

Meredith Sewer Department  
Meredith, New Hampshire

# Asset Management Plan

October 2025

**OSD LLC**

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October 22, 2025

Jason Bordeau  
Superintendent  
Town Of Meredith Water & Sewer  
50 Waukegan Street  
Meredith, NH 03253

Subject: Wastewater Asset Management Plan

Dear Mr. Bordeau:

OSD LLC is pleased to submit this wastewater asset management plan for the Meredith Sewer Department. This work was completed in accordance with our agreement and the New Hampshire Department of Environment Services (NHDES) Asset Management Grant Program.

In conjunction with you and your staff, we used CivicPlus, formerly known as Beehive Industries, asset management software to document the asset assessment portion of this project.

It has been a pleasure to work with you and your staff on this plan. We wish to express our appreciation to the Town of Meredith for their participation in this project and for their help in collecting information and data.

The sewer rates have not been raised since 2013 and will need to be increased to meet the current budget requirements and to fund the capital and maintenance plans recommended in this report. The 2025 sewer budget was \$1.4 million. The sewer budget is projected to be over \$2 million in 2036.

The projected budget reflects the true cost of operating and maintaining the sewer system. This includes funding capital projects and deferred maintenance projects as well as full implementation of a proactive maintenance program. This work reduces operating risks and addresses Meredith's infrastructure challenges.

As part of the asset management plan, we looked at future financial requirements for the next 10 years and potential funding sources. The primary revenue sources for Meredith are user fees and reserve funds. Additionally, a portion of the long-term debt is shared by the Meredith taxpayers.

To protect the affordability of water for basic needs and to recognize the benefits that all taxpayers of the Town of Meredith receive from water and sewer services provided in the downtown area, long term debt costs are borne by both taxpayers and water and sewer rate payers with rate payers paying 69% of the cost and taxpayers the remaining 31%. The Route 25

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sewer main project is one of the two proposed capital projects. With a preliminary budget of \$750,000, the taxpayers would be responsible for loan payments on 31% or \$232,500. The estimated annual debt service would be less than \$19,000 the first year.

Please note that the Sewer Reserves account is currently being used to pay for expenses that cannot be paid by the income received from water user fees and charges. The average revenue from 2020 to 2023 for the sewer department has been \$1,012,000. The average expenses during that period were \$1,040,000.

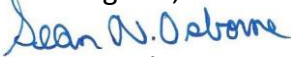
The Water Systems Improvements Expendable Trust Fund (ETF) could have been used to pay for some of the scheduled projects; however, in September 2021, the Capital Improvements Program (CIP) Advisory Committee recommended that the Water System Improvements ETF be closed and that those funds be reallocated to the DPW Equipment Replacement ETF. In 2022, Town Meeting approved this recommendation of the CIP Advisory Committee to transfer \$252,085 funds to the DPW Equipment ETF.

It is recommended that the Select Board consider increasing the sewer rates by 9% annually for the next 8 years to get the wastewater rates to a level that meets the projected revenue requirements of the department.

We also recommend that the non-metered flat rate be increased from \$137.48 to \$222.14, which is the current quarterly sewer bill for a single-family home with annual residential water use of 90,000 gallons per year. Increasing the flat rate and indexing it to the proposed sewer rate increases more equitably shares the true cost of service among metered and non-metered sewer customers.

If you have any questions, please do not hesitate to contact our office.

Kind regards,



Sean D. Osborne, PE  
Principal

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## Section 1 Introduction

The Meredith Water and Sewer Department operates a sewer collection system which serves over 1200 customers. 822 customers are served by the municipal water and sewer systems. 400 customers are served only by the sewer system.

The sewer collection system consists of approximately 17 miles of sewer mains and five pumping stations. Over the last ten years, the collection system has extended significantly while the manpower to maintain the system has not grown. This system is part of a regional sewer system known as the Winnepesaukee River Basin Program.

The Winnepesaukee River Basin Program (WRBP) is the state-owned sewer system serving portions of the New Hampshire Lakes Region communities of Center Harbor, Moultonborough, Gilford, Meredith, Laconia, Belmont, Sanbornton, Northfield, Tilton and Franklin.

Wastewater collected from Meredith and nine other Lakes Region communities is transported via an interceptor sewer and a series of pumping stations to a treatment plant located in Franklin.

*Wastewater Collection System Map is in Appendix A.*

The Meredith Sewer Department received a grant to complete an asset management plan.

During the completion of this plan, we scheduled a meeting with the public and town decision makers to develop Level of Service goals and to answer the core asset management questions:

1. What is the current state of the assets?
2. What is the required, sustained level of service?
3. Which assets are critical to sustained performance?
4. What is the best “minimum life cycle cost” capital improvement plan, and operation and maintenance strategies?
5. What is the best long-term financing strategy?

We trained sewer department staff to use CivicPlus, formerly known as Beehive Industries, asset management software to update and add new assets to the asset management program.

And we provided a financial spreadsheet that incorporates the revenue requirements.

## Section 2 Asset Analysis

The Meredith sewer system is composed of gravity sewer mains, force mains, manholes, and lift stations. Each of the water system's assets requires routine maintenance and rehabilitation to extend its useful life.

The sewer collection system includes approximately 17 miles of sewer main, 230 manholes and over 1400 sewer laterals.

There are also five wet well lift stations.

1. Cygnet Shores
2. Philbrook
3. Pollard
4. Route 3
5. Waukewan

A lift station, also known as a sewage lift station or wastewater lift station, moves wastewater from lower to higher elevations when gravity flow isn't possible or practical. Meredith's wet well lift stations collect wastewater in a basin (or "wet well") and use float switches or level sensors to activate pumps when the water reaches a certain level.

