

Comprehensive Wastewater Management Plan (CWMP)

Project Update

Sudbury School Committee

February 7, 2022

Introduction / Background



- Woodard & Curran Team
- Town Wastewater Studies Date Back to the 1980s
 - *All Reports Detail Environmental Concerns Related to the Town's Main Drinking Water Supply, as well as Potential For Economic Development, as Reasons to Sewer Route 20 Area*
- Goal
 - Complete Town-wide Study With Public Participation
 - Preserve and Protect Sudbury's Drinking Water Supplies
 - Benefit From 20-Year Planning Document
 - Submit State and Regulatory Filings – Full Approvals
 - Leverage Funding Opportunities

CWMP Project Scope



- Update Wastewater Planning to Date to Meet Current Guidelines
 - Kick-Off Meetings – Internal and External
- Review and Update
 - Areas of Wastewater Study
 - Wastewater Flows
 - ***Previous Sites Recommended for Wastewater Use***
- Prepare Draft Report for Town Review
- Strategize State Filings
- ***Prepare Environmental Impact Studies***

Completed

In Process

Groundwater Discharge Review



- 2012 Project Evaluation Report Recommendations (Section 7 PER)
 - Curtis Middle School – Groundwater Discharge Location
 - Recommended Plan from 2012

Report Town of Sudbury

Project Evaluation Report

June 2012
(Town Revisions incorporated June 2013)

Prepared for:
Town of Sudbury
Planning & Community Development
278 Old Sudbury Road
Sudbury, MA 01776

The Recommended Plan

The Recommended Plan for wastewater management in the Route 20 business district includes the following components:

- Construction of a decentralized wastewater treatment system for between 208,500 and 268,400 gpd.
- Gravity-collected wastewater flows from the Central Area collected at a pump station located on Route 20 in the vicinity of Nobscot Road and transmitted to the proposed wastewater treatment facility by force main.
- Pressure sewers and individual grinder pumps to serve all properties located in the West Area.
- A Wastewater Treatment Facility located on town property at 641 Boston Post Road (Parcel K06-505) consisting of a 1.6 acre parcel located away from developed residential areas and with no current structures.
- A membrane bioreactor (MBR) process with a denitrification sand filter for wastewater treatment, allowing the treated effluent to be discharged without further treatment to an effluent disposal system.
- A 1.7 mile force main, beginning at the wastewater treatment facility, following along Horse Pond Road, and discharging onto the Curtis Middle School athletic fields.
- Continued reliance of the East Area on on-site systems, with each individual property owner responsible for septic system repairs in accordance with Title 5.

<https://Sudbury.ma.us/dpw/cwmp>

2012 Tasks Completed for Groundwater Discharge

- Completed Sub-Surface Borings to Determine
 - Depth to Groundwater & Bedrock
 - Types of Sub-Surface Soils Present
 - Permeability of Land
 - Can This Area Accept groundwater Discharge Appropriately
 - Loading Test
 - Constructed a Bed and Loaded With Water to Evaluate Permeability
 - ✓ Concluded Curtis Middle School Suitable for Groundwater Discharge

CWMP Tasks for Groundwater Discharge



- Met With MassDEP – Review Work Completed in 2012 Report
 - Determine Any Additional Tasks to be Updated
- Contracted With Hydrogeologist
 - Review Work Completed in 2012
 - Walk Site and Identify Any Constraints to Land Use
- Confirm Results of 2012 Investigation
- CWMP Results Confirm Curtis Middle School for Groundwater Discharge
 - School Ball Fields Common Location for Groundwater Discharge

