000	17,000	13,000	Hired vendor cost for sewer cleaning, inspection, or repairs.
5330	RADIO/RADAR MAINTENANCE	0	0	0	100	470	470	0	Vendor maintenance and repair of portable radios, vehicle radios, telemetry communications network.
5400	LEGAL SERVICES	480	4,331	8,425	10,500	6,300	6,300	0	Funds for legal assistance related to ordinance, right of way, questions.
5410	COMPUTER SERVICES	8,319	8,300	7,907	8,200	8,200	9,400	1,200	Funds for a prorated share of maintenance agreements for software and funds fiber optic link to network servers.
5430	AUDIT	3,634	2,641	3,198	2,969	3,000	3,000	0	Funds for the prorated share of the annual Town audit.
5450	SAFETY SERVICES	1,486	1,782	1,797	2,000	2,790	2,790	0	Funds vendor cost for mandated safety training.
5490	OTHER PROFESSIONAL SERVICES	10,049	10,185	7,736	11,000	9,895	9,620	-275	Funds for outside engineering and technical assistance.
5491	LABORATORY MONITORING	7,138	6,459	4,411	5,440	5,440	6,915	1,475	Hired vendor cost for lab testing for discharge compliance monitoring.
5500	MAINTENANCE/BUILDINGS	1,898	1,222	2,225	3,600	4,800	22,800	18,000	Funds for vendor cost for fabrication, electrical work, and specialized maintenance work on department buildings.
5610	EQUIPMENT RENTAL	0	0	0	100	400	400	0	Funds for rental of small equipment.
5620	UNIFORM RENTALS	3,024	3,121	2,440	2,685	3,800	3,800	0	Rental cost and cleaning of work uniforms for the operations crew.
5900	BIOSOLIDS MANAGEMENT	78,202	80,424	82,132	75,000	77,550	85,500	7,950	Funds for contract disposal of plant sludge, annual variance due to fluctuations in volume of material for disposal.
5930	PUMP STATION ALARMS	2,394	2,519	2,650	3,175	2,800	2,800	0	Funds for cellular network cost of the telemetry system for pump stations.
5980	PUMP STATION MAINTENANCE	16,350	8,481	10,993	17,500	20,300	20,300	0	Funds for vendor cost for maintenance activities at pump stations, including emergency pumping, routine cleaning.
COMMODITIES									
6010	OFFICE SUPPLIES	1,210	1,351	854	500	700	700	0	Funds for miscellaneous office supplies, paper, pens, record keeping.
6015	COMPUTER FORMS/SUPPLIES	16	0	0	70	290	290	0	Computer and printer supplies
6100	MAINTENANCE MACHINES/EQUIPMENT	9,156	18,127	13,850	17,750	18,100	18,100	0	Funds for spare and replacement mechanical parts for treatment plant and pumping stations.
6110	VEHICLE MAINTENANCE	1,410	2,150	3,521	4,000	3,200	3,200	0	Funds for parts cost for the three department pickups.
6130	MOTOR FUEL/LUBRICANTS	6,074	6,540	8,536	8,450	6,603	9,635	3,032	Fuel cost for the department vehicles, 3 pickup trucks, sewer cleaning machine, and small equipment.
6210	SALT / DEICING CHEMICALS	0	0	0	0	750	750	0	Winter chemical treatments for driveways
6300	SEWER MAINTENANCE SUPPLIES	1,725	3,869	7,107	3,150	3,300	3,300	0	Funds for supplies for the sewer system, grade rings and manhole covers, jetter parts, for example.
6320	PLANT MAINTENANCE SUPPLIES	126	0	0	0	200	200	0	Cleaning supplies for the treatment plant.
6330	PUMP MAINTENANCE SUPPLIES	0	3,055	0	0	150	150	0	Cleaning supplies for pump stations.
6340	LABORATORY SUPPLIES	11,337	14,059	10,298	11,000	12,000	12,000	0	Funds for lab materials, chemicals, and equipment.

