

# Water Pollution Control Facility

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## Outcomes:

- Maintain Effluent Compliance with MEPDES permit
- Keep CSOs to a minimum
- Maintain Stable Sewer Rates
- Maintain 4 Pump Stations and 4 Buildings at the Plant

## Mandates:

- Inspect and Maintain the Sanitary Sewer System and Infrastructure
- Comply with OSHA and Bureau of Labor Standards requirements
- Comply with Environmental Protection Agency and Maine Department of Environmental Protection laws and rules
- State Law requires Maintaining Town Owned Buildings and Equipment
- DEP is requiring WPCF to maintain cross country Right of Ways.

## Methods:

- Update and follow the sewer cleaning plan.
- Follow the preventive maintenance plan for plant equipment.
- Rehabilitate manholes
  - Monoform; Ring and Cover Resets; & Replacement
- Capital Investment in sewer line repair and replacement as well as plant equipment. Make use of sewer lining where possible to reduce costs and traffic problems.

## Resources:

### **Personnel**

- Superintendent
- Lab Tech/Operator
- Operator/Mechanic
- 3 Operators
- Seasonal Laborer (April - September)  
(shared with Public Works)

### **Equipment and Fleet Vehicles**

- 2014 Western Star Sludge Truck
- 2016 3500 Series GMC Dump Truck with Plow
- 2013 2500 Series GMC Pickup 4WD
- 2008 2500 Series GMC Pickup 2WD
- 2008 Sewer Flusher
- 2012 Dump Trailer
- 2007 Sewer Camera in a Trailer
- Le Roi Air Compressor
- 750 kW Caterpillar Diesel Generator

### **Facilities**

- Headworks Building
- Operations Building
- Disinfection Building
- Maintenance Garage
- Penobscot St. Pump Station w/generator
- Union St. Pump Station w/ generator
- College Ave Pump Station w/ generator
- Stillwater Ave Pump Station w/generator
- 23 miles of Sanitary Sewer lines
- 500 Sanitary Sewer Manholes

### **Financial (FY18-19 Budget)**

● Personnel:.....	\$ 497,337	
● Operating:.....	\$ 514,054	
● Debt Service:.....	\$ 581,569	
● Funding Reserves:.....	\$ 9,525	
● Capital Investment Projects:.....	\$ 160,000	
○ Replace the Shingles on the Headworks		\$ 40,000
○ Kell St. Interceptor Repair Phase #2		\$ 30,000
○ Line Margin St. Sewer North Side		\$ 55,000
○ Engineering for Chapel Road Project		\$ 15,000
○ Miscellaneous Sewer Projects		\$ 20,000

### **Areas of Discussion**

- The Town has been following a plan to slowly phase in a rate increase to ensure financial stability and adequate infrastructure investment of the WPCF. This began with rate increases on Jan 1, 2017 and Jan 1, 2018 of \$0.06/100 cu ft and \$0.10/100 cu ft respectively. The plan had originally called for a \$0.10/100 cu ft increase on Jan 1, 2019; however, a sharp increase in the bond repayment principle in FY19 requires an increase of \$0.25/100 cu ft on July 1st, 2018. A household that is billed for minimum usage (1200 cu/quarter) would see an increase of \$3/quarter or \$12/year while a typical family of four would see an increase of \$5.75/quarter or \$23/year and the largest user's (UMaine) bill would increase approximately \$36,000 for the year. This is a one time increase in the WPCF debt repayment; however, to adequately fund the Town should continue with slow annual rate increases that will bring Orono's user fees more in line with the region and comparable systems.

### **Areas of Concern:**

- Where are State and Federal regulations headed?
- Proposed rate increase?
- Lack of funding into the reserves for FY19?

