

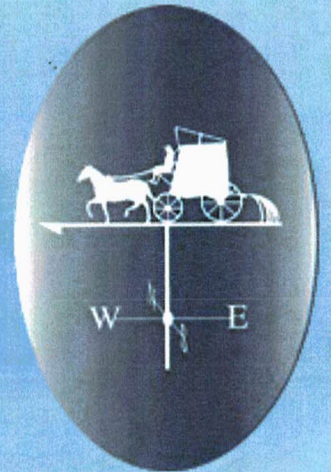
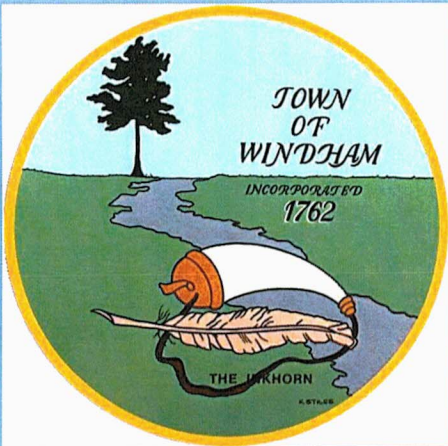
UPDATE

North Windham Wastewater Treatment Project

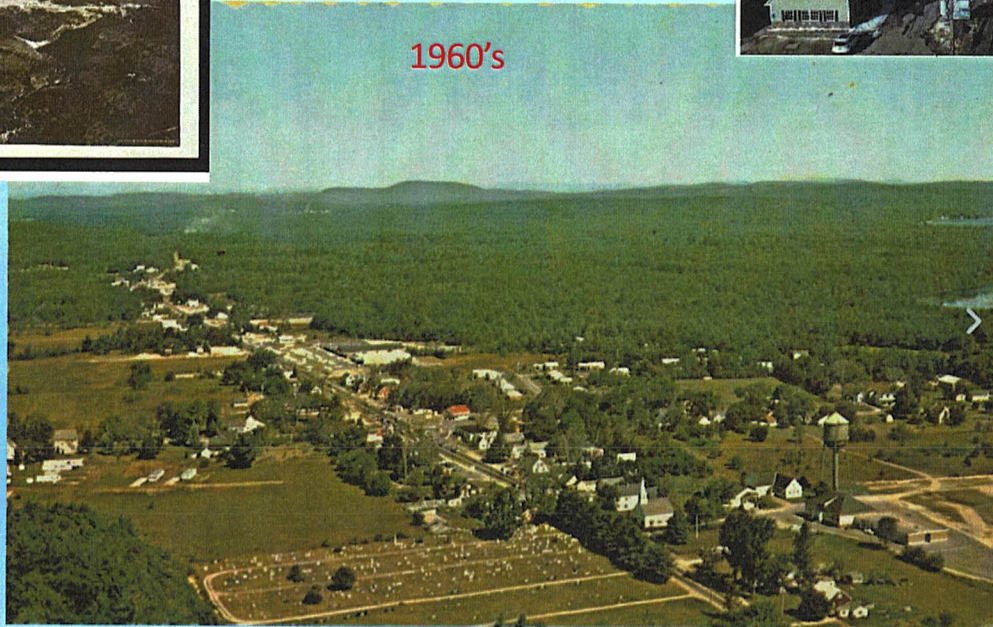
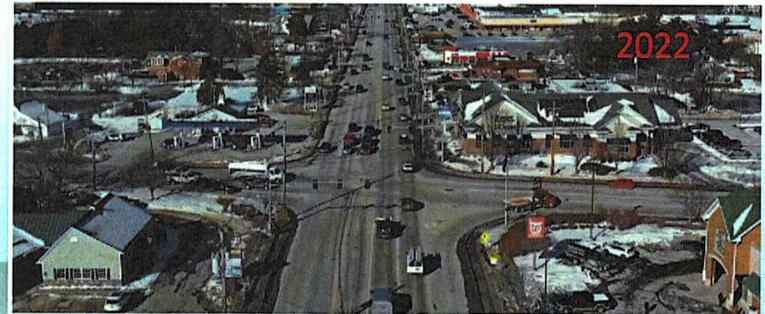
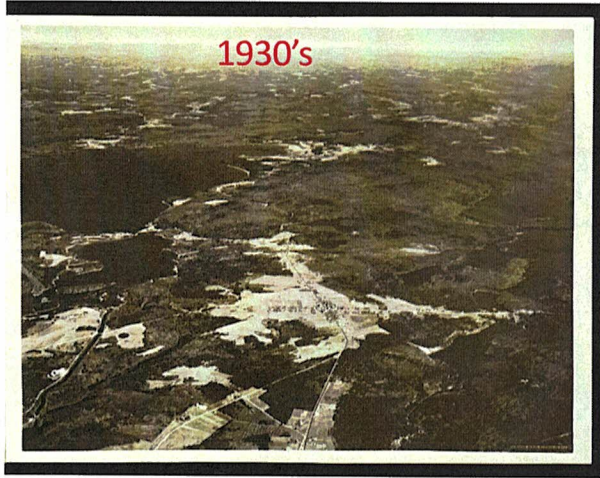
Town Council
Board of Trustees – PWD
RSU 14 School District

