

# GRRIP I Watershed Analysis for Dartmouth, MA.

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

## Watershed 2

- Drainage System
- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird\_noon
- Rarefish\_noon
- Rarecrustacean\_noon
- Rareinvertebrate\_noon
- Rareherpetile\_noon
- Rarearthropod\_noon
- 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**
- Local Rds & Non-Eligible Functional Class Rds (F-0/F-4)
- Arterial (F-1)
- Rural Principal Arterial & Urban Est. (F-2)
- Rural Minor Arterial & Urban Est. (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-6)

**Land Use Allocation** 364.6 acres

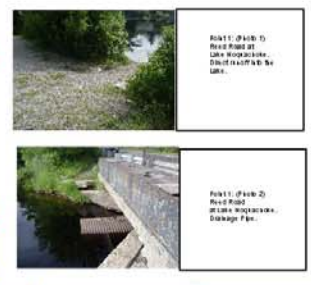
Forest (67.5%)
Wetland (27.2%)
Open Land (20.2%)
Water-based Rec. (13.4%)
Commercial (10.8%)
Industrial (2.2%)
Transportation (2.2%)
Waste Disposal (2.2%)
Water (2.2%)
Woolly Perennial (2.2%)

**Land Use Area in Acres is 364.6**  
**Impervious Area is 13.2 Acres**  
**Percentage of Imperviousness = 3.6%**  
**Avg Annual Nitrogen Load = 1449.0 pounds**  
**Avg Annual Phosphorus Load = 177.1 pounds**  
**Avg Annual Suspended Solids = 41215.3 pounds**

- 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
  - Woolly Perennial

\* This entire watershed falls with a Zone B protection area.

These photos show a drainage system in a Recreation area. Stormwater is directed through a clear cut and flow has cut rills.



The GRRIP I (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP I analyzed roads in the SRPEDD region that fall within the Buzzards Bay Watershed. This Watershed Analysis Project further details several of the drainage systems within each of the towns in the Buzzards Bay Watershed to assess the general health of the contributing watershed from the specified drainage system by extrapolating its area of imperviousness using the Scholar Watershed Knowledge and the Watershed Tools Extension developed by MassGIS.

Watershed Analysis produced using the Watershed Tools Extension developed by MassGIS.

Tracking data source from MassGIS, Statewide Road Inventory & Projected Road Inventory, 2007-2012, and 2013-2018, as well as other data sources.

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This map was produced by SRPEDD (Southwestern Regional Planning and Economic Development District), Taunton, MA. Portions of the source data have been analyzed by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Capital Corporation of Boston, MA, ERM, the Bureau of Transportation Planning & Development, Division of Mass Planning, Division of Planning & Policy, Division of Planning, USGS, State Conservation Service, Central Mass Management District, and the Massachusetts Department of Transportation.

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

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