# Estimation of Potential Nonpoint-Source Loads of TN, TP and BOD

# Initial draft GIS analyses and maps April 2006

Environmental Protection Commission of Hillsborough County

#### Data Sources

- SWFWMD land use/land cover GIS layer (1999)
- SWFWMD soil coverage GIS layer
- FLUCCS and CLUCs land use categories (from TBEP)
- Land use-specific pollutant concentrations (from TBEP and others)
- Runoff coefficients for each land use/soil type combination (from TBEP and others)

#### Methods

- Land use/land cover layer
   intersected with soil and WBID
   boundary layers, and clipped to the
   appropriate basin management area;
- Pollutant concentrations assigned to each land use category
- Dry season and wet season runoff coefficients assigned to each land use/hydrologic soil type combination
- Potential NPS load per unit runoff calculated by multiplying the appropriate runoff coefficients by the previously assigned pollutant concentrations for each areaaggregated, WBID/land use/soil type combination

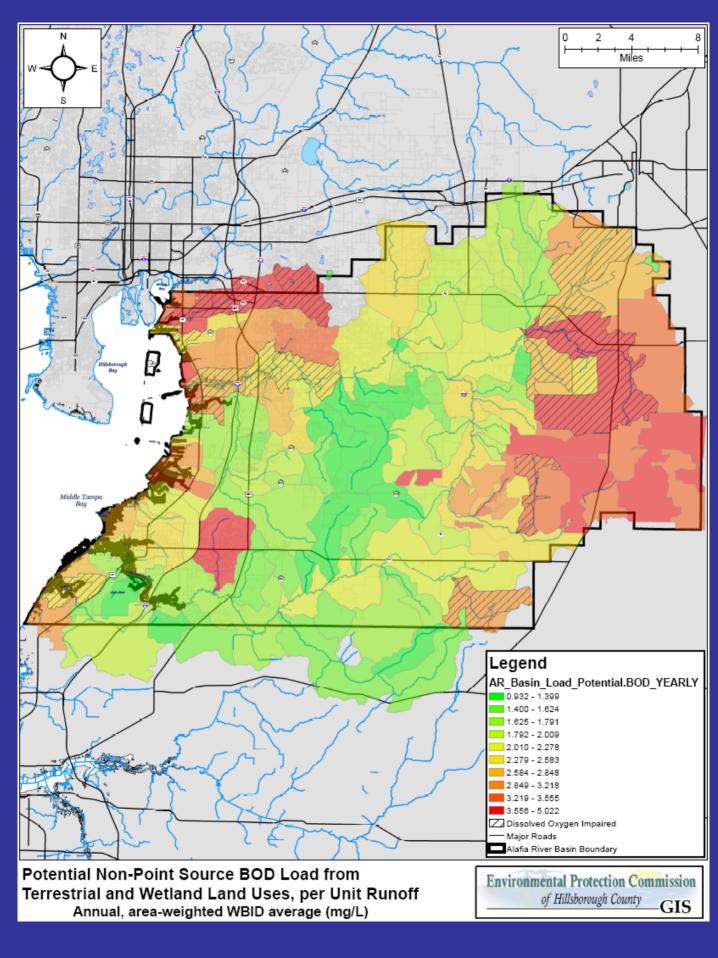
#### Maps

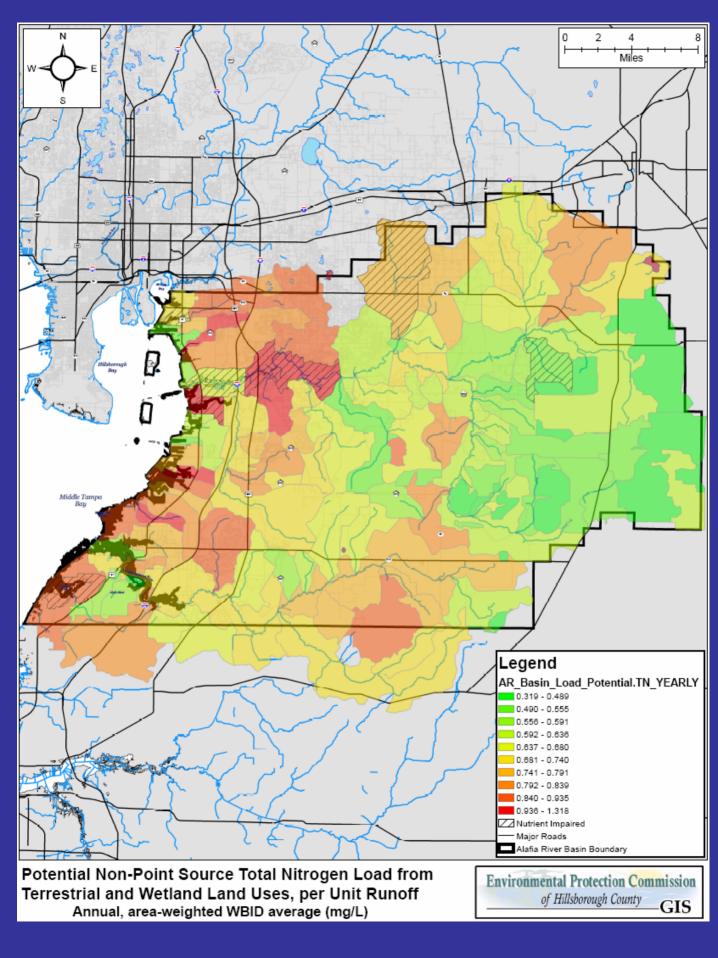
- Two sets of maps were produced for each basin management area
- The first set shows annual, areaweighted potential NPS loads (per unit runoff) for each WBID for both terrestrial and wetland/aquatic land uses. This approach may be helpful when evaluating areas for larger (e.g., regional) NPS load reduction projects
- The second set shows estimated loads (per unit runoff) for terrestrial land uses only. This approach may be helpful for siting smaller (e.g., parcel-scale) projects.

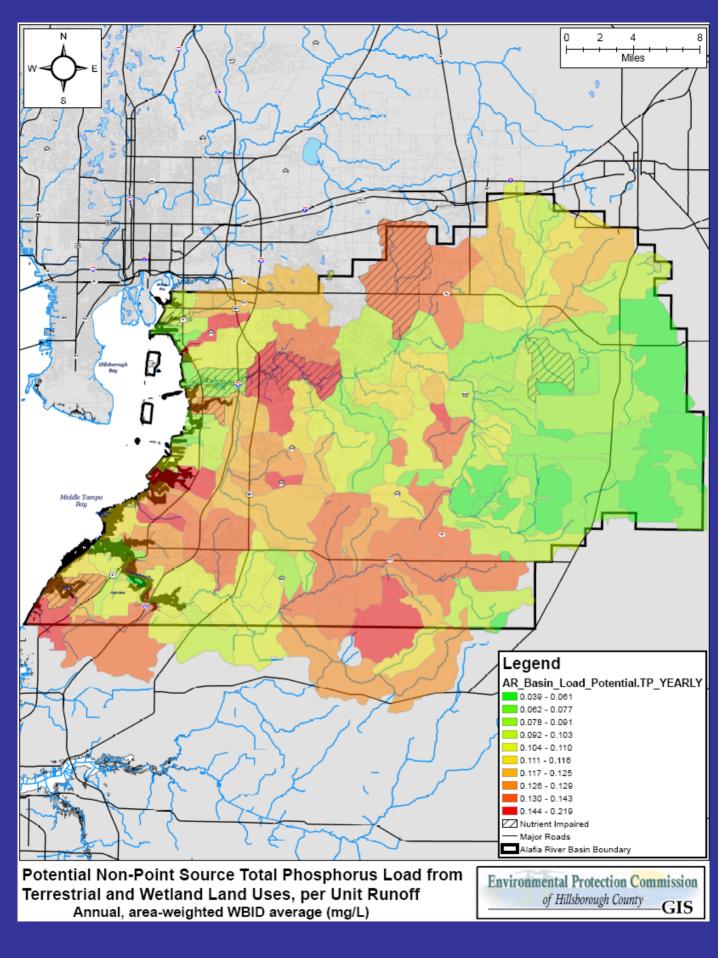
### Map Set 1

Estimated potential NPS loads per unit runoff (area-weighted WBID means) for TN, TP and BOD, from terrestrial and aquatic (wetland and open water) land use categories

