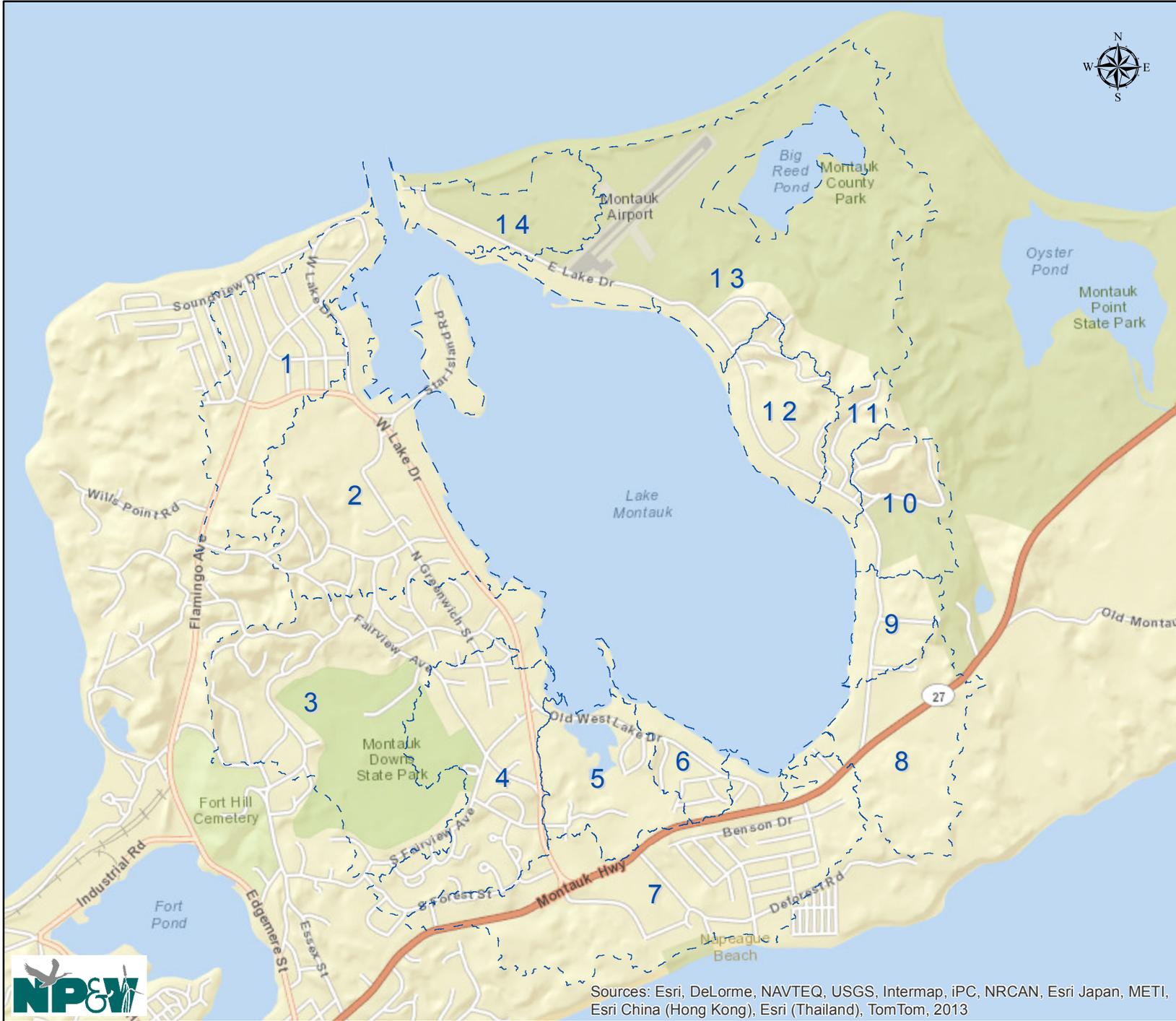




LAKE MONTAUK WATERSHED MANAGEMENT PLAN



FIGURES



Town of East Hampton
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New York Department of State



Lake Montauk Watershed
Management Plan

FIGURE 1
Lake Montauk Surface
Subwatershed Boundaries

Legend

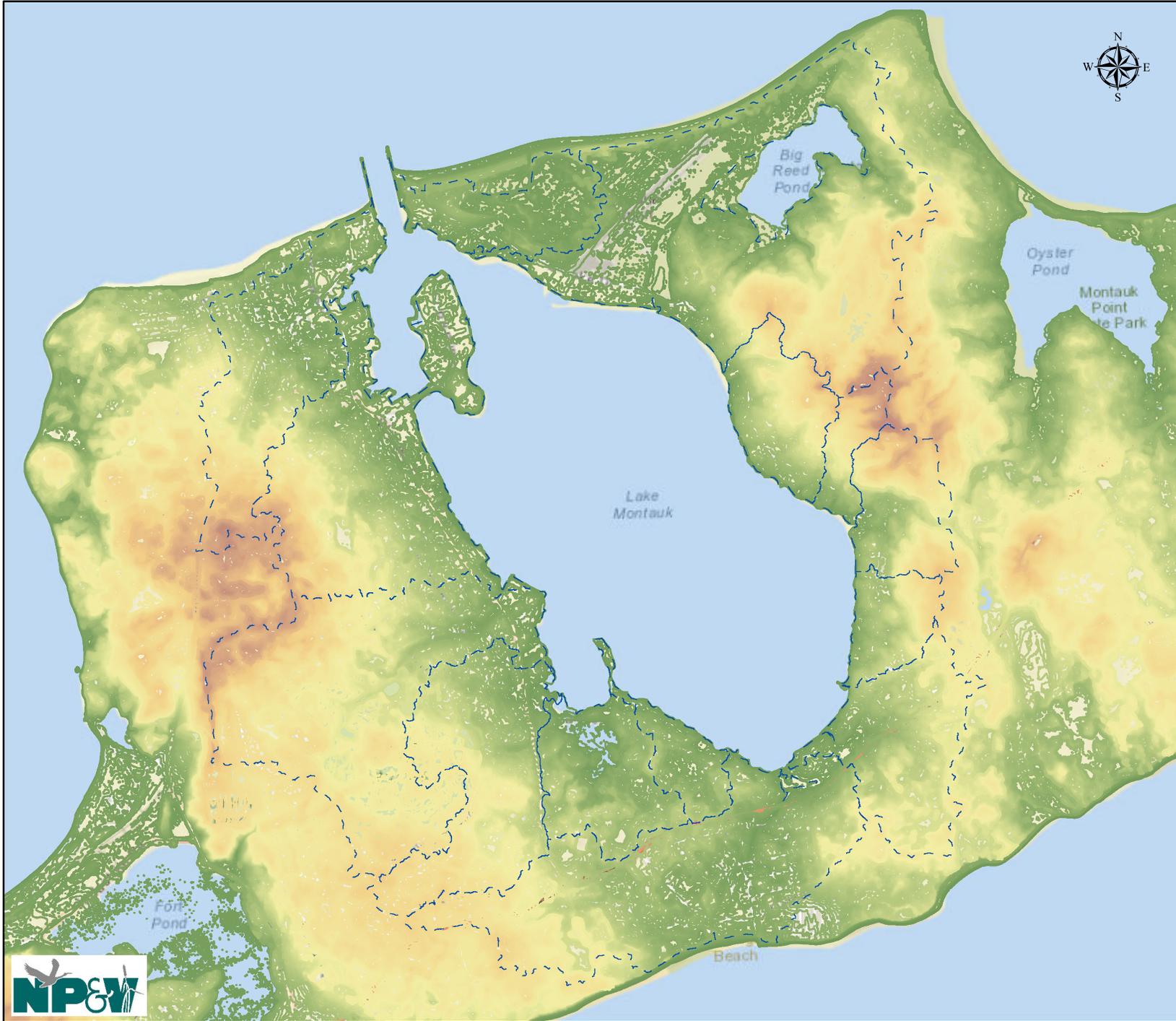
Subwatersheds

Source: ESRI WMS; NYSDOS; Suffolk
County GIS

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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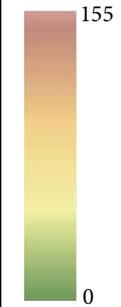
Lake Montauk Watershed
Management Plan

FIGURE 2
Topography

Legend

Subwatersheds

Elevation (feet asl)