### **Opportunities for Reduced Service Level:**

- Given that WPCF operation's are heavily regulated by the state and federal government - and, that increased operational service levels are aimed at employing best practices where feasible to reduce Town liability and sewer backups into customer properties, options are limited to reduce services. The Council could elect to scale back on capital projects which would in turn allow a reduction in the level of funding into the Sewer Infrastructure Reserve Account.

**Town of Orono - Water Pollution Control Facility (WPCF)**

**Service Levels**

<b>Tier I:</b>	Minimum service level required by law regardless of need
<b>Tier II:</b>	Minimum requirements to meet basic needs of the community
<b>Tier III:</b>	Meets or exceeds service level required by law, utilizes best practices and provides additional services to meet needs of the community
<b>Tier IV:</b>	Highest level of service available, meeting all needs and wants of the entire community

**Current Level of Service** Best approximation of current level of services provided

<b>Service</b>	<b>Tier I:</b>	<b>Tier II:</b>	<b>Tier III:</b>	<b>Tier IV:</b>
<b>Maintain DEP compliance for licensed management responsibility Grade 4 or higher.</b>	Contract with an Engineering firm for contract operations. Town has no staff at the WPCF. All lab work is done by a contract lab.	Engineering firm supplies management responsibility. Town staff does lab work and maintenance.	<b>Minimum Grade 4 operator has management responsibility. Town staff does maintenance and lab work. Town Office supplies billing, clerical and finance support.</b>	Staff with a Superintendent and a Chief Operator (each with at least a Grade 4 License). Employ engineering and administrative (billing, clerical, and finance) support in-house (at the WPCF).
<b>Method of Treatment for Waste water</b>	Treat influent with conventional activated sludge process - no nitrate pumps and no mixers.	Use current treatment process, with mixers and nitrate pumps, but use sodium hypochlorite instead of ultraviolet disinfection.	<b>Use 4 parts of the 5 part Bardenpho system built in the upgrade. Currently, the Town utilizes all but the selectors that would be needed to remove phosphorus. Since this is not a requirement of the Town's license, we do not use this process.</b>	Use all 5 parts of the 5 part Bardenpho system built for the Orono WPCF
<b>Maintain the Collection system</b>	Flush and remove roots from collection system only when called to respond to a blockage or system problem. Allow paving to bury rings and covers and lift only when access to the manhole is needed.	Flush and remove roots from 1/3 of the collection system each year. Adjust Rings and covers to grade on a proactive basis to ensure efficient access to manholes.	<b>Flush and remove roots from 2/3 of the accessible collection system each year. Adjust rings and covers to grade on a proactive basis. Replace covers as needed to keep the system as water tight as possible and reduce risk to the public associated with ill fitting covers. Manage the cross country rights of way on a priority basis.</b>	Clean entire system and routine maintenance on all rights of way annually. Replace old style rings and covers with gasketed covers to reduce water inflow.
<b>Disinfection</b>	Disinfect with bleach	Disinfect with bleach and keep the chlorine residual down with Sodium Bisulfate.	<b>Disinfect with ultraviolet light.</b>	Disinfect with ultra violet light and store water for reuse.

Town of Orono - Water Pollution Control Facility (WPCF)

Service Levels

- Tier I: Minimum service level required by law regardless of need
- Tier II: Minimum requirements to meet basic needs of the community
- Tier III: Meets or exceeds service level required by law, utilizes best practices and provides additional services to meet needs of the community
- Tier IV: Highest level of service available, meeting all needs and wants of the entire community

Current Level of Service: Best approximation of current level of services provided