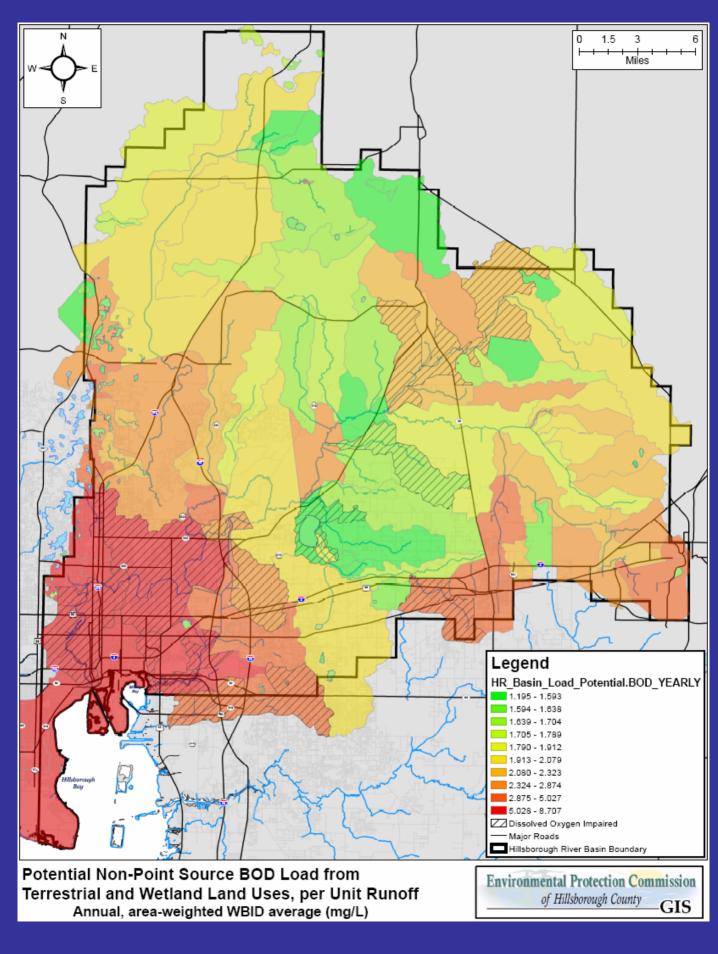
# Alafia/Little Manatee BMAP area

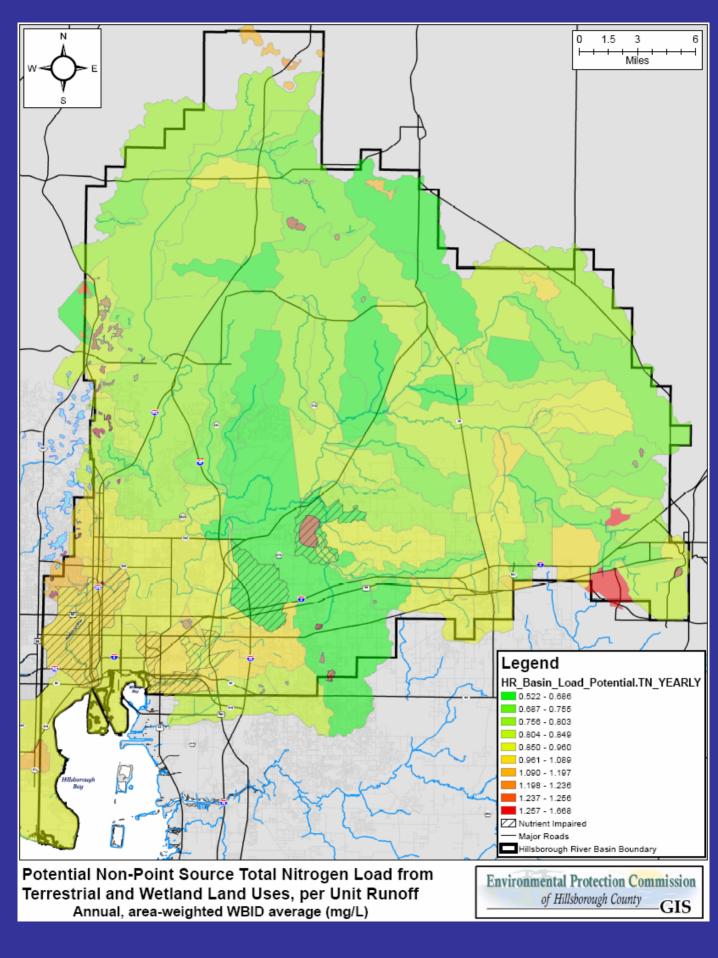