*A summary table of the asset inventory assessment is in Appendix B.*

### FOG and Non-Dispersibles

The Meredith Sewer Department regularly cleans and inspects its manholes and gravity sewers. During this work, the department regularly encounters two materials that should not be discharged into the collection system: Fats, Oil and Grease (FOG) and non-dispersibles/non flushables such as wipes. These substances impact the costs associated with system maintenance and operation and can lead to clogs and system failures which result in sanitary sewer overflows.

Per Sections 504 of the Meredith Sewer Ordinance, grease and oil traps shall be provided when, in the opinion of the Town, they are necessary for the proper handling of liquid wastes containing excessive amounts of grease or inflammable wastes. The operation and maintenance of the grease and oil traps is the responsibility of the owner. The enforcement of this provision can be optimized by clarifying which town employees are duly authorized to inspect and enforce the installation and operation of grease and oil traps.

Non-Dispersibles / Non Flushables, currently represents one of the largest problems for wastewater utilities and their customers in the region. Many communities are facing challenges associated with managing the issues of clogging pumps due to items such as hand wipes being flushed down the toilet and other items that do not break down (disperse). The impact and costs associated with these items on collection and treatment systems is substantial.

It is recommended that the Town of Meredith improve the public education and enforcement of the use of public sewers section of the Sewer Use Ordinance to reduce FOG and non-dispersibles in the sewer collection system.

### **Sewer Department Staff**

Sewer department staff are a critical asset. Per EPA, “For systems to properly implement an asset management program, it is first important for staff to be knowledgeable about the system and its operations.”

The sewer department is developing a robust asset maintenance program. This continuous maintenance program needs additional staff. We recommend that the budget be adjusted to fund 2 full-time technicians, 1 part-time technician, a chief operator, and a superintendent to more efficiently and effectively maintain and operate the town’s water and sewer systems.

### Section 3 True Cost of Service

Sewer rates should reflect the true cost of operating and maintaining a sewer system that preserves water quality in the Lakes and Rivers of Meredith, supports tourism and recreational opportunities, enhances economic and residential development, and helps create a prosperous and thriving environment with sustainable water resources.

The revenues generated by the sewer rates should be high enough to cover the full cost of operating and maintaining the sewer collection system, with a minimum of a 10-year planning horizon.

A planning horizon of ten years allows the sewer utility to avoid the high costs of deferred maintenance by budgeting for regular infrastructure upkeep, justify debt acquisition, to build in revenue to cover long-term capital needs and to educate customers and decision makers about the sewer system's financial needs.

Since 2013, the sewer rates for Meredith have not increased. Meanwhile, from 2013 to 2022, the WRBP's total costs increased by an average of 6%. The WRBP recovers these costs by charging fees to the communities it serves, including the Town of Meredith.

To assess the full cost of operating the sewer department, this plan considered the costs associated with

1. Pumping equipment and collection system operation, repair, and maintenance;
2. Electricity and energy costs;
3. Capital needs, including planning, design, and construction;
4. Debt service;
5. Administration (including management, billing, and customer service);
6. Regulatory compliance, permitting, and reporting expenses;
7. Staff salaries, pensions, benefits, training, and professional development;
8. A community outreach program that includes information on how to properly dispose of wipes, fats, oils and grease.

Investments in preventative maintenance provide the following benefits:

- Fewer accidents
- More efficient operation / service
- Fewer unexpected breakdowns
- Less reactive maintenance
- Better understanding of how your assets are aging
- More sustainable utility

We recommend that the Operations and Maintenance(O&M) Budget cover all normal operating costs and capital items less than \$100,000. The sewer rates should be set to cover the annual



O&M budget, capital loan repayment (projects \$100,000 and greater), plus \$50,000 per year surplus.

The current sewer rates are based on quarterly billing. Customers are assessed a fixed quarterly charge rate and then the metered consumption is charged a uniform rate. Non-metered accounts are charged a fixed fee that has not changed since 2013.

Uniform rates are easy to understand and implement. Uniform rates are usually considered equitable and provide utilities with a degree of revenue stability.

The consumption rate and fixed charges increased annually from 2011 to 2013. The uniform sewer rate and fixed charges have not changed since 2013. The income from the sewer rates does not cover the current sewer budget. The shortfall has been covered for several years by the Sewer Reserves account.

In September 2021, the Capital Improvements Program (CIP) Advisory Committee recommended that the Water System Improvements ETF be closed and that those funds be reallocated to the DPW Equipment Replacement ETF. In 2022, Town Meeting approved this recommendation of the CIP Advisory Committee to transfer \$252,085 funds to the DPW Equipment ETF.

We recommend that the Select Board continue assessing customers with the uniform water rate for the next 8 years and consider assessing customers with an increasing block rate structure in the future. Increasing or tiered block rates charge increasing volumetric rates for increasing consumption. This rate structure is water conservation oriented and may result in revenue volatility related to seasonal weather.

As noted above, the new rates should be developed to provide funds to cover personnel services, the annual O&M budget, sewer capital recovery, capital loan repayment plus \$50,000 per year surplus to replenish the Sewer Reserves account.

### **Balancing Utility Affordability with Household Affordability**

Utilities have three primary financial goals: (1) ensure access to sanitary sewer is affordable for households (household affordability), (2) ensure their fiscal health to continue operating reliably (utility affordability), and (3) invest in infrastructure to ensure they meet regulatory requirements and provide wastewater services and environmental protection. Financially strained systems may need to make trade-offs between these three goals because they cannot afford to meet all three goals.

- Utilities can maintain affordability and spend money on infrastructure but may reduce fiscal stability.