Service	Tier I:	Tier II:	Tier III:	Tier IV:
<b>Plant Maintenance</b>	Repair equipment and systems when they breakdown.	Do breakdown maintenance and some preventive maintenance	<b>Maintain the plant based upon a developed and updated proactive preventative maintenance plan. Update/upgrade equipment as needed to improve processes and ensure efficient operations.</b>	Utilize computerized preventive maintenance plan that generates workorders and maintains easily accessible documentation of work accomplished.
<b>CSO Compliance</b>	File the report annually, update the CSO Master Plan every five years, and fix obvious areas of water infiltration and inflow. Manage CSO events without operational changes.	File the report annually, update the CSO Master Plan every five years, and fix and have a proactive plan for addressing known areas of water infiltration and inflow. Manage CSO events by changing operations during the event.	<b>File the report annually, update the CSO Master Plan every five years, and fix and have a proactive plan for actively investigating collection system for potential problem areas; allocating \$100K plus per year for collection system upgrades. Proactively planning for and upgrading operations in anticipation of CSO events.</b>	File the report annually, update the CSO Master Plan every five years, and fix and have a proactive plan for actively investigating collection system for potential problem areas; allocating \$250-350K plus per year for collection system upgrades. Construct containment infrastructure to hold excess water during CSO events.
<b>Staff</b>	3 people, grade 4 licensed operation. 24-hour response to calls, weekend testing and inspection	4 people, grade 4, weekend testing and inspection	<b>5-6 people, grade 4, weekend, on-call, collection specialist, lab specialist, and mechanical specialist</b>	According to EPA guidance, this level of service requires 8 people - including a Grade 4 licensed operator, specialists, weekend testing and inspection, and 24-hour response to calls.

**TOWN OF ORONO**  
**WPCF PROPOSED FY 2018 REVENUE BUDGET**  
**July 1, 2018 - June 30, 2019**

	<b>Budget Net</b>	<b>YTD Net</b>	<b>Uncollected Balance</b>	<b>Estimated FY19</b>	<b>Variance</b>	<b>% Variance</b>	
78- WPCF							
<b>78 - WPCF</b>	<b>\$ 1,494,928</b>	<b>\$ 1,111,848</b>	<b>\$ 383,080</b>	<b>\$ 1,602,485</b>	<b>\$ 107,557</b>	<b>7.19%</b>	
4100 General Sewer Revenue	\$ -	\$ 725		\$ 100			
4200 Sewer Billings	\$ 1,475,128	\$ 1,090,922	\$ 384,206	\$ 1,555,735	\$ 80,607	5.46%	
4201 Sewer Connection Fees	\$ 1,000	\$ -	\$ 1,000	\$ 100	\$ (900)	-90.00%	
4203 Sewer Application & Inspection	\$ 500	\$ 180	\$ 320	\$ 500	\$ -	0.00%	
4204 Rental of Sewer Equipment	\$ 100	\$ 280	\$ (180)	\$ 350	\$ 250	250.00%	
4400 Earnings on Investments	\$ 12,000	\$ 14,856	\$ (2,856)	\$ 38,000	\$ 26,000	216.67%	
4500 Lien Costs & Deeds	\$ 1,200	\$ 2,061	\$ (861)	\$ 2,800	\$ 1,600	133.33%	4.9
4501 Interest on Overdue Bills	\$ 5,000	\$ 3,548	\$ 1,452	\$ 5,000	\$ -	0.00%	
<b>USE OF FUNDS</b>	<b>\$ 360,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (360,000)</b>	<b>-100.00%</b>	
Equipment Reserve	\$ 60,000				\$ (60,000)	-100.00%	
Capital Reserve	\$ 70,000				\$ (70,000)	-100.00%	
Sewer Infrastructure Reserve	\$ 230,000	\$ -	\$ -		\$ (230,000)	-100.00%	