Protecting Public Health and the Environment
and promoting sustainable economic growth

March 2024



Windham -- Then and Now



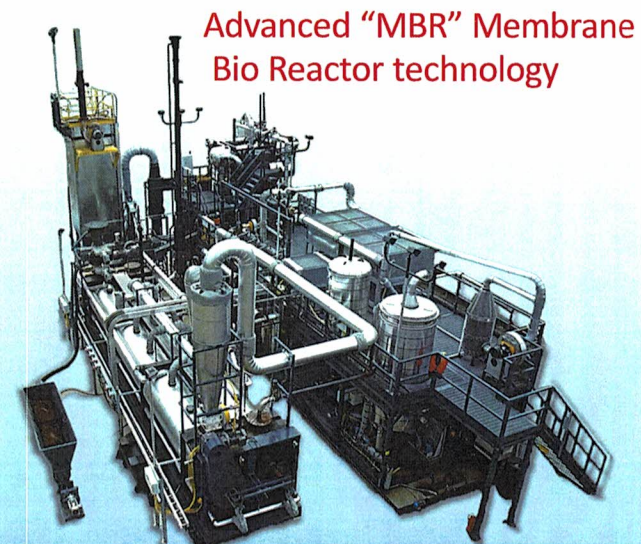
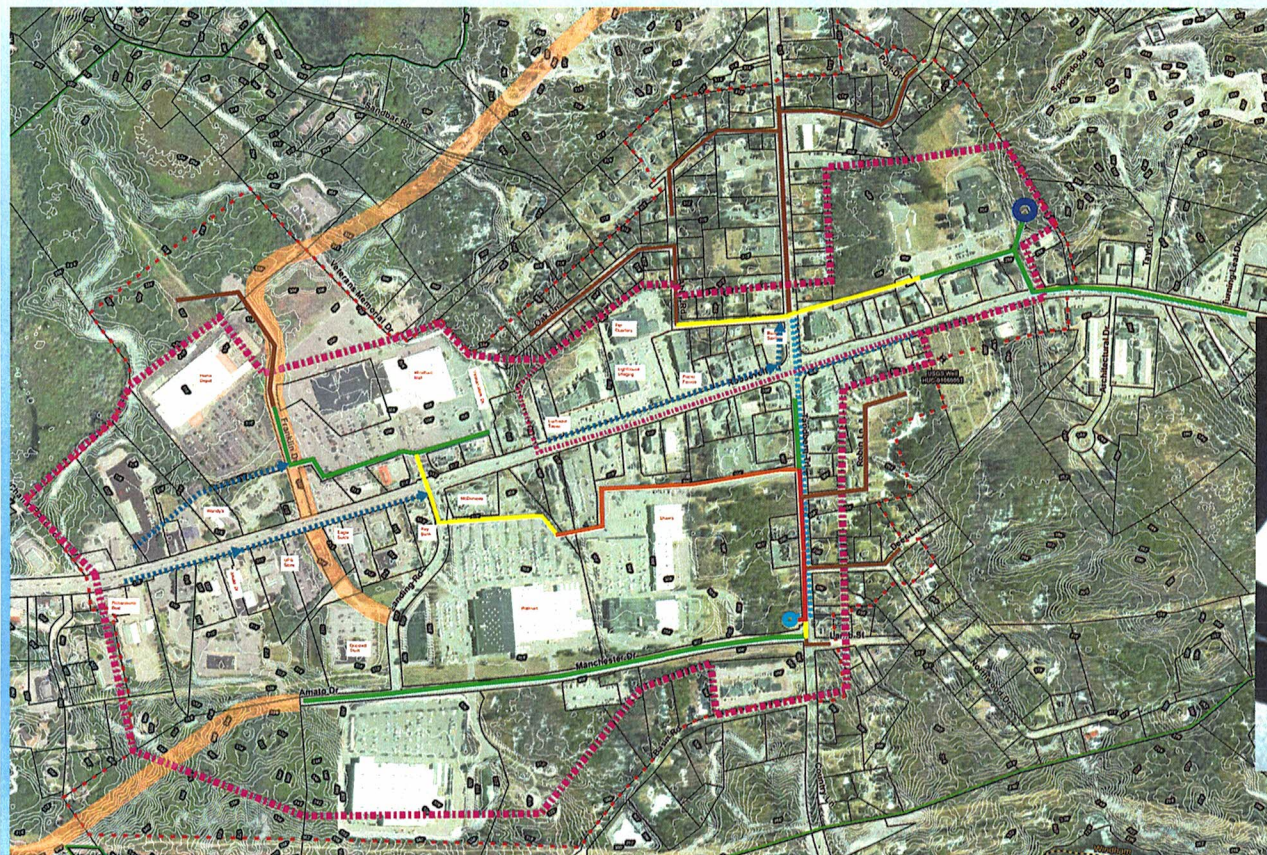
North Windham Wastewater Treatment Project