6400	BUILDING/GROUNDS MAINT/SUPPLIES	4,351	9,143	9,028	3,650	6,750	6,750	6,750	0	Building and grounds maintenance supplies for pump station building and treatment plant, minor repairs, painting supplies, minor electrical work.
6450	CHEMICALS	51,532	52,888	40,057	43,000	55,500	55,500	55,500	0	Funds for disinfection, dechlorination, and sludge dewatering chemicals.
6520	SAFETY EQUIPMENT	2,095	6,192	2,989	3,250	3,440	3,440	3,440	0	Required portable and fixed safety equipment, gas detection, harnesses, confined space gear, personal protective gear.
6930	PUMPING STATION ALARMS	629	0	380	1,100	1,200	1,200	1,200	0	Funds for parts and supplies for the telemetry system at pump stations.
6980	PUMP STATION MAINT/SUPPLIES	6,068	18,347	22,893	18,500	19,300	19,300	19,300	0	Funds for spare and replacement parts for pump stations equipment.
CAPITAL CONTRIBUTIONS										
7010	TRANSFER TO CAPITAL	65,000	250,000	0	0	250,000	250,000	250,000	0	Annual budget contribution to department capital reserve fund.
7015	TRANSFER TO EQUIPMENT RESERVE	30,500	0	0	0	0	0	0	0	Combined Falmouth & Cumberland contribution to shared reserve fund.
7025	TRANSFER TO CAPITAL RESERVE	0	1,175,000	250,000	250,000	0	0	0	0	2016-17 transfer to reduce borrowing at Mill Creek and roundabout sewer work, FY 18 amount should have been budgeted in 7010
7570	SEWER CONTINGENCY	7,542	3,000	3,500	50,000	50,000	50,000	50,000	0	This account funds annual routine rehab work in the sewer system serving only Falmouth
DEBT										
8050	IMPROVEMENTS	324,000	324,000	324,000	324,000	324,000	324,000	324,000	0	Funds for the principal payment of the bond bank loan for the 2006-08 plant upgrade
8200	BOND/NOTE INTEREST	89,751	78,090	76,960	76,960	76,959	64,168	64,168	-12,791	Funds for the interest cost for the 2006-08 plant upgrade and 2016 loan for Mill Creek
8400	PWD ASSESSMENT	11,827	17,713	11,217	12,540	15,550	15,550	15,550	0	Funds for the department's cost for sewer billing and collection services by Portland Water District.
8450	PWD MILLCREEK LOAN SERVICE	0	211,239	274,759	295,281	301,452	295,081	295,081	-6,371	Funds for the interest cost for the 2016 loan for Mill Creek

WASTEWATER FY2020 PROPOSED CAPITAL BUDGET

Treatment Plant	
Plant Upgrade 2007-08 borrowing costs	388,168
Plant equipment replacement	10,000
	<u>\$398,168</u>
Mill Creek Pump Station and Force Main	
Mill Creek force main and pump station borrowing costs,	\$295,081
	<u>\$295,081</u>
Johnson Road PS	
Generator - Johnson Road	\$30,000
	<u>\$30,000</u>
Mill Creek Sewer	
	<u>\$0</u>
Falmouth Only Sewers and Equipment	
Infiltration reduction	\$50,000
Crane truck body	\$15,000
Lift Crane	\$10,000
Computers and network	\$8,000
Truck, one ton chassis	\$30,000
	<u>\$113,000</u>
Falmouth Only Pump Stations	
CLEARWATER DRIVE	\$30,000
Misc. improvements	\$50,000
	<u>\$80,000</u>
Total FY2018 Spending	\$916,249

TOWN OF FALMOUTH WASTEWATER CIP PLAN (FY2018 - FY2027)

