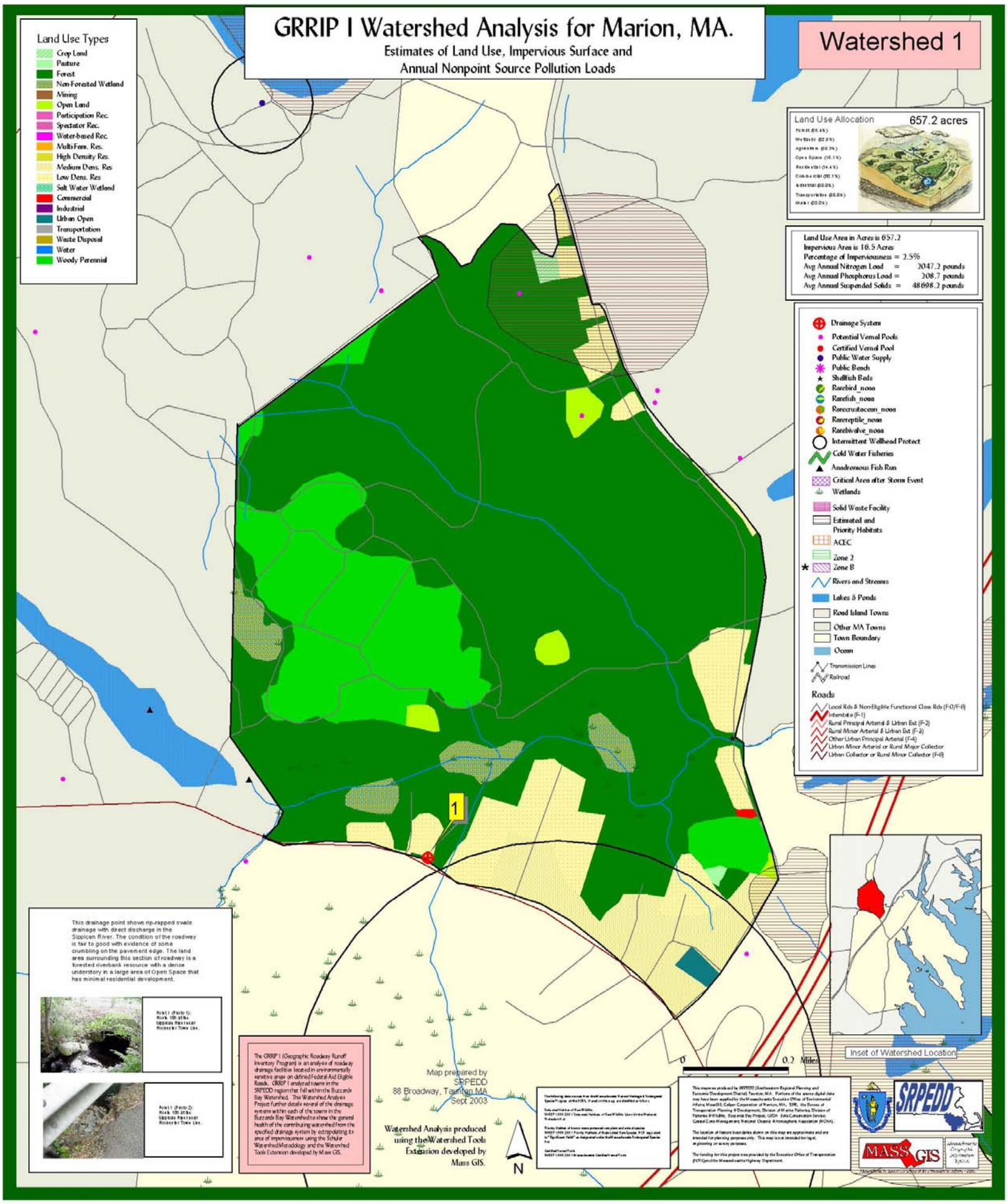
GRRIP I Watershed Analysis for Marion, MA.
Estimates of Land Use, Impervious Surface and
Annual Nonpoint Source Pollution Loads
Watershed 1
Land Use Types
Crop Land
Pasture
Forest
Non-Forested Wetland
Mining
Open Land
Participation Rec.
Spectator Rec.
Water-based Rec.
Multi-Fam. Res.
High Density Res.
Medium Dens. Res
Low Dens. Res
Salt Water Wetland
Commercial
Industrial
Urban Open
Transportation
Waste Disposal
Water
Woody Perennial
Land Use Allocation
657.2 acres
Land Use Area in Acres is 657.2
Impervious Area is 16.5 Acres
Percentage of Imperviousness = 2.5%
Avg Annual Nitrogen Load = 2047.2 pounds
Avg Annual Phosphorus Load = 208.7 pounds
Avg Annual Suspended Solids = 48698.2 pounds
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
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-6)
1
This drainage point shows rip-rapped swale drainage with direct discharge in the Sippican River. The condition of the roadway is fair to good with evidence of some crumbling on the pavement edge. The land area surrounding this section of roadway is a forested riverbank resource with a dense understory in a large area of Open Space that has minimal residential development.
Point 1 (Photo 1): Route 105 at the Sippican River near Rockwater Town Line.
Point 1 (Photo 2): Route 105 at the Sippican River near Rockwater Town Line.
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 towns in the SRPEDD region that fell 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 show the general health of the contributing watershed from the specified drainage system by extrapolating its area of imperviousness using the Schuler Watershed Metodology and the Watershed Tools Extension developed by Mass GIS.
Map prepared by
SRPEDD
88 Broadway, Taunton MA
Sept 2003
Watershed Analysis produced using the Watershed Tools Extension developed by Mass GIS.
N
0
0.2 Miles
Inset of Watershed Location
SRPEDD
MASS GIS