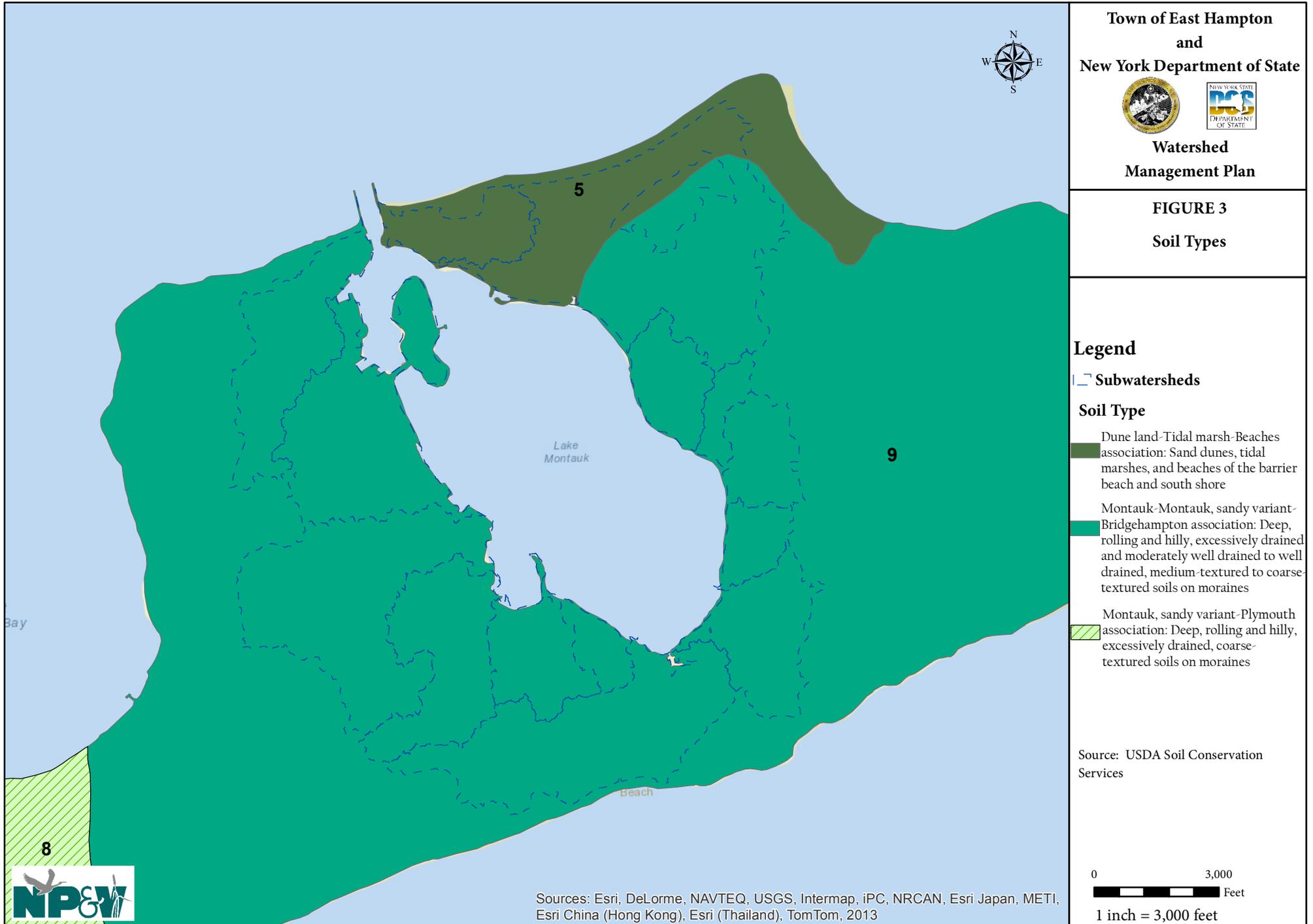


Source: ESRI WMS; Suffolk County
LiDAR, 2007



1 inch = 2,500 feet





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**Watershed
Management Plan**

**FIGURE 3
Soil Types**

Legend

Subwatersheds

Soil Type

- Dune land-Tidal marsh-Beaches association: Sand dunes, tidal marshes, and beaches of the barrier beach and south shore
- Montauk-Montauk, sandy variant-Bridgehampton association: Deep, rolling and hilly, excessively drained and moderately well drained to well drained, medium-textured to coarse-textured soils on moraines
- Montauk, sandy variant-Plymouth association: Deep, rolling and hilly, excessively drained, coarse-textured soils on moraines

Source: USDA Soil Conservation Services

0 3,000 Feet
1 inch = 3,000 feet

Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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Watershed
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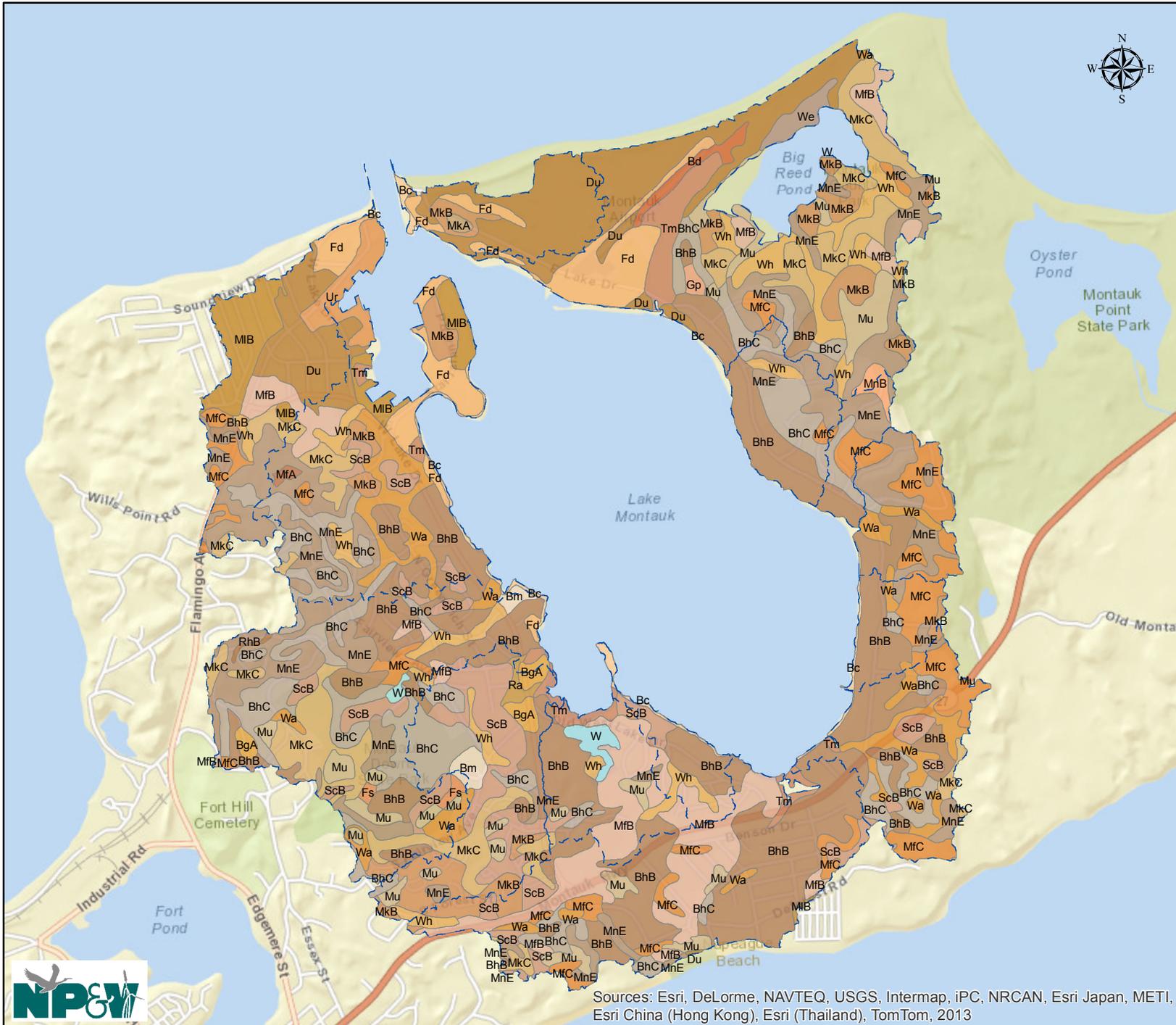
FIGURE 4
Soils Map

Legend

Soil Type	Gp	Mu
Bc	MfA	Ra
Bd	MfB	RhB
BgA	MfC	ScB
BhB	MkA	Tm
BhC	MkB	Ur
Bm	MkC	W
Du	MIB	Wa
Fd	MnB	We
Fs	MnE	Wh

Source: ESRI WMS; NYSDOS;
NRCS SSURGO Database

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013





Lake Montauk Watershed
Management Plan

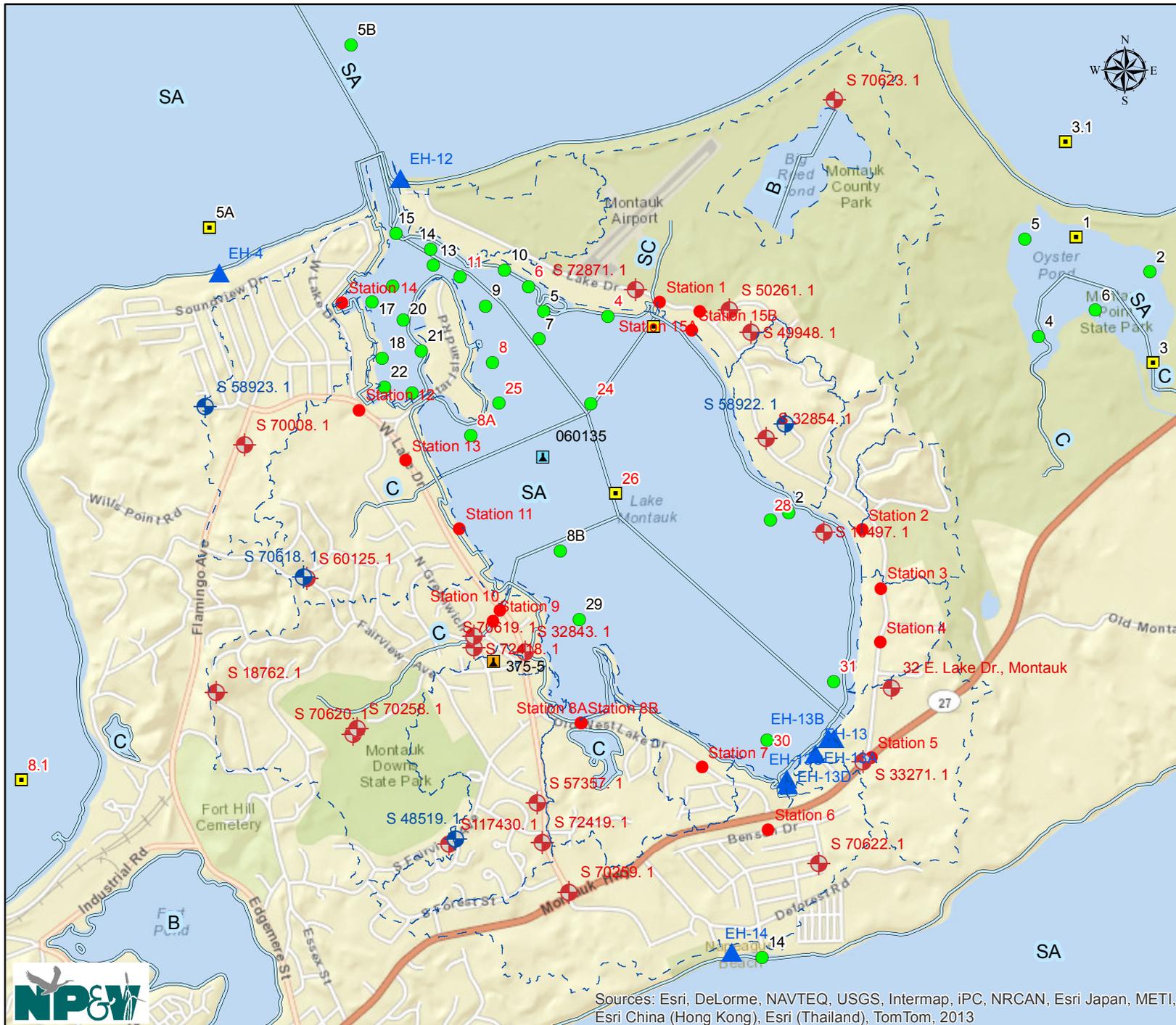
FIGURE 5
Water Quality Sampling
Stations & Classification