	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Falmouth total by year	\$516,097	\$1,267,596	\$602,283	\$906,887	\$936,916	\$924,513	\$871,354	\$890,396	\$849,437	\$780,479
Cumberland total by year	\$276,234	\$389,315	\$313,966	\$305,605	\$337,944	\$344,833	\$320,826	\$316,620	\$312,414	\$308,207
Total by year	\$792,331	\$1,656,910	\$916,250	\$1,212,492	\$1,269,860	\$1,269,345	\$1,192,181	\$1,207,016	\$1,161,851	\$1,088,686
Budget year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Allocation to	Allocation to									
Falmouth	Falmouth									
Cumberland	Cumberland									
Asset	Asset									
Treatment plant	Treatment plant									
Falmouth share	\$429,849	\$652,564	\$398,168	\$416,272	\$513,377	\$542,981	\$484,935	\$476,889	\$468,844	\$460,798
Cumberland share	\$268,693	\$425,376	\$247,808	\$260,990	\$329,473	\$350,705	\$310,582	\$305,459	\$300,337	\$295,214
	\$161,156	\$227,188	\$150,360	\$155,282	\$183,904	\$192,276	\$174,353	\$171,430	\$168,507	\$165,584
	70.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
Mill Creek pump station and force main	Mill Creek pump station and force main									
Falmouth share	\$258,211	\$298,581	\$295,082	\$292,583	\$290,084	\$287,585	\$285,086	\$282,587	\$280,088	\$277,589
Cumberland share	\$143,324	\$145,254	\$143,475	\$142,260	\$141,044	\$139,828	\$138,612	\$137,397	\$136,181	\$134,965
	\$114,886	\$153,326	\$151,606	\$150,323	\$149,040	\$147,756	\$146,473	\$145,190	\$143,907	\$142,623
	56.3%	43.7%	43.7%	43.7%	43.7%	43.7%	43.7%	43.7%	43.7%	43.7%
Johnson Road pump station	Johnson Road pump station									
Falmouth share	\$0	\$1,000	\$30,000	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0
Cumberland share	\$0	\$600	\$18,000	\$0	\$0	\$7,200	\$0	\$0	\$0	\$0
	\$0	\$400	\$12,000	\$0	\$0	\$4,800	\$0	\$0	\$0	\$0
	60.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%
Route One Interceptor sewer, North of	Route One Interceptor sewer, North of									
Johnson Road	\$1,916	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Falmouth share	\$1,724	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share	\$192	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	77.3%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%	22.7%
Gravity sewers and force main, south of	Gravity sewers and force main, south of									
Johnson to Mill Creek Interceptor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Falmouth share	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%
Route 88 Interceptor sewer	Route 88 Interceptor sewer									
Falmouth share	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%	36.0%
Mill Creek interceptor sewer	Mill Creek interceptor sewer									
Falmouth share	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland share	\$0	\$6,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$8,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	44.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%
Falmouth only sewers and equipment	Falmouth only sewers and equipment									
Falmouth share	\$14,739	\$484,000	\$113,000	\$453,637	\$416,400	\$376,780	\$372,160	\$397,540	\$362,920	\$350,300
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Falmouth only pump stations	Falmouth only pump stations									
Falmouth share	\$87,617	\$205,766	\$80,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Excluding Debt Service	Excluding Debt Service									
Falmouth total by year	\$125,048	\$878,129	\$218,000	\$527,787	\$563,000	\$555,780	\$507,805	\$532,030	\$496,255	\$432,480
Cumberland total by year	\$9,202	\$86,637	\$15,000	\$10,350	\$41,400	\$57,000	\$36,705	\$36,210	\$35,715	\$35,220
Total by year	\$134,251	\$964,766	\$233,000	\$538,137	\$604,400	\$612,780	\$544,510	\$568,240	\$531,970	\$467,700
Plant debt	Plant debt									
Total	\$400,960	\$394,564	\$388,168	\$381,772	\$375,377	\$368,981	\$362,585	\$356,189	\$349,794	\$343,398
Falmouth	\$248,744	\$244,776	\$240,808	\$236,840	\$232,873	\$228,905	\$224,937	\$220,969	\$217,002	\$213,034
Cumberland	\$152,216	\$149,788	\$147,360	\$144,932	\$142,504	\$140,076	\$137,648	\$135,220	\$132,792	\$130,364
Mill Creek debt	Mill Creek debt									
Falmouth	\$142,305	\$144,691	\$143,475	\$142,260	\$141,044	\$139,828	\$138,612	\$137,397	\$136,181	\$134,965
Cumberland	\$114,815	\$152,889	\$151,606	\$150,323	\$149,040	\$147,756	\$146,473	\$145,190	\$143,907	\$142,623
Total	\$257,121	\$297,581	\$295,082	\$292,583	\$290,084	\$287,585	\$285,086	\$282,587	\$280,088	\$277,588

