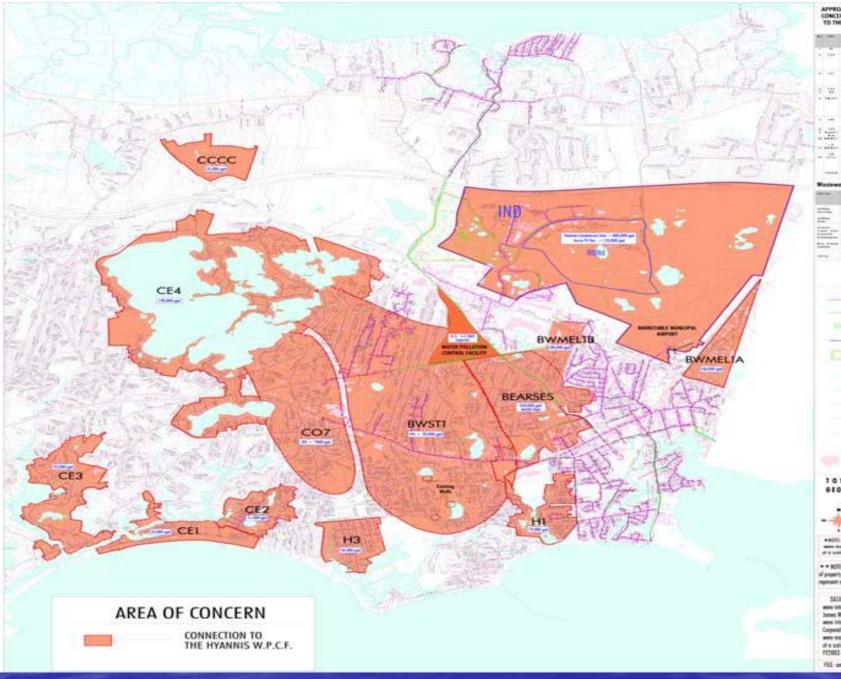


- Planning commenced in 1993 and concluded in 2007
- Areas of Concern
 - -Documented Wastewater Problems from On-site Systems
 - -ZOCs that exceed 5 ppm Nitrate threshold
- Prioritized Areas of Concern recommended for future connection to the Hyannis Water
 Pollution Control Facility
 - -Weguaquet Lake area
 - -Stewart's Creek area
 - -Hall's Creek area
 - -Long Beach/Short Beach Road & Craigville Beach Road area
 - -Red Lily Pond area
 - -Portions of Zones of Contribution to Public Water Supply Wells (BWST1 and CO7)
 - -Portion of Bearses Way south of Rte 28
 - -Gravel pit area north of Attucks Lane
- •Prioritization was performed in coordination with a Citizens Advisory Committee, public meetings, public hearings, media communications, and direct mailings



APPROACH TO EXTEND SEWERS TO AREAS OF CONCERN AND PUTURE WASTEWATER FLOWS. TO THE WPCF TOWN OF BARRSTABLE WASS. SAW NO. 2697.0

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	-	The first state of the district of the distric

LEGEND

GRAVITY SEWER

FORCED SEWER

PUMP STATION

ZONING LINE

MEDICAL SERVICES OVERLAY DISTRICT

MARSH AREA

EDGE OF WATER

DIRT ROAD

PAVED ROAD

PARCEL LINE **

RAIL ROAD TRACK

BUILDING

TOWN OF BARNSTABLE SEOGRAPHIC INFORMATION SYSTEMS UNIT



* NOTE. The percel loses are only graphic representations of properly boundaries. They are not then incomers, and do not represent actual substantials, to physical edgects, on the map.

SEES SELECTS. Placinums (non-male harves) were interpreted from 1995 serial photographs by The Jones W Swell Company. Topography and registron were interpreted from 19th corial photographs by GEO Corporation. Plasmattics, topography, and registries were mapped to must National Rep Access; Standards. at a sale of 1"-100". Penal lines were digitized from FY2003 Town of Borottchile Assessor's tox maps.

FIEL sweet social day 8:57 F. 1-14-2903

- Stewart's Creek Areas of Concern
 - Documented Wastewater Problems from On-site Systems
 - -High Groundwater (<10 ft)</p>
 - -Poor Soils
 - -Distance to marsh
 - -Set back from sidelines
 - -Lot size (<0.3 acres)
- Alternatives evaluated to address area of concern
 - -Single-unit Title 5 systems
 - -Collection and treatment at the Hyannis Water Pollution Control Facility
 - -Small treatment facilities
 - -Multiple-unit systems
 - Advanced individual on-site systems

- Received approval from MEPA and the Cape Cod Commission in Oct 2007
 - -Effluent discharge capacity was established at the Hyannis Water Pollution Control Facility of up to 4.2 MGD
 - -This allowed us to proceed with sewer expansion program
 - Town Council had previously appropriated design funds for Stewart's Creek area sewer project in 2003
- Town of Barnstable Hyannis WPCF commenced the upgrade and expansion of the Hyannis facility 2008
- *Construction funds were appropriated for the eastern and western sections of Stewart's Creek area
- Appropriation Order 2009-096 \$3.9M
- Appropriation Order 2010-017 for \$3.3M

- Received eligibility for subsidized loan from State on April 27, 2009 and updated July 31, 2009
 - Wastewater projects eligible for a 2% 20 year loan with an 8.9% principle subsidy from federal stimulus funds
 - Federal stimulus subsidy is a one time opportunity in 2009
 - Stewart's Creek area 8.9% principle subsidy would save \$633,600 in principal cost and the ½ market interest rate loan (2%) would save \$1.65M in interest cost. Assumed total cost of project to be \$7.2M



- Status of project
 - -Submitted all required applications, plans and documents as per specified time line established by the Massachusetts DEP State Revolving Funds Program and ARRA requirements
 - Received all approvals from Mass DEP required to date to proceed with the sewer expansion projects
- Estimated Schedule for Project
 - -Commence construction spring 2010
 - -Complete construction fall 2011