2012 Study Maps of Testing Areas



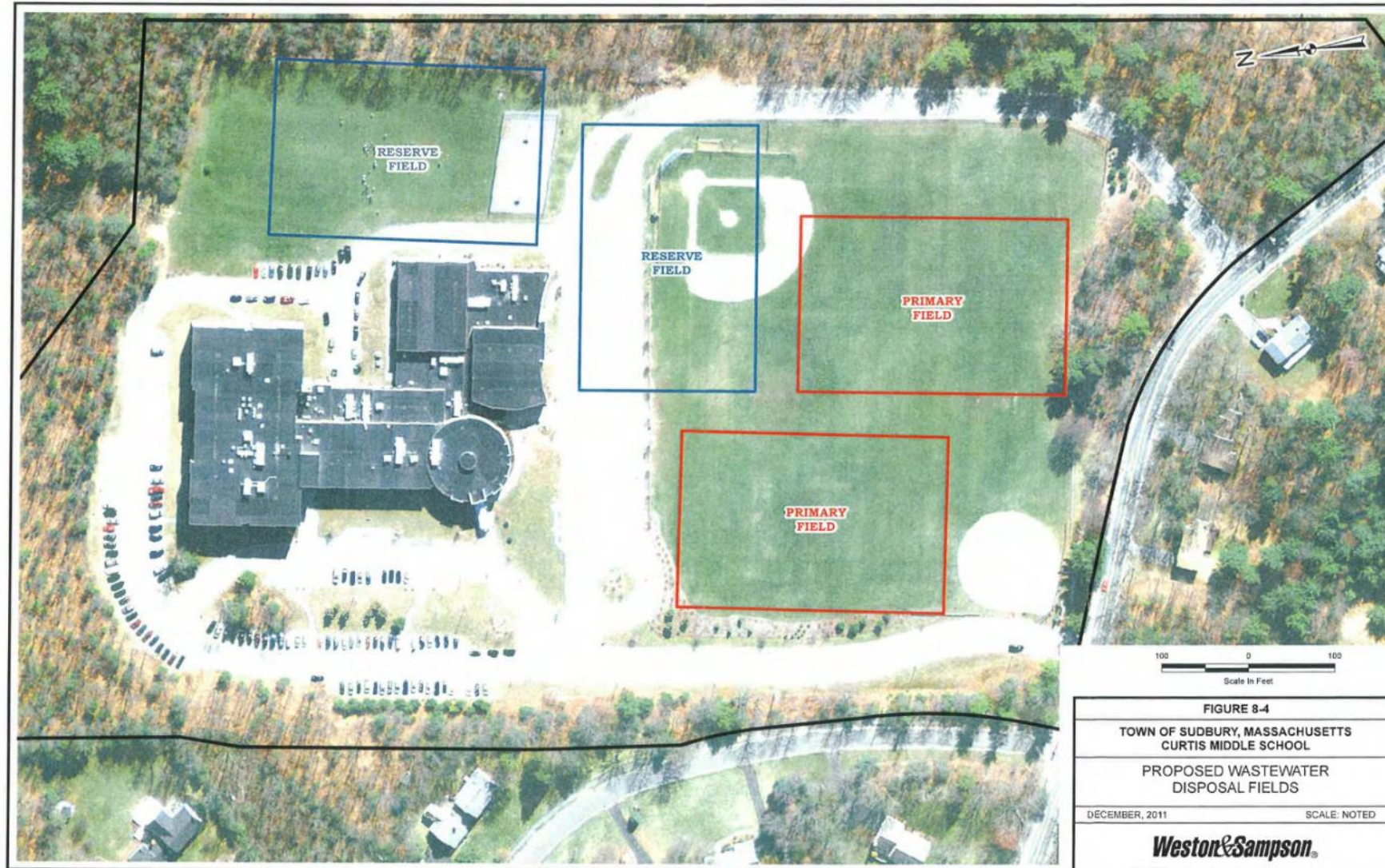
- Test Boring Sites



- Boring Observation Sites



2012 Study Proposed Discharge Fields Locations



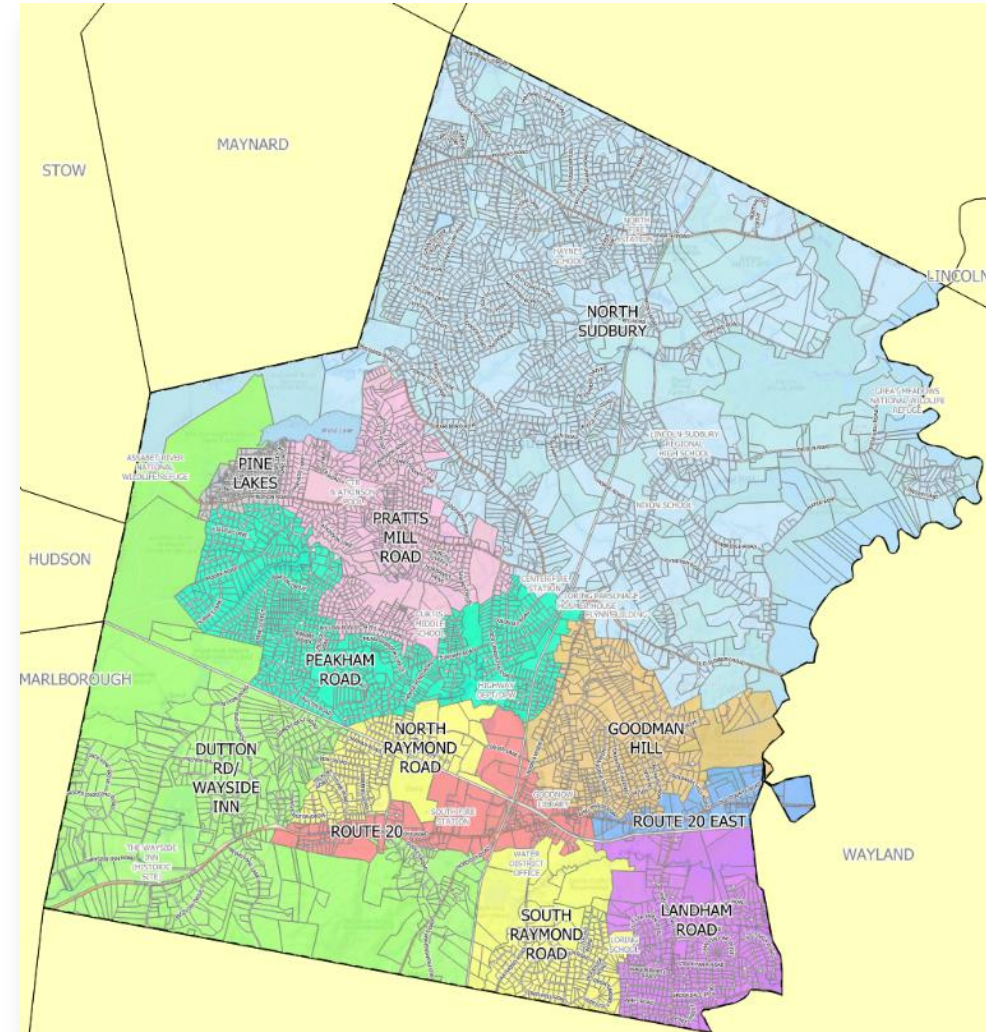
Next Steps for Groundwater Discharge



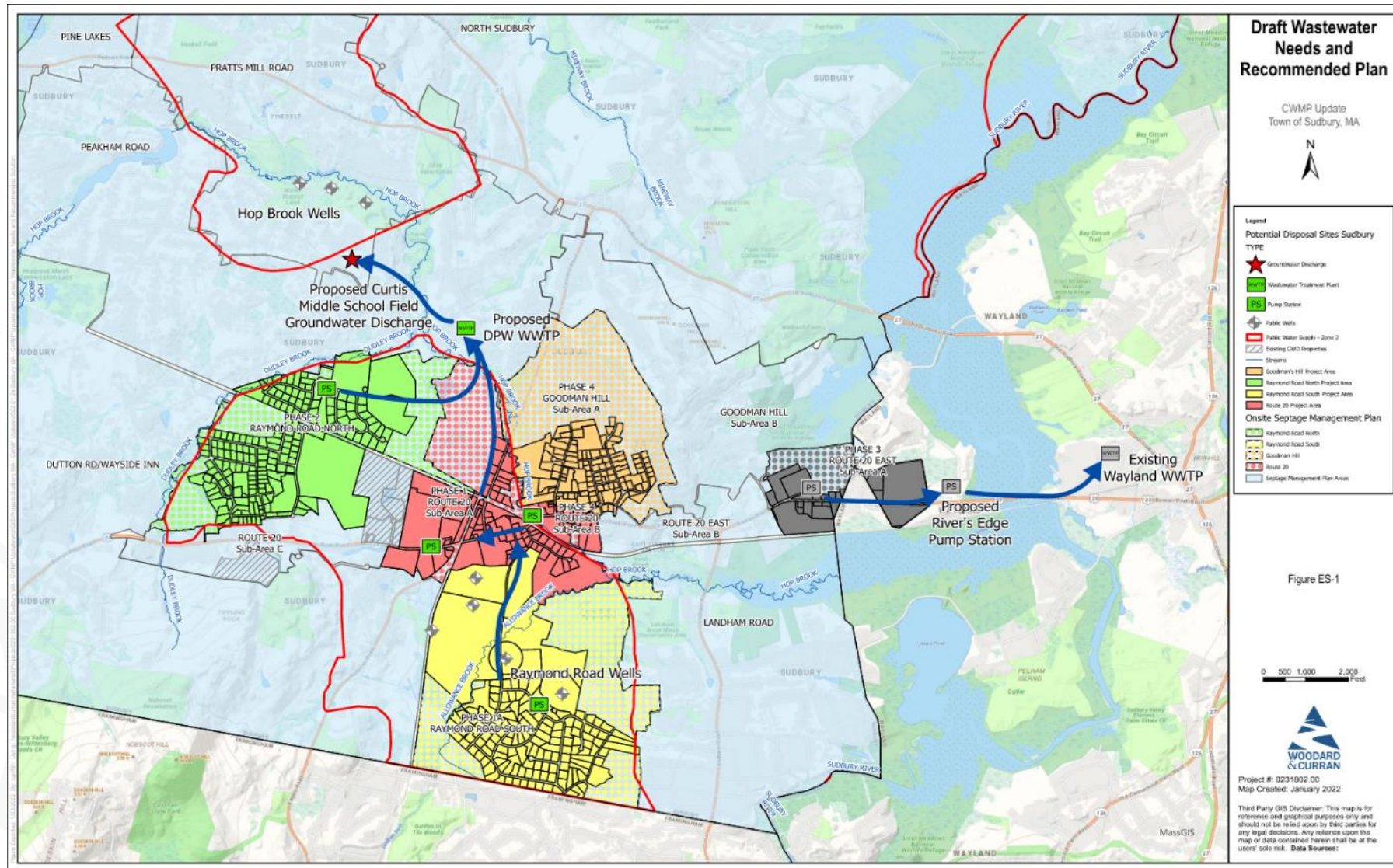
- Work With Town to Get CWMP Fully Approved
 - Massachusetts Environmental Policy Act Office (MEPA)
 - Future Sudbury Town Meeting
 - Preliminary to Final Design
 - Complete Survey
 - MassDEP Groundwater Discharge Permit

CWMP Task - Develop Study Areas

- Town-wide Analysis
- Key Areas:
 - Hop Brook Wells (Pratts Mill)
 - Raymond Road Wells
 - Route 20 Corridor
- Developed Needs Areas:
 - Reviewed Health Department Records
 - Met With Health Director, Bill Murphy
 - GIS Mapping – Parcel Based
 - Historical / Environmental



Needs Areas & Draft Recommended Plan



Public Outreach Efforts

- All Public Outreach Meetings Posted on Town's Webpage
 - <https://Sudbury.ma.us/dpw/cwmp>
- Future Meetings Will be Posted and Advertised

Questions & Answers