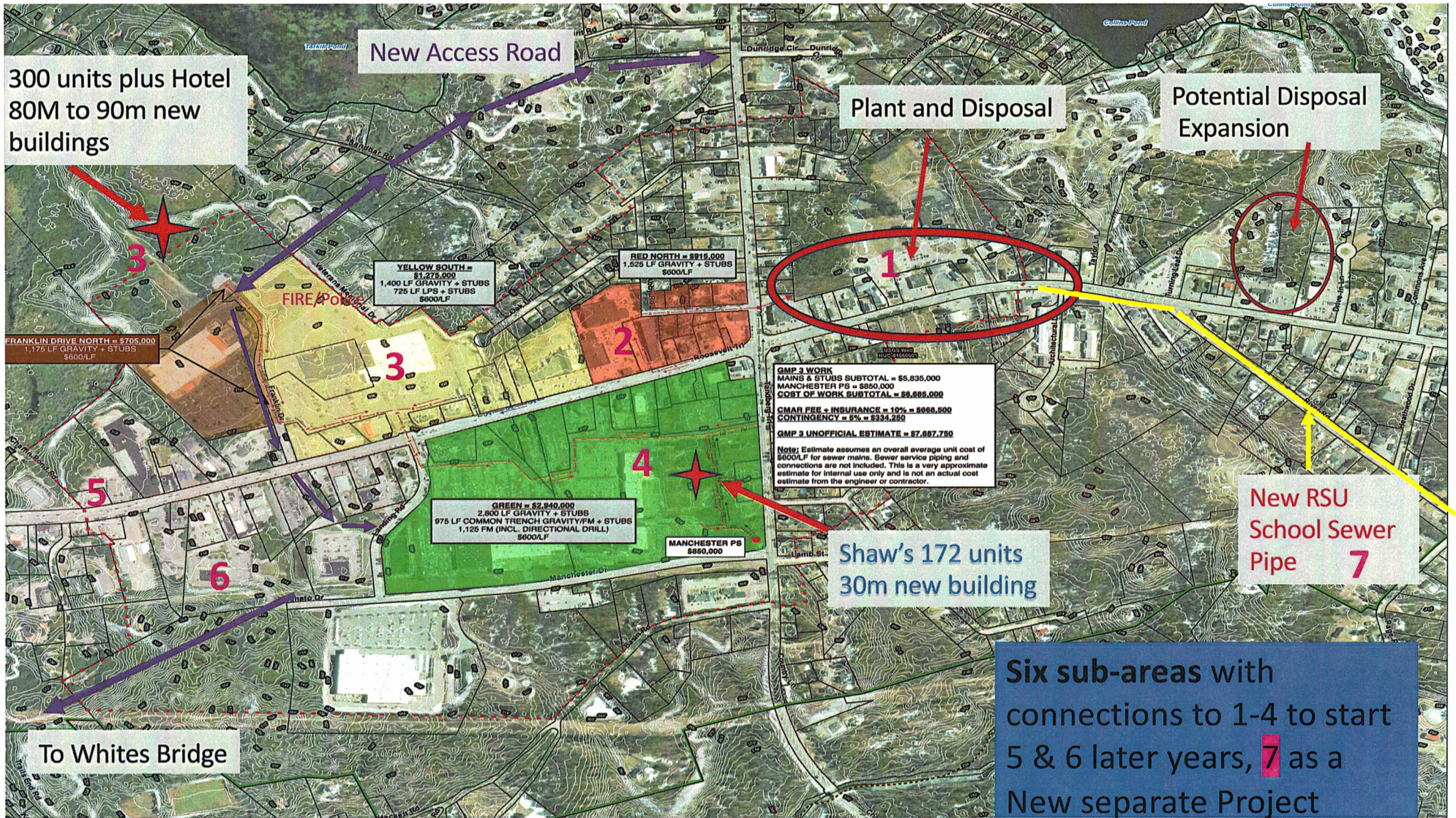
- Current Status of the North Windham Wastewater Treatment Project
 - Status of Project (%) complete (GMP 1, GMP 2, GMP 3) on-target
 - Collection Area (refined)
 - New Businesses (housing, jobs and valuation)

