



Wastewater Infrastructure Updates

Wastewater Management Advisory Committee

January 12, 2023



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Topics

- ❖ Future Wastewater Expansion Areas
- ❖ Proposed Phase 3



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Future Wastewater Expansion Areas

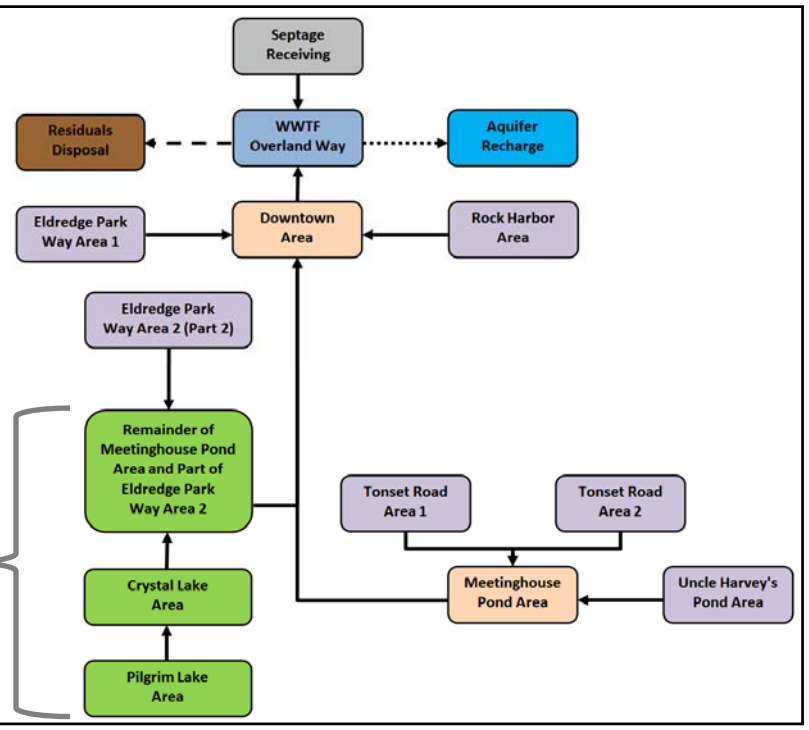


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Proposed Phase 3 Wastewater Infrastructure Schematic

