



ENGINEERING & PUBLIC SERVICES



Eric Dudley, PE
Director, Engineering & Public Services
371 Saco Street
Westbrook, Maine 04092
Phone: 207-854-0660
Fax: 207-854-0672

TO: **Sewer Commission**
Ed Reidman
Kevin Price
Rhonda Forrester

FROM: Katherine Kelley, Wastewater Division Manager

DATE: April 11, 2022

SUBJECT: FY2023 Wastewater Division Proposed Budget

The 2023 Fiscal Year Municipal Sewer Budget has been prepared and is ready for review and approval by the Westbrook Sewer Commission. Approval will be sought for the new budget and vendor list. Supporting documentation can be found attached to this cover letter.

If you have any questions or would like additional information, please feel free to call or email.

Thank you for your consideration.

Katherine S. Kelley
Wastewater Division Manager



Wastewater

Katherine Kelley, P.E.
Wastewater Manager




1

What We Do – An Overview

- Maintain:
 - 13 Pump Stations
 - 1,625 Publicly Owned Manholes
 - 67 Miles of Sewer Pipe
- Street Excavations in Public ROW
- Grounds Maintenance
- Emergency Response
- Winter Plowing
- Dig Safe
- New Sewer Lateral Inspections
- Voting Set Up/Take Down
- Flushing and Televising Lines




2

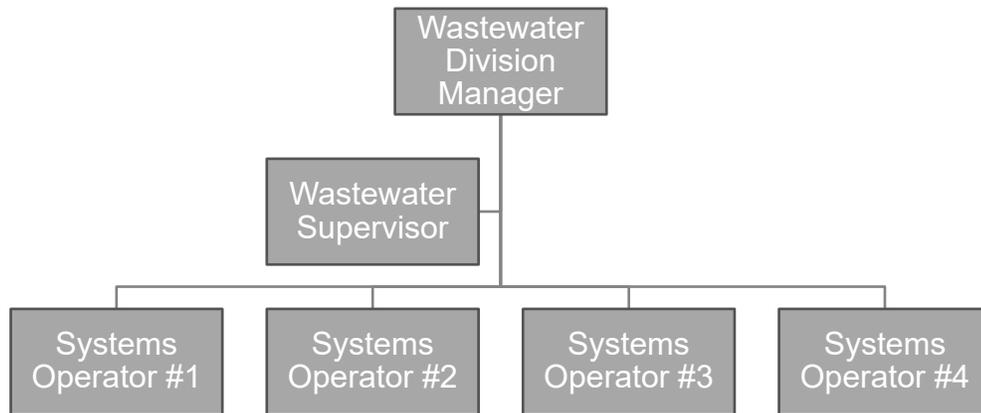
Daily Operations

1. Pump Station Maintenance
 - Grounds
 - Equipment
 - Building
2. Manhole Maintenance
 - Adjusts
 - Repairs
 - Cleaning & Inspection
3. Pipeline Maintenance
 - Flushing
 - Televising
 - Repair and/or Replace
 - Recording new sewer tie cards



3

Wastewater Staff



4

Major Changes in Wastewater Budget

Increases:

- Sewer rehabilitation increased to replace Brackett Street sewer, as portions of it are on the cusp of failing
- Portland Water District debt services continue to increase due to the aeration upgrade at the Treatment Plant
- Salaries have increased due to the new contract with AFSME and Teamsters

Decreases:

- Debt services continue to decrease annually



5

Wastewater Goals

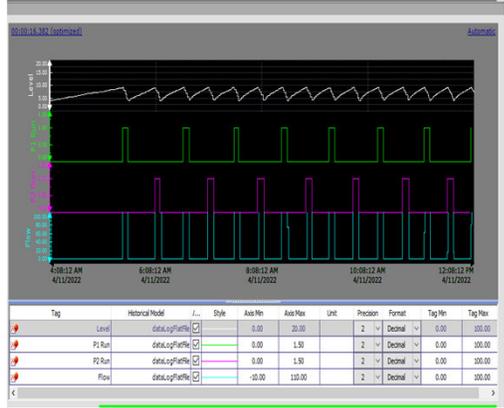
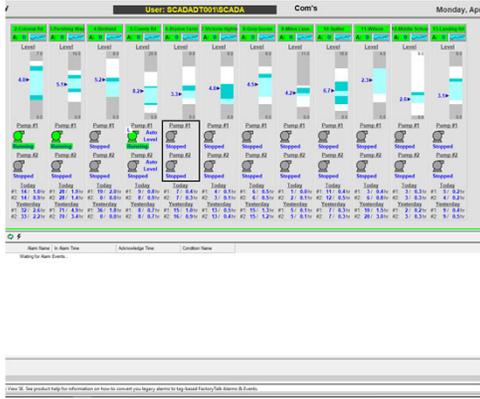
Completed Goals

- Converted three pump stations to cellular and upgraded portions of the SCADA to better communicate wirelessly
- Upgraded the portion of Cumberland Street sewer from Harnois to Main Street in to create capacity for future flow from Melcher Court Pump station
- Lined 1,045 LF of the Bridge Street sewer
- Flushed 49,654 LF of sewer lines



6

SCADA Pump Station Upgrade



7

Cumberland Street Sewer Upgrade



8

Wastewater Goals for FY2023

- Line the rest of the Bridge Street sewer
- Replace or find suitable solution to fix Brackett Street sewer
- Continue upgrading pump station SCADA
- Focus on adjusting low or damaged structures and establish channels in manholes that lack them
- Complete Melcher Court Pump Station design and bid Spring 2023



**City of Westbrook
Sewer Fund
Budget Comparisons FY21, YTD FY22, & FY23**

Account Description	Account Numbers		FY21			FY22 YTD			FY23 Budgeted	% Bud Inc. CY22/FY23
	80003250	CY20 Budgeted	CY20 Actuals	-/+	FY22 Budgeted	January 28, 2022	-/+			
Sewer Assessments	41200	(4,867,994)	(4,520,922)	347,072	(5,265,045)	(2,991,665)	2,273,380	(5,181,875)	73.2%	
Interest/Penalties onTax	41900		(554)	(554)	(500)	(20)	480	(500)	0.0%	
Investment Earnings	46000	(65,000)	(122,444)	(57,444)	(6,000)	(4,213)	1,787	(6,000)	42.4%	
Transfer from Sewer Fund Balance			(36,806)	(36,806)	-		-		0.0%	
Total Revenue		(4,932,994)	(4,680,726)	252,268	-	(5,271,545)	(2,995,898)	2,275,647	73.2%	
Expenses:										
Salaries - Regular	51100	369,572	341,866	27,706	395,249	196,849	198,400	436,103	10.3%	
Salaries - Overtime	51300	23,175	24,673	(1,498)	24,143	13,449	10,694	26,000	7.7%	
Cash In	51600	-	-	-	-	-	-	-	0.0%	
Other Employee Benefits	52900	149,487	133,258	16,229	147,468	71,696	75,772	148,073	0.4%	
Uniforms	52901	5,400	4,657	743	5,500	2,734	2,766	5,500	0.0%	
Medical Exams/Physicals	52902	2,000	1,031	969	2,000	460	1,540	2,000	0.0%	
Training	53300	3,000	2,179	821	5,000	694	4,306	5,000	0.0%	
Architect & Engineering	53420	50,000	31,260	18,740	57,500	2,500	55,000	50,000	-13.0%	
Prof Services - IT/Technology	53520	500	-	500	500	346	154	500	0.0%	
GIS Project	53617	50,000	51,722	(1,722)	57,000	32,203	24,797	55,200	-3.2%	
Portland Water Assessment	53622	2,820,768	2,680,284	140,484	3,196,094	1,980,475	1,215,619	3,266,359	2.2%	
Utility/Water & Sewer	54105	3,000	2,762	238	3,000	699	2,301	3,000	0.0%	
Maint Building & Grounds	54312	8,000	20,934	(12,934)	19,850	3,388	16,462	19,850	0.0%	
Tech Consult Maint	54330	4,000	570	3,430	-	-	-	-	0.0%	
Maint - Small Equip	54390	3,500	5,455	(1,955)	8,500	823	7,677	8,500	0.0%	
Equipment & Vehicle Lease	54420	15,790	-	15,790	15,790	-	15,790	15,790	0.0%	
Tel - Push Talk	55320	9,000	8,836	164	13,000	5,239	7,761	13,000	0.0%	
General Supplies	56000	4,000	4,546	(546)	6,000	4,750	1,250	20,000	233.3%	
Chemical Supplies	56044	-	-	-	-	-	-	-	0.0%	
Natural Gas	56210	5,000	4,052	948	10,000	2,004	7,996	10,000	0.0%	
Electricity	56220	47,000	40,617	6,383	47,000	21,294	25,706	47,000	0.0%	
Fuel, Gas	56260	5,000	4,549	451	5,000	2,448	2,552	5,000	0.0%	
Fuel, Diesel	56261	4,000	3,709	291	4,000	2,769	1,231	4,000	0.0%	
Auto Parts	56700	5,000	1,369	3,631	6,500	2,277	4,223	6,500	0.0%	
Vehicles, New	57320	-	-	-	-	-	-	-	0.0%	
Furniture/Fixtures	57330	1,000	-	1,000	1,000	-	1,000	-	-100.0%	
Hardware/SCADA	57340	50,000	25,113	24,887	40,000	11,262	28,738	50,000	25.0%	
Small Equipment	57390	30,000	15,914	14,086	30,000	7,311	22,689	30,000	0.0%	
Reline Work - Sewer Rehab.	57400	125,000	97,255	27,745	386,000	47,965	338,036	400,000	3.6%	
Dues & Memberships	58100	400	205	195	400	1,482	(1,082)	2,000	400.0%	
Debt Service -Principal & Interest	58310	1,003,504	388,274	615,230	348,429	176,652	171,777	323,225	-7.2%	
Sludge Disposal	58981	4,000	2,475	1,525	4,500	1,633	2,867	4,000	-11.1%	
Inspection - TV	58982	23,000	18,774	4,226	30,000	5,904	24,096	30,000	0.0%	
Casting/Brick/Pipe	58983	40,000	8,078	31,922	55,000	35,578	19,422	50,000	-9.1%	
NPDES	59000	50,000	46,673	3,327	50,000	36,418	13,582	55,000	10.0%	
Transfer to Capital Project Fund	59400	18,898	193,968	(175,070)	297,122	-	297,122	96,775	-67.4%	
Total Expenses		4,932,994	4,165,056	767,938	5,271,545	2,671,303	2,600,242	5,188,375	94.2%	
Total Sewer Surplus / (Deficit)		-	515,670	515,670	-	324,595	324,595	0		