RSU 14 School Campus Wastewater Conveyance Project & Closure

- Proposed RSU Wastewater Conveyance Project
 - System Layout, Pump Stations, Closure of existing plant & Benefits
 - Timing (prior to 2026)
 - Funding (Grants and SRF)

Original Project Area – Phase 1 North Windham, Wastewater Treatment Facility (WWTF)





CURRENT NORTH WINDHAM PROJECT COSTS & FUNDING

Description	Established	Additions	Total
Engineering and Estimating			
*Portland Water District	300K		
*Tighe Bond, Eng.	1.1M		
*Brown & Caldwell, Eng. Phase 1	1.8M		
*Brown & Caldwell, Eng. Phase 2	1.2M	+459K	1.66M
*Brown & Caldwell, Eng. Phase 3	1.5M		
*MWH-Construction	400K		
Sub-total	6.3M	459M	6.8M
Total Projected Phase Project Costs			
GMP 1 Disposal/Fields <1.3 fields>	8.6 M		8.6M
GMP 2 Plant	21.0M		21.0M
GMP 3 Collection	13.0M		13.0M
Sub-total	48.9M		48.9M

Fund Description	Revenue Dollars
Grants	
Senator Collins, Senator King, County ARPA, Town ARPA	1.0M 1.0M 1.5M 1.8M
Prior Bond Commitment Fields	1.3M
Revenues (TIF) SRL Bonding	38.9M
Sub-Total	45.5M

Initial project was 40.4M now 48.9 or 21.03% Higher - based on design/capacity changes & inflation

Current North Windham Sewer/Water Recovery Project Summary

Description	Investment Dollars	Description
Current Project NW Sewer		
Expenses	48.9M	(less fields 1.3M)
Revenues	45.5M	TIF, Town, Grants, CDS, SRF
Shortfall	-3.4 M	(additional SRF loan? Or CDS?)
Connection to Middle and H.S.	see next few slides	

Overall Project Schedule

- **DEP Permit for disposal at Manchester Fields**
 - April 7 Public notice in Press herald, Abutters notified
 - April 8 – Filed DEP Permit for groundwater discharge
 - April 27 – Public Information
- June 14th, 2022 Referendum
 - mailer to every household with advertisements educating public in Eagle paper
- Design Build (CMAR) team selected and started - Fall 2022
 - CMAR = Construction Manager at Risk
- Under construction summer 2023
- Completion winter 2025 – **First Flush January 3, 2026**
- **Addition of closing HS WWTF and new lines with Sidewalks 1st Qtr 2027**