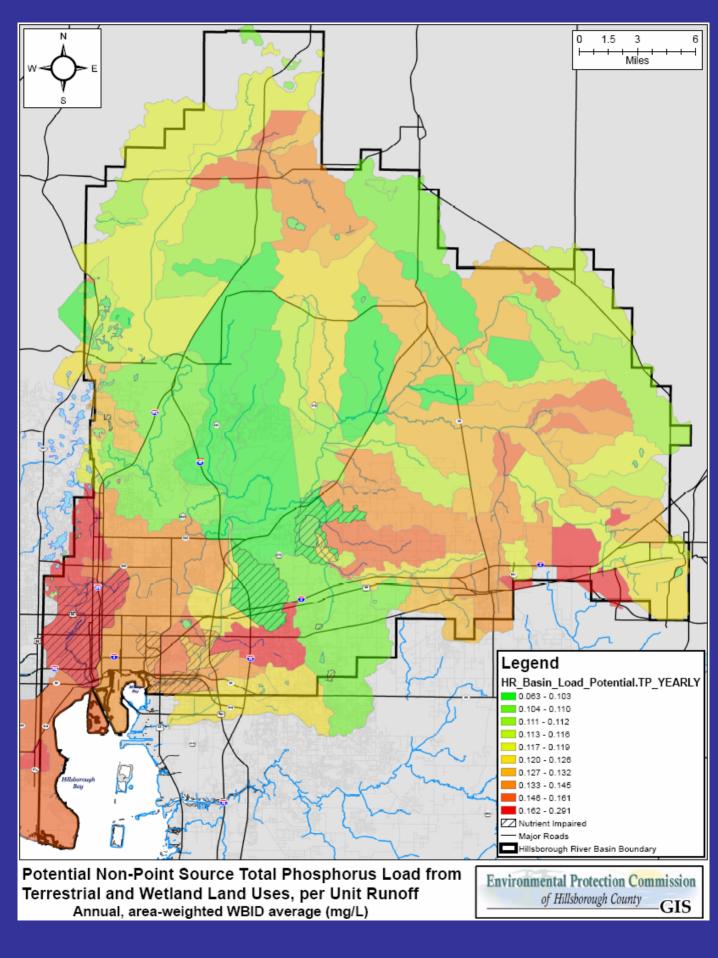




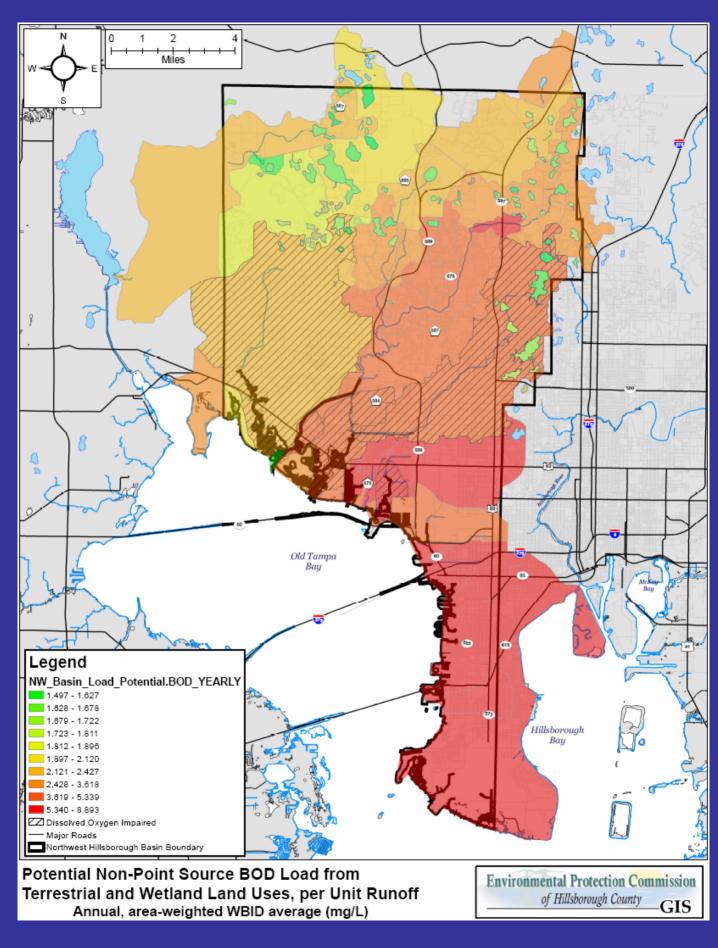
# Hillsborough River BMAP area

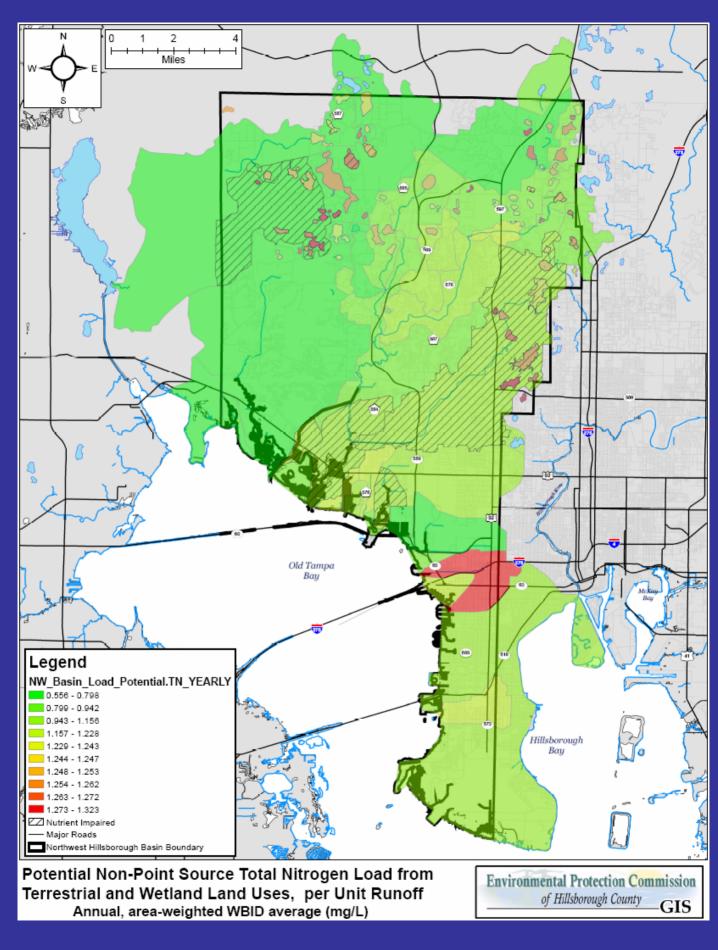