**City of Westbrook
Sewer Fund
Budget FY23**

Account Description	FY22 Budget	FY23 Budget	+/-
Sewer Assessments	\$ (5,265,045.00)	\$ (5,181,875.10)	
Interest/Penalties onTax	\$ (500.00)	\$ (500.00)	
Investment Earnings	\$ (6,000.00)	\$ (6,000.00)	
Transfer from Sewer Fund Balance	\$ -	\$ -	
Total Revenue	(5,271,545)	(5,188,375)	-1.6%

Expenses:

Salaries - Regular	\$ 395,249	\$ 436,103	\$ 40,854
Salaries - Overtime	\$ 24,143	\$ 26,000	\$ 1,857
Cash In	\$ -	\$ -	\$ -
Other Employee Benefits	\$ 147,468	\$ 147,468	\$ -
Uniforms	\$ 5,500	\$ 5,500	\$ -
Medical Exams/Physicals	\$ 2,000	\$ 2,000	\$ -
Training	\$ 5,000	\$ 5,000	\$ -
Architect & Engineering	\$ 57,500	\$ 50,000	\$ (7,500)
Prof Services - IT/Technology	\$ 500	\$ 500	\$ -
GIS Project	\$ 57,000	\$ 55,200	\$ (1,800)
Portland Water Assessment	\$ 3,196,094	\$ 3,266,359	\$ 70,265
Utility/Water & Sewer	\$ 3,000	\$ 3,000	\$ -
Maint Building & Grounds	\$ 19,850	\$ 19,850	\$ -
Tech Consult Maint	\$ -	\$ -	\$ -
Maint - Small Equip	\$ 8,500	\$ 8,500	\$ -
Equipment & Vehicle Lease	\$ 15,790	\$ 15,790	\$ -
Tel - Push Talk	\$ 13,000	\$ 13,000	\$ -
General Supplies	\$ 6,000	\$ 20,000	\$ 14,000
Natural Gas	\$ 10,000	\$ 10,000	\$ -
Electricity	\$ 47,000	\$ 47,000	\$ -
Fuel, Gas	\$ 5,000	\$ 5,000	\$ -
Fuel, Diesel	\$ 4,000	\$ 4,000	\$ -
Auto Parts	\$ 6,500	\$ 6,500	\$ -
Furniture/Fixtures	\$ 1,000	\$ -	\$ (1,000)
Hardware/SCADA	\$ 40,000	\$ 50,000	\$ 10,000
Small Equipment	\$ 30,000	\$ 30,000	\$ -
Reline Work - Sewer Rehab.	\$ 386,000	\$ 400,000	\$ 14,000
Dues & Memberships	\$ 400	\$ 2,000	\$ 1,600
Debt Service -Principal & Interest	\$ 348,429	\$ 323,225	\$ (25,204)
Sludge Disposal	\$ 4,500	\$ 4,000	\$ (500)
Inspection - TV	\$ 30,000	\$ 30,000	\$ -
Casting/Brick/Pipe	\$ 55,000	\$ 50,000	\$ (5,000)
NPDES	\$ 50,000	\$ 55,000	\$ 5,000
Transfer to Capital Project Fund	\$ 297,122	\$ 97,380	\$ (199,742)
Total Expenses	\$ 5,271,545	\$ 5,188,375	\$ (83,170)
Total City Expenses	\$ 2,075,451	\$ 1,922,016	\$ (153,435)

Key:

\$\$\$	Increase from FY22
\$\$\$	Decrease from FY22

Total Sewer Surplus / (Deficit) **(0)**

SEWER DEPT FY2023 BUDGET
"VENDOR LIST"
Wastewater Division Vendors

80003250 52901		Uniforms		\$5,500.00
Cintas Corporation	Pine Environmental	Lamey Wellehan		
80003250 53300		Training		\$5,000.00
ASCE	American Red Cross	NEIWPC		
NASSCO	Maine Rural Water Association	Wright-Pierce		
80003250 53420		Engineering		\$50,000.00
Gorrill-Palmer	Sebago Technics	St. Germain-Collins	RW Gillespie & Assoc.	
Lloyds Register Americas Inc	Stantec	SW Cole Engineering	Wright-Pierce	
80003250 53622		Portland Water Assessment		\$3,266,359.00
Portland Water District				
80003250 53617		GIS Projects		\$55,200.00
Cartographic Associates Inc				
80003250 54105		Utility/Water & Sewer		\$3,000.00
Portland Water District				
80003250 54312		Maintenance - Building & Grounds		\$19,850.00
Carbtrol Corporation	Glidden Paving	K & S Doors	PTI Paving	WW Grainger Inc
Corey Electric	Handyman Services	Lowes	Shaw Brothers	CN Wood Enviro LLC
Ed's Batteries	HD Supply	Overhead Door	Stevens Electric	
EJ Prescott	Home Depot	Patriot Mechanical	Supplyworks	
G & E Roofing	Honeywell	PowerProducts	Stultz Electric	
80003250 54390		Maint. - Small Equipment		\$30,000.00
Aubuchon Hardware	Hayes Pump	MB Tractor Equipment	Sportsman's Hardware	
Cummins Northeast	Home Depot	MSA Gas Meters	Stultz Electric	
CN Wood	Honeywell	Patriot Mechanical	Stevens Electric & Pump	
Fastenal	Jack Young Co.	Pine Tree Environmental	WW Grainger Inc	
Gorman Rupp Pump	K & S Doors	Portland North Truck Center		
Hall Implement	Lowe's Companies Inc	Southworth Milton		

80003250 54420		Equipment & Vehicle Lease		\$15,790.00
Androscoggin Bank	MSA Gas Meters	Rowe Ford		
CN Wood	Portland North Truck Center	Stultz Electric		

80003250 55320		Telephone - Push Talk		\$13,000.00
AT&T Mobility II LLC	Corey Electric	Verizon Wireless Services		
CRC Communications LLC	Otelco Telecommunications			

80003250 56000		General Supplies		\$20,000.00
Adobe Acropro	DTL Inc (Sportsmans)	Goodwill	Staples	Walsh Printing & Graphics
Amazon	Horizon Solutions LLC	Pine Environmental	WB Mason Co Inc	WW Grainger Inc

80003250 56210		Natural Gas		\$10,000.00
Northern Utilities				
Suburan Propane				

80003250 56220		Electricity		\$47,000.00
Central Maine Power				
Corey Electric				

80003250 56700		Vehicle Supplies/Auto Parts		\$6,500.00
Adams & Fogg	Eastern Electric	Jack Young Co.	Nortrax	Weirs Motor Sales, Inc.
Adams Emergency Vehicles	Genuine Parts Company (NAPA)	Jordan Equipment	O'Connor GMC	Westbrook Service Center
Advance Auto Parts	Gorham Tractor	KL Jack & Co	Portland North Truck	Wingfoot Commercial Tire
AEC Control System	Greg Buckley/MSA Meters	Lee Dodge	Roberts Auto Body	Yerxa's
Aqua Solutions Inc	Hayes Pump	McFarland Spring	Rowe Ford	Vactor
Atlantic Broom Service, Inc.	Hews Co.	Messer Truck Equipment	Stevens Electrical	CN Wood
Corey Electric	Howard P. Fairfield, Inc.	Morrison & Sylvester Inc	Stultz Electric	
Cummins Northeast, Inc.	Hydraulic Hose & Assembly	Northland Holder, Inc.	Tenco	

80003250 57340		Computers/SCADA Maintenance		\$50,000.00
AT&T Mobility II LLC	Maine Security			
Electrical Controls of Maine	Unified Communications (TPX)			
ESRI	Verizon Wireless Services			

80003250 57390		Small Equipment		\$30,000.00
CN Wood	Everett J Prescott Inc	Home Depot	Nortrax	Stultz Electric
Cummins Northeast	Faulkner Welding	Horizon Solutions LLC	Overhead Door	SupplyWorks
DTL Inc (Sportsman)	Genuine Parts Company	K & S Doors	Portland North	Vactor Corp
Eastern Electric	Greg Buckley/MSA Meters	K L Jack & Co	Pine Enviornmental Services	Tenco
Ed Willete Jr Inc (Eds Batteries)	Hayes Pump Inc	Lowes	Steven's Electric	WW Grainger Inc