Legend

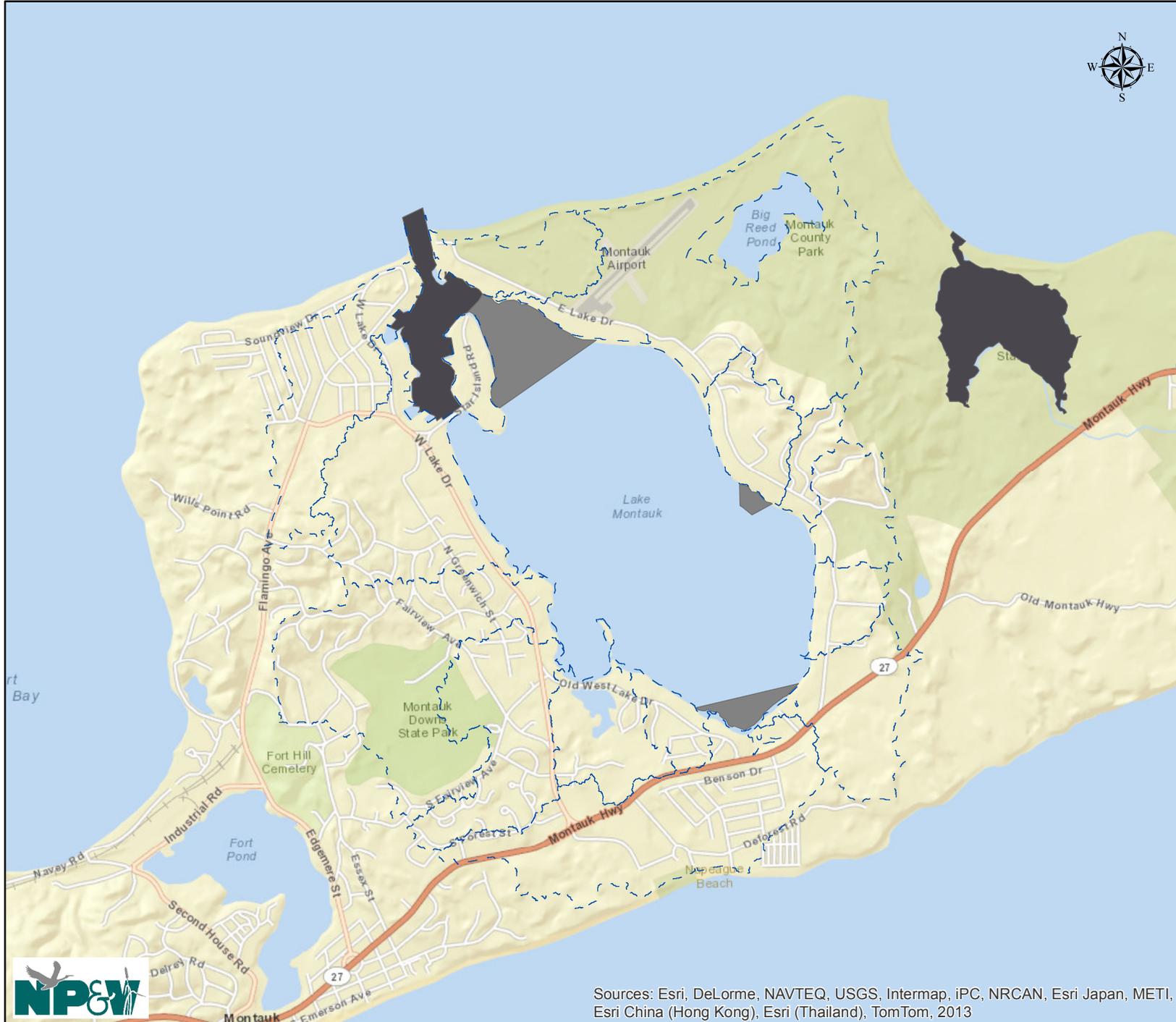
- Subwatersheds
- SCDHS Bathing
- Beach Sampling Station
- Active USGS Wells
- Inactive USGS Wells
- NYSDEC Shellfish
- Sampling Station
- NYSDEC Shellfish
- Sampling Station w/YSI
- CCE Sampling Station
- NYSDEC Water Classification

Source: Esri WMS; NYSDOS; Suffolk County GIS; NYSDEC; SCDHS; USGS

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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**Watershed
Management Plan**

FIGURE 6

Known Impairments

Legend

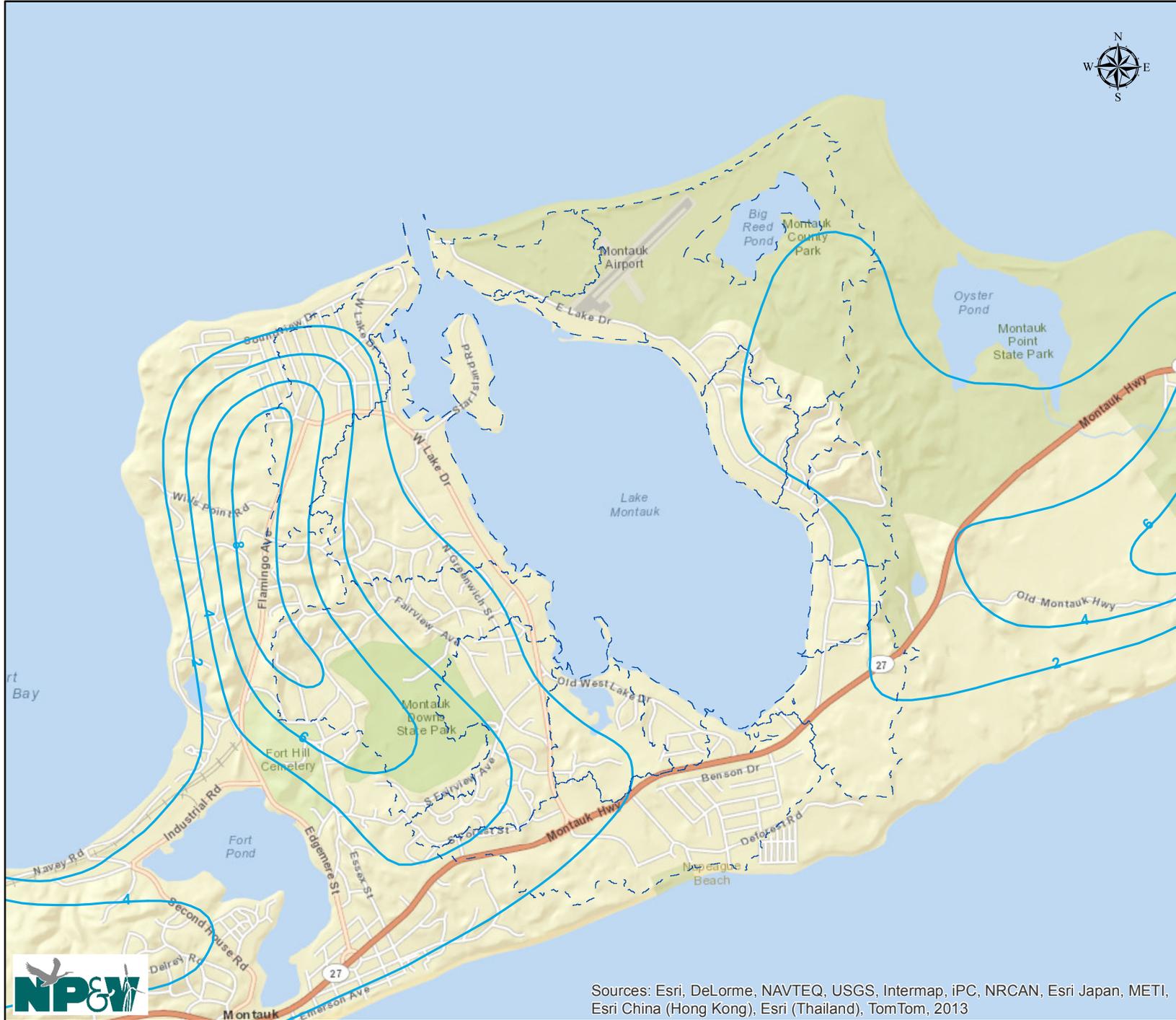
- Subwatersheds
- Seasonal
- Closed
- Holiday

Source: ESRI WMS; NYSDEC;
NYS 2012 303 (d) List

0 2,500
Feet
1 inch = 3,000 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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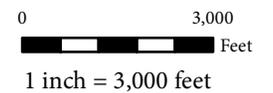
Lake Montauk Watershed
Management Plan

FIGURE 7
Water Table
Contour Map

Legend

-  Subwatersheds
-  Water Table Contour (feet asl)

Source: ESRI WMS; USGS



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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Lake Montauk Watershed
Management Plan