TREATMENT PLANT PROJECTS

Totals		\$533,252	\$434,902	\$429,849	\$652,564	\$398,168	\$416,272	\$513,377	\$542,981	\$484,935	\$476,889	\$469,844	\$460,798		
	Item	Fund	Estimated costs	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
	Plant Upgrade 2007-08	040-2491	\$8,140,000	\$413,751	\$407,355	\$400,960	\$394,564	\$388,168	\$381,772	\$375,377	\$368,981	\$362,505	\$356,189	\$349,794	\$343,398
	SCADA software, computer, operating system, and network storage and backup upgrade		\$50,000	\$47,560											
	Studio 5000 LITE Edition Software														
	Falmouth Share	404-8412-2				\$763									
	Cumberland Share	404-8412-3				\$327									
	Install roof safety restraint system	040-2491	\$30,000	\$26,755											
	Remodel lab space	040-2491	\$30,000	\$15,145	\$ 11,416										
	Install gas heat conversions	040-2491	\$25,000	\$18,091											
	Replace electric room AC	040-2491	\$4,500												
	Falmouth Share	404-8412-2				\$3,150									
	Cumberland Share	404-8412-3				\$1,350									
	Replace 75 HP blower motor	040-2491	\$8,000	\$7,450											
	Install gas boiler in chemical building	040-2491	\$15,000												
	Repair underground heat lines to headworks		\$18,000		\$16,131										
	Security														
	Falmouth Share	407-1-8412-2				\$10,057									
	Cumberland Share	407-1-8412-3				\$4,580									
	ISCD Sampler (2)		\$7,000												
	Falmouth Share	407-1-8412-1				\$5,979									
	Cumberland Share	407-1-8412-3				\$2,682									
	Centrifuge addition estimated \$300K		\$300,000				\$165,000								
	Screw conveyor		\$7,000						\$7,000						
	Polyblend		\$7,500						\$7,500						

Sludge pump rebuild	\$3,000																		Proposal funds parts required to rebuild two sludge pumps in the dewatering system.
Centrifuge rebuild	\$50,000								\$50,000										Proposal provides funds to rebuild the 1999 dewatering centrifuge.
Inclined crew conveyor	\$10,000									\$10,000									Proposal replaces 1999 dewatering screw conveyor
Rebuild sludge grinder	\$5,000																		Proposal funds parts required to rebuild sludge grinder
BOD incubator	\$3,000													\$3,000					Proposal funds replacement of 2010 BOD incubator
Plant equipment replacement	\$10,000								\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	General replacement of pumps and equipment at the treatment plant due to unexpected failure	
3rd Aeration tank, estimated \$2.9M	\$2,900,000								\$114,000	\$112,350	\$110,700	\$109,050	\$107,400						Recommended upgrade to the treatment plant to handle future flow patterns
Plant outfall extension	\$2,250,000																		Dependent on regulatory requirements
Misc. other plant improvements	\$5-\$1 MM																		Evidences needed improvements towards increased nutrient removal requirements or to address flow increases.
Vehicle and equipment storage garage	\$125,000													\$125,000					Proposal adds new garage building at the treatment plant for vehicles, equipment, and pipe materials.
Pickup truck with plow	\$30,000																		Proposal funds replacement of an existing 2006 3/4 ton 4x4 pickup truck and plow.

MILL CREEK PUMP STATION AND FORCE MAIN

Item	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Total	\$96,251	\$150,311	\$196,651	\$145,234	\$145,234	\$145,234	\$145,234	\$145,234	\$145,234	\$145,234	\$145,234	\$145,234
Fathom's share	\$48,126	\$75,156	\$98,326	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617
Cumberland share	\$48,125	\$75,155	\$98,325	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617	\$72,617
Estimated costs	\$11,000	\$177,580	\$179,083	\$791,543	\$790,000	\$1,047,566	\$1,046,473	\$1,045,380	\$1,044,287	\$1,043,194	\$1,042,101	\$1,040,977
MMTB												
Mill Creek use of undesignated funds												
Mill Creek use of undesignated funds												
Fathom's Share 005-1 0412-2		1,019										
Cumberland Share 005-1 0412-3		79										
Mill Creek force main less non eligible cost	\$46,751											
Reverting principal and interest Mill Creek upgrade											\$175,000	\$175,000
Mill Creek use of undesignated funds												
Section of force main installed prior to loan eligibility requirements finalized and determined eligible												