## WATER POLLUTION CONTROL FUND (FUND 78)

Account Description	FY2018 Approved Budget	YTD Expended	FY2018 Unexpended	FY2019 Proposed Budget	Difference \$	Difference %	Comments:
WPCF (78)							
78 - WPCF							
Full-Time Salaries	\$ 264,294	\$ 192,039	\$ 72,255	\$ 306,653	\$ 42,359	16%	WPCF has added a new position.
Overtime	\$ 12,000	\$ 6,555	\$ 5,445	\$ 12,000	\$ -	0%	Weekend duty and call backs
On-Call Pay	\$ 5,720	\$ 4,235	\$ 1,485	\$ 5,840	\$ 120	2%	Used the wrong number last year
Health Insurance	\$ 63,370	\$ 50,285	\$ 13,085	\$ 106,881	\$ 43,511	69%	Added 1 staff person to the increase
MPERS Retirement	\$ 27,073	\$ 19,470	\$ 7,603	\$ 34,343	\$ 7,270	27%	
FICA/Medicare	\$ 21,574	\$ 14,689	\$ 6,885	\$ 23,459	\$ 1,885	9%	
Workers Compensation	\$ 6,800	\$ 5,021	\$ 1,779	\$ 8,160	\$ 1,360	20%	
Clothing Allowance	\$ 2,890	\$ 1,250	\$ 1,640	\$ 3,415	\$ 525	18%	\$525 per man per year. We added one more man this year.
Travel	\$ 1,000	\$ -	\$ 1,000	\$ 1,000	\$ -	0%	Travel to conventions and training
Training	\$ 2,600	\$ 392	\$ 2,208	\$ 2,900	\$ 300	12%	Licensed operators need 18 credit hours in 2 years. we have added staff
Membership Dues	\$ 1,260	\$ 3,545	\$ (2,285)	\$ 1,830	\$ 570	45%	MEWEA memberships for 6, MRWA membership, license renewals
Advertising	\$ 350	\$ 544	\$ (194)	\$ 350	\$ -	0%	Advertising or public notices
Technology Supplies	\$ 2,500	\$ 1,433	\$ 1,067	\$ 2,500	\$ -	0%	Maintain 4 computer stations, SCADA & pump station communications
Cell Phone Expense	\$ 1,420	\$ 543	\$ 877	\$ 700	\$ (720)	-51%	We did away with 1 cell phone
Telephone/Internet	\$ 2,160	\$ 1,594	\$ 566	\$ 2,160	\$ -	0%	
Internet			\$ -		\$ -		
Pager	\$ 220	\$ 241	\$ (21)	\$ 335	\$ 115	52%	Had to replace a pager last year for \$113
Postage	\$ 2,800	\$ 2,518	\$ 282	\$ 3,650	\$ 850	30%	Sewer billing postage and sewer liens. We are putting out liens and billing more accounts.
Cleaning Supplies	\$ 1,815	\$ 419	\$ 1,396	\$ 1,815	\$ -	0%	Floor soap, restroom supplies, truck cleaning supplies
Chemicals	\$ 22,000	\$ 13,061	\$ 8,939	\$ 22,000	\$ -	0%	Polymer, Sodium Bicarbonate, Lime, Sodium Hypochlorite
Billing Supplies	\$ 1,000	\$ 1,166	\$ (166)	\$ 2,060	\$ 1,060	106%	This account and postage pays for sewer billing. We are billing more accounts.
Building Supplies			\$ -		\$ -		
Lab Supplies	\$ 5,835	\$ 5,022	\$ 813	\$ 5,835	\$ -	0%	Reagents, glassware, PH & BOD probes, e-coli testing
Maintenance	\$ 5,220	\$ 3,711	\$ 1,509	\$ 5,220	\$ -	0%	The largest part of this account is Oil, grease & oil filters
Minor Equipment	\$ 2,665	\$ 2,448	\$ 217	\$ 2,665	\$ -	0%	Tools, washdown hoses, ground work tools
Equipment Rental	\$ 1,000	\$ 573	\$ 427	\$ 1,000	\$ -	0%	last year we rented scaffolding, large drills
Equipment Repair	\$ 7,500	\$ 4,119	\$ 3,381	\$ 7,500	\$ -	0%	\$6000 is for electric repair
Safety Equipment	\$ 6,200	\$ 2,057	\$ 4,143	\$ 8,445	\$ 2,245	36%	Added Staging and a new gas detector
Repair Parts	\$ 3,500	\$ 2,544	\$ 956	\$ 4,700	\$ 1,200	34%	Added \$1200 for Clarifier skimmers
Equipment Replacement	\$ 12,450	\$ 6,296	\$ 6,154	\$ 12,750	\$ 300	2%	Added new belts for belt press \$3500
Heating Oil	\$ 12,600	\$ 10,516	\$ 2,084	\$ 9,000	\$ (3,600)	-29%	The price of fuel is down and we used less last year
LP Gas	\$ 2,750	\$ 1,585	\$ 1,165	\$ 2,750	\$ -	0%	For the pump stations and disinfection building
Electricity	\$ 100,000	\$ 68,046	\$ 31,954	\$ 110,000	\$ 10,000	10%	Emera is planning an increase
Electricity Pump Station	\$ 8,000	\$ 4,544	\$ 3,456	\$ 8,800	\$ 800	10%	Hopefully 10% will cover it
Water	\$ 2,500	\$ 1,730	\$ 770	\$ 2,500	\$ -	0%	Potable water used at the plant, 2 pump stations and the hydrant
Repairs/Maintenance to Buil	\$ 7,000	\$ 5,541	\$ 1,459	\$ 5,000	\$ (2,000)	-29%	Last year had \$4000 for hot top repair
Sewer Line Repair/Maintena	\$ 15,000	\$ 3,294	\$ 11,706	\$ 15,000	\$ -	0%	Rings & covers, raising to grade, manhole repairs
Vehicle Repair/Maintenance	\$ 4,500	\$ 1,078	\$ 3,422	\$ 4,500	\$ -	0%	Maintain 4 vehicles