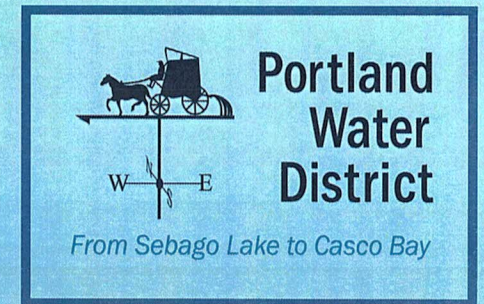
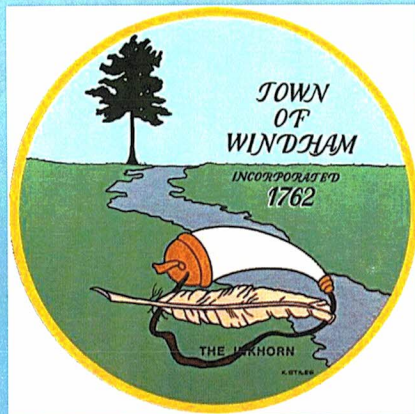
On Target



RSU 14 School Campus Wastewater Conveyance Project

Meeting with Congressional and Senatorial Delegation

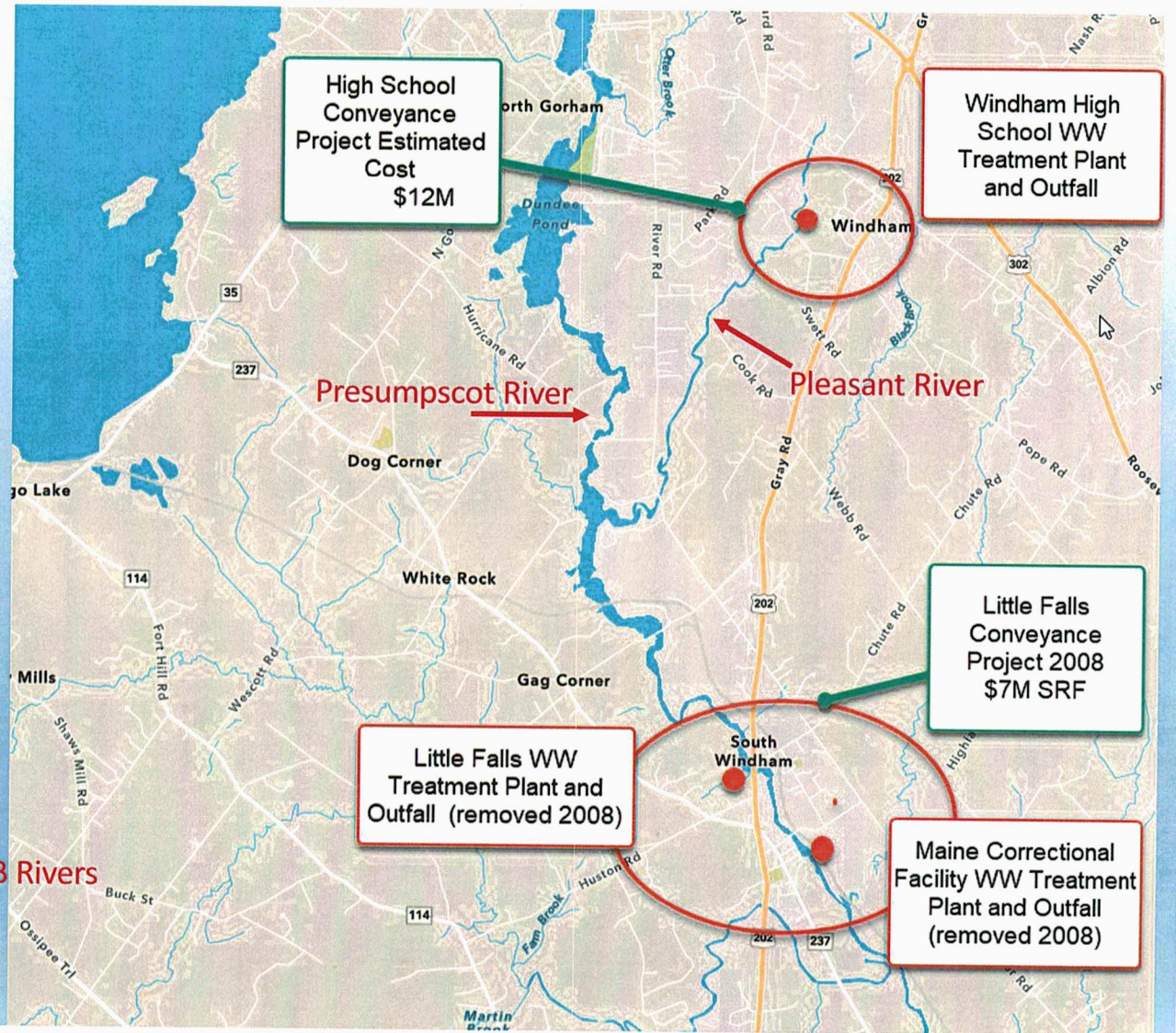
Protecting Public Health and the Environment and promoting sustainable economic growth