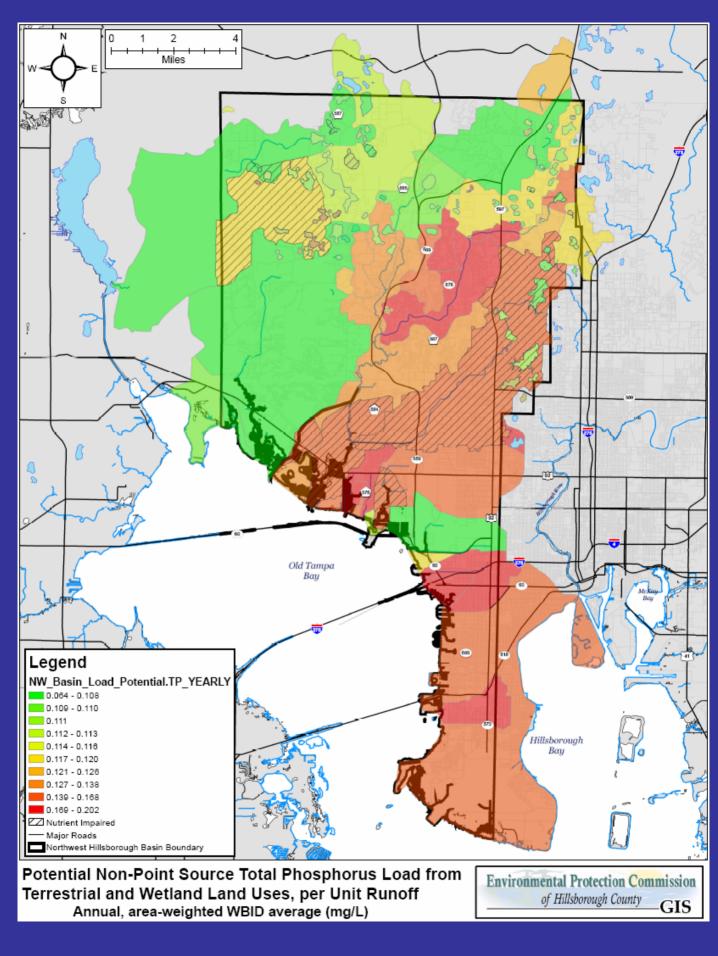




### Northwest Hillsborough BMAP area



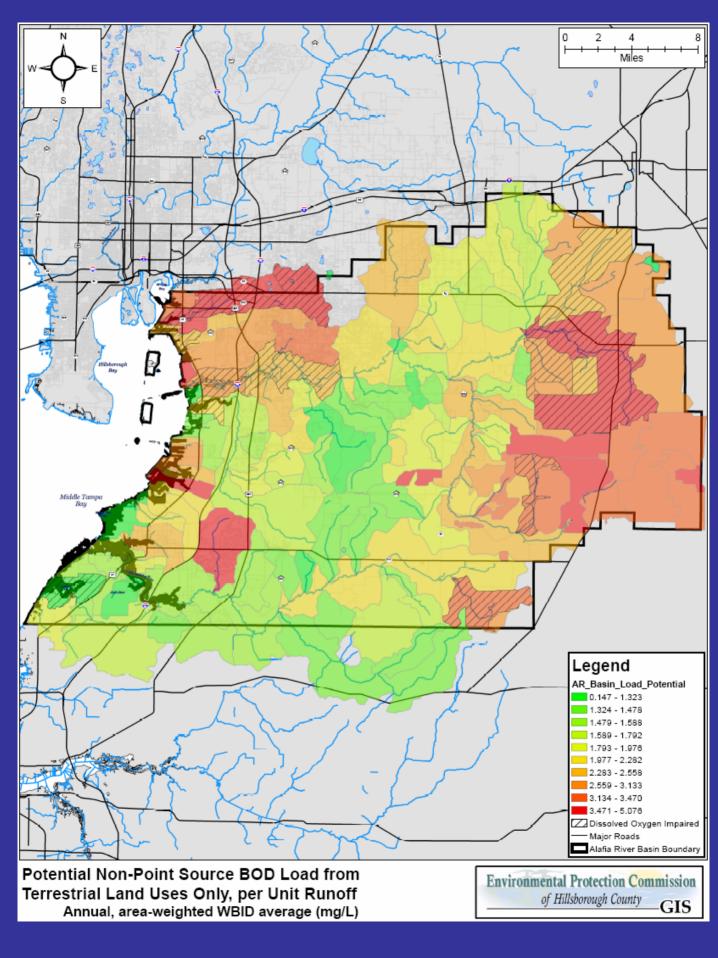