Proposed Phase 3

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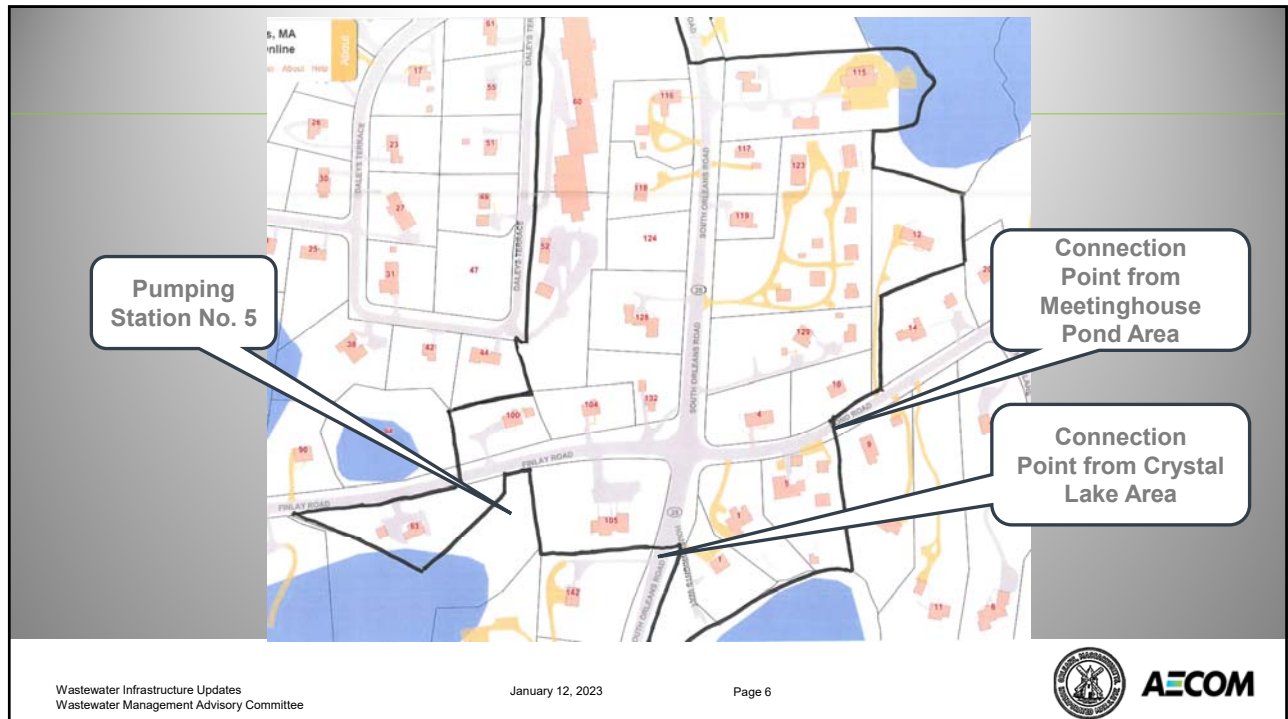
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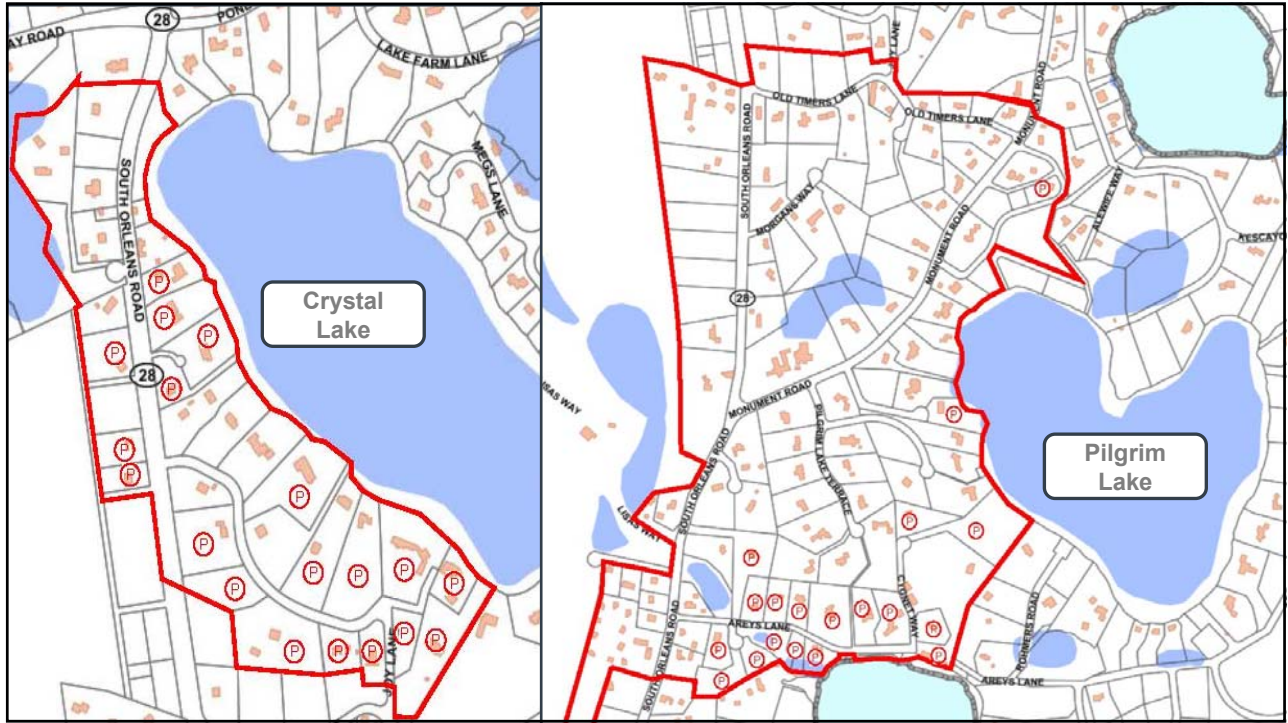
Proposed Phase 3



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Properties and Properties with Pump

Revised Layout (December 22, 2022)			Revised Layout (January 11, 2023)		
Service Area	Properties	Properties With Pump	Service Area	Properties	Properties With Pump
Remainder of Meetinghouse Pond	29	7	Remainder of Meetinghouse Pond	29	7
Crystal Lake	36	19	Crystal Lake	36	17
Pilgrim Lake	128	19	Pilgrim Lake	128	110
Lonnie's Pond	---	---	Lonnie's Pond	56	44
Lonnie's Pond Plus	---	---	Lonnie's Pond Plus	13	13
Arey's Pond	---	---	Arey's Pond	24	24
Arey's Pond Plus	---	---	Arey's Pond Plus	16	16
Totals	193	45	Totals	302	231