## WATER POLLUTION CONTROL FUND (FUND 78)

Account Description	FY2018 Approved Budget	YTD Expended	FY2018 Unexpended	FY2019 Proposed Budget	Difference \$	Difference %	Comments:
Gasoline	\$ 2,500	\$ 1,449	\$ 1,051	\$ 2,500	\$ -	0%	Gas for 3 vehicles, lawn mowers,
Diesel	\$ 3,600	\$ 1,812	\$ 1,788	\$ 3,600	\$ -	0%	Fuel for 1 dump truck, the sewer flusher and 4 generators
Medical Testing	\$ 500	\$ 200	\$ 300	\$ 500	\$ -	0%	Random drug testing for CDL license holders
Legal Services	\$ 2,500	\$ 3,632	\$ (1,132)	\$ 2,500	\$ -	0%	Just in case
Audit Services	\$ 5,750	\$ 4,724	\$ 1,026	\$ 6,375	\$ 625	11%	WPCF's share of the Audit
Liens and Deeds	\$ 2,500	\$ 2,128	\$ 372	\$ 2,500	\$ -	0%	
Licensing	\$ 2,100	\$ 2,486	\$ (386)	\$ 2,200	\$ 100	5%	Stormwater fee, MEPDES permit, Generator Air permit
Contractor Services	\$ 28,040	\$ 4,769	\$ 23,271	\$ 24,000	\$ (4,040)	-14%	Lab instrument calibration, Flow meter calibrations
Reimbursement for Administ	\$ 136,825	\$ 136,825	\$ -	\$ 136,825	\$ -	0%	
Reimbursement for Facilities	\$ 2,000	\$ 2,000	\$ -	\$ 2,000	\$ -	0%	David maintains our furnaces
Sludge Disposal	\$ 48,000	\$ 30,334	\$ 17,666	\$ 48,000	\$ -	0%	Land fill charges & quarterly sludge testing
MMA Risk Management	\$ 23,675	\$ 21,121	\$ 2,554	\$ 24,385	\$ 710	3%	
CSO Planning and Repair	\$ 7,500	\$ 7,500	\$ -	\$ 7,500	\$ -	0%	
WPCF Debt Principle Repay	\$ 165,000	\$ 165,000	\$ -	\$ 330,000	\$ 165,000	100%	
WPCF Debt Interest	\$ 258,994	\$ 130,734	\$ 128,260	\$ 251,569	\$ (7,425)	-3%	
Transfer to Capital Program	\$ 25,175	\$ -	\$ 25,175	\$ -	\$ (25,175)	-100%	
Transfer to Sewer Replacerr	\$ 65,000	\$ -	\$ 65,000	\$ 9,525	\$ (55,475)	-85%	
Transfer to Capital Equipem	\$ 74,000	\$ -	\$ 74,000	\$ -	\$ (74,000)	-100%	
Town Wellness	\$ 1,700	\$ -	\$ 1,700	\$ 789	\$ (911)	-54%	
	<b>\$ 1,494,925</b>	<b>\$ 956,815</b>	<b>\$ 538,110</b>	<b>\$ 1,602,485</b>	<b>\$ 107,560</b>	<b>7%</b>	