80003250 57400		Sewer Rehab & Repair		\$400,000.00
Advanced Auto Parts	EcoClean	Home Depot	RJ Grondin	Westbrook Service Center
American Concrete	Everett J Prescott Inc	Hydraulic Hose	Rowe Ford	Wright-Pierce
CN Wood	Faulkner Welding & Machine	Les Wilson & Sons	Sebago Technics	WW Grainger Inc
Coastal Road Repair	Gorham Sand & Gravel	Lowes	Shaw Brothers	
Corey Associates	Gorrill-Palmer	Messer Co	Sebago Technics	
Cummins Northeast	Handyman Services	MSA Gas Meters	Stevens Electrical	
DTL Inc (Sportsman)	Hayes Pump Inc	Overhead Door	Tenco	

80003250 58981		Sludge Disposal		\$4,000.00
Pine Tree Waste Inc				

80003250 58982		Sewer Inspection - TV		\$30,000.00
Eco Clean, LLC	Zoom Drain			
Ted Berry Co., Inc				

80003250 58983		Castings, Brick, Pipe		\$50,000.00
American Concrete	DTL Inc (Sportsman)	Glidden Construction	Les Wilson & Sons	Suburban Security
American Highway Products	EJ Prescott	Gorham Sand & Gravel	Pavement Treatments, Inc	Treasurer State of Maine
At Work Flaggers	Ferguson Waterworks	Handyman Rental	Pre-Cast of Maine	Windham Rental
Coastal Road Repair	Flow Assessments	Keenan Excavation	RJ Grondin	Carbtrol Corporation
Core & Main LP	Gagne & Son Concrete Blocks	Leavitt Earthworks	Shaw Brothers	

80003250 59000		NPDES		\$55,000.00
Cumberland County Soil & Water Conservation District		Long Creek Watershed Management District Restoration		Walsh Printing & Graphics
Garden State Highway Products Inc		Sterling Stormwater		

**Portland Water District
Annual Wastewater Assessment Meeting - Westbrook
Meeting Date: November 1, 2021 at 1:00**

Attendees: Westbrook Sewer Commission, Jerre Bryant and staff; Carrie Lewis, Chris Crovo, Scott Firmin and David Kane

Agenda

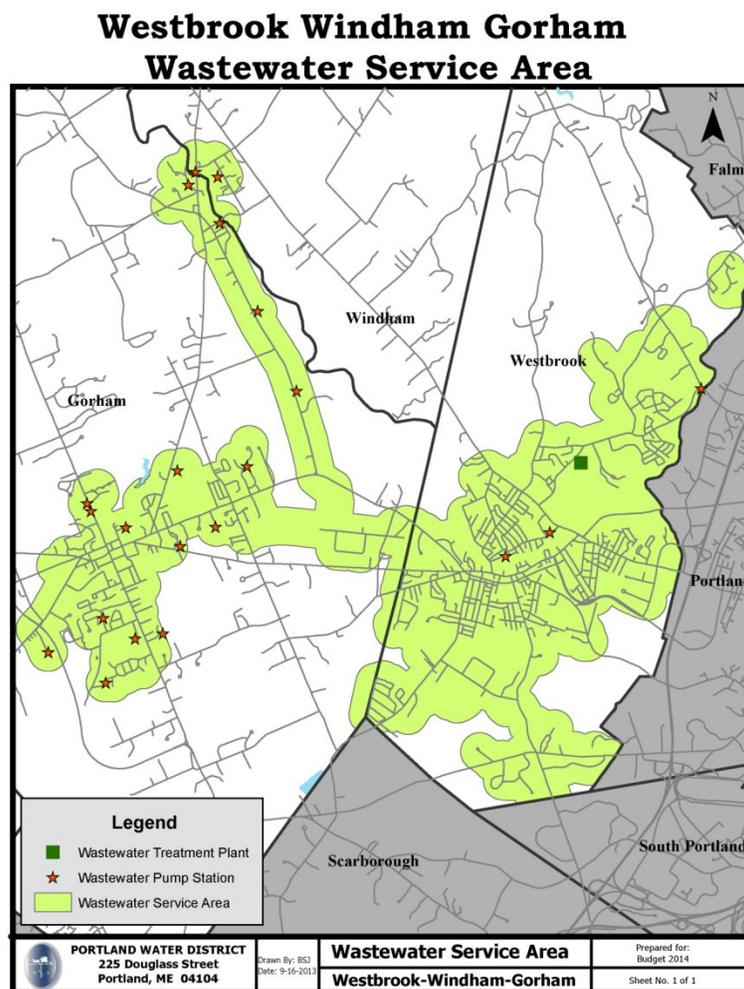
1. 2022 Wastewater Assessment - \$3,173,124 – \$269,880 or 9.3% higher
2. Wastewater Operational and Capital Plans
 - CSO Projects Update
 - Treatment Plant Aeration project
3. Water System
 - Water rate increase scheduled for March 1, 2022, including 3.7% Public Fire Protection.
 - Billing System Implementation Date: October 2021

Package Index	
Background	2
Assessment vs Billing 2020-2025	3
Sewer Billing Statistics	4
Operating Expense	
2022 Budget	5-6
2023-2026 Forecast	7-8
Operations Summary	9-11
Capital	
2022 Summary	12
Project Details	13-21

Fund: Wastewater - Westbrook

Background

The Portland Water District's charter authorizes the District to provide wastewater treatment, collection system, and interceptor service to the city. Westbrook's wastewater is treated at the treatment facility located in Westbrook and jointly used by the towns of Windham and Gorham. The city maintains the collection system-collectors that transport wastewater from user's property to the District's interceptor system. Additionally, by contract, the District provides utility billing services.



Summary of Services Provided:

Treatment

2.54 million gallons/day

Collection System

*2 Westbrook only & 1
Joint use Pump Stations
with 8.2 miles of pipe*

Utility Billing

*Annual Billings of
\$4,974,967 on 4,752
Customers (avg.
\$87.24/month)*

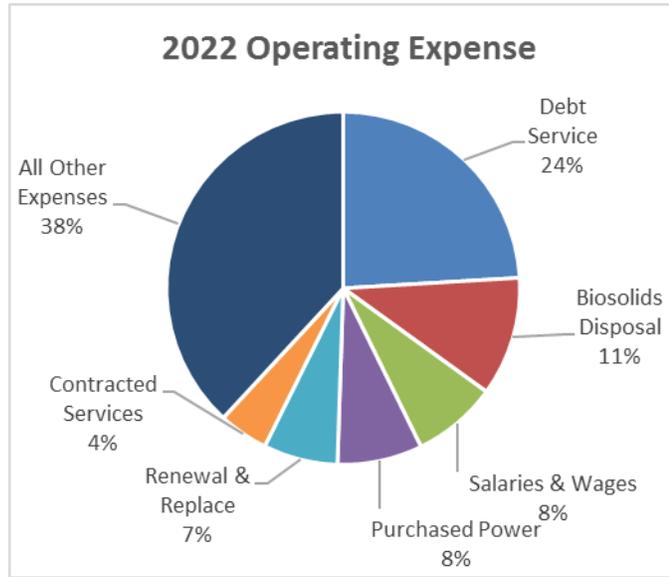
Fund: Wastewater - Westbrook

2022 Financial Summary

The proposed assessment of \$3,173,124 is 9.3% increase over the previous year. This assessment is less than the amount in the forecast provided to the City last year.

The proposed 2022 Operating Expense and Capital budgets are \$3,240,262 and \$119,900, respectively.

The Total Expense budget is \$247,802 higher (8.3%) than the previous year. Operating Expense increased by \$178,266 or 8.6%, Debt Service decreased 27.0% (\$165,781) and Renewal & Replacement (direct and indirect) funding decreased \$96,245 to \$220,535.



A portion of the 2022 Capital budget will be a locker room renovation at the Westbrook Regional treatment facility. Westbrook’s prorated cost for this is \$66,600. The rest of the budget is geared towards pump station and treatment facility capital work that comes up throughout the year.

Assessment Compared to Ratepayers’ Billing

The municipality’s fiscal year end is June 30, while the District’s is December 31. The chart below compares the sewer billing cash as collected by the District on their behalf and the District’s assessment for services rendered. The municipality may incur additional sewer-related costs. The municipality determines whether to increase the sewer billing rates.



Revenue Assumptions:

