

EXPLANATION:

--- Town Boundary

— Study Area Boundary

● Pumping Station

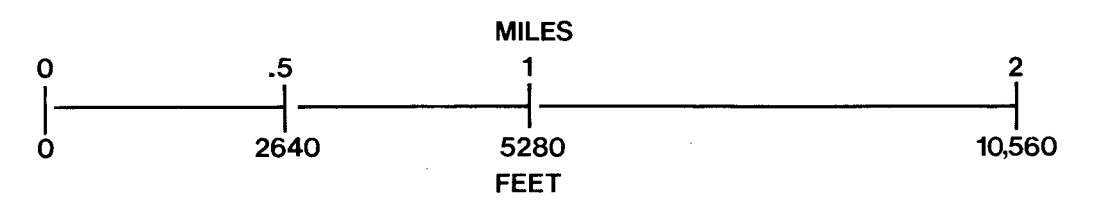
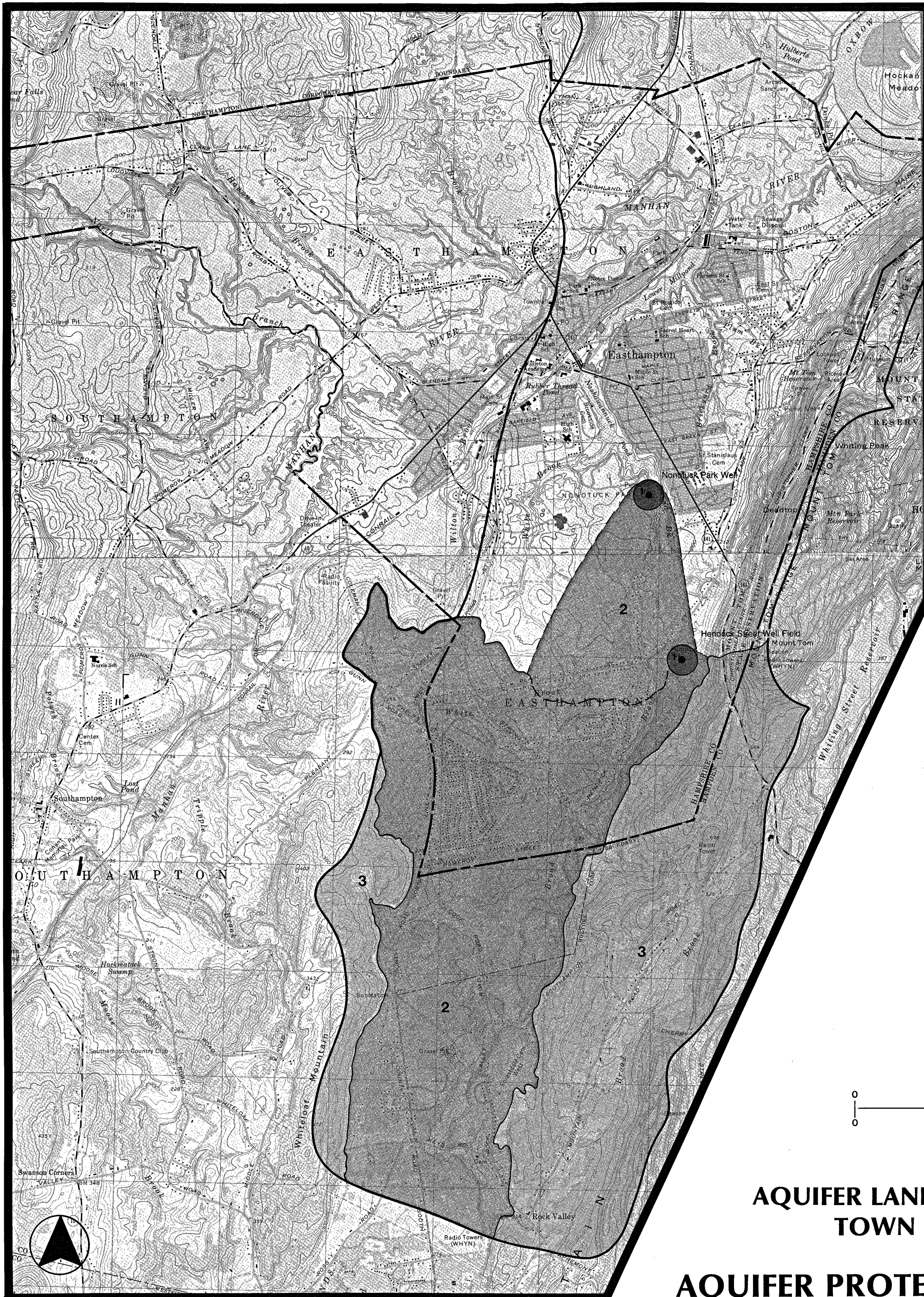
1 Zone 1:
the 400-foot radius or other designated area surrounding a water supply well as required by DEQE for the protection of the supply.

2 Zone 2:
the area of an aquifer which contributes water to a well under the most severe recharge and pumping conditions that can be realistically anticipated (i.e., pumping at the well's safe yield for 180 days with no natural recharge). It is bounded by the ground-water divides which result from pumping the well and by the contact of the edge of the aquifer with less permeable materials such as till and bedrock. The limit of the cone of depression (0.1 foot drawdown) was determined using a three-dimensional numerical ground-water flow model and then extended upgradient to the edge of the sand-and-gravel aquifer.

3 Zone 3:
the land area beyond the area of Zone 2 from which surface and ground water drain into Zone 2. The surface drainage area as determined by topography and the ground-water drainage area as defined by the numerical ground-water flow modeling were used to delineate Zone 3.

NOTE: Zone of contribution overlain by confining layer where dashed. (Nonotuck Park Well)

BASE MAPS:
USGS, 1979. Mount Tom Quadrangle 7.5-Minute Topographic Map. Reston, VA: USGS. 1:25000.
USGS, 1979. Easthampton Quadrangle 7.5-Minute Topographic Map. Reston, VA: USGS. 1:25000.



**AQUIFER LAND ACQUISITION STUDY
TOWN OF EASTHAMPTON 1987**

AQUIFER PROTECTION DISTRICTS