- Utilities can maintain affordability and fiscal stability but may reduce investment in needed infrastructure repair and replacement.
- Utilities raise rates that reduce affordability to support infrastructure and maintain fiscal stability.

The financial health of utilities is tied to the number of customers and their financial health. As such, there are two types of affordability that must be considered: (1) household affordability, or the ability for households to afford water services, and (2) utility affordability, or the ability for the community to collectively afford their utility.

To protect the affordability of sewer for basic needs and to recognize the benefits that all taxpayers of the Town of Meredith receive from water and sewer services provided in the downtown area, long term debt costs are borne by both taxpayers and water and sewer rate payers with rate payers paying 69% of the cost and taxpayers the remaining 31%.

*The Meredith Water System Committee's Debt Sharing Position Paper is in Appendix C.*

It is recommended that the Select Board consider increasing the water rates by 9% annually for the next 8 years to get the sewer rates to a level that meets the projected revenue requirements of the department. For a single-family home with annual residential water use of 90,000 gallons per year, we estimate that this will result in an average increase in the sewer bill of \$87.50 per year.

We also recommend that the non-metered flat rate be increased from \$137.48 to \$222.14, which is the current quarterly sewer bill for a single-family home with annual residential water use of 90,000 gallons per year. There are approximately 300 non-metered sewer accounts. Non-metered sewer accounts represent 20% of the total sewer accounts in Meredith. Non-metered sewer accounts are not required to install meters, increasing the flat rate and indexing it to the proposed sewer rate increases more equitably shares the true cost of service among metered and non-metered sewer customers.

### **Projected Revenue Requirements**

The sewer revenue has been relatively flat while the sewer expenses have increased. The average revenue from 2020 to 2023 for the sewer department has been \$1,012,000. The average expenses during that period were \$1,040,000. The revenue for 2024 was approximately \$1M. The budget for 2024 was \$1.35M. The Sewer Reserves account is currently being used to pay for expenses that cannot be paid by the income received from water user fees and charges.

*The project revenue requirements for the sewer department for the next 10 years are in Appendix D.* The revenue requirements include costs associated with personnel, asset maintenance programs and capital expenditures. Forecast annual budgets increase from

\$1.65M in 2027 to \$2.06M in 2036. The 9% annual increase for 8 years is needed to have the income catch up to the current budget needs and the future budget needs.

The Meredith Water Department is developing a proactive, continuous maintenance program for all its assets. The programs include

- Collection System Maintenance Program (\$65,000/year)
- Sewer Pump Station Maintenance Program (\$30,000/yr)

The goal is for the funds for these programs to be kept in reserve accounts so that unused funds can be used the following year.

These programs ensure that proper maintenance is adequately funded. Proper maintenance can extend the estimated useful life of the water department assets and ensure that they are available during an emergency. The estimated useful lives of capital assets are

<b><u>Capital Asset Types</u></b>	<b><u>Useful Life (years)</u></b>
Buildings	50
Machinery and Equipment	5-20
Pump Station	50
Sewer Mains	100
Vehicles	5

#### *Capital Recovery Projects*

The sewer department is proposing several capital recovery projects (<\$100,000) for the next ten years that we propose to be funded through the Sewer Capital Recovery line item. In 2025, those projects included

- Installing VFDs and Electrical Upgrades at Rte. 3 Lift Station for an estimated cost of \$62,500
- Replacing Ford F150 for an estimated cost of \$45,000

#### *Capital Debt Projects*

The sewer department is proposing two capital projects (\$100,000 or more) for the next ten years that will be funded through debt service with 69% paid by rate payers:

- Rehabilitate portions of the sewer on Route 25 for an estimated cost of \$750,000
- Replace the Pleasant Street sewer for an estimated cost of \$500,000. This gravity sewer main has a prior repair which has failed. Additionally, this main has a high FOG maintenance which may be associated with a sag in the line.

## Section 4    Community Outreach Plan

The Town of Meredith water system is operated in a professional manner, and the operators are very knowledgeable of the components and operation of the sewer collection system. The system continues to protect the environment and meet permitting requirements. Nevertheless, the public does not understand the value of sanitary sewer system and the investment needed to preserve water quality in the lakes and rivers of Meredith, to support tourism and recreational opportunities, to enhance economic and residential development, and to help create a prosperous and thriving environment with sustainable water resources.

To improve the public's understanding, the Meredith Sewer Department is working with the town webmaster to add Current Projects section and to increase the FAQs on the department website. The website will also include information on What's Flushable? and the proper residential handling of fats, oil and grease.

*The What's Flushable? Brochure is in Appendix E.*

### Current Projects

We propose that the Current Projects section include information about lift station improvements, sewer main inspection schedules and the installation of sewer collection system improvements.

The goal is to have each project notice include a tag line and a photo or graphic.

- ***Out with the old. In with the new.***
- ***Your sewer bill at work.***
- ***New infrastructure installed to improve reliability and maintain water quality.***
- ***Another system improvement completed in-house by the Meredith Sewer Department.***

These new website sections will be used to more effectively communicate the Level of Service goals to the public.