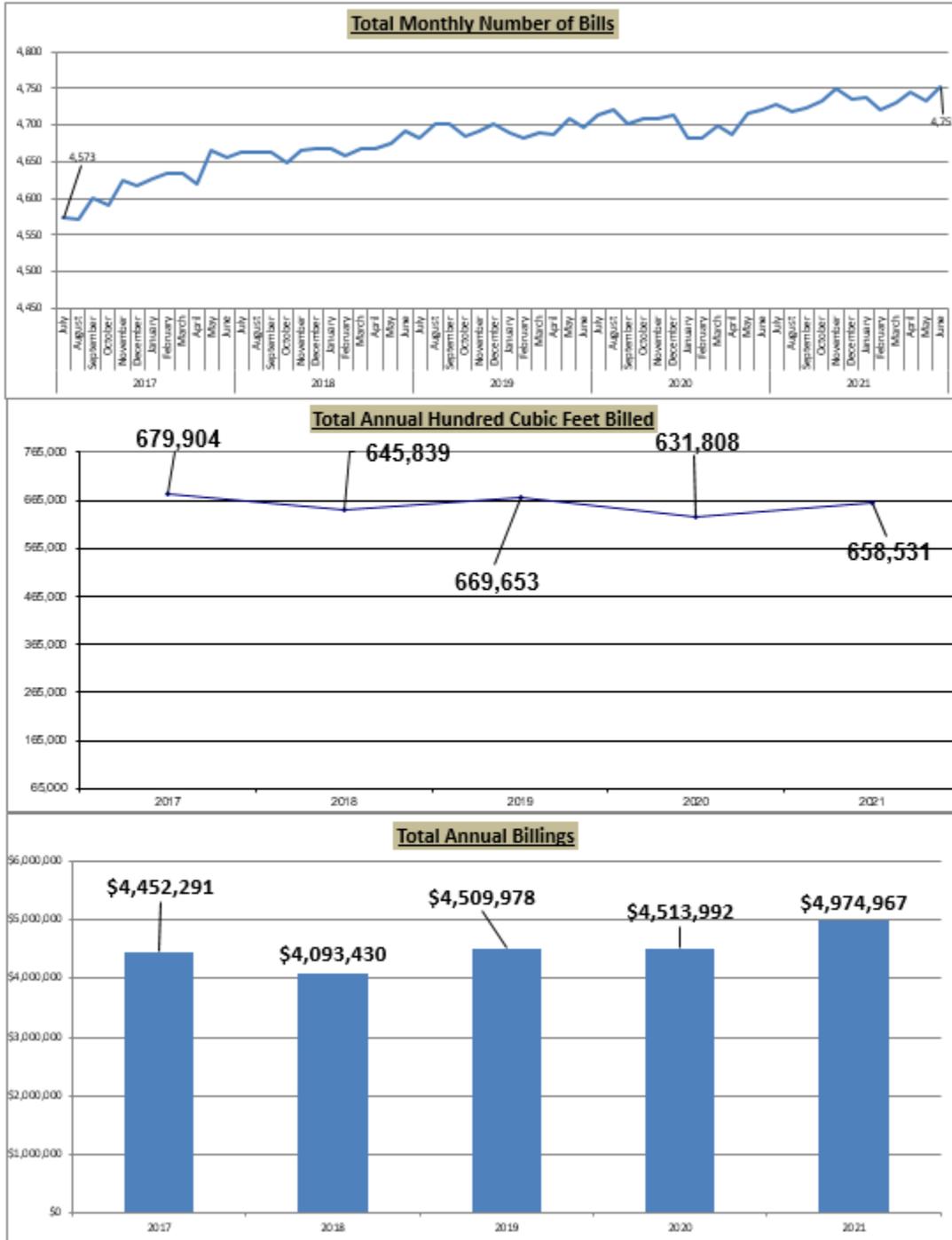
- Consumption assumed is based on consumption through December 31, 2019
- Rates Assumed:

Effective Date:	Base/Per HCF
Jan 2013	\$11.13/\$6.13
Jan 2019	\$11.53/\$6.53
Jan 2020	\$11.93/\$6.93
Jan 2021	\$12.33/\$7.00

Sewer Billing Statistics

The District provides sewer billing services for the municipality by contract. Sewer is billed based on water consumption and is included on Portland Water District’s water bill. The municipality determines the sewer rate. Dollars collected are forwarded to the municipality weekly.

By Municipal Fiscal Year: Jul 1 to Jun 30

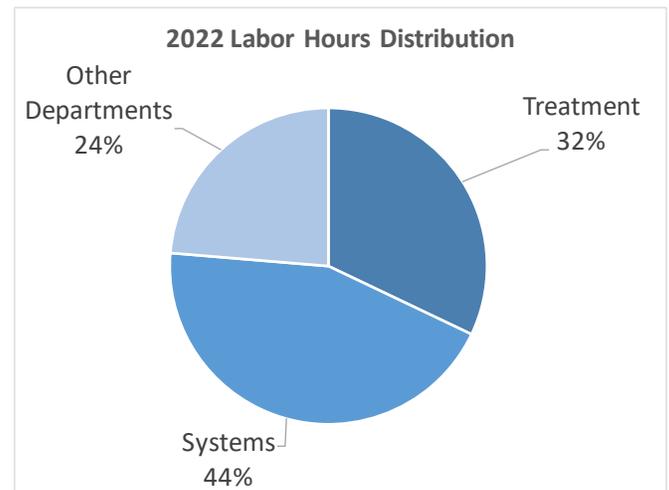


2022 Operating Expense Highlights

Salaries/Wages – The expense increase of 0.9% (\$2,267) resulted in a budget amount of \$252,011. District labor rates increased an average of 2.0% while hours for this fund decreased 0.6% or 19 hours.

Employee Benefits – The benefit rate (including FICA) decreased from 50.59% in 2020 to 46.84% in 2022 due to lower pension expenses. Overall, Employee Benefits expense decreased 7.2% (\$8,495).

Biosolids Disposal – Biosolids expense at the Westbrook/Gorham/Windham Regional WWTF is projected to increase 11.3% due to an estimated increase in the disposal cost of 11.1% (from \$90 to \$100.00/wet ton) and a 0.2% estimated increase in volume. The higher unit costs relates to continued regulator and public concern with per- and poly-fluoroalkyl substances (PFAS) with the impact of limiting the available outlets to dispose of biosolids. Biosolids expense for Westbrook is projected to increase \$34,161 (10.6%). Westbrook's share of allocated treatment costs decreased 0.5% to 83.5%.



Chemicals – Chemical expense regional treatment plant rose 49.4% due primarily to higher usage for Polymer (60.1%), Sodium Hypochlorite (50.7%) and Sodium Bisulfite (32.5%). Westbrook's expense increased 48.5% or \$46,196.

Heat/Fuel Oil – This expense is projected to increase \$11,283 (50.2%). The increase is due to the expected rise in the per gallon cost of heating oil at the Westbrook Regional Wastewater Treatment Facility from \$1.69 to \$2.29 gallon and 6.5% increase in usage.

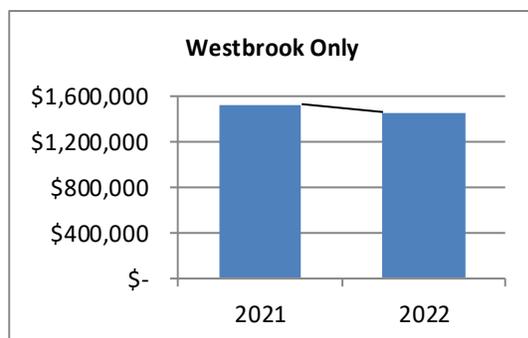
Purchased Power – Purchased Power increased by 8.3% (\$19,351). Budgeted demand usage went up 3.4% and 6% for the Westbrook Regional WWTF and three pump stations, respectively. On August 1, 2021 there was a substantial increase to transmission rates. Energy rates for small and medium accounts were reduced by 6%.

Regulatory/Taxes – The State of Maine has imposed a \$10.00/wet ton of biosolids regulatory fee to deal with statewide issues regarding PFAS. The impact to this fund is \$35,387 in the 2022 Budget.

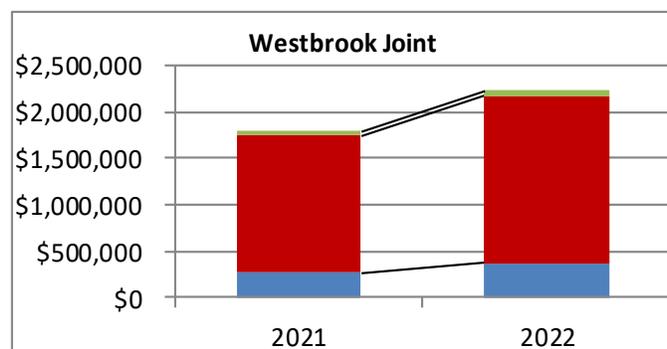
Support Services – These costs are related to general work done that cannot be directly charged to a fund as noted above (such as customer service or information technology) or work done on behalf of several municipalities at the same time (engineering or laboratory services) that is allocated based on the value to each fund. Overall, Support Services increased \$18,263 or 2.3%. The pool of Support Services costs only increased 1.1% in the 2022 Budget. Higher costs in Administration and Engineering Services and Wastewater were partially offset by lower costs in Environmental Services and Wastewater.

Debt Service – The annual principal and interest payments on bonds issued to finance capital projects. increased 27.0% (\$165,781) due to the proposed issuance of new debt for projects at the Westbrook Regional Wastewater Treatment Facility relating to aeration and sludge odor control.

	2020 Actual	2021 Jan-Jun	2021 Budget	2022 Budget	Budget Diff \$	Budget Diff %
Assessment Income	\$2,820,768	\$1,451,622	\$2,903,244	\$3,173,124	\$269,880	9.3%
Interest Income	80,316	6,424	41,216	16,938	-24,278	-58.9%
Other Income	51,790	25,868	48,000	50,200	2,200	4.6%
Total Revenue	2,952,874	1,483,914	2,992,460	3,240,262	247,802	8.3%
Salaries & Wages	209,966	134,972	249,744	252,011	2,267	0.9%
Employee Benefits	91,863	63,860	117,373	108,878	-8,495	-7.2%
Biosolids Disposal	270,589	168,825	319,712	353,873	34,161	10.7%
Chemicals	152,753	73,572	95,321	141,517	46,196	48.5%
Contracted Services	232,827	61,202	141,281	147,268	5,987	4.2%
Deferred Cost W/O	18,462	0	0	0	0	n/a
Heat/Fuel Oil	33,156	17,369	22,469	33,752	11,283	50.2%
Insurance	6,355	4,926	5,709	10,798	5,089	89.1%
Materials & Supplies	57,651	23,703	51,581	51,769	188	0.4%
Other Expense	4,069	283	5,622	5,440	-182	-3.2%
Purchased Power	227,291	112,118	232,623	251,974	19,351	8.3%
Regulatory/Taxes	3,627	5,337	3,780	39,145	35,365	935.6%
Tele/Other Utilities	30,108	11,992	25,713	34,504	8,791	34.2%
Transportation	6,748	5,806	13,296	13,298	2	0.0%
SS - Administration	312,996	162,341	351,613	365,694	14,081	4.0%
SS - Engineering Services	58,876	32,420	103,417	114,912	11,495	11.1%
SS - Environmental Services	121,340	59,922	116,805	110,453		
SS - Wastewater Services	174,887	102,185	198,853	197,656	-1,197	-0.6%
SS - Water Services	3,938	1,761	7,176	7,412	236	3.3%
Operating Expense	2,017,502	1,042,594	2,062,088	2,240,354	178,266	8.6%
Debt Service & Lease Expense	612,360	294,105	613,592	779,373	165,781	27.0%
Renewal & Replacement - Direct	300,000	135,000	270,000	168,000	-102,000	-37.8%
Renewal & Replace - Indirect	51,384	23,388	46,780	52,535	5,755	12.3%
Total Expense	2,981,246	1,495,087	2,992,460	3,240,262	247,802	8.3%
Current Year Surplus (Deficit)	-28,372	-11,173	0	0		
Transfer to R&R	0	0	0	0		
Return of Accumulated Surplus	-118,265	0	0	0		
Prior Year Surplus	851,256	704,619	771,710	638,566		
Accumulated Surplus	704,619	693,446	771,710	638,566		



Westbrook Only – Westbrook Only expenses were down \$67.5k (4.4%) due to Renewal & Replacement costs.