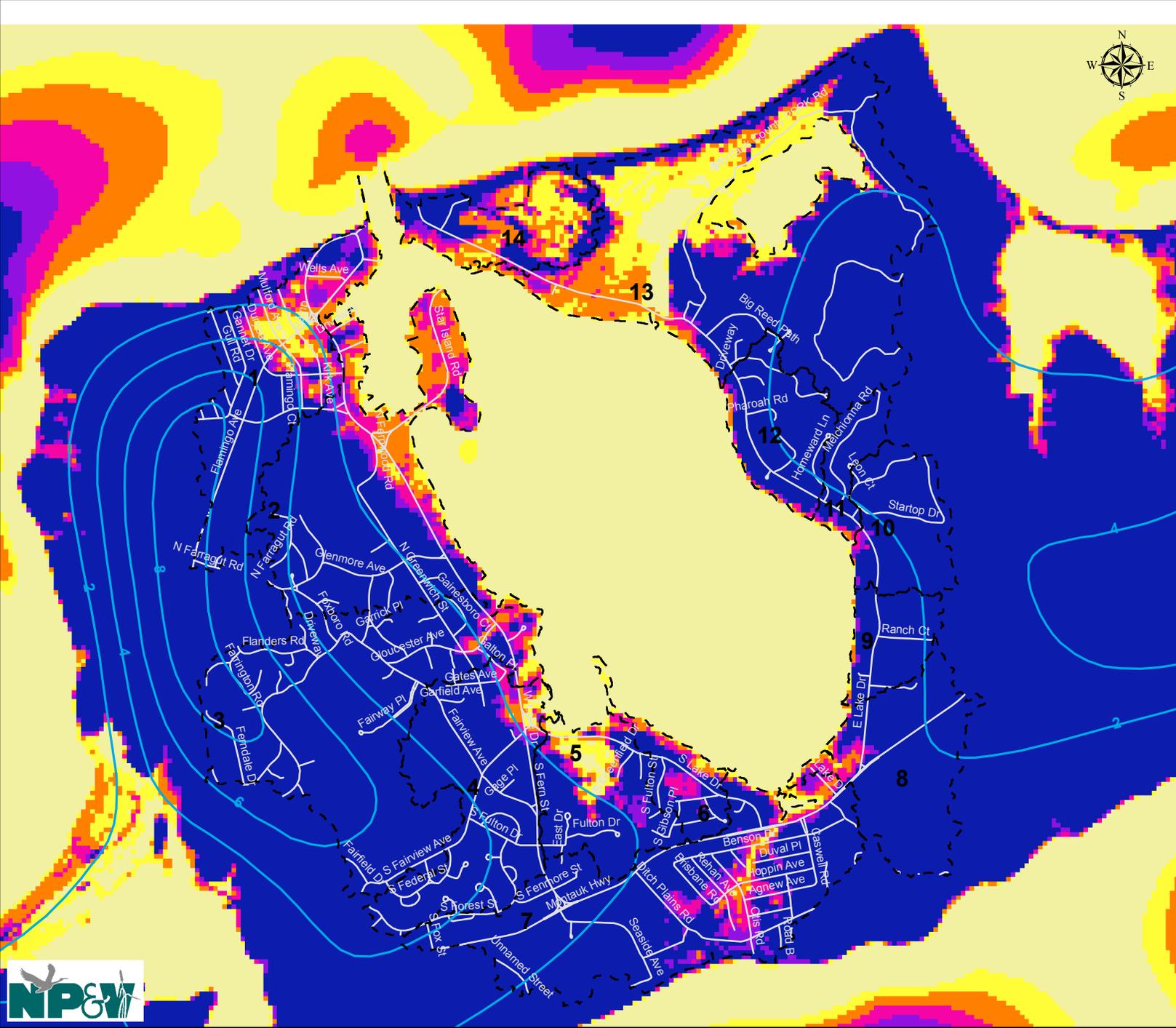
FIGURE 8
Depth to
Groundwater

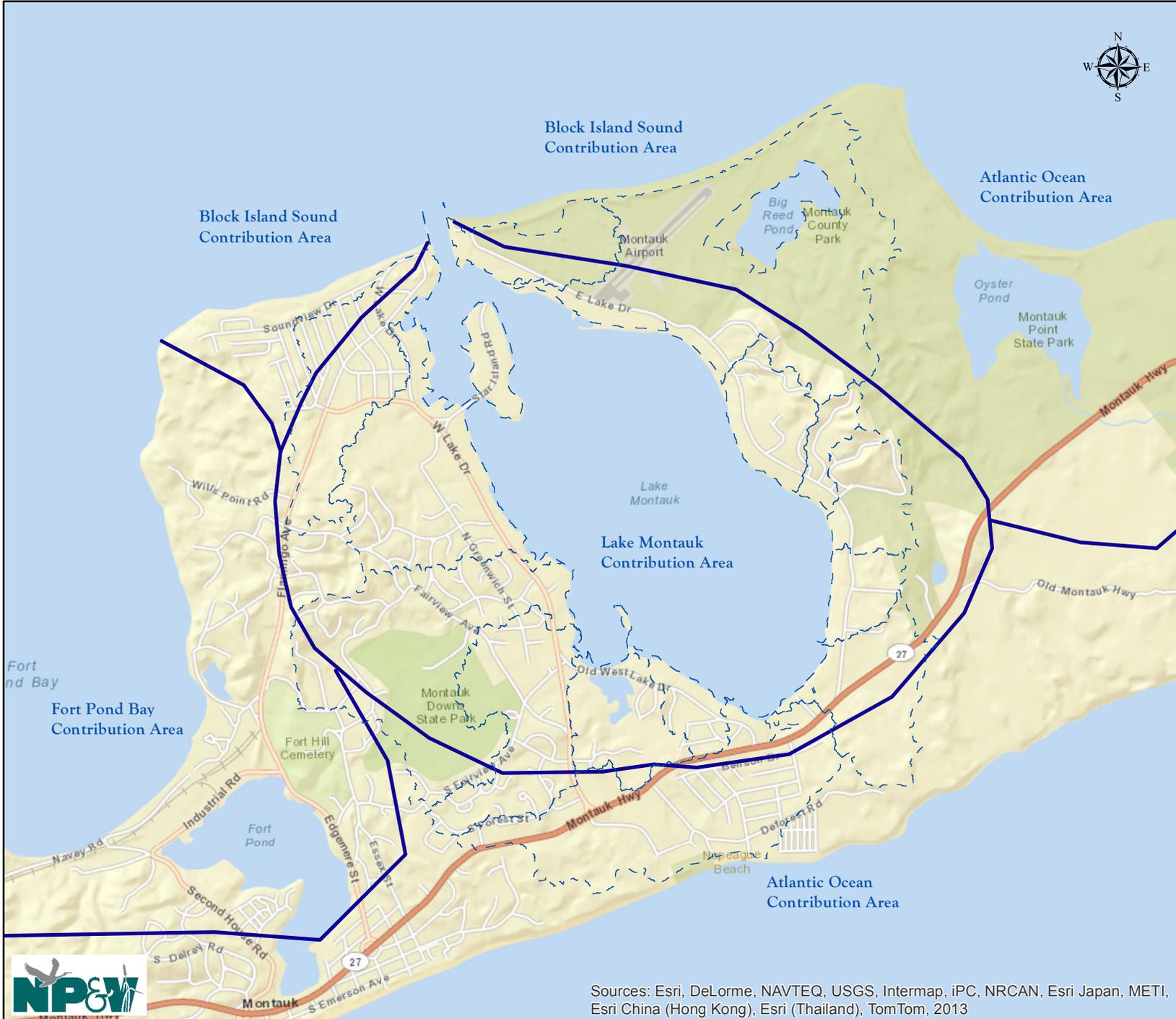
Legend

- Subwatersheds
 - Water Table Contour (feet asl)
 - Roads
- Depth to Groundwater (feet)
- 0-2
 - 2-4
 - 4-6
 - 6-8
 - 8-10
 - >10

Source: Suffolk County LiDAR,
2006; USGS

0 2,500
Feet
1 inch = 2,500 feet





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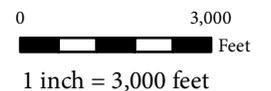
Watershed
Management Plan

FIGURE 9
Major Groundwater
Subwatersheds

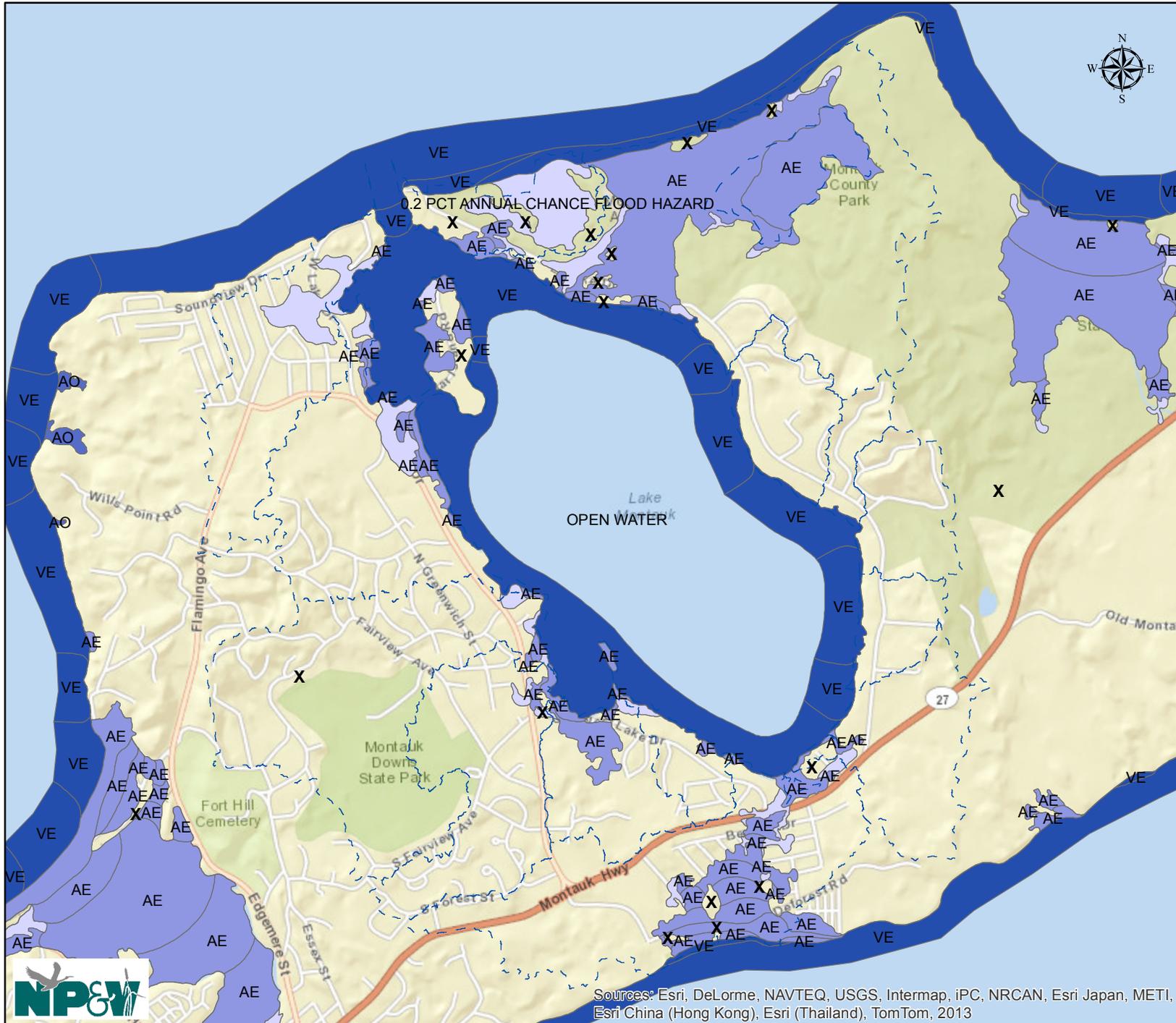
Legend

-  Subwatersheds
-  Groundwater Divide

Source: ESRI WMS; NYSDOS; NYSDEC



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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Watershed
Management Plan