#### **Level of Service Goals and Performance Measures**

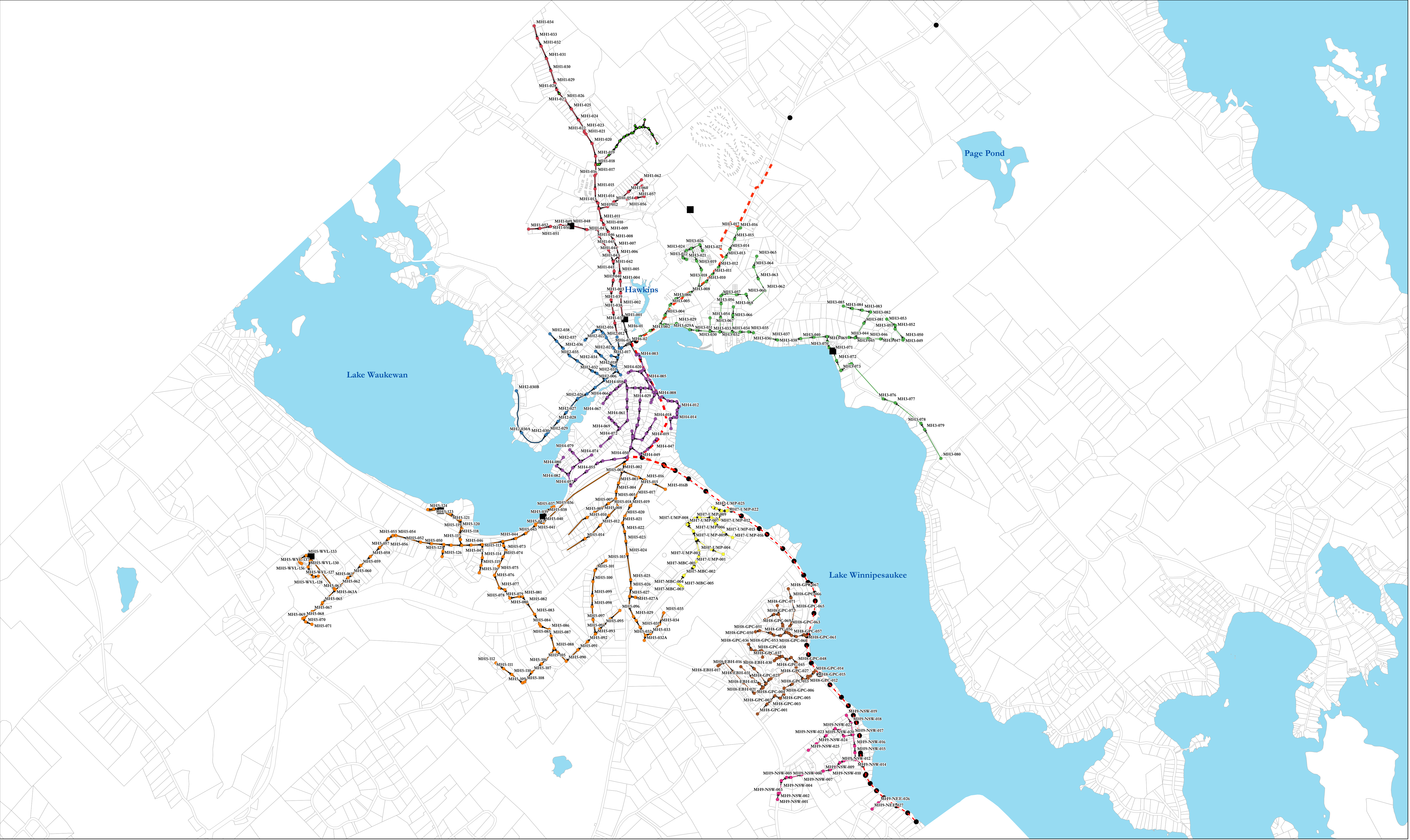
<b>Level of Service Goal</b>	<b>Performance Measure</b>
<b>Continue semiannual gravity collection system cleaning and inspection program to mitigate sewer backups.</b>	<b>Annual CMOM (capacity, management, operations, and maintenance) report.</b>
<b>Migrate from uniform volumetric rate structure to increasing block rate structure to make sewer rates more equitable and sustainable.</b>	<b>Review sewer rates every 3 to 5 years.</b>
<b>Continue to process new connection sewer permits within five (5) working days at least 90% of the time.</b>	<b>Review permit logs monthly.</b>
<b>Communicate the importance of the proper disposal of fats, oils, and grease through public engagement and outreach to all customers</b>	<b>Review and update website and other public interactions quarterly</b>
<b>Communicate the importance of the proper disposal of 'flushable' wipes through public engagement and outreach to all customers</b>	<b>Review and update website and other public interactions quarterly</b>

## **Appendix A**

### **Wastewater Collection System Map**



Wastewater Collection System  
Town of Meredith, NH



Field work conducted by Chuck Wade & George Phinney, Water & Sewer Dept.



## **Appendix B**

### **Wastewater Asset Assessment Summary**



System Name: Meredith Sewer Department  
Current Year: 2025

Asset Inventory Summary														
	Asset	Sub Asset Class or Sub Category	Type	Installation Date	Useful Life	Remaining Useful Life	Condition Rating	Operational Status (O=Operational, S=Standby, I=Inoperable)	Estimated Replacement Cost (in 2025 dollars)	Probability of Failure (Very Low - 1 to Very High - 5)	Consequence of Failure (Insignificant - 2, Minor - 4, Moderate - 6, Major - 8, Catastrophic - 10)	Critical Level/Priority	Maintenance Rating (5 = Regular Maintenance, 4 = Infrequent Maintenance, 3 = Rarely Maintained, 2 = Little to No Maintenance, 1 = Currently Needs Maintenance)	Comments
CSLS	Cygnnet Shores Lift Station	Lift Station			50		Fair	O		2	4	8	5	
	PLCs and Level Transducers	LS equipment			15		Fair	O	\$35,000	2	4	8	5	Potential 2030 Construction
PLS	Philbrook Lift Station	Lift Station			50		Fair	O		2	4	8	5	
	Pumps	LS equipment			40		Fair	O	\$35,000	2	4	8	6	Potential 2032 Construction
PLS	Pollard Lift Station	Lift Station			50		Fair	O		2	4	8	5	
	Pumps	LS equipment			40		Fair	O	\$35,000	2	4	8	6	Potential 2032 Construction
R3LS	Route 3 Lift Station	Lift Station			50		Fair	O		4	8	32	5	
	Soft Start Motor Equipment	LS equipment			15		Fair	O	\$35,000	5	4	20	5	equipment is failing, VFDs Potentially in 2026
	Grinder Pump	LS equipment			20		Fair	O	\$50,000	3	6	18	5	Install Backup Potentially in 2031
WLS	Waukegan Lift Station	Lift Station			50		Fair	O		4	8	32	5	
	NH Rte 25	Sewer Main			100		Fair	O	\$750,000	4	6	24	4	Under Design, 2028 Construction Start
	Pleasant Street	Sewer Main			100		Fair	O	\$500,000	5	6	30	4	previous repair has failed, Potential 2030 Construction
	Manhole Near Main St and Rte 3	Sewer Manhole			50		Fair	O		3	8	24	5	