Westbrook JT – Expense up 24.5%; Westbrook's share of expense down 0.5% to 83.5%, expense up \$315.3k (21.4%).

Projections for Rate-Making Purposes

Multi-year projections are made for each of the wastewater funds' assessment. The projections provide guidance to the wastewater municipalities to assist them in determining their wastewater sewer rates. A summary of the projection is provided on next page.

Major Assumptions:

The assumptions incorporated in the projections are as follows:

- Salary increases of 3.0% in 2023 and 2% in other years. No change in number of employees.
- Benefit increases of 10% in 2023 (health insurance increase) and 5% in other years.
- Other expenses increase between 2% and 5% each year.
- New debt service and renewal/replacement fund expenditures consistent with the 2022 5-year capital plan. New debt assumed a 20-year life between 1% and 3.5% interest depending on funding source and year of financing. Significant new projects includes Westbrook's share of the \$12M aeration system upgrade at the treatment plant and a potential \$3.2 million CSO Storage Facility.

Summary of Projection Impact:

Assessment is projected to increase to \$3,639,157 in 2026, a 15% increase over 2022 Budget, with the most significant cost change related to debt service issued to finance capital projects. Capital reserve balance exceeds target balance. Debt ratio trends are negative but are below or close to target. The use of capital reserve rather than planned bonding may be used to reduce debt service amount.

Reserve Fund Balances



Percent of Budget Dedicated to Debt Service – Target: Not to Exceed 35%

2018	2019	2020	2021	2022	2023	2024	2025	2026
17%	19%	21%	21%	24%	27%	30%	29%	29%

Debt Service Ratio – Target: Greater or Equal to 125%

2018	2019	2020	2021	2022	2023	2024	2025	2026
181%	167%	156%	152%	128%	121%	118%	118%	118%

Projections for Rate-Making Purposes (continued)

Operating Fund:

	<u>2020 Actual</u>	<u>2021 Budget</u>	<u>2022 Budget</u>	<u>2023 Forecast</u>	<u>2024 Forecast</u>	<u>2025 Forecast</u>	<u>2026 Forecast</u>
Revenues:							
Assessment Income	2,820,768	2,903,244	3,173,124	3,359,593	3,543,380	3,581,902	3,639,157
Interest Income	80,316	41,216	16,938	16,938	18,632	20,495	20,495
Other Income	51,790	48,000	50,200	50,200	50,200	50,200	50,200
Total Revenues	2,952,874	2,992,460	3,240,262	3,426,731	3,612,212	3,652,597	3,709,852
Operating Expenses:							
Salaries & Wages	209,966	249,744	252,011	259,571	264,762	270,057	275,458
Employee Benefits	91,863	117,373	108,878	119,766	125,754	132,042	138,644
Biosolids Disposal	270,589	319,712	353,873	362,366	368,164	374,055	380,040
Chemicals	152,753	95,321	141,517	145,763	148,678	151,652	154,685
Contracted Services	232,827	141,281	147,268	151,686	154,720	157,814	160,970
Deferred Cost W/O	18,462	0	0	0	0	0	0
Heat/Fuel Oil	33,156	22,469	33,752	34,765	35,460	36,169	36,892
Insurance	6,355	5,709	10,798	11,122	11,344	11,571	11,802
Materials & Supplies	57,651	51,581	51,769	53,322	54,388	55,476	56,586
Other Expense	4,069	9,402	5,440	5,603	5,715	5,829	5,946
Purchased Power	227,291	232,623	251,974	251,974	251,974	251,974	251,974
Regulatory/Taxes	3,627	0	39,145	40,319	41,125	41,948	42,787
Tele/Other Utilities	30,108	25,713	34,504	35,539	36,250	36,975	37,715
Transportation	6,748	13,296	13,298	13,697	13,971	14,250	14,535
SS - Administration	312,996	351,613	365,694	383,064	393,598	404,422	415,544
SS - Engineering Services	58,876	103,417	114,912	120,370	123,680	127,081	130,576
SS - Environmental Services	121,340	116,805	110,453	115,700	118,882	122,151	125,510
SS - Wastewater Services	174,887	198,853	197,656	193,045	198,354	203,809	209,414
SS - Water Services	3,938	7,176	7,412	7,764	7,978	8,197	8,422
	2,017,502	2,062,088	2,240,354	2,305,436	2,354,797	2,405,472	2,457,500
Debt Service							
Debt Service	612,360	613,592	779,373	929,718	1,065,838	1,055,548	1,060,775
Renewal & Replacement - Direct	300,000	270,000	168,000	168,000	168,000	168,000	168,000
Renewal & Replace - Indirect	51,384	46,780	52,535	23,577	23,577	23,577	23,577
Capital Finance Expense	963,744	930,372	999,908	1,121,295	1,257,415	1,247,125	1,252,352
Total Operating Expenses	2,981,246	2,992,460	3,240,262	3,426,731	3,612,212	3,652,597	3,709,852
Current Year Surplus(Deficit)	-28,372	0	0	0	0	0	0
Prior Year Surplus	851,256	771,710	638,566	638,566	638,566	638,566	638,566
Accumulated Surplus	822,884	771,710	638,566	638,566	638,566	638,566	638,566
Target Balance(25% of budget)	745,312	748,115	810,066	856,683	903,053	913,149	927,463
Above/(Below)	77,572	23,595	-171,500	-218,117	-264,487	-274,583	-288,897

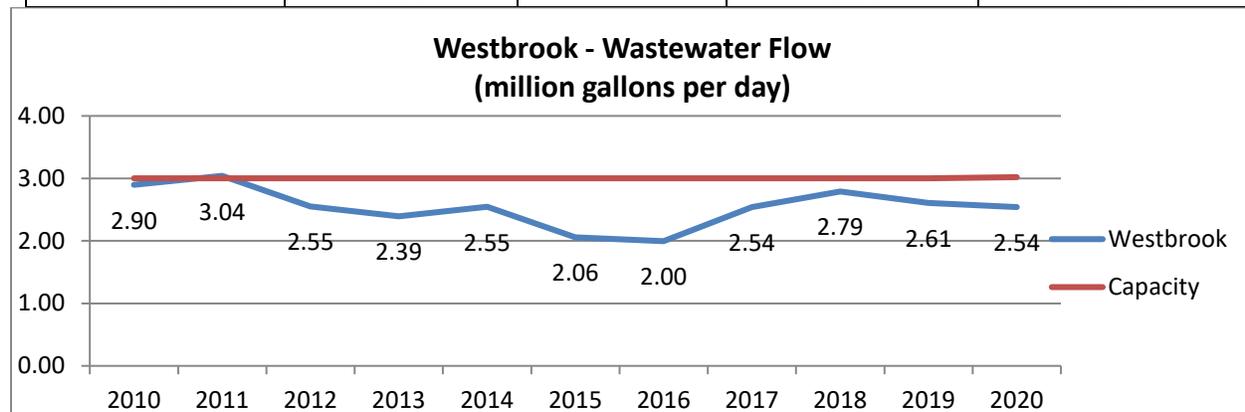
Capital Expenditures: (See details in the Capital Expenditure section) Target Balance: \$1,131,000

	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
	<u>Budget</u>	<u>Forecast</u>	<u>Forecast</u>	<u>Forecast</u>	<u>Forecast</u>
R&R Balance BOY	\$ 3,842,876	\$ 3,890,976	\$ 3,995,686	\$ 3,843,986	\$ 3,875,436
Contribution	\$ 168,000	\$ 168,000	\$ 168,000	\$ 168,000	\$ 168,000
Withdrawals	\$ (119,900)	\$ (63,290)	\$ (319,700)	\$ (136,550)	\$ (103,250)
R&R Balance EOY	\$ 3,890,976	\$ 3,995,686	\$ 3,843,986	\$ 3,875,436	\$ 3,940,186

Operation Summary

Wastewater Treatment: The wastewater generated in the City of Westbrook is pumped to the Westbrook/Gorham/Windham Regional WWTF on Park Road. Flows from the Little Falls section of Gorham and the Town of Windham, including the Maine Correctional Center, are conveyed to this facility. The table below depicts flows from each contributing community. The chart illustrates capacity used for each community and total plant capacity being used based on the treatment plant capacity of 4.54 MGD.