FIGURE 10
FEMA Flood Map

Legend

- Subwatersheds
- FEMA Flood Zone
 - X - Outside of the 500 Year Flood Zone
 - 0.2% Annual Chance of Flood
 - AE - 100 Year Flood Zone, Base Flood Elevation Determined
 - AO - Subject to 100 Year Shallow Flooding
 - VE - 100 Year Flood Zone, Velocity Hazard

Source: ESRI WMS; FEMA, 2010

0 2,500
Feet
1 inch = 2,500 feet

Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013





FIGURE 11
Sea, Lake, and Overland Surge
From Hurricanes (SLOSH) Map

Legend

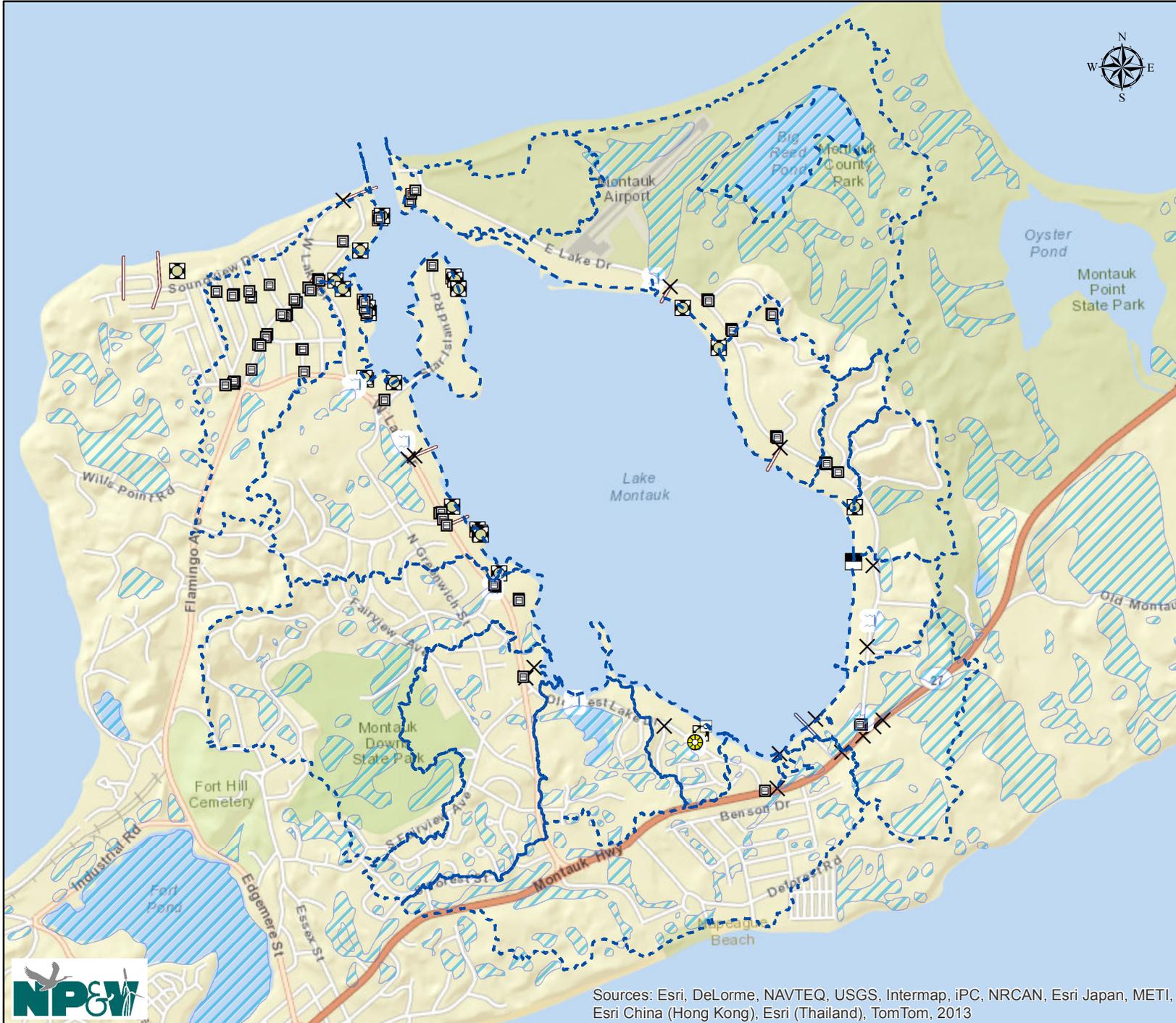
Subwatersheds

SLOSH ZONE

- 1 - Vulnerable from Category 1 to 5 Hurricanes
- 2 - Vulnerable from Category 2 to 5 Hurricanes
- 3 - Vulnerable from Category 3 to 5 Hurricanes
- 4 - Vulnerable from Category 4 to 5 Hurricanes



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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Watershed
Management Plan

FIGURE 12
Stormwater Infrastructure

Legend

- Subwatersheds
- NYSDEC Freshwater Wetlands
- Stormwater Infrastructure
 - Unconfirmed
 - Catch Basin
 - Culvert
 - Ditch
 - Manhole
 - Pipe
 - Seep
 - Swale
 - Stormdrain Conveyance
 - Road Ends/Direct Overland Flow

Source: ESRI WMS; NYSDOS; Suffolk County GIS; East Hampton GIS; Peconic Estuary Program

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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Lake Montauk Watershed
Management Plan

FIGURE 13

Wetlands

Legend

- Subwatersheds
- DS
- FC
- FM
- HL
- HM
- IM
- LZ
- SM
- NYSDEC Freshwater Wetlands
- Hardened Shoreline

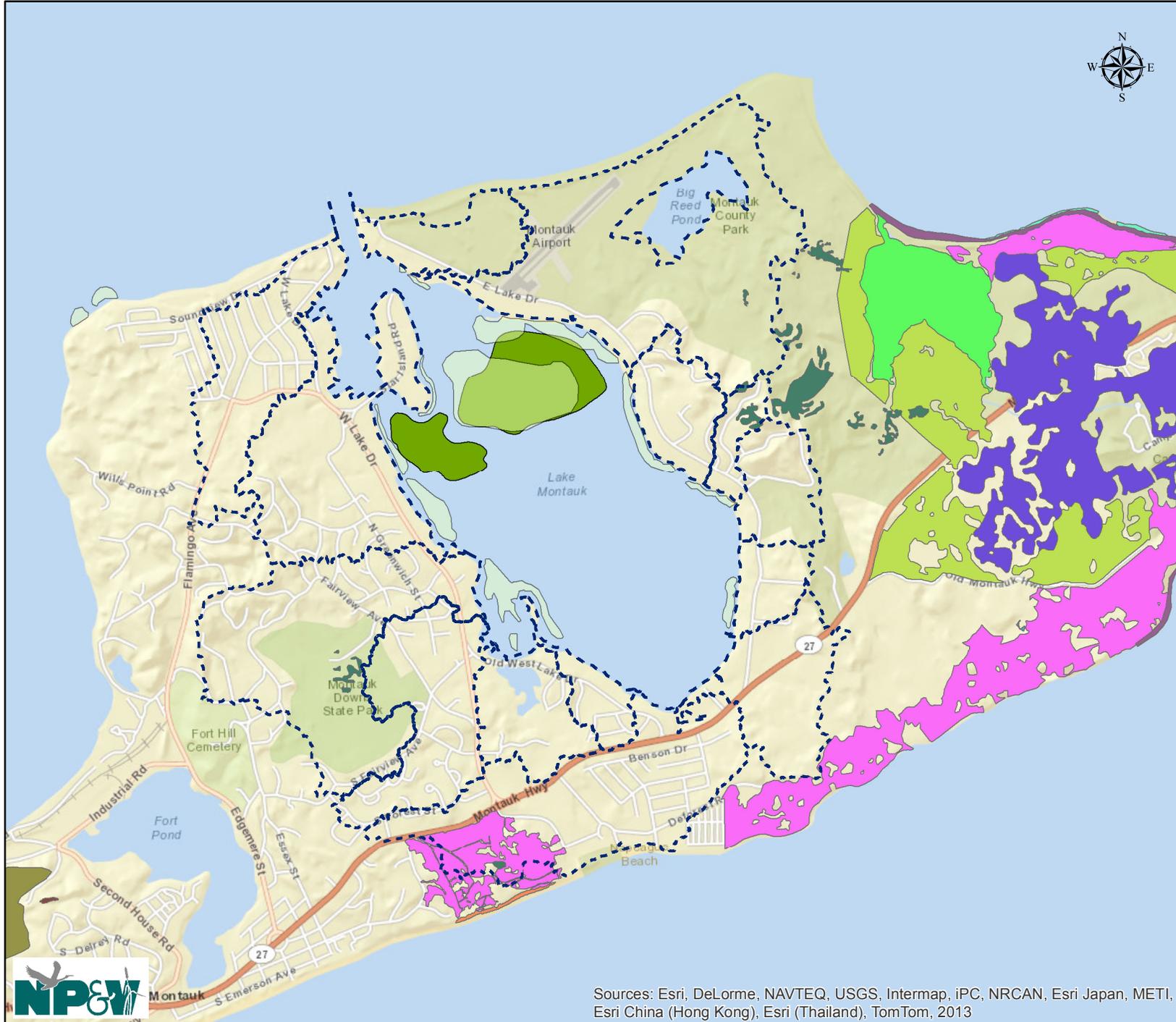
Source: ESRI WMS; NYSDEC

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013





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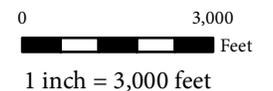
**Watershed
Management Plan**

**FIGURE 14
Significant Natural
Habitats**

Legend

- Subwatersheds
- Submerged Aquatic Vegetation (2000)
- 1994 Eelgrass Beds
- NYNHP Significant Natural Communities
 - Coastal oak-heath forest
 - Coastal oak-holly forest
 - Coastal plain pond
 - Coastal plain poor fen
 - Coastal salt pond
 - Marine rocky intertidal
 - Maritime beach
 - Maritime bluff
 - Maritime grassland
 - Maritime heathland
 - Maritime post oak forest
 - Maritime shrubland
 - Successional maritime forest