<b>Position</b>	<b>Wage Rate</b>	<b>Hours/Week</b>	<b>Total Wages</b>	<b>Health Insurance</b>	<b>MPERS</b>	<b>Total</b>
Operator	\$22.43	40.00	\$ 46,654.40	\$ 20,118.80	\$ 4,595.46	\$ 71,368.66
Operator	\$17.15	40.00	\$ 35,672.00	\$ 3,000.40	\$ 3,513.69	\$ 42,186.09
Operator	\$19.38	40.00	\$ 40,310.40	\$ 20,118.80	\$ 3,970.57	\$ 64,399.77
Operator	\$16.73	40.00	\$ 34,798.40	\$ 20,118.80	\$ 7,496.56	\$ 62,413.76
Superintendent/	\$36.59	40.00	\$ 76,107.20	\$ 20,118.80	\$ 7,496.56	\$ 103,722.56
Operator	\$24.72	40.00	\$ 51,417.60	\$ 20,118.80	\$ 5,064.63	\$ 76,601.03
Laborer	\$15.93	20.00	\$ 16,567.20	\$ 1,500.20	\$ 1,631.87	\$ 19,699.27
			<b>\$ 301,527.20</b>	<b>\$ 105,094.60</b>	<b>\$ 33,769.35</b>	<b>\$ 440,391.15</b>



**WATER POLLUTION CONTROL FUND (FUND 78)**

**Account Descriptio FY2018 Approved Budget YTD Expended FY2018 Unexpended FY2019 Proposed Budget Difference \$ Difference % Comments:**

WPCF (78)

**79 - WPCF Capital**

Pickup Truck	\$	60,000	\$	60,000		\$	(60,000)	-100%
Kell St Intercepto	\$	25,000	\$	25,000		\$	(25,000)	-100%
Mill St	\$	185,000	\$	185,000		\$	(185,000)	-100%
Misc Sewer	\$	20,000	\$	20,000	\$	20,000	-	0%
WPCF Clarifier	\$	70,000	\$	70,000		\$	(70,000)	-100%