Municipality (Design Flow)	2020 Flow (mgd)	% of 2020 WWTF Flow	Reserved Capacity (mgd)	% of Capacity Used
Westbrook (66.6%)	2.54	83.6 %	3.023	84 %
Gorham (30.8%)	0.41	13.5 %	1.398	29 %
Windham (2.6%)	0.088	2.9 %	0.118	75 %
Total Plant Flow	3.04		4.54	67 %



The following tables depict some of the key parameters that are monitored at the facility.

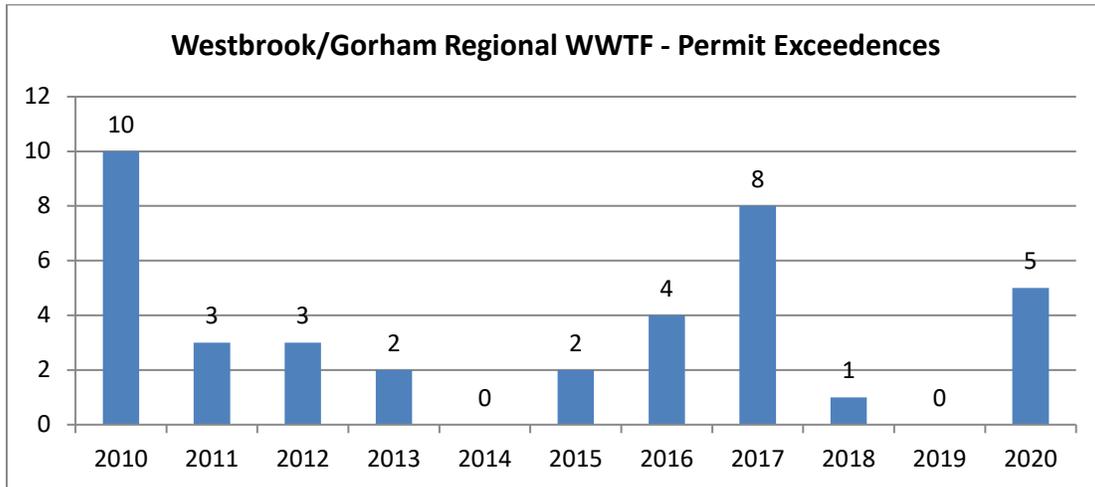
WGWWTF Parameter	DEP Limit	2020 Facility Average
Biosolids Removed (wet tons/month)	N/A	370 wet ton/month

Parameter	Discussion
Biological Oxygen Demand (BOD)	Measure of organic material and the strength of pollution. The treatment plant removed 96% of the BOD, well above the required 85% removal.
Total Suspended Solids (TSS)	Measure of suspended material in the incoming wastewater. The treatment plant removed 96% of the TSS, well above the required 85% removal.
Total Residual Chlorine	Used for disinfecting the treated effluent, chlorine must be removed before the effluent is discharged. The permit limit was met at all times.
Fecal Coliform Bacteria	Following disinfection with chlorine, the fecal coliform level is monitored to confirm the treatment plant effluent was properly disinfected.
Phosphorus	The renewed 5-year permit includes a requirement to monitor phosphorus in the plant's effluent discharge. Phosphorus can contribute to water quality concerns that might include algae and low dissolved oxygen. The monitoring will likely create a baseline for consideration if effluent permit limitations are established in the future.

Operation Summary (continued)

Effluent Permit Requirements:

The effluent permit was renewed in 2017. The permit included reductions in effluent monitoring requirements due to the plant's past performance and the inclusion of a requirement to monitor effluent phosphorus. The City of Westbrook is a joint permittee for their obligations under the CSO Long Term Control Plan.



Wastewater Conveyance – interceptors and pumping stations

Parameter	2021 Actual to Sept	2022 Projected
Preventive Work Orders	79	72
Corrective Work Orders	8	20
Wet wells cleaned	18	3
Debris removed (tons)	24.4	35
Dry Weather Overflows	0	0

2021 Other Highlights

- The Asset Management Program continues to drive the preventive maintenance program, generating both monthly and annual preventive maintenance work orders for each of the pump stations. The Maintenance Manager/Planner Scheduler position, which was created in 2018, has helped to increase reliance on our program and is helping to implement a new system.
- The aeration system at the Westbrook/Gorham/Windham Regional WWTF was evaluated in 2015. Several possible approaches to design of the new system were identified and are dependent on future phosphorus permit limits. The loadings to the treatment facility have increased and are creating some operational challenges and additional costs. Construction of the project is underway and will continue for the new couple of years.

2021 Other Highlights (continued)

- Recognizing the increased loading at the treatment plant and in anticipation of the aeration system upgrade in 2021, acceptance of septage at the plant has ceased until after the completion of the aeration upgrade. Septage is being accepted at the East End WWTF in Portland.
- The dewatering polymer system was upgraded and odor control units are being installed in the solids handling areas of the process building to reduce plant odors.
- Wet wells will continue to be scheduled for cleaning on a quarterly basis at the three pump stations in Westbrook.
- Construction of the recent upgrade of the Dana Court Pump Station took place in 2018-2019. This is the final of the three large stations in Westbrook to have an upgrade completed (Cottage Place and East Bridge St. upgrades were completed in the past). The upgrade included the installation of a new screening system that was similar to the system previously installed at the other pump stations in Westbrook.
- The new dewatering system (screw press) at the treatment facility was installed in 2018. Following an extended start-up, the Operations Team has been able to optimize the equipment and performance of the system has increased dramatically. This resulted in decreased costs related to the management of biosolids produced at the treatment plant.

2022 Work Plan

- The Asset Management Program will continue to drive the preventive maintenance program, generating both monthly and annual preventive maintenance work orders for each of the pump stations.
- Wet wells will continue to be scheduled for cleaning on a quarterly basis.
- Construction of the aeration system at the treatment plant will continue and the plant team will be working to operate the facility through the project.
- A modernization of the treatment plant's locker rooms will be completed to better meet the needs of our changing workforce.
- The screens at our feeder pump stations (which supply all of the flow to the treatment plant) will be replaced with finer screens that will remove additional materials. This is expected to protect the equipment installed during the aeration system upgrade.
- An assessment of long-term biosolids management options will be completed in response to contaminants of emerging concern, like PFAS, and instability in the solid waste management systems in Maine have created significant instability. This assessment will help determine future approaches to manage biosolids.

Capital Summary

A five-year capital plan is updated each year. The projects are prioritized based on operational needs and financing availability. The table below indicates the projects scheduled for the next fiscal year and the funding source of those projects. Detailed descriptions of the projects can be found in the Capital Finance and Capital Expenditures sections.

Expenditures by CIP Year:

	<u>Prior CIP</u>	<u>2022 CIP</u>	<u>Total</u>
Projects:			
WW Collection & Pumping			
Westbrook Pump Station R&R - 3134		\$ 20,000	\$ 20,000
WW Treatment			
Aeration & Clarifier Construction - 3023 (prorated)	\$ 5,328,000		\$ 5,328,000
Treatment Plant R&R - 3132 (prorated)		\$ 33,300	\$ 33,300
Locker Room Renovation - 3247 (prorated)		\$ 66,600	\$ 66,600
Total by CIP Year	<u>\$ 5,328,000</u>	<u>\$ 119,900</u>	<u>\$ 5,447,900</u>

Source of Funds:

	<u>R&R Fund</u>	<u>Bond Issue 2022</u>	<u>Bond Issue > 2022</u>	<u>Total Funding</u>
Beginning Balance	\$ 3,842,876			
2022 Contribution	\$ 168,000			
Total R&R Balance Available	<u>\$ 4,010,876</u>			
Projects:				
WW Collection & Pumping	\$ 20,000			\$ 20,000
WW Treatment	\$ 99,900	\$ 2,664,000	\$ 2,664,000	\$ 5,427,900
Total	<u>\$ 119,900</u>	<u>\$ 2,664,000</u>	<u>\$ 2,664,000</u>	<u>\$ 5,447,900</u>
Ending Balance	<u>\$ 3,890,976</u>			

Prorated Projects: Costs of projects done on infrastructure used by multiple communities are 'prorated' between the municipalities based on relative design capacity.

Gorham/Westbrook/Windham Wastewater

Westbrook Regional Treatment Plant

The Westbrook Regional WWTF was brought online in the mid '70s. Over the years the District has completed various improvements including:

- Plant water system (2006)
- Clarifier scum removal (2006)
- Scum handling, and sludge conveyances control (2006)
- Plant electrical system – Standby Generator (2008)
- Polymer system (2010)
- RAS pumps (2011)
- Plant Control System (2013)
- RAS distribution and flow split to the secondary clarifiers (2014)
- Sludge Dewatering (2018)

Proposed major modifications for a headworks upgrade were set aside in favor of installing screens at the two major pump stations feeding the treatment plant. Start-up of these systems at the Cottage Place and East Bridge St. Pump Stations in 2008 successfully eliminated pump plugging and has reduced the quantity of rags at the treatment plant. Additional improvements to reduce the spacing of the screens at the pump stations are planned to begin in winter 2021 to further remove rags and debris from the plant influent.

In 2013, design and replacement of the control system began. This was completed in 2014 along with chemical feed pumps, residual samplers, and enhanced automation of the disinfection system.

The aeration system was evaluated in 2015 to develop a roadmap for the eventual upgrade of the aeration system as it nears the end of its service life. The 2019 CIP included design phase services to upgrade the aeration system and secondary clarification process. These upgrades will facilitate process control to maintain dissolved oxygen to meet today's loadings, match current peak demand, and provide more energy efficient oxygen delivery. Similar to the East End plant in Portland, a selector is recommended to enhance process control and improve settleability.