## **Appendix C**

### **Debt Sharing Position Paper**

**Meredith Water System Committee**  
**POSITION PAPER**  
**on**  
**General Taxpayer Support of Water and Sewer Utility Enterprises**

It is the position of the Water System Committee that all taxpayers of the Town of Meredith benefit to some degree from water and sewer services provided in the downtown area. Therefore it is our position that all taxpayers should bear some portion of the cost for both maintaining and expansion/refurbishment of the infrastructure.

Downtown Meredith businesses and municipal offices require town water and sewer systems due to building density making wells and septic systems impractical if not impossible. In turn, this density requires effective fire response capability in the form of the availability of a high quantity of water distributed through a system of hydrants and connections to sprinkler systems.

Among the benefits resulting from these systems are lower insurance rates and buildings, such as hotels and restaurants, which are much larger than would otherwise be possible. Therefore businesses operate at lower costs improving their competitiveness and attractiveness to their customers. The Town of Meredith also benefits from similar lower operating costs of their buildings reducing the burden on tax payers.

The Meredith economy is tourist-driven with most of its business sector being users of water and sewer services. It is our position that our economy would suffer considerably without the availability of municipal water and sewer. Further this business sector is contributing significantly to both the overall tax base and the economic viability of the Town.

Currently long term debt costs are borne by both taxpayers and water and sewer rate payers with rate payers paying 69% of the cost and tax payers the remaining 31%. We believe these apportionments are appropriate and recommend they continue. In addition changes will be recommended to have the Town charge the water and sewer enterprises for a proportionate share of administrative expenses and correspondingly have the Town pay a maintenance fee for upkeep of the fire hydrant system.

Respectively submitted,  
Charles Palm, Selectman Representative to the Water System Committee  
David Thorpe, Chairman, Water System Committee