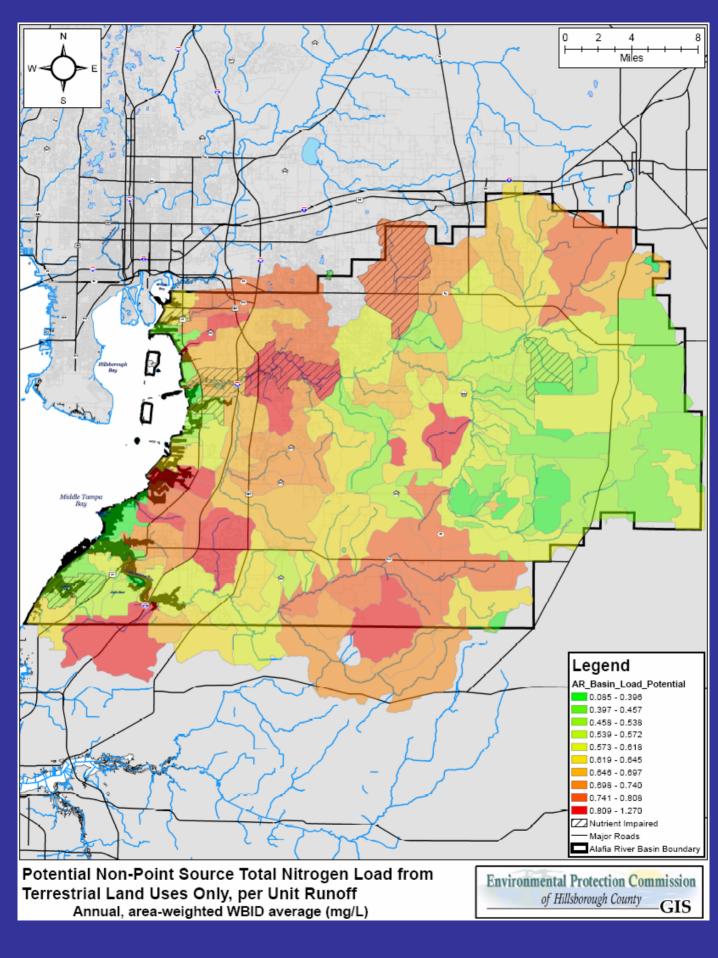


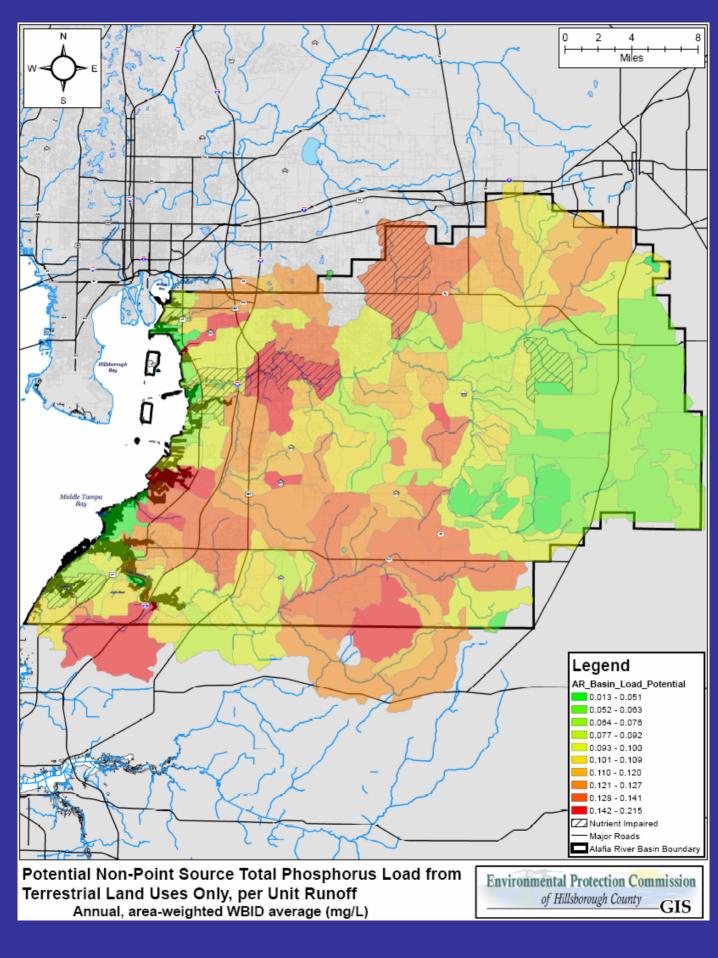
### Map Set 2

Estimated potential NPS loads (area-weighted WBID means) for TN, TP and BOD, from terrestrial land cover categories only (i.e., omitting loads from wetland and open water areas)