The secondary clarification process at Westbrook has not been upgraded or modified since its original construction and the sludge withdrawal mechanisms are nearing the end of their useful life based on an assessment of the clarifiers completed in 2016. Construction of the aeration and secondary clarification upgrade is underway and scheduled for completion by the summer of 2023. In addition to much needed replacement of the aeration and secondary clarification equipment, the upgrades will include new power distribution systems and electrical switchgear.

Gorham/Westbrook/Windham Wastewater (continued)

In 2015, the District completed an evaluation of sludge dewatering technologies for the Westbrook Regional WWTF, including rehabilitation of the existing belt filter press. Alternative technologies were piloted to quantify the improvement in dewatering performance as compared to the existing equipment. It was determined that alternative technologies would increase the dewatered sludge solids content from an average of approximately 16% to a minimum of 20%, which significantly reduces the volume of sludge to be disposed. As a result, in 2016 the proposed belt filter press rehabilitation project was replaced with a proposed upgrade to an alternative technology (CIP #167 project 2534). In 2016, equipment was competitively procured and upgrade to a screw press began in January of 2017 and was completed in the spring of 2018. Design work to remove the belt filter press control panel, which includes a number of hard-wired interconnects with various system components, along with associated control system modifications is underway and expected to be complete by the end of 2021.

In 2020 the District competitively pre-procured a 3-way valve and pneumatic actuator to create a 4th discharge zone to facilitate more complete filling of the sludge storage container with the drier cake produced by the new screw press system. The new valve was installed along with a new control station and associated electrical during the summer of 2021.



2019 CIP 416 project 3001 - Cake Unloading Valve during installation

In 2020 the District designed improvements to the dewatering polymer handling system including competitive pre-procurement of a polymer makedown system and an improved tote storage area to facilitate access, polymer mixing, and complete tote drainage to maximize product usage. Construction of the new storage area is now complete and in use; work is in progress to bring the new makedown system online and complete control system testing and startup which is planned for fall 2021.



2019 CIP 416 project 3026 - Polymer System Improvements

Gorham/Westbrook/Windham Wastewater (continued)

Westbrook – Sewer System

In late 2007, the District hired Woodard & Curran, Brown & Caldwell and Jordan Environmental to update the City of Westbrook's CSO Master Plan. This plan was completed and submitted to Maine DEP in 2008. Some of the work included in the plan involved the City, and some involved the District. Because the City operates the collection system, the bulk of the first five years would focus on the removal of infiltration and inflow (I/I) from the City collection system. Later portions of the plan would include storage and other work on District owned assets. Since the plan was updated, all flow from all the CSO outfalls are now continuously monitored.

The plan was updated in 2014 and submitted to the DEP per the State's requirements. The plan included a summary of the work completed in the first 5 years and a revised set of projects and schedule. The projects that involve District facilities are being completed in accordance with the Master Plan and have included several projects to increase the capacity of the interceptor system. The Master Plan included upgrades and capacity increase at the Dana Court Pump Station (CIP #29 project 2527). This project was completed in 2019. The plan also included the addition of floatables containment at the CSO diversion structure prior to the Cottage Place pump station (CIP #29 project 2524). This project was completed in 2020. The District is currently considering proposals for engineering services to complete the next Master Plan update which will include improvements to the system model leveraging flow metering to calibrate it and assess the impact of the projects completed to date.

Gorham/Westbrook/Windham Wastewater (continued)

Gorham, Westbrook and Windham are served by a centralized wastewater treatment plant in Westbrook. Capital costs are allocated by each municipality's relative design capacity of the specific infrastructure.

Program Summary

	-2022-	-2023-	-2024-	-2025-	-2026-
▣ SCADA & Technology				\$25,000	
Westbrook Joint				\$25,000	
▣ WW Collection & Pumping	\$130,000	\$890,000	\$60,000	\$3,260,000	\$60,000
Gorham	\$20,000	\$350,000	\$20,000	\$20,000	\$20,000
Westbrook	\$20,000	\$20,000	\$20,000	\$3,220,000	\$20,000
Windham	\$90,000	\$520,000	\$20,000	\$20,000	\$20,000
▣ WW Treatment	\$10,150,000	\$65,000	\$1,200,000	\$700,000	\$2,125,000
Westbrook Joint	\$150,000	\$65,000	\$1,200,000	\$700,000	\$2,125,000
Windham	\$10,000,000				
Grand Total	\$10,280,000	\$955,000	\$1,260,000	\$3,985,000	\$2,185,000

Projects by Program

	-2022-	-2023-	-2024-	-2025-	-2026-
▣ SCADA & Technology				\$25,000	
177\3127\Westbrook SCADA Server Replacement Program				\$25,000	
▣ WW Collection & Pumping	\$130,000	\$890,000	\$60,000	\$3,260,000	\$60,000
180\3138\Windham- Little Falls WW System - R&R	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
29\3231\PEND - CSO Storage Facility				\$3,200,000	
411\3134\Westbrook WW Systems R&R	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
60\3137\Gorham WW Pump Station - R&R	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
60\3178\Gateway Commons PS Upgrades		\$85,000			
60\3179\Park South PS Upgrades		\$95,000			
60\3180\Briarwood PS Telemetry Upgrade		\$75,000			
60\3181\Meadowland PS Telemetry Upgrade		\$75,000			
180\3229\Rte 202 PS Generator Installation	\$70,000				
180\3139\Windham - Depot Street Pump Station		\$500,000			
▣ WW Treatment	\$10,150,000	\$65,000	\$1,200,000	\$700,000	\$2,125,000
416\3132\Westbrook Gorham Windham WWTF R&R	\$50,000	\$50,000	\$50,000		
416\3159\Plant Water System Rehab/Controls					\$125,000
416\3166\Process Area Ventilation Upgrades			\$750,000		
416\3190\Access Road and Parking Lot Resurfacing		\$15,000	\$400,000		
416\3191\TWAS Mixing System Replacement				\$150,000	
416\3198\WAS and GBT System Upgrade/Rehabilitation				\$350,000	
416\3232\Septage Screening Facilities				\$200,000	\$2,000,000
416\3247\Locker Room Renovation	\$100,000				
182\3241\North Windham WWTF	\$10,000,000				
Grand Total	\$10,280,000	\$955,000	\$1,260,000	\$3,985,000	\$2,185,000

Financing Summary

	-2022-	-2023-	-2024-	-2025-	-2026-
Bond	\$70,000	\$680,000	\$750,000	\$3,750,000	\$2,000,000
Bond SRF	\$10,000,000				
Renewal and Replacment	\$210,000	\$275,000	\$510,000	\$235,000	\$185,000
Grand Total	\$10,280,000	\$955,000	\$1,260,000	\$3,985,000	\$2,185,000

Subprogram # 29 Westbrook CSO Abatement

Division: Wastewater - Westbrook

Manager: Poulin, Charlene

Funding: Bond – Wastewater Div 62

Priority: Regulatory mandate

Description:

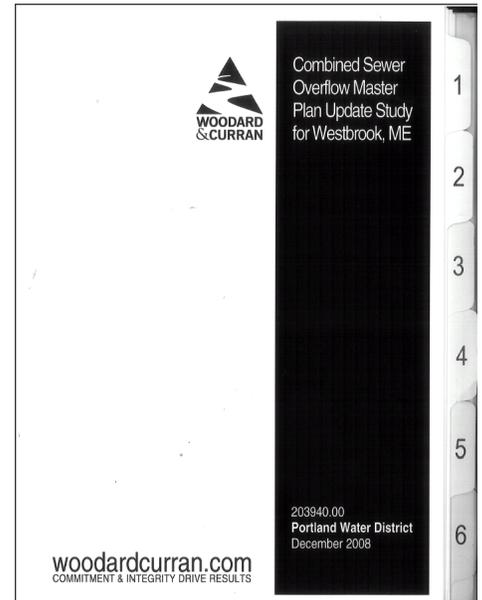
This project contemplates funding and programming the design and construction of projects recommended in a study that was completed by Woodard & Curran and Brown & Caldwell. The purpose of the study was to update the Westbrook CSO Master Plan.

Justification / Impact:

The District, City of Westbrook and the DEP agreed that an upgrade to the existing CSO Master Plan was favored over work previously scheduled for the sewer between Brown and King Streets. The Westbrook/Gorham/Windham WWTF license was renewed in 2006. Written into the new license was a requirement for the District to submit a CSO Master Plan update and abatement schedule on or before December 31, 2008. This was completed on time and submitted to DEP for their approval.

History:

King Street/Brown Street sewer work was put aside in lieu of updating the Westbrook CSO Master Plan. Project awarded to Woodard and Curran/Brown and Caldwell. Updated Master Plan due on or before 12/31/08 for Department review and approval.



