

GRRIP II Watershed Analysis for Fall River, MA

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

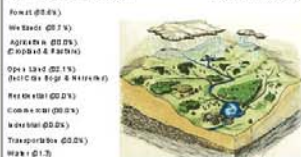
Watershed 1

2/3 of this subwatershed is located within a Zone B Protection Area

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)

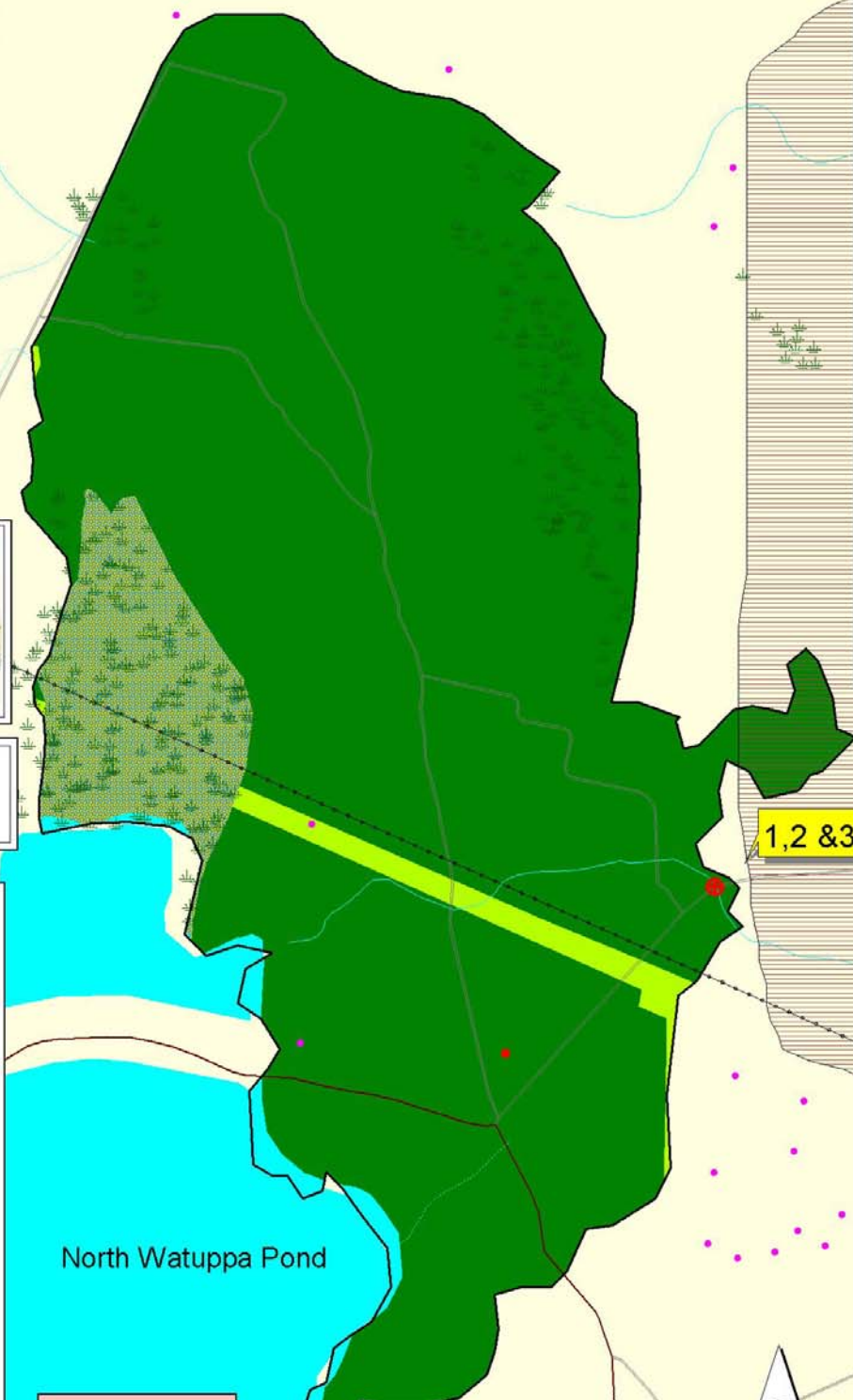
Land Use Allocation 468.3 acres



Land Use Area in Acres is 468.3
 Impervious Area is 4.7 Acres
 Percentage of Imperviousness = 1.0%
 Avg Annual Nitrogen Load = 1251.2 pounds
 Avg Annual Phosphorus Load = 51.3 pounds
 Avg Annual Suspended Solids = 11224.5 pounds

- Drainage System
- Potential Vernal Pools
- Certified Vernal Pools
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird_nosa
- Rarefish_nosa
- Rarecrustacean_nosa
- Rareinvertebrate_nosa
- Rareinvertebrate_nosa
- Rareinvertebrate_nosa
- Intermittent Wetland 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 Rd & Non-Eligible Functional Class Rte (F-0/F-1)
 - Interstate (I-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)



Photos above show a drainage system of Queen Outer Brook which flows into North Watuppa Pond, a public drinking water supply for the city of Fall River. Road conditions were unpassable and subsurface pool characterized by fresh leaves, bare soil, crumbling pavement and large potholes. The area has dense vegetation forested wetlands with a very dense understory. The drainage system is a cement-lined detention structure approx. 12 x 20 x 10' deep with a 2' deep open overflow release channel through which water is discharged directly into the brook. The detention basin was open, in close proximity to the road and with no safety fencing or protection structure around it. Water appeared clean. The system is located in a designated "Outstanding Resource Water" area, near Certified Vernal Pools, Wetlands, a Cold Water Fishery, a Priority Habitat, and the Freshwater State Forest. A State Water Facility is located approx. 1.5 miles to the North. Slope of the land is greater than 35% at the point of discharge. There is direct discharge into the water from the road.

1, 2 & 3



The GRRIP (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Design Roads. GRRIP II analyzed towns in the SRPEDD region that fall within the Narragansett and Taunton River Watersheds. The Watershed Analysis Project further details several of the drainage systems within each of these towns in the Narragansett and the Taunton River Watersheds to show the general health of the contributing watershed from the specified drainage system by outplotting the area of imperviousness using the Scholar Watershed/Modeling 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.

This map was produced by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the source digital data may have been supplied by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Cable Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of State Police, Division of Fisheries & Wildlife, Road and Bay Project, USDA, State Conservation Service, Coastal Land Management, Natural Ocean, Atmospheric Administration (NOAA), and the Massachusetts Department of Transportation (MassDOT).
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The location of features shown on this map are approximate and are provided for planning purposes only. This map is an informational tool and is not intended for use in any legal proceedings.