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Water Use Basis (GPD)

Service Area	2014 thru 2015	2018 thru 2019	July 2021 thru June 2022
Remainder of Meetinghouse Pond	7,206	5,488	8,520
Crystal Lake	3,600	3,087	3,920
Pilgrim Lake	12,502	11,258	13,321
Lonnie's Pond	7,223	5,363	5,741
Lonnie's Pond Plus	1,022	1,514	2,217
Arey's Pond	1,875	1,168	1,472
Arey's Pond Plus	1,310	1,250	1,381
Totals	34,738	29,128	36,572



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Summary of Quantities and Costs

Original Layout (December 22, 2022)		Revised Layout (January 11, 2023)	
Description	Quantity	Description	Quantity
8-inch through 12-inch Gravity Sewer	6,400 l.f.	8-inch through 12-inch Gravity Sewer	7,600 l.f.
1.5-inch through 3-inch Low Pressure Sewer	13,500 l.f.	1.5-inch through 3-inch Low Pressure Sewer	24,800 l.f.
Submersible Pumping Station	1	Submersible Pumping Station	1
Wastewater ADF with I/I	27,000 gpd	Wastewater ADF with I/I	39,600 gpd
Probability of Project Cost (Does Not Include Other Improvements)	\$17.3M (2022 Dollars)	Probability of Project Cost (Does Not Include Other Improvements)	\$26.2M (2022 Dollars)



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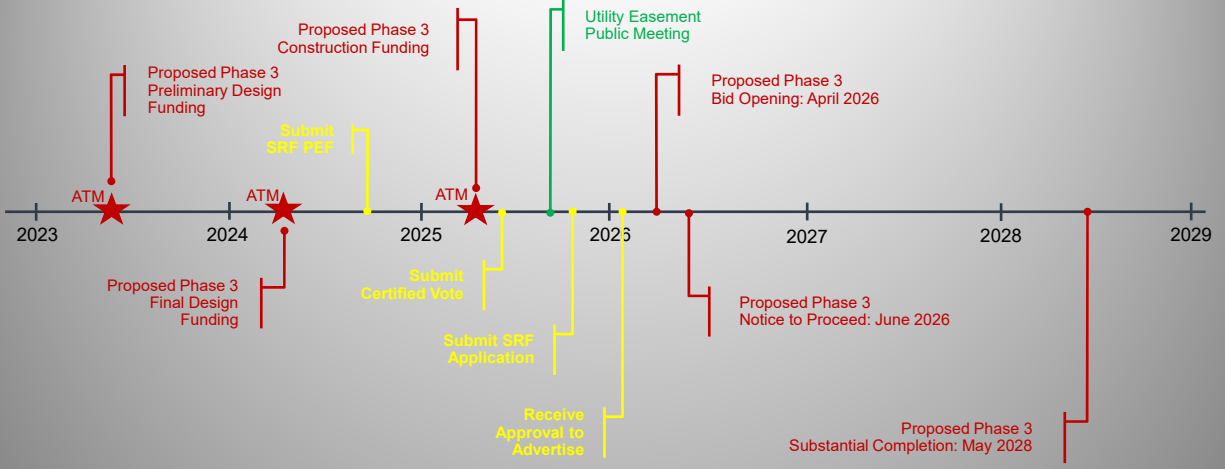
Estimated Permitting Needs

- ❖ Massachusetts Department of Environmental Protection – CWMP Approval
- ❖ Massachusetts Historical Commission (MHC)
- ❖ Massachusetts Department of Transportation (MassDOT) - Road Opening
- ❖ Massachusetts Natural Heritage and Endangered Species Program
- ❖ Cape Cod Commission – Consistency Review
- ❖ Orleans, MA Conservation Commission - Order of Conditions



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Proposed Project Schedule



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Decisions to be Made

Item Number	Description	Responsibility
1	Determine the Degree of Unsewered Growth to be Accommodated	WMAC
2	Determine Water Use Basis	WMAC
3	Determine Incorporation of Brewster's Responsibilities	WMAC
4	Approve Phase 3 Project Service Area	WMAC
5	Recommend Phase 3 Project to Select Board	WMAC
6	Approve Phase 3 Preliminary Design Funding Warrant Article for the 2023 Annual Town Meeting	Select Board
7	Approve Phase 3 Final Design Funding Warrant Article for the 2024 Annual Town Meeting	Select Board
8	Approve Phase 3 Construction Funding Warrant Article for the 2025 Annual Town Meeting	Select Board



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Thank You



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