Budget Summary:

PROJECTS	-2022-	-2023-	-2024-	-2025-	-2026-
Bond				\$3,200,000	
WW Collection & Pumping				\$3,200,000	
29\3231\PEND - CSO Storage Facility				\$3,200,000	
Grand Total				\$3,200,000	

Previous Years on CIP: 2000 to present

Weir at Warren Ave CSO



Subprogram # 411 Westbrooke WW Systems R&R

Division: Wastewater - Westbrook
Charlene

Manager: Poulin,

Funding: R&R - Wastewater – Div. 62
replacement

Priority: Routine

Description:

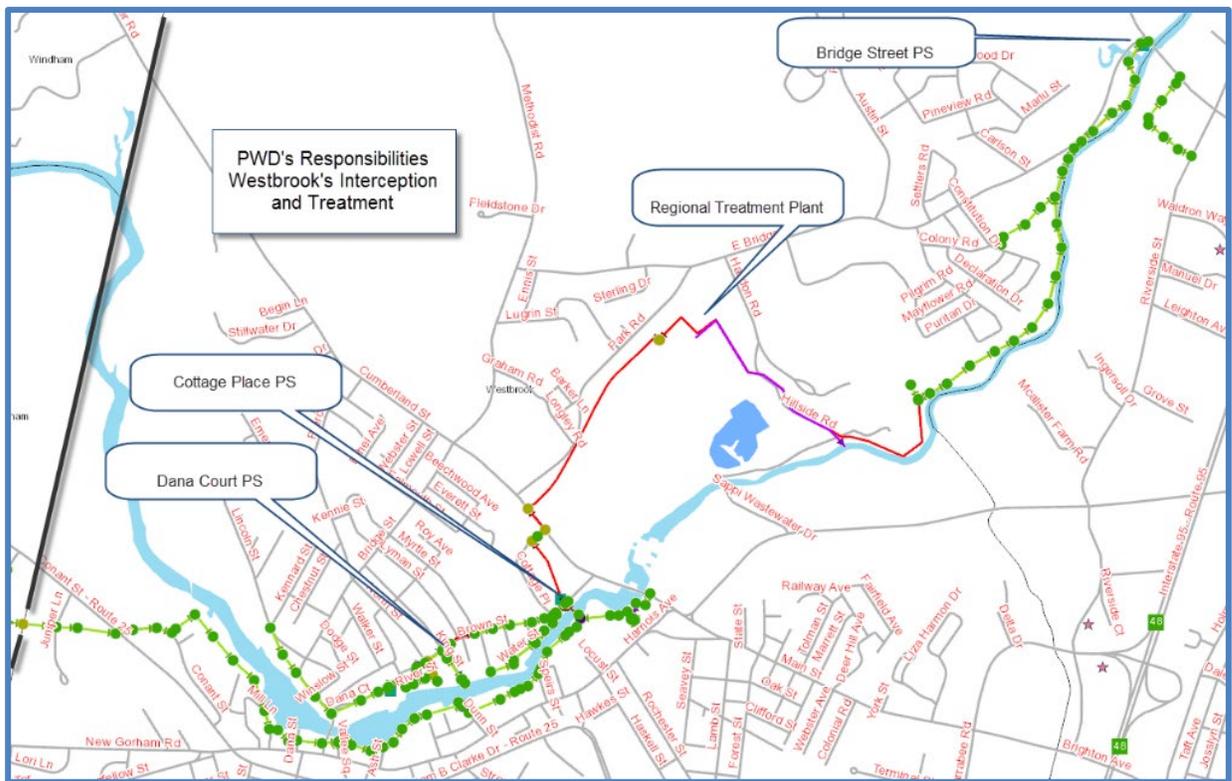
This project provides for the timely renewal of equipment associated with pump stations and the purchase of monitoring equipment for the interceptor system. Major pump stations have been recently upgraded but funds need to be available for replacement parts when necessary.

Justification / Impact:

An on-going study to upgrade the Westbrook CSO Master Plan will be complemented with the addition of a portable flow monitoring device.

Budget Summary:

PROJECTS	-2022-	-2023-	-2024-	-2025-	-2026-
Renewal and Replacement	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
WW Collection & Pumping	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
411\3134\Westbrook WW Systems R&R	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Grand Total	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000



Condition Assessment – Westbrook Pump Stations

2020 Westbrook Pump Station Report

Westbrook			
ID	Name	2020 rating	2014 rating
WEP43	Dana CT PS	4.61	2.90
WEP42	E. Bridge St. PS	3.79	3.85
WEP41	Cottage Place	3.66	3.93
Westbrook Average		4.02	3.56
PWD -All Average (74 Pump Stations)		3.72	3.47



East Bridge Pump Station



Cottage Street Pump Station



Dana Court Pump Station
New dry pit submersible
pumps installed in 2019

Subprogram # 416 Westbrook Gorham Windham Regional WWTF

Division: Wastewater - Joint Westbrook
Paul

Manager: Rodriguez,

Funding: Bonds, R&R – Wastewater- Div. 64
obsolete facility

Priority: Upgrade

Description:

Provide for plant upgrades required to continue to meet regulatory and operational requirements and for the timely routine replacement of equipment nearing the end of its service life. The main focus of the proposed projects is to improve plant performance and efficiency.

Justification / Impact:

Physical assets require scheduled maintenance and eventual replacement. Planned upgrades also include instrumentation and control in accordance with current industry practice and provide enhanced automation, monitoring and control of the treatment processes.

Regulatory requirements are continuously revised and updated by the EPA and administered by the Maine Department of Environmental Protection. This account provides for the equipment replacement and system upgrades necessary to continue to meet regulatory and operational requirements.



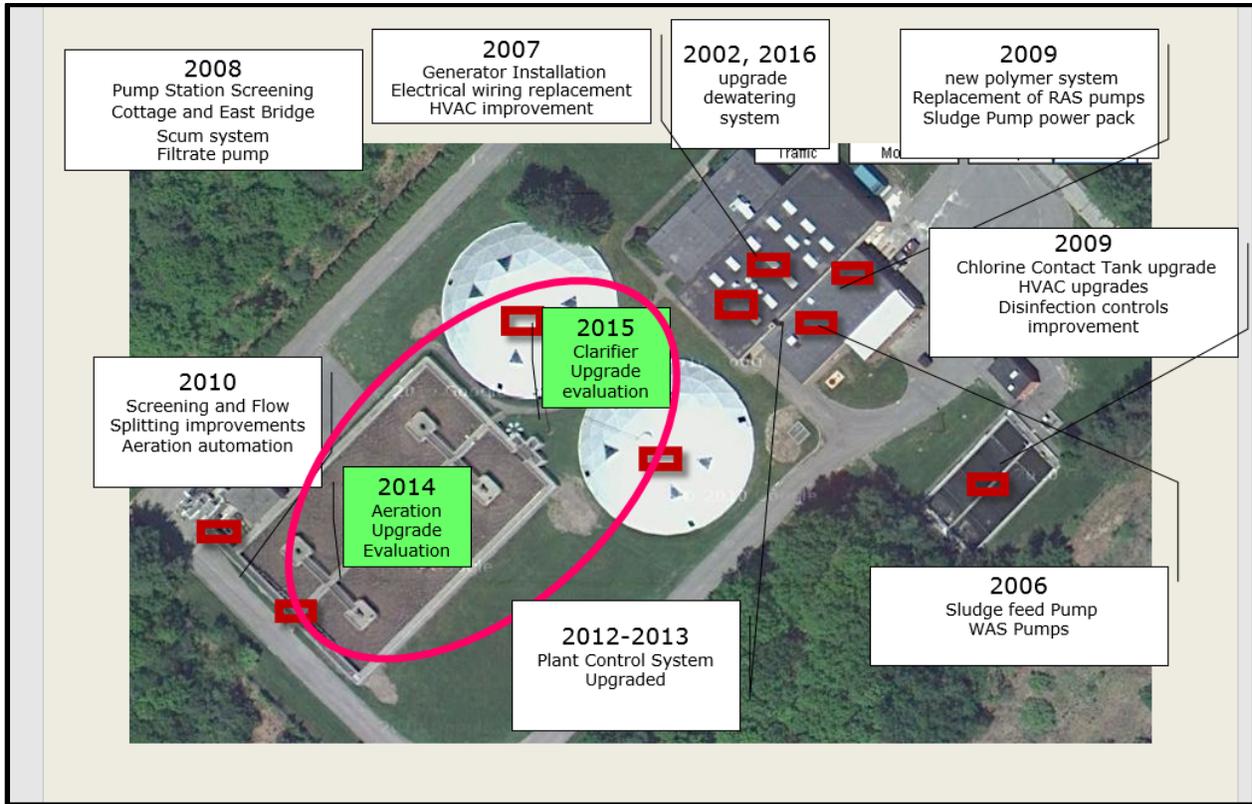
History:

To meet the goals of this subprogram the District is continuously engaged in the Capital Improvement Program Process described in the Introduction of the Capital Expenditures section. Recent planning and design efforts include the Aeration System Alternatives Analysis (2015), the Secondary Clarifier Condition Assessment (2016), and the Aeration and Secondary Clarification Upgrade Design (2019).

Budget Summary:

PROJECTS	-2022-	-2023-	-2024-	-2025-	-2026-
Bond			\$750,000	\$550,000	\$2,000,000
WW Treatment			\$750,000	\$550,000	\$2,000,000
416\3166\Process Area Ventilation Upgrades			\$750,000		
416\3198\WAS and GBT System Upgrade/Rehab				\$350,000	
416\3232\Septage Screening Facilities				\$200,000	\$2,000,000
Renewal and Replacement	\$150,000	\$65,000	\$450,000	\$150,000	\$125,000
WW Treatment	\$150,000	\$65,000	\$450,000	\$150,000	\$125,000
416\3132\Westbrook Gorham Windham WWTF R&R	\$50,000	\$50,000	\$50,000		
416\3159\Plant Water System Rehab/Controls					\$125,000
416\3190\Access Road and Parking Lot Resurfacing		\$15,000	\$400,000		
416\3191\TWAS Mixing System Replacement				\$150,000	
416\3247\Locker Room Renovation	\$100,000				
Grand Total	\$150,000	\$65,000	\$1,200,000	\$700,000	\$2,125,000

Subprogram # 416 Westbrooke Gorham Windham Regional WWTF



CIP 2020, Subprogram #416, Project # 3023: \$11,250,000 - Westbrooke aeration and secondary clarifier upgrade. Construction Started in 2021 with an anticipated two year construction duration. To the left is a diagram of the below grade aeration blower building.

