GRRIP II Watershed Analysis for Berkley, 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)

Land Use Allocation

405.6 acres

Forest (7.2%)
Wetland (0.0%)
Agriculture (0.0%) (Cropland & Pasture)
Open Land (82.5%) (Mining, Regd & Vacant Land)
Residential (4.3%)
Commercial (0.0%)
Industrial (0.0%)
Transportation (0.0%)
Waste (0.0%)

Land Use Area in Acres is 405.6
Impervious Area is 9.3 Acres
Percentage of Imperviousness = 2.3%
Avg Annual Nitrogen Load = 1385.8 pounds
Avg Annual Phosphorus Load = 152.1 pounds
Avg Annual Suspended Solids = 42509.9 pounds

1

2

3

4

5

6

7

North Main Street (East): a compact two lane roadway and a 3' wide sidewalk on the base. Broken asphalt and concrete made patched & Tar. cracks appear to be sub-standard and badly in need of repair.

North Main Street (West): a 3' wide flat two lane roadway and rip-rapped rock; sitting at the base of the sidewalk.

1 - 7

- 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 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-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 the Massachusetts Natural Heritage & Endangered Species Program of the DFW, Fish and Wildlife, are identified as follows:

Rare and Endangered Wildlife
SHEET 1 (2000-2001) Rare and Endangered Species of Fish/Wildlife Species in the Watershed Presented in:

Priority Habitat of known rare or protected species plant and animal species
SHEET 1 (2000-2001) Priority Habitats of State Listed Rare Species. NOT depicted as "Significant Habitat" or designated under the Massachusetts Endangered Species Act

Certified Vernal Pools
SHEET 1 (2000-2001) 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, Calper 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.

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

Inset of Watershed Location

N

0 1000 Feet