GRRIP II Watershed Analysis for Lakeville, MA

Estimates of Land Use, Impervious Surface and
Annual Nonpoint Source Pollution Loads

2003 Land Use Types

- Crop Land
- Pasture
- Forest
- Non-Forested Wetland
- Mining
- Open Land
- Participation Rec.
- Spectator Rec.
- Water-based Rec.
- Multi-Fam. Res.
- High Density Res.
- Medium Dens. Res
- Low Dens. Res
- Salt Water Wetland
- Commercial
- Industrial
- Urban Open
- Transportation
- Waste Disposal
- Water
- Woody Perennial (Includes Cranberry Bogs and Nurseries)

1&2

Site 1 is located at Route 105 at the Long Pond River: bridge with rip-rapped slopes. Storm flows are directed away from the Long Pond side. Long Pond River channel was very heavily vegetated during observation. Out access road to Assawompset Pond nearby with steep slope, no flow attenuation, goes to pond shore. These structures are located in a priority habitat and a Zone A area of a public drinking water supply.

Site 2 is located at Route 105 at Parkhurst: culvert on east side of Route 105 from the inlet at Parkhurst Realty Trust to the west. The inlet at Parkhurst has had chronic invasive vegetation problems over the past five years and has been chemically treated. Water quality at this point is key as the Assawompset Pond is a public drinking water supply.

Assawompset Pond

1

2

Long Pond

Land Use Allocation 158.0 acres

Land Use Area in Acres is 158.0
Inpervious Area is 4.4 Acres
Percentage of Imperviousness = 2.8%
Avg Annual Nitrogen Load = 706.0 pounds
Avg Annual Phosphorus Load = 83.9 pounds
Avg Annual Suspended Solids = 18596.8 pounds

This entire sub-watershed falls within a ZoneB Protection Area

- Drainage System
- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird_noaa
- Rarefish_noaa
- Rarecrustacean_noaa
- Rarereptile_noaa
- Rarebivalve_noaa
- Intermittent Wellhead Protect
- Cold Water Fisheries
- Anadromous Fish Run
- Critical Area after Storm Event
- Wetlands
- Solid Waste Facility
- Estimated and Priority Habitats
- ACEC
- Zone 2
- Zone B
- Rivers and Streams
- Lakes & Ponds
- Road Island Towns
- Other MA Towns
- Town Boundary
- Ocean
- Transmission Lines
- Railroad

Roads (Mass Hwy Functional Classes)

- Local Rds & Non-Eligible Functional Class Rds (F-0/F-6)
- Interstate (F-1)
- Rural Principal Arterial & Urban Ext (F-2)
- Rural Minor Arterial & Urban Ext (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-5)

The GRRIP II(Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP II analyzed towns in the SRPEDD region that fall within the Narragansett and Taunton River Watersheds.
This Watershed Analysis Project further details several of the drainage systems within each of this town in the Narragansett and the Taunton River Watersheds to show the general health of the contributing watershed from the specified drainage system by extrapolating an area of imperviousness using the Schular Watershed Metodology and the Watershed Tools Extension developed by Mass GIS.

Map prepared by
SRPEDD
88 Broadway, Taunton MA
August 2004

Watershed Analysis produced using the Watershed Tools Extension developed by Mass GIS.

The following data sources from Massachusetts Natural Heritage & Endangered Species Program at the NHESP, Westborough, MA and are the only sources identified as follows:

Tern and Habitat of Rare Wildlife
NHESP 1998-2001 Tern and Habitat of Rare Wildlife Species within Wetlands Priority Habitat

Priority Habitat of known rare species and areas of species
NHESP 1998-2001 Priority Habitat of State Listed Rare Species. NOT equivalent to "Significant Habitat" or designated under Draft Massachusetts Endangered Species Act

Certified Vernal Pools
NHESP 1998-2001 Massachusetts Certified Vernal Pools

This map was produced by SRPEDD (Southeastern Regional Planning and Economic Development District) Taunton, MA. Portions of the source digital data map have been supplied by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Calpor Corporation of Newton, MA, TIM, the Bureau of Transportation Planning & Development, Division of Marine Fisheries, Division of Fisheries & Wildlife, Buzzards Bay Project, USDA Soils Conservation Service, Coastal Zone Management, National Oceanic & Atmospheric Association (NOAA).

The location of feature boundaries shown on this map are approximate and are intended for planning purposes only. This map is not intended for legal, engineering or survey purposes.

The funding for this project was provided by the Federal Highway Administration (FHWA) and the Massachusetts Highway Department.

Inset of Watershed Location

N

0 400 800 Feet

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