Source: ESRI WMS; NYSDOS; NYSDEC; PEP; USF&WS



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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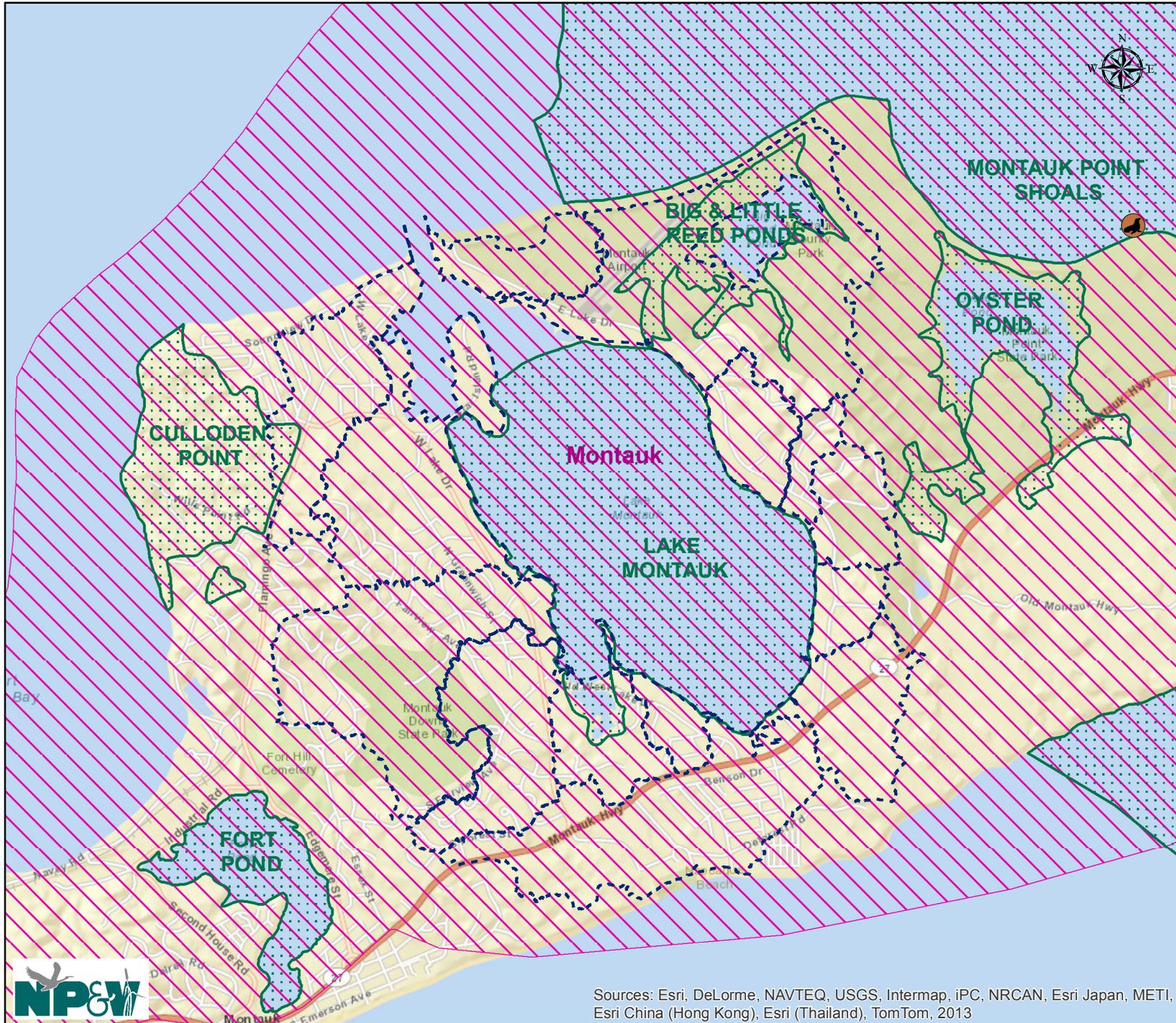


Watershed
Management Plan

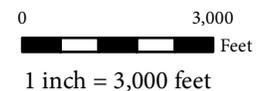
FIGURE 15
Resource Management
Areas

Legend

-  Subwatersheds
-  Wintering Harbour
Seal Sites
-  NYS Significant Fish
& Wildlife Habitat
-  PEP Critical Natural
Resource Areas



Source: ESRI WMS; NYSDOS; NYSDEC;
PEP; USF&WS



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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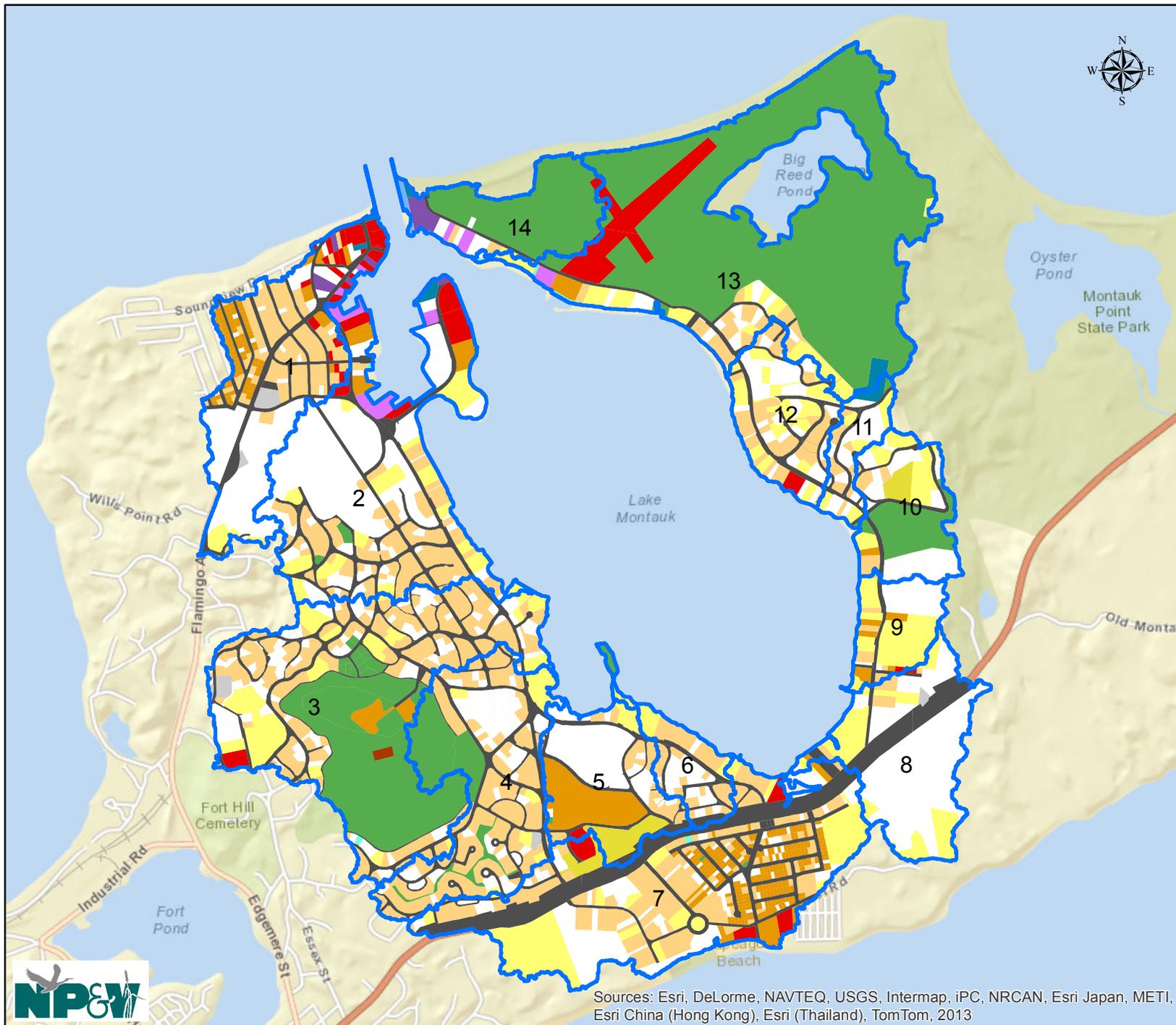
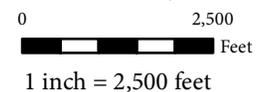
Watershed
Management Plan

FIGURE 16
Land Use Map

Legend

- Subwatersheds
- Land Use**
- Agricultural (0.86%)
- Commercial (3.18%)
- High Density Residential (4.43%)
- Industrial (0.36%)
- Institutional (0.39%)
- Landfills and Dumps (0.06%)
- Low Density Residential (10.94%)
- Marina (0.54%)
- Medium Density Residential (18.61%)
- Recreation & Open Space (24.94%)
- Surface Waters (0.12%)
- Transportation (12.81%)
- Underwater Vacant
- Lots (0.30%)
- Utilities (0.34%)
- Vacant (22.08%)

Source: ESRI WMS; Suffolk County
Real Property



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



Land Cover Category	Area (Acres)	Percent
Open Water	13	0.47%
Developed, Open Space	540	19.67%
Developed, Low Intensity	413	15.05%
Developed Medium Intensity	358	13.04%
Developed, High Intensity	17	0.62%
Barren Land	127	4.63%
Deciduous Forest	530	19.31%
Evergreen Forest	2	0.07%
Mixed Forest	145	5.28%
Shrub/Scrub	47	1.71%
Grassland/Herbaceous	237	8.63%
Pasture/Hay	35	1.28%
Woody Wetlands	97	3.53%
Emergent Herbaceous Wetlands	197	7.18%
TOTAL	2,745	100.00%