**\$ 360,000 \$ - \$ 360,000 \$ 20,000 \$ (340,000) -94%**

**Town of Orono**

FY 2019 - 2023 Capital Improvement Plan

WPCF Capital Revenue & Expenses

July 1, 2018 - June 30, 2019

Department	Type of Capital	Description	FY 2017-2018 Approved	FY 2018-2019 Requested	FY 2019-2020 Projected	FY 2020-2021 Projected	FY 2021-2022 Projected	FY 2022-2023 Projected	Comments:
<b>Revenue Utilization Revenue</b>									
		WPCF Sewer Funds	\$ 60,000	\$ -	\$ 40,000	\$ -	\$ -		This represents the amount of money that needs to be collected from sewer fees to support the capital budget. The WPCF Capital Plan is designed to have current year projects funded through capital reserve accounts and the sewer fees used to add funds to the reserve accounts each year.
		Reserve - WPCF Capital Equipment	\$ 60,000	\$ -	\$ 40,000	\$ -	\$ -		
		Reserve - WPCF Capital Reserve	\$ 70,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	
		Reserve - WPCF Sewer Replacement	\$ 230,000	\$ 120,000	\$ 155,000	\$ 492,000	\$ 245,000	\$ 316,000	
		MDEP Planning Grant							
		Impact Fees							
		<b>Total Revenue Utilization</b>	<b>\$ 420,000</b>	<b>\$ 160,000</b>	<b>\$ 235,000</b>	<b>\$ 492,000</b>	<b>\$ 245,000</b>	<b>\$ 316,000</b>	
<b>Capital Projects</b>									
		4x4 GMC 3500 Series Pickup Truck w/ Plow & Dump Body	\$ 60,000						Staff proposed the replacement of the 3500 pickup truck - with a new plow and dump body to be used during daily WPCF operations. This a proposed replacement of the smallest pickup truck used daily by the department.
		4x4 Pick Up (Replacing 2008 2WD)			\$ 40,000				
		4X4 Pick Up (Replacing 2013)						\$ 45,000	
		<b>Total Capital Equipment</b>	<b>\$ 60,000</b>		<b>\$ 40,000</b>				
<b>Capital Facilities</b>									
		Sandblast and paint submerged steel #1 clarifier	\$ 70,000						The roofs of all the buildings at the WPCF were reshingled (or redone in the case of the flat roof) during the upgrade in 2008. All of the roofs look fine with the exception of the shingles on the headworks building which will need to be replaced.
		Replace the shingled roof on the headworks building		\$ 40,000					
		<b>Total Capital Facilities</b>	<b>\$ 70,000</b>	<b>\$ 40,000</b>					
<b>Capital Infrastructure</b>									
		Replace Mill St. sewer from Pleasant St. to the Stillwater Intercepto	\$ 185,000						Capital improvements to the collection system usually is aimed at repairing broken lines or reducing the water infiltration into the system. WPCF crew members are constantly working to identify problem areas in the system and prioritizing repair/rehabilitation projects. Broken or crumbling sewer mains allow dirt and roots into the system which can cause back-ups as well as creating an avenue for water to enter the system. Groundwater infiltration causes the plant to treat significantly more influent (which costs more money) and increases the risk of combined sewer overflow events (rawwater
		Kell Street Interceptor Design & Repair	\$ 25,000	\$ 30,000					
		Engineering for Bennoch Road upsize					\$ 36,000		
		Line Margin St. Sewer		\$ 55,000					
		Engineering for Chapel Road Project		\$ 15,000					

**Town of Orono**

FY 2019 - 2023 Capital Improvement Plan

WPCF Capital Revenue & Expenses

July 1, 2018 - June 30, 2019

Department	Type of Capital	Description	FY 2017-2018 Approved	FY 2018-2019 Requested	FY 2019-2020 Projected	FY 2020-2021 Projected	FY 2021-2022 Projected	FY 2022-2023 Projected	Comments:
		Miscellaneous Sewer Repair	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	risk of combined sewer overflow events (grey water sent directly to the river prior to treatment).
<b>Total Capital Infrastructure</b>			<b>\$ 230,000</b>	<b>\$ 120,000</b>	<b>\$ 155,000</b>	<b>\$ 492,000</b>	<b>\$ 245,000</b>	<b>\$ 316,000</b>	
<b>Total Capital Expenses</b>			<b>\$ 420,000</b>	<b>\$ 160,000</b>	<b>\$ 235,000</b>	<b>\$ 492,000</b>	<b>\$ 245,000</b>	<b>\$ 677,000</b>	

\* NOTE: Appropriations to reserves for the WPCF facility are calculated yearly during the development of the operating budget and will be added each year during that process.