# GRRIP II Watershed Analysis for Plainville, MA.

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

## Watershed 2

### 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

70.5 acres

Land Use Area in Acres is 70.5
Impervious Area is 15.0 Acres
Percentage of Imperviousness = 21.3%
Avg Annual Nitrogen Load = 360.9 pounds
Avg Annual Phosphorus Load = 67.9 pounds
Avg Annual Suspended Solids = 17663.4pounds

Inset of Watershed Location

Turnpike Lake

1&2

- 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-Off-8)
- Interstate (F-1)
- Rural Principal Arterial & Urban Exit (F-2)
- Rural Minor Arterial & Urban Exit (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-6)

N

0 700 Feet

Route 1 between Turnpike Lake and Wetland

1

Route 1 between Turnpike Lake and Wetland

2

Culvert under Route 1 between Turnpike Lake and wetland (NW), collapsing silt fence, MHD cones, pavement chips and debris remain from resurfacing. New asphalt swale, ~35% slope to the headwall. Some debris and very heavy silt at the base of the swale. On both sides of Route 1, there is so much silt coming off the road that silt fences have collapsed in spots and debris is accumulating around the banks. Flow attenuators should be considered.

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 the towns in the Narragansett and the Taunton River Watersheds to show the general health of the contributing watershed from the specified drainage system by extrapolating the area of imperviousness using the Schueler Watershed Metodology and the Watershed Tools Extension developed by Mass GIS.

Map prepared by
SRPEDD
88 Broadway, Taunton MA
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Watershed Analysis produced using the Watershed Tools Extension developed by Mass GIS.

The following data sources from draft massbasins Natural Heritage & Endangered Species Program at the DCR, Mass Fish & Wildlife, and are distributed as follows:

Tern and Habitat of Rare Wildlife
SHEET 1 1999-2001 Terns and Habitat of Rare Wildlife Uses in the Wetlands Protection Act

Priority Habitat of known rare protected species plant and animal species
SHEET 1 1999-2001 Priority Habitat of State Listed Rare Species. NOT equivalent to "Significant Habitat" or designated under draft massbasins Endangered Species Act

Certified Vernal Pools
SHEET 1 1999-2001 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 may have been supplied by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Calyor Corporation of Newton, MA, ESRI, 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.

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