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Watershed
Management Plan

FIGURE 17
Land Cover

Legend

— Subwatersheds

NLCD Land Cover Classification Legend

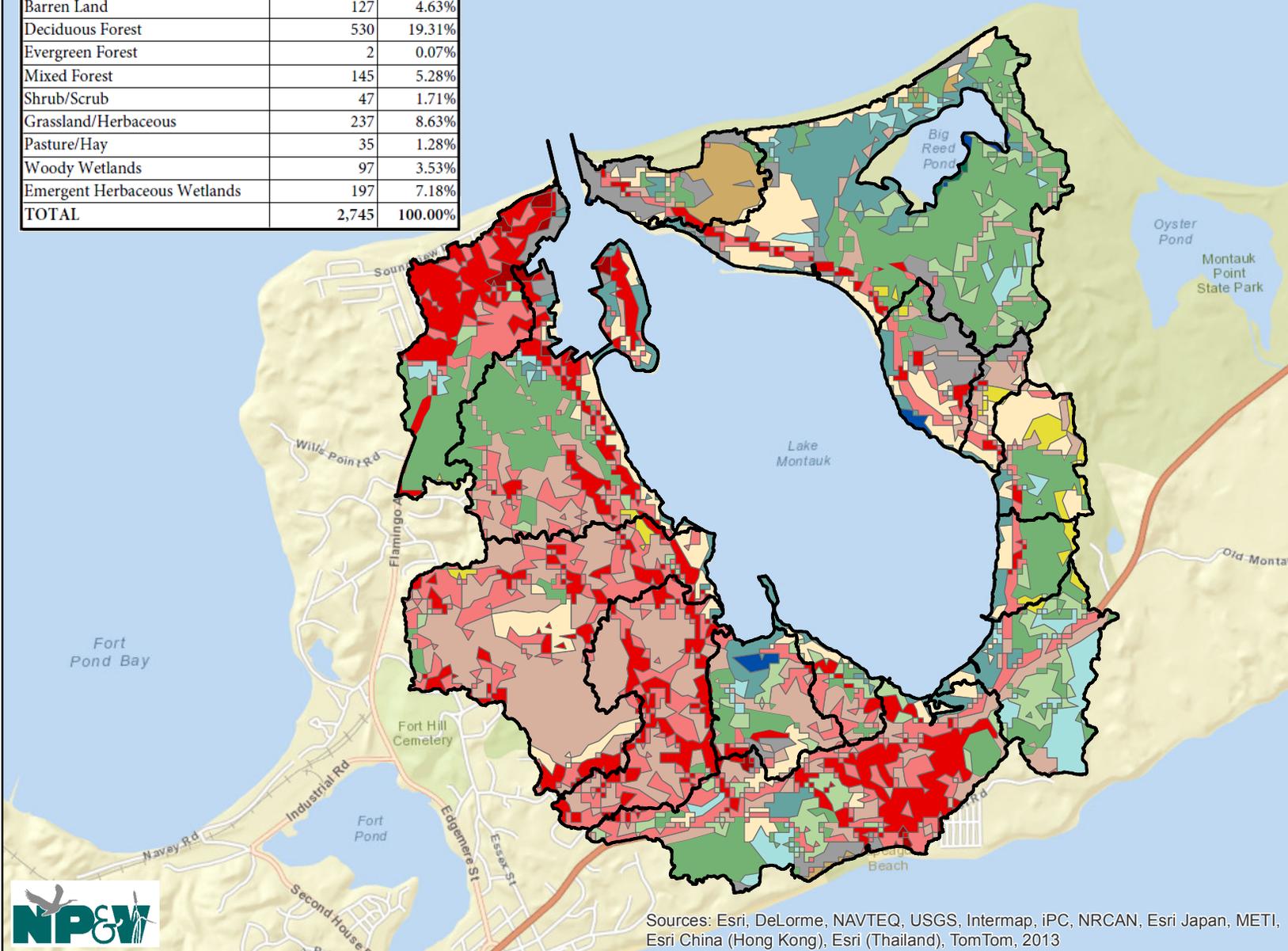
- 11 Open Water
- 12 Perennial Ice/ Snow
- 21 Developed, Open Space
- 22 Developed, Low Intensity
- 23 Developed, Medium Intensity
- 24 Developed, High Intensity
- 31 Barren Land (Rock/Sand/Clay)
- 41 Deciduous Forest
- 42 Evergreen Forest
- 43 Mixed Forest
- 51 Dwarf Scrub*
- 52 Shrub/Scrub
- 71 Grassland/Herbaceous
- 72 Sedge/Herbaceous*
- 73 Lichens*
- 74 Moss*
- 81 Pasture/Hay
- 82 Cultivated Crops
- 90 Woody Wetlands
- 95 Emergent Herbaceous Wetlands

* Alaska only

Source: USGS National Land
Cover Database, 2006

0 3,000
Feet

1 inch = 3,000 feet

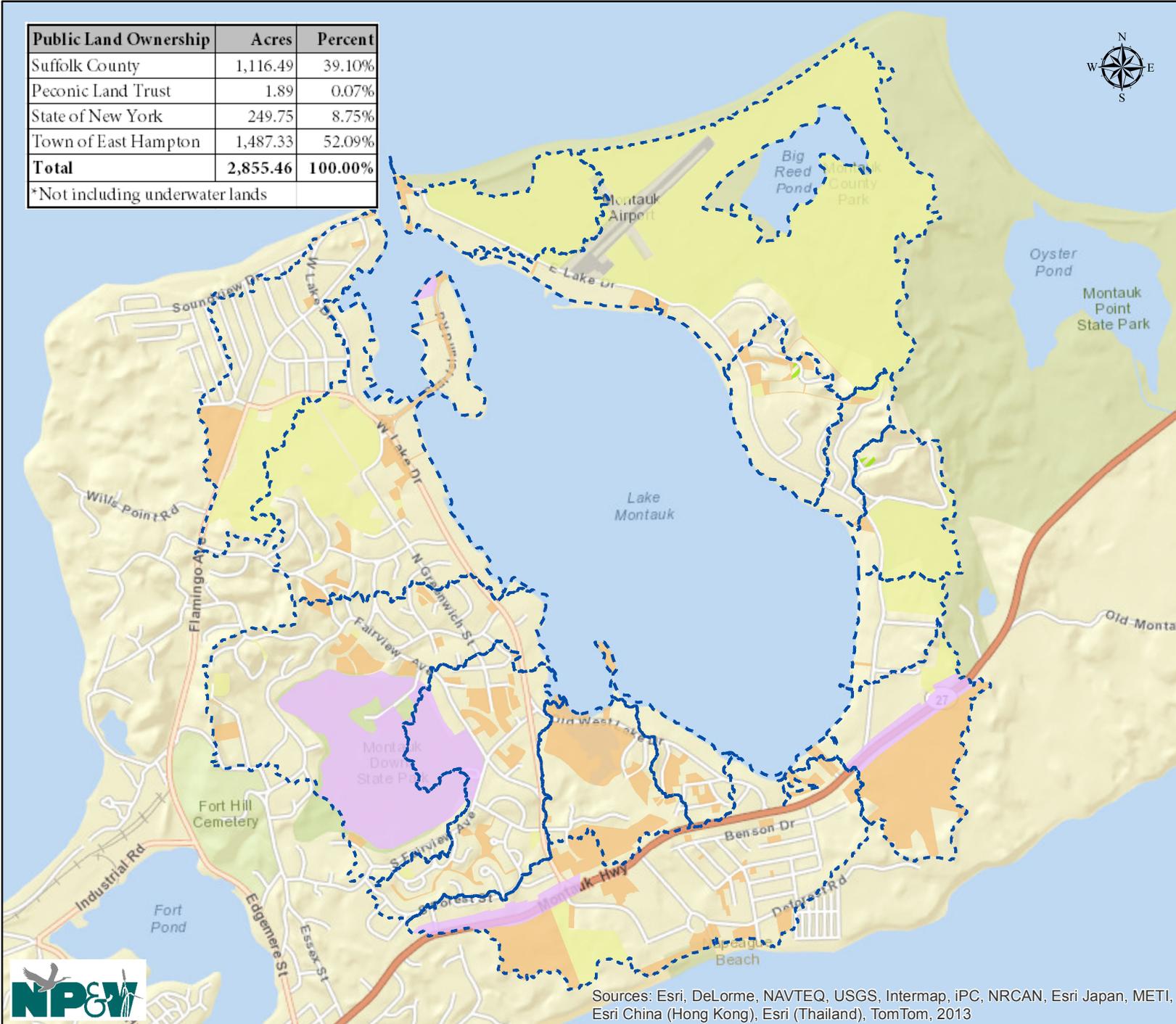


Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



Public Land Ownership	Acres	Percent
Suffolk County	1,116.49	39.10%
Peconic Land Trust	1.89	0.07%
State of New York	249.75	8.75%
Town of East Hampton	1,487.33	52.09%
Total	2,855.46	100.00%

*Not including underwater lands



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**Watershed
Management Plan**

**FIGURE 18
Publicly Owned Lands**

Legend

- Subwatersheds
- Publicly Owned Lands**
- Ownership**
- Suffolk County
- Peconic Land Trust
- State of New York
- Town of East Hampton

Source: ESRI WMS; Suffolk County Real Property



1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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Watershed
Management Plan