The RSU 14, Town of Windham and the Portland Water District Propose to remove the RSU 14 Windham School campus Treatment Plant and outfall to the Pleasant River. Estimated project cost \$12M, will include 2 Pump Stations and 20,000 ft of force main

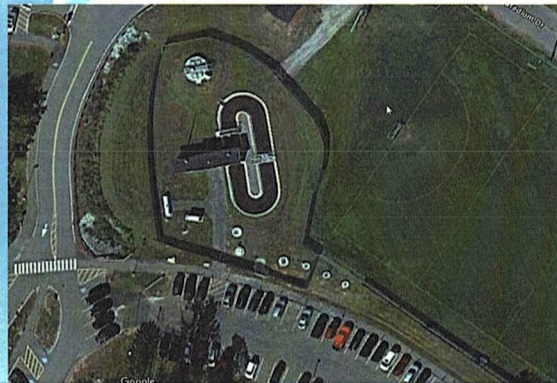
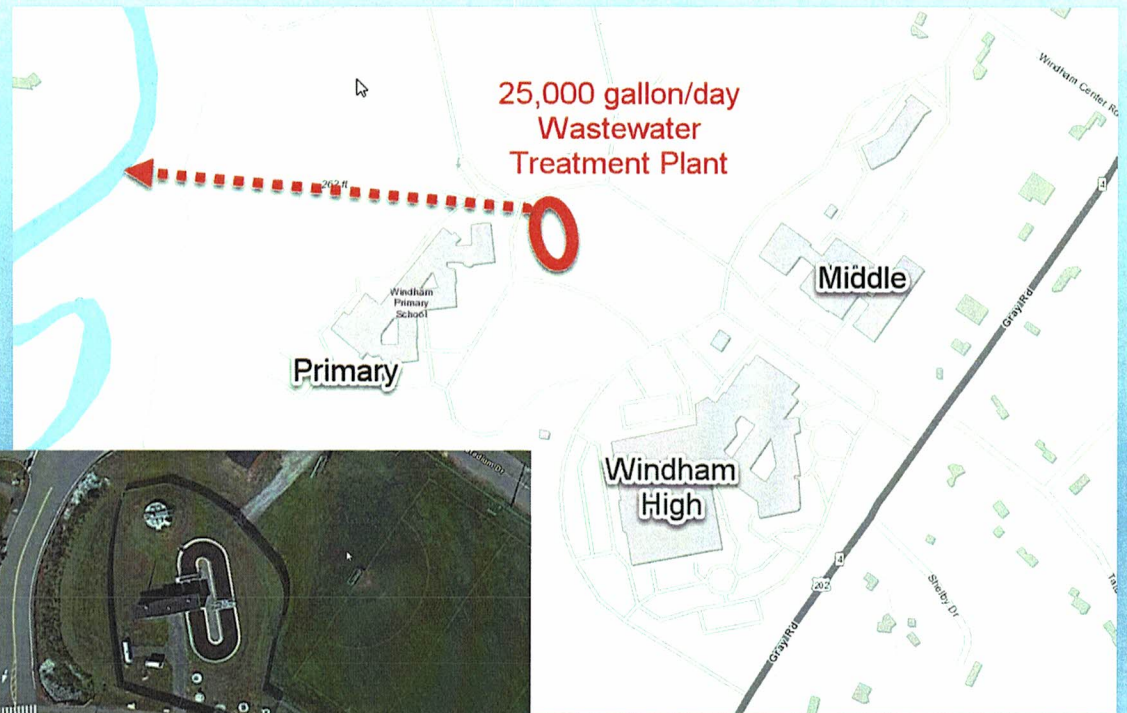
The Portland Water District, Town of Windham and Gorham removed two wastewater outfalls to the Presumpscot in 2008 by building a \$7.0 M conveyance system (2 pumping stations, 20,000 ft of force main and gravity)