## **Appendix D**

### **Projected Revenue Requirements**

Town of Meredith Sewer Department Projected Revenue Requirements																
Account Number	Account Description	Projected														
		2024	2025	% Change	2026	% Increase	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
<b>PERSONNEL SERVICES</b>																
0100-01-010	Full-time Employees	\$ 129,617.00	\$ 129,617.00	0%	\$ 134,537.03	3%	\$ 143,807.40	\$ 147,966.23	\$ 152,438.17	\$ 157,011.32	\$ 161,721.66	\$ 166,575.31	\$ 171,567.92	\$ 176,717.92	\$ 182,019.15	\$ 187,479.39
0109-01-010	Overtime	\$ 6,500.00	\$ 6,500.00	0%	\$ 6,500.00	0%	\$ 6,505.00	\$ 6,630.45	\$ 6,696.96	\$ 6,763.93	\$ 6,831.77	\$ 6,899.68	\$ 6,968.86	\$ 7,038.97	\$ 7,108.95	\$ 7,180.04
0111-01-011	Longevity			0%		0%										
0600-010-060	Health Insurance	\$ 14,515.63	\$ 14,515.63	0%	\$ 14,515.63	0%	\$ 14,560.79	\$ 14,607.39	\$ 14,655.47	\$ 15,105.02	\$ 15,256.07	\$ 15,406.63	\$ 15,492.72	\$ 15,718.35	\$ 15,875.53	\$ 16,048.29
0600-010-060	Health Insurance Opt-out	\$ 12,000.00	\$ 12,000.00	0%	\$ 12,000.00	0%	\$ 12,170.00	\$ 12,241.20	\$ 12,383.04	\$ 12,487.25	\$ 12,612.12	\$ 12,758.24	\$ 12,894.28	\$ 13,124.22	\$ 13,255.47	\$ 13,385.47
0601-01-060	Dental Insurance	\$ 551.40	\$ 551.40	0%	\$ 551.40	0%	\$ 556.91	\$ 562.48	\$ 568.11	\$ 573.79	\$ 579.53	\$ 585.32	\$ 591.18	\$ 597.09	\$ 603.06	\$ 609.09
0602-01-060	Life Insurance	\$ 12.00	\$ 12.00	0%	\$ 12.00	0%	\$ 12.24	\$ 12.48	\$ 12.69	\$ 12.89	\$ 13.08	\$ 13.27	\$ 13.46	\$ 13.65	\$ 13.82	\$ 14.00
0603-01-060	FICA	\$ 8,441.15	\$ 8,441.15	0%	\$ 8,441.15	0%	\$ 8,512.82	\$ 8,584.83	\$ 8,657.28	\$ 8,730.14	\$ 8,803.41	\$ 8,877.10	\$ 8,951.22	\$ 9,025.76	\$ 9,100.72	\$ 9,176.12
0604-01-060	Medicare	\$ 1,974.14	\$ 1,974.14	0%	\$ 1,974.14	0%	\$ 1,983.88	\$ 2,013.92	\$ 2,038.36	\$ 2,054.30	\$ 2,071.64	\$ 2,089.67	\$ 2,108.55	\$ 2,127.71	\$ 2,147.99	\$ 2,169.68
0605-01-060	Retirement	\$ 18,420.77	\$ 18,420.77	0%	\$ 18,420.77	0%	\$ 18,604.98	\$ 18,791.03	\$ 18,978.94	\$ 19,168.73	\$ 19,360.41	\$ 19,554.07	\$ 19,748.56	\$ 19,944.95	\$ 20,142.92	\$ 20,342.98
<b>OPERATIONS &amp; MAINTENANCE</b>																
0205-01-020	Boat Allowance	\$ 375.00	\$ 375.00	0%	\$ 375.00	0%	\$ 378.75	\$ 382.54	\$ 386.36	\$ 390.23	\$ 394.13	\$ 398.07	\$ 402.05	\$ 406.07	\$ 410.13	\$ 414.23
0206-01-020	Cell Phones	\$ 1,500.00	\$ 1,500.00	0%	\$ 1,500.00	0%	\$ 1,515.00	\$ 1,530.15	\$ 1,545.45	\$ 1,560.91	\$ 1,576.52	\$ 1,592.28	\$ 1,608.20	\$ 1,624.29	\$ 1,640.53	\$ 1,656.93
0286-01-020	Telephone	\$ 500.00	\$ 500.00	0%	\$ 500.00	0%	\$ 505.00	\$ 510.05	\$ 515.15	\$ 520.30	\$ 526.51	\$ 532.76	\$ 539.07	\$ 545.43	\$ 551.84	\$ 558.31
0290-01-020	Uniforms	\$ 800.00	\$ 800.00	0%	\$ 800.00	0%	\$ 808.00	\$ 816.08	\$ 824.24	\$ 832.48	\$ 840.81	\$ 849.22	\$ 857.71	\$ 866.29	\$ 874.95	\$ 883.70
0319-01-030	Equipment - Miscellaneous	\$ 3,000.00	\$ 3,000.00	0%	\$ 3,000.00	0%	\$ 3,030.00	\$ 3,060.30	\$ 3,090.90	\$ 3,121.81	\$ 3,153.03	\$ 3,184.56	\$ 3,216.41	\$ 3,248.57	\$ 3,281.06	\$ 3,313.87
0500-01-023	Electricity	\$ 38,000.00	\$ 38,000.00	0%	\$ 38,000.00	0%	\$ 39,140.00	\$ 40,314.20	\$ 41,523.63	\$ 42,769.33	\$ 44,052.41	\$ 45,375.99	\$ 46,735.21	\$ 48,137.26	\$ 49,581.38	\$ 51,068.82
0500-01-023	Heating Oil	\$ 3,500.00	\$ 3,500.00	0%	\$ 3,500.00	0%	\$ 3,605.00	\$ 3,713.15	\$ 3,824.54	\$ 3,939.28	\$ 4,057.46	\$ 4,179.18	\$ 4,304.56	\$ 4,432.70	\$ 4,563.71	\$ 4,703.71
0510-01-023	Propane	\$ 3,600.00	\$ 3,600.00	0%	\$ 3,600.00	0%	\$ 3,708.00	\$ 3,819.24	\$ 3,933.02	\$ 4,051.83	\$ 4,173.39	\$ 4,298.99	\$ 4,427.55	\$ 4,559.37	\$ 4,693.18	\$ 4,830.10
0550-01-040	WRPB - Adm Fees	\$ 75,777.17	\$ 75,777.17	0%	\$ 75,777.17	0%	\$ 81,685.15	\$ 84,341.55	\$ 86,871.00	\$ 89,274.95	\$ 91,562.29	\$ 93,747.16	\$ 95,832.57	\$ 97,829.47	\$ 99,740.13	\$ 101,641.35