JOHNSON ROAD PUMP STATION

Totals			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Item	Fund	Estimated costs	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27						
Panel replacement - Johnson Road		\$12,000							\$12,000										This improvement replaces one of five existing control panels that have been prone to intermittent wiring problems. This style panel has resulted in numerous call ins due to intermittent problems with the friction type connectors used to connect the various electrical components.
Generator - Johnson Road		\$30,000				\$30,000													This proposal would add a new in place generator at one of three pump stations that now require fairly dedicated service with the one high capacity portable unit that is available to serve 12 sites during widespread outages. Expect that the upgrade will provide needed flexibility for the portable unit and manpower during prolonged outages.
Upgrade capacity Johnson Road		TBD																	Timing dependent on growth in Cumberland and Falmouth along Route One north of Bucknam Road
SCADA 4G network upgrade		\$1,000			\$1,000														Upgrade SCADA communication to 4G service per cell carrier plans to discontinue 3G and 1X networks

Totals	Item	Fund	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
			\$17,306	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Manhole repair, Mill Creek	201-7550	Estimated costs	\$20,000	\$17,306												
	Feasibility study of abandoning cross country line in Mill Creek		\$15,000			\$15,000											
	New Route One pump station																

Repair displaced manholes in Mill Creek ROW

Proposal funds a determination of the practicality of eliminating inaccessible section of gravity sewer along Mill Creek.

Proposal funds addition of new pump station at head of Mill Creek interceptor, allows abandonment of Mill Creek interceptor, dependent on growth and development scenarios or risk associated with any failure of the cross country run of the sewer along Mill Creek. Discussion should be part of Route One North development plans

FALMOUTH ONLY SEWERS AND EQUIPMENT

Totals	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	
	\$6,259	\$14,739	\$484,000	\$113,000	\$493,637	\$416,400	\$376,780	\$372,160	\$397,540	\$362,920	\$350,300	
ROW clearing			\$10,000									Restore Webbs Creek ROW
Engineering slope failure	\$1,688	\$1,429										Assess recommended repairs for shoreline slope failures
Repair bank near Town Landing			\$75,000									Restore washed out area near Town sewer south of Town landing
Infiltration reduction			\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	Flow assessment, smoke testing, rehabilitation work to reduce peak flows.
Misc. Line work	\$4,160		Varies TBD									Proposal provides funding of as yet unidentified line replacement or capacity upgrade.
West Falmouth/ Sewer master plan		\$5,626	\$100,000									Engineering study to provide recommended improvements in West Falmouth
Carol Street lining			\$88,500									Install pvc lining in 1,600 feet of sewer on Carol Street
Clean and televise			\$23,500									Clean and televise 4,700 feet of gravity sewer along Shoreline Drive
Rehab terminus manholes		\$7,237	\$15,000									Rehab terminus manholes, Pinehurst and Clubhouse force mains
Falmouth Road force main			\$2,300,000									
Falmouth Road PS			\$400,000									
High School PS			\$17,000									
Improvements												
Woodland Dr. PS			\$66,000									
Improvements												
Pinehurst Dr. PS			\$31,000									
Improvements												
Woodland Clubhouse PS			\$33,000									
Improvements												
Middle Road Roundabout												
Project- Sewer Replacement			\$175,000									Replace sewer in Middle Road roundabout, from fund balance
Middle Rd. PS			\$355,000									
Interim pump improvements, Lunt Rd			\$100,000									
Lunt Rd. PS			\$1-\$1.5 MM									
Lunt Rd. force main			\$736,000									
Middle Rd. sewer, Woods to Lunt			\$1,820,000									
WF sewer extension projects, phase 1					\$310,637	\$323,400	\$318,780	\$314,160	\$309,540	\$304,920	\$300,300	Estimated bond payment towards recommended West Falmouth sewer improvements. \$4.62 MM at 2% for 20 years includes fees.
Area 6, Route 100			\$3,273,000									
Area 5, Falmouth, Winn, Leighton			\$2,897,000									
Area 3, Longwoods, Middle, to Cumberland			\$4,328,000									
Area 2, Falmouth Merrill			\$1,721,000									
Area 1, Pleasant, Ledgerwood			\$3,587,000									