Removal of Wastewater Outfalls to Class B Rivers



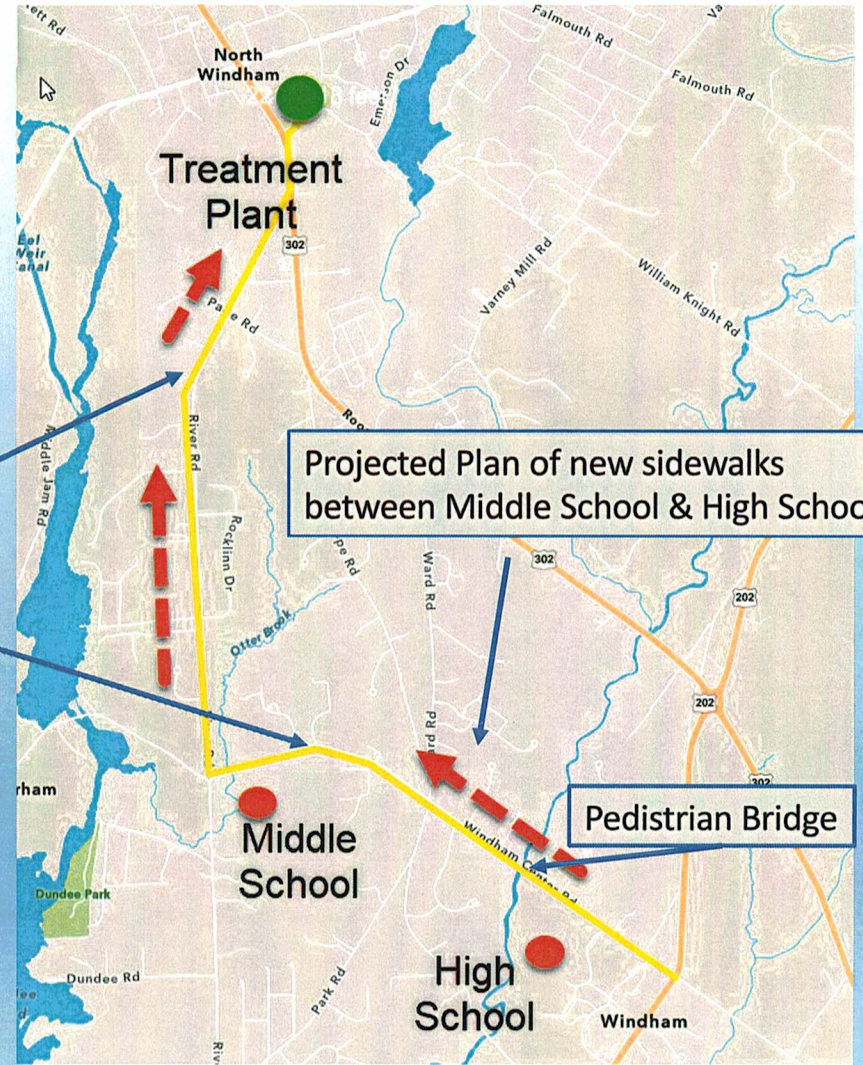
RSU 14 existing Wastewater Treatment Plant