0551-01-040	WRPB - Capital Replacement	\$ 74,500.00	\$ 74,500.00	0%	\$ 74,500.00	0%	\$ 80,121.18	\$ 83,465.53	\$ 86,647.70	\$ 89,679.70	\$ 92,571.46	\$ 95,341.14	\$ 97,994.85	\$ 100,550.58	\$ 103,020.34	\$ 105,410.13
0551-01-040	WRPB - Operator & Maintenance	\$ 93,880.45	\$ 93,880.45	0%	\$ 93,880.45	0%	\$ 101,311.18	\$ 104,965.51	\$ 108,547.70	\$ 112,070.70	\$ 115,549.48	\$ 118,989.06	\$ 122,396.54	\$ 125,777.51	\$ 129,138.48	\$ 132,486.94
0553-01-040	WRPB - Capital Replacement	\$ 93,880.45	\$ 93,880.45	0%	\$ 93,880.45	0%	\$ 101,311.18	\$ 104,965.51	\$ 108,547.70	\$ 112,070.70	\$ 115,549.48	\$ 118,989.06	\$ 122,396.54	\$ 125,777.51	\$ 129,138.48	\$ 132,486.94
0553-01-040	WRPB - Operator & Maintenance	\$ 93,880.45	\$ 93,880.45	0%	\$ 93,880.45	15%	\$ 107,100.00	\$ 113,322.00	\$ 120,311.66	\$ 128,071.11	\$ 136,625.95	\$ 145,993.33	\$ 156,285.84	\$ 167,526.57	\$ 179,741.51	\$ 192,949.58
0554-01-040	WRPB - Industrial Discharge Permit	\$ 1,200.00	\$ 1,200.00	0%	\$ 1,200.00	0%	\$ 1,238.00	\$ 1,273.08	\$ 1,307.31	\$ 1,340.61	\$ 1,381.13	\$ 1,429.86	\$ 1,479.85	\$ 1,530.12	\$ 1,581.73	\$ 1,632.70
0701-01-070	Diesel Fuel	\$ 3,750.00	\$ 3,750.00	0%	\$ 3,750.00	0%	\$ 3,862.50	\$ 3,978.38	\$ 4,097.73	\$ 4,220.65	\$ 4,347.26	\$ 4,477.70	\$ 4,612.03	\$ 4,750.39	\$ 4,892.90	\$ 5,039.69
0899-01-092	Sewer Project Debt	\$ 50,000.00	\$ 50,000.00	0%	\$ 50,000.00	0%	\$ 50,000.00	\$ 103,000.00	\$ 106,000.00	\$ 109,270.00	\$ 112,500.88	\$ 115,977.40	\$ 119,402.33	\$ 122,987.99	\$ 126,677.01	\$ 130,477.32
0964-01-064	Bundled Project Debt Payment	\$ 40,527.00	\$ 40,527.00	0%	\$ 40,527.00	0%	\$ 40,532.27	\$ 41,341.59	\$ 42,159.57	\$ 42,986.26	\$ 43,813.65	\$ 44,651.86	\$ 45,499.99	\$ 46,358.05	\$ 47,185.44	\$ 47,982.17
4125-01-045	Collection System Maintenance	\$ 50,000.00	\$ 50,000.00	0%	\$ 50,000.00	30%	\$ 65,550.00	\$ 66,306.50	\$ 66,969.57	\$ 67,639.26	\$ 68,315.63	\$ 69,008.80	\$ 69,668.60	\$ 70,385.69	\$ 71,089.54	\$ 71,800.44
4130-01-045	Dock Pump Repairs	\$ 2,000.00	\$ 2,000.00	0%	\$ 2,000.00	0%	\$ 2,020.00	\$ 2,040.20	\$ 2,060.50	\$ 2,081.21	\$ 2,102.22	\$ 2,123.04	\$ 2,144.27	\$ 2,165.71	\$ 2,187.37	\$ 2,209.24
4135-01-045	Equipment Maintenance	\$ 5,000.00	\$ 5,000.00	0%	\$ 5,000.00	0%	\$ 5,050.00	\$ 5,100.50	\$ 5,151.51	\$ 5,203.02	\$ 5,255.05	\$ 5,307.60	\$ 5,360.68	\$ 5,414.28	\$ 5,468.43	\$ 5,523.11
4143-01-045	Fire Extinguisher Maintenance	\$ 1,000.00	\$ 1,000.00	0%	\$ 1,000.00	0%	\$ 1,010.00	\$ 1,020.10	\$ 1,030.30	\$ 1,040.60	\$ 1,051.01	\$ 1,061.52	\$ 1,072.14	\$ 1,082.96	\$ 1,093.89	\$ 1,104.92
4170-01-045	Generator Maintenance Agreement	\$ 3,500.00	\$ 3,500.00	0%	\$ 3,500.00	0%	\$ 3,535.00	\$ 3,570.35	\$ 3,606.05	\$ 3,642.11	\$ 3,678.54	\$ 3,715.32	\$ 3,752.47	\$ 3,790.00	\$ 3,827.90	\$ 3,866.18
4205-01-045	Misc. Repairs & Maintenance	\$ 4,000.00	\$ 4,000.00	0%	\$ 4,000.00	0%	\$ 4,040.00	\$ 4,080.40	\$ 4,121.20	\$ 4,162.42	\$ 4,204.04	\$ 4,246.04	\$ 4,288.54	\$ 4,331.43	\$ 4,374.74	\$ 4,418.49
4250-01-045	Misc. Repairs & Maintenance	\$ 4,000.00	\$ 4,000.00	0%	\$ 4,000.00	0%	\$ 4,040.00	\$ 4,080.40	\$ 4,121.20	\$ 4,162.42	\$ 4,204.04	\$ 4,246.04	\$ 4,288.54	\$ 4,331.43	\$ 4,374.74	\$ 4,418.49
4255-01-045	Vehicle Maintenance	\$ 30,000.00	\$ 30,000.00	0%	\$ 30,000.00	0%	\$ 30,300.00	\$ 30,602.00	\$ 30,905.03	\$ 31,218.12	\$ 31,530.29	\$ 31,845.60	\$ 32,165.05	\$ 32,485.70	\$ 32,810.56	\$ 33,138.65
4255-01-045	Vehicle Maintenance	\$ 30,000.00	\$ 30,000.00	0%	\$ 30,000.00	0%	\$ 30,300.00	\$ 30,602.00	\$ 30,905.03	\$ 31,218.12	\$ 31,530.29	\$ 31,845.60	\$ 32,165.05	\$ 32,485.70	\$ 32,810.56	\$ 33,138.65
4325-01-043	Chemicals & Degreaser	\$ 400.00	\$ 400.00	-53%	\$ 5,000.00	-53%	\$ 5,950.00	\$ 5,108.50	\$ 5,151.51	\$ 5,203.02	\$ 5,255.05	\$ 5,307.60	\$ 5,360.68	\$ 5,414.28	\$ 5,468.43	\$ 5,523.11