West Falmouth sewer expansion projects	TBD																		Estimated bond payment towards possible West Falmouth sewer extensions outlined in Sewer Evaluation Survey of 2015
Pickup truck with plow	\$30,000	040-2490																	Proposal funds replacement of an existing 2015 3/4 ton 4x4 pickup truck and plow.
Amerideck dump body	\$6,000																		Proposal funds replacement of 2009 pick up dump body
Sander	\$4,500																		Sander for pump station truck
Crane truck body	\$15,000																		Replacement for crane truck
Portable generator	\$35,000																		Proposal funds replacement of 1998 hi capacity portable generator
Jet flushing machine	\$85,000																		Proposal provides funds to replace 1995 sewer cleaning /jet flushing tow behind unit and 1994 sewer television camera and recording systems.
Mobile portable generator	\$35,000																		Proposal adds a new hi capacity portable generator to service stations without in place standby power.
Lift Crane	\$15,000																		Proposal funds replacement of service truck mounted hydraulic/electric crane used to service pumps at 28 pump stations.
Photocopier	\$4,000																		Proposal funds replacement of photocopier in line with IT equipment replacement schedule.
Computers and network	\$8,000	400 8412-1																	Contribution to Town computer/software/network replacement
Truck, one ton chassis	\$30,000																		Proposal funds replacement of an existing 2009 one ton truck chassis.

FALMOUTH ONLY PUMP STATIONS

Totals	Item	Fund	Estimated	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
			\$332,000	\$62,006	\$87,617	\$205,766	\$80,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50
MIDDLE ROAD	Control panel replacement		\$15,000			\$15,000								
	Standby Generator		\$30,000			\$30,000								
CLEARWATER DRIVE	Replace pump parts		\$15,000	\$14,893										
	Wet well rehab	406 8412-1	\$10,000	\$10,852										
	Piping parts and motor	406 8412-1	\$7,000	\$7,445										
	Frame Stock (Ferguson WaWks)	400-8412-1		\$1,682										
	Standby generator					\$30,000								
OLD MILL ROAD														
HEDGEROW DRIVE														
	Pave driveway		\$2,000			\$2,000								
BAYSITE LN														
	WW pipe and rail replacement	406 8412-1	\$5,000		\$18,854									
LANDING WOODS LANE														
WAITES LANDING ROAD														
BROWN STREET														
	Replace pump parts	406 8412-1	\$15,000		\$5,468									
MILL CREEK														
ILUNT ROAD														
HANDY BOAT LANE														
	Replace pump parts		\$18,000	\$19,967										
	Piping and interior rehab		\$5,000			\$5,000								
UNDERWOOD ROAD														
	Control panel replacement	401-8412-1,2	\$17,000		\$17,448									
	Replace pump parts	406 8412-1	\$15,000		\$10,841									
WOODVILLE RD														
	Control panel replacement		\$15,000			\$15,000								
	Pave driveway		\$6,000			\$6,000								
PINEHURST LANE														
	Control panel replacement	406 8412-1	\$15,000		\$648	\$15,000								
WOODLANDS DR														
	Control panel replacement	406 8412-1		\$738										
WOODLANDS CLUB														
	Control panel replacement		\$15,000	\$15,060										
	Site repair		\$6,000			\$6,000								
LEIGHTON RD														
FALMOUTH RD														
	Wet well repairs	406 8412-1	\$6,000		\$1,234	\$4,766								
JOHNSON ROAD														
	Control panel replacement		\$15,000			\$15,000								
	Piping and rail replacement		\$5,000			\$5,000								
THORNHURST RD														