- Permitted for 25,000 gallons per day Discharge to Class B Pleasant River
- Permitted Loadings to the River BOD and TSS



RSU 14 Wastewater Project

Projected Plan of new piping
& 2 pump stations






Advantages of RSU 14 Campus WW Conveyance Project

- ✓ Removes Wastewater Discharge Outfall from Class B – Pleasant River/ Presumpscot
- ✓ Significant Pollutant reduction to the Environment base on the design criteria and permit conditions for the new treatment plant.
- ✓ Removes older antiquated treatment plant (difficult to operate and maintain)
- ✓ Removes the need for future capital upgrades and O&M costs related to the old plant
- ✓ Consolidates treatment into North Windham's New advanced MBR treatment facility
- Removes the need to build expensive Septic System at New Middle School

Support from our Environmental Friends

- The board of directors for **Friends of the Presumpscot River (FOPR)** has unanimously endorsed this idea as follows:
 - Friends of the Presumpscot River supports the concept of ceasing wastewater discharge for the entire Windham School System into the Pleasant River and, instead, piping that wastewater to the new Portland Water District North Windham Wastewater Treatment Plant as soon as the Plant is online and piping infrastructure can be completed.
- **Friends of Casco Bay (Ivy Frignoca, Casco Bay Keeper)**
 - I will add that the Pleasant River is the largest tributary to the Presumpscot River, and the Windham school discharge is the upper-most point source discharge to the Presumpscot River system. When executed, this new plan will eliminate that discharge and provide more thorough treatment for those wastewaters at the new plant in North Windham. This change will improve water quality in the Presumpscot River from the Pleasant confluence all the way to the Casco Bay Estuary and Casco Bay itself. This will further assist the health and functioning of these connected ecosystems.

Description	Investment Dollars	Description
Current Carry Forward		
Shortfall	 <3.4>M	(additional SRF loan or CDS?/Town)
Connection to Middle and H.S.		
		RSU applies for SRF and CDS funding
Projected Expenses Sewer Sposedo Rd to Middle to H. S.	<12>M	Apply to SRF (wastewater fund), Piping, Closure HS plant
Projected Revenues (CDS Grants)	4M or 6M Credit	Congressionally Directed Spending
Middle School	1.5M 1.5M Credit	Substitution of sewer for septic
CWSRF & BIL. (forgiveness reduction)	2M 2M Credit	forgiveness reduction
Projected shortfall	 <5>M or <3>M	
Sidewalk Section (7300 ft)..... H.S to Middle School only	 < 3.05>M	Sidewalk, allowance on Bridge 300K Possibly with UMO composite printing, MDOT and/or GPCOG grants?
Sub-total	<8>M <1>M <6>M	Funds to complete HS project SRF. Add in 1M contingency 10%
Total Shortness estimates	< 9>M < 7>M	Middle and H.S. Future Connections & Closure of Plant

Collaborating Agencies Supporting Sewer Initiative

- **Town of Windham (Councilors and Residents of Windham)**

- **Portland Water District**

- **RSU 14 School District**

- **Friends of the Presumpscot River**

- **Maine DEP**

- **Friends of Casco Bay**

- **GPCOG (Greater Portland Council of Governments)**

Additional Town Initiatives

- Ordinance & Education program for Residents and Businesses for handling Phosphates and Nitrates for lawn/fields and other products
- Ordinance & Education program for Residents and Businesses to switch to environmentally safe cleaning detergents (low Phosphates, etc.).
- Incentive Program for water reduction fixtures in new Sewer District for Business

We need assistance with funding

- Best Way --for these items- we are ready to apply in April 2024
 - **Piping (connecting entities to new plant)**
 - **Pump Stations (conversion at school and new Middle School)**
 - **Closure of existing WWTF at High School**
 - **Sidewalk Connection between schools (bridge by UMO)**

Contact Information

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 - PWD Office 207-523-5264
- **Chris Howell, Superintendent of Schools at RSU 14 Windham Raymond Schools**
 - Email. chowell@rsu14.org
 - RSU 14 Office. 207-892-1800