4326-01-043	Cleaning Supplies	\$ 400.00	\$ 400.00	0%	\$ 400.00	0%	\$ 404.00	\$ 408.04	\$ 412.12	\$ 416.24	\$ 420.40	\$ 424.61	\$ 428.85	\$ 433.14	\$ 437.47	\$ 441.85
4380-01-043	Laboratory Supplies	\$ 500.00	\$ 500.00	0%	\$ 500.00	0%	\$ 505.00	\$ 510.05	\$ 515.15	\$ 520.30	\$ 526.51	\$ 532.76	\$ 539.07	\$ 545.43	\$ 551.84	\$ 558.31
4390-01-043	Method/Line Repair Supplies	\$ 3,000.00	\$ 3,000.00	0%	\$ 3,000.00	0%	\$ 3,030.00	\$ 3,060.30	\$ 3,090.90	\$ 3,121.81	\$ 3,153.03	\$ 3,184.56	\$ 3,216.41	\$ 3,248.57	\$ 3,281.06	\$ 3,313.87
4393-01-043	Meters	\$ 1,500.00	\$ 1,500.00	0%	\$ 1,500.00	0%	\$ 1,515.00	\$ 1,530.15	\$ 1,545.45	\$ 1,560.91	\$ 1,576.52	\$ 1,592.28	\$ 1,608.20	\$ 1,624.29	\$ 1,640.53	\$ 1,656.93
4395-01-043	Office Supplies	\$ 3,500.00	\$ 3,500.00	67%	\$ 2,500.00	67%	\$ 2,525.00	\$ 2,540.25	\$ 2,575.75	\$ 2,601.51	\$ 2,627.53	\$ 2,653.80	\$ 2,680.34	\$ 2,704.21	\$ 2,728.16	\$ 2,751.96
4431-01-043	Safety Supplies	\$ 3,500.00	\$ 3,500.00	0%	\$ 3,500.00	0%	\$ 3,535.00	\$ 3,570.35	\$ 3,606.05	\$ 3,642.11	\$ 3,678.54	\$ 3,715.32	\$ 3,752.47	\$ 3,790.00	\$ 3,827.90	\$ 3,866.18
4440-01-043	Small Tools	\$ 4,000.00	\$ 4,000.00	67%	\$ 3,000.00	67%	\$ 3,050.00	\$ 3,095.00	\$ 3,151.51	\$ 3,203.02	\$ 3,255.05	\$ 3,307.60	\$ 3,360.68	\$ 3,414.28	\$ 3,467.93	\$ 3,521.11
4500-01-047	Asphalt Paving	\$ 6,000.00	\$ 6,000.00	0%	\$ 6,000.00	0%	\$ 6,060.00	\$ 6,120.60	\$ 6,181.81	\$ 6,243.62	\$ 6,306.06	\$ 6,369.12	\$ 6,432.81	\$ 6,497.14	\$ 6,562.11	\$ 6,627.73
4501-01-047	Septic Pumping	\$ 5,000.00	\$ 5,000.00	0%	\$ 5,000.00	0%	\$ 5,050.00	\$ 5,100.50	\$ 5,151.51	\$ 5,203.02	\$ 5,255.05	\$ 5,307.60	\$ 5,360.68	\$ 5,414.28	\$ 5,468.43	\$ 5,523.11
4600-01-012	Water Department Building Rental	\$ 2,200.00	\$ 2,200.00	0%	\$ 2,200.00	0%	\$ 2,220.00	\$ 2,240.00	\$ 2,260.00	\$ 2,280.00	\$ 2,300.00	\$ 2,320.00	\$ 2,340.00	\$ 2,360.00	\$ 2,380.00	\$ 2,400.00
5003-01-045	Instrumentation/Alarms/SCADA/WTP	\$ 30,000.00	\$ 30,000.00	0%	\$ 30,000.00	0%	\$ 30,300.00	\$ 30,602.00	\$ 30,905.03	\$ 31,218.12	\$ 31,530.29	\$ 31,845.60	\$ 32,165.05	\$ 32,485.70	\$ 32,810.56	\$ 33,138.65
Capital Outlay		\$ 55,000.00	\$ 100,000.00	5%	\$ 100,000.00	0%	\$ 100,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00
CAPITAL DEBT							\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
Route 25 Sewer Project Debt Payment (69% paid by ratepayers)																
Pleasant St Sewer Project Debt Payment (69% paid by ratepayers)																
Total Annual Budget		\$ 1,332,629.63	\$ 1,409,044.72	6%	\$ 1,450,810.12	3%	\$ 1,546,754.54	\$ 1,605,224.09	\$ 1,729,448.39	\$ 1,793,078.35	\$ 1,833,777.77	\$ 1,875,647.77	\$ 1,918,779.04	\$ 1,963,189.31	\$ 2,008,016.40	\$ 2,055,599.29
% Annual Change							9%	2.4%	2.4%	2.4%	2.3%	2.3%	2.3%	2.3%	2.3%	2.3%

## **Appendix E**

### **What's Flushable?**

# The Hidden COST



A recent survey shows that towns have spent an average of **\$40,500** dealing with unflushable items in sewer systems.



The replacement cost of a typical residential leach field is **\$6,000-15,000**

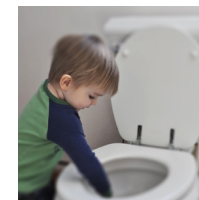
This brochure was developed by:



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## What's FLUSHABLE?





# What's FLUSHABLE?

# The DO NOT FLUSH List:

A toddler will tell you that *everything* is flushable... but what you *think* is flushable could be costing you money!

Product labels can be misleading. Some items that claim to be “flushable” can clog sewer and septic systems and can end up costing you a pretty penny.

***“Flushable” does NOT mean it is SAFE for your septic system or sewer.***

“Disposable” items ARE NOT flushable and should be placed in the trash.

The bottom line:  
**ONLY**

Human waste and toilet paper  
**ARE FLUSHABLE**

Diapers  
Cigarettes  
Paper Towels  
Cotton Swabs  
Feminine  
Hygiene  
Products



Toys  
Dental Floss  
Facial Tissues  
Wipes