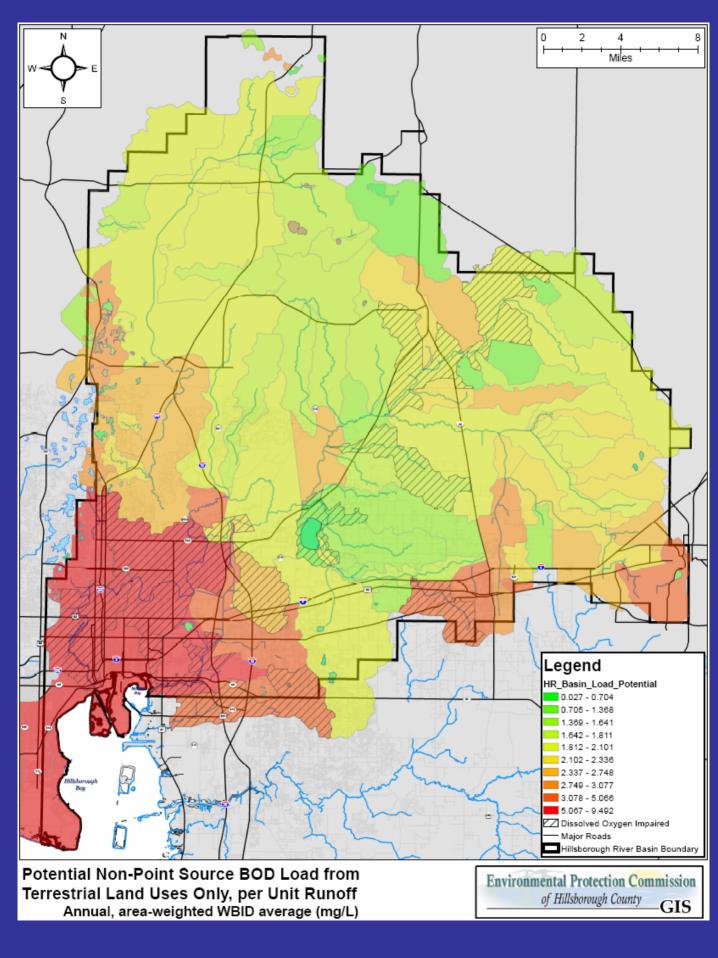
# Alafia/Little Manatee BMAP area

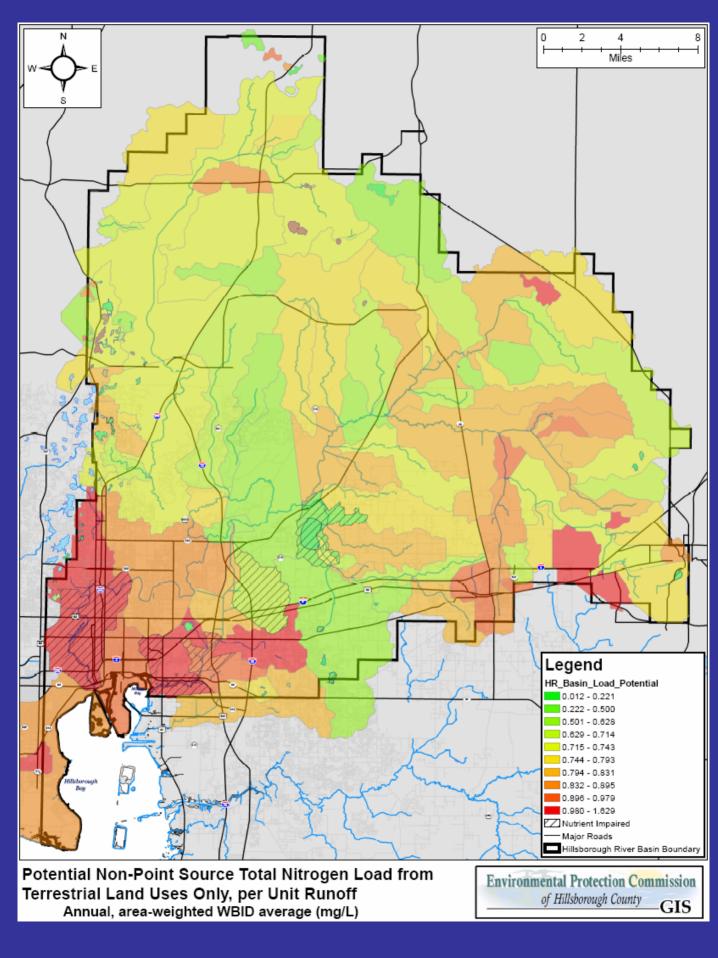


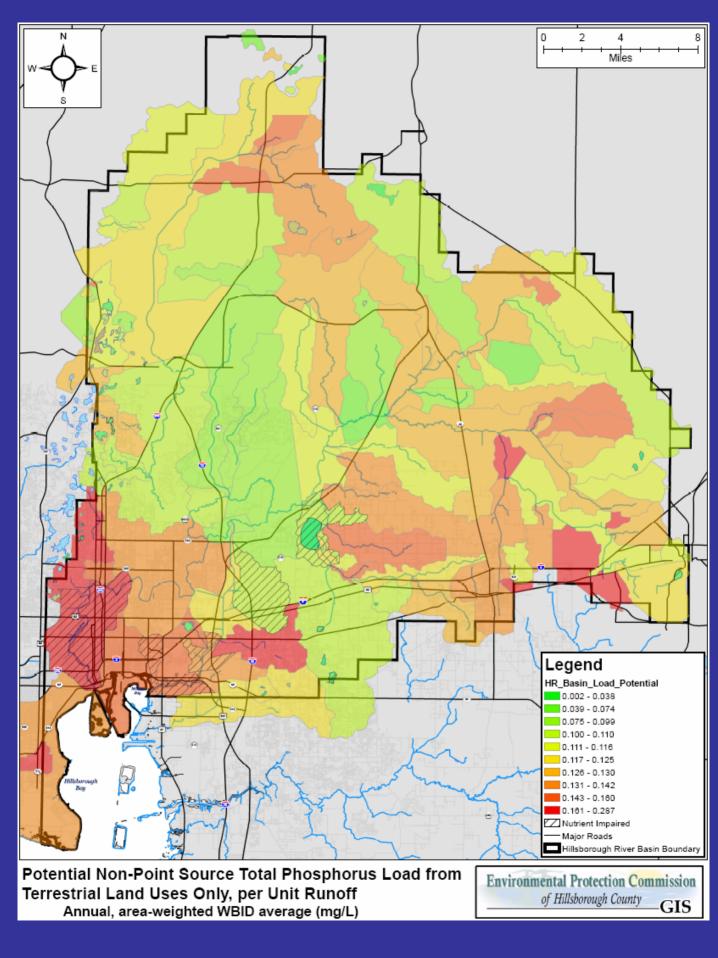




# Hillsborough River BMAP area







### Northwest Hillsborough BMAP area