FIGURE 19
Zoning

Legend

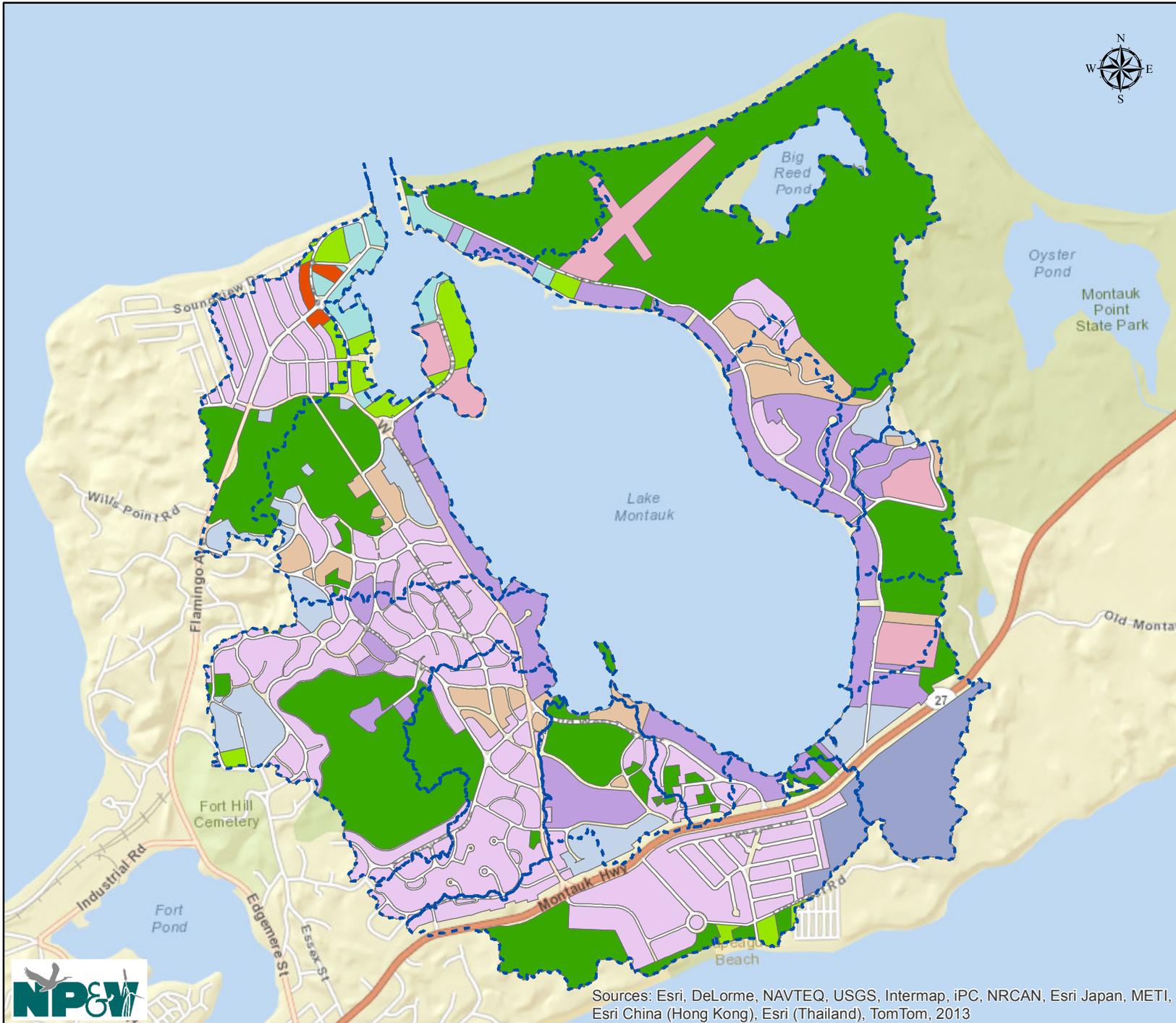
Subwatersheds

Zoning

- A
- A2
- A3
- A5
- A10
- B
- CB
- PC
- RS
- WF

Source: ESRI WMS; Suffolk
County Real Property

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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**Watershed
Management Plan**

**FIGURE 20
Population**

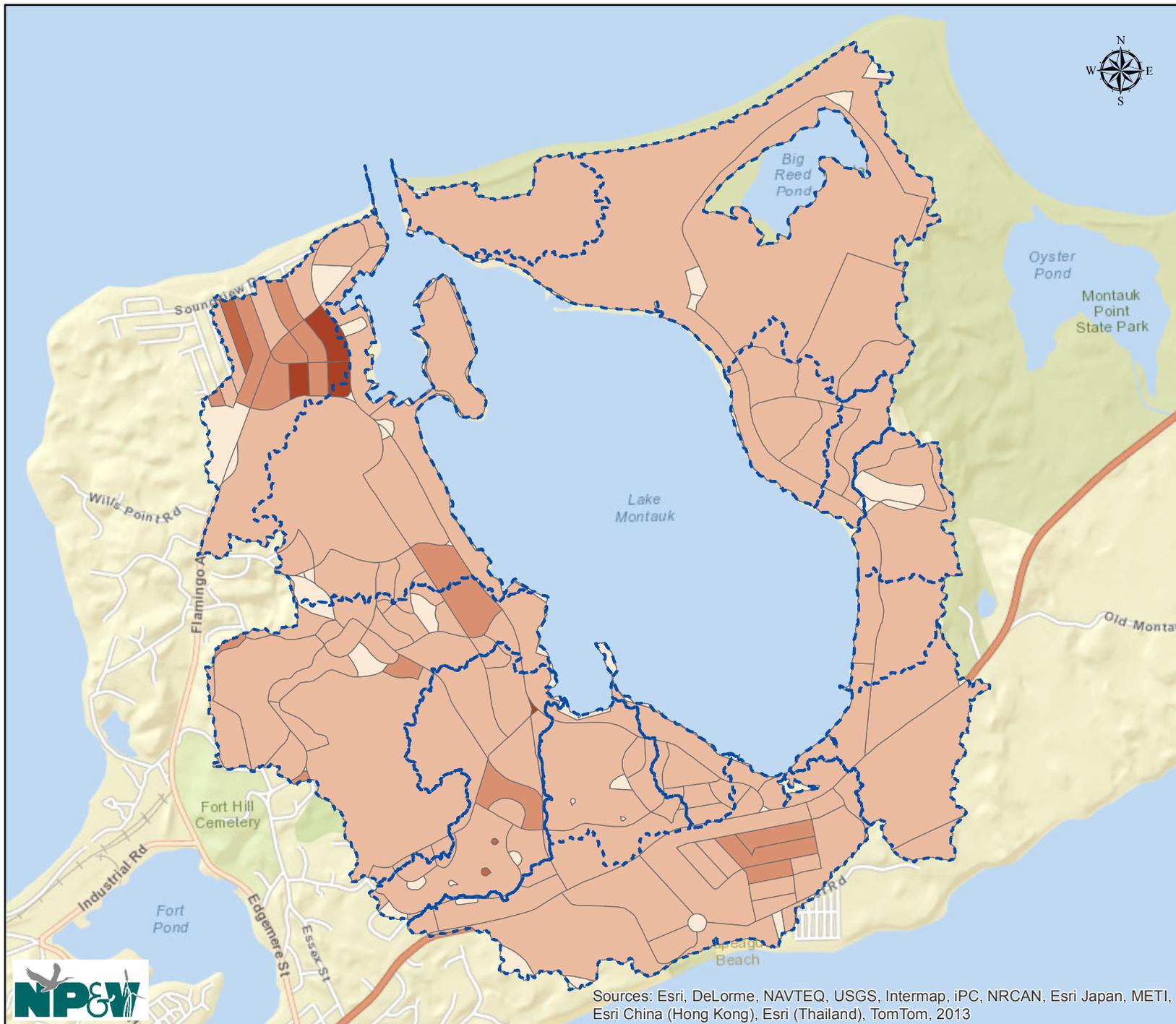
Legend

- Subwatersheds
- 2010 Census Blocks
- Population Density (an Index)
 - 0.000000
 - 0.000001 - 2.000000
 - 2.000001 - 4.000000
 - 4.000001 - 6.000000
 - 6.000001 - 16.200000

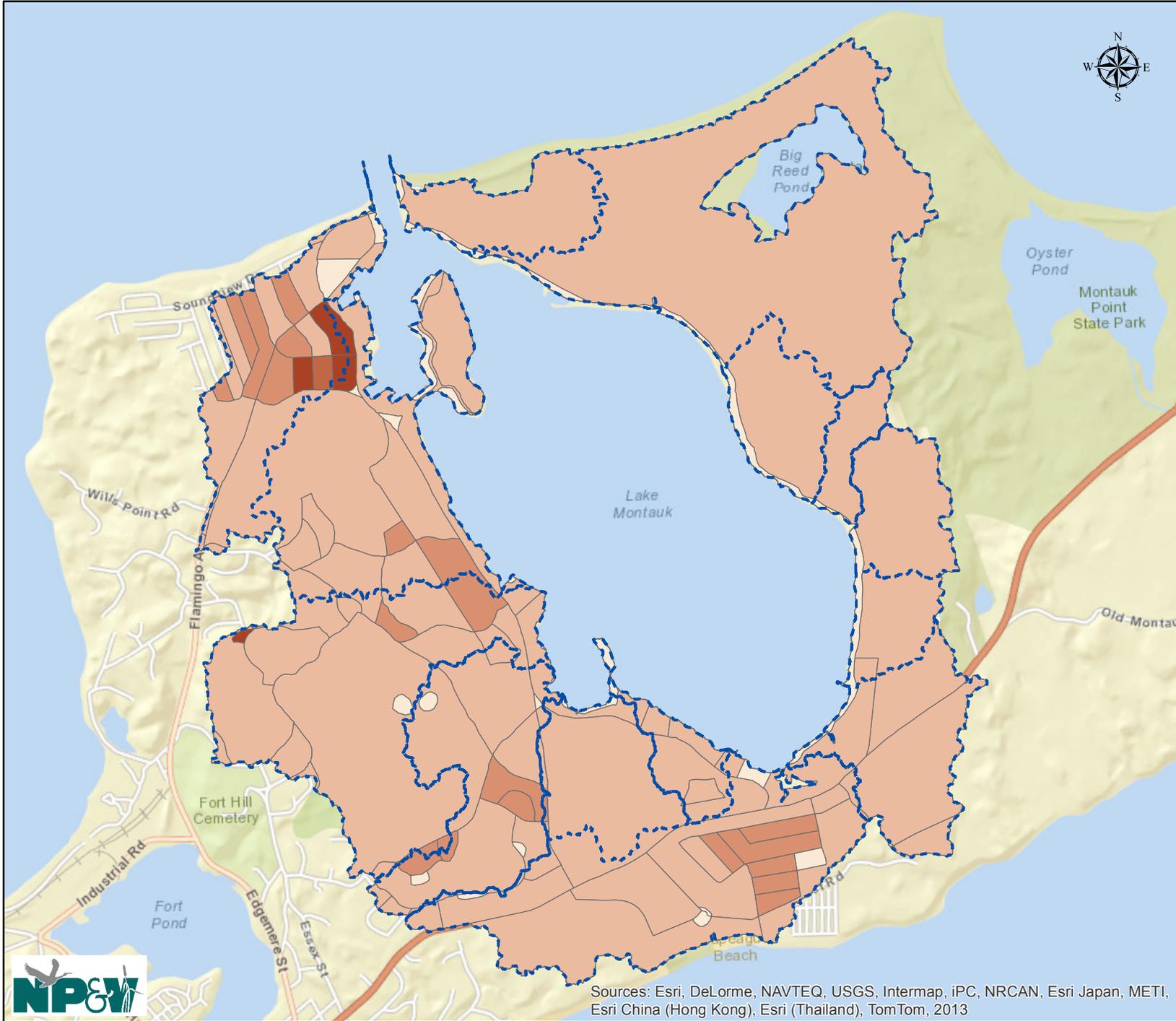
Census Sum
total 2010: 1,935
total 2000: 2,276
total 1990: 315

Source: ESRI WMS; NYSDOS;
American Fact Finder;
Suffolk County GIS

0 2,500
 Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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**Watershed
Management Plan**

**FIGURE 20a
Population in 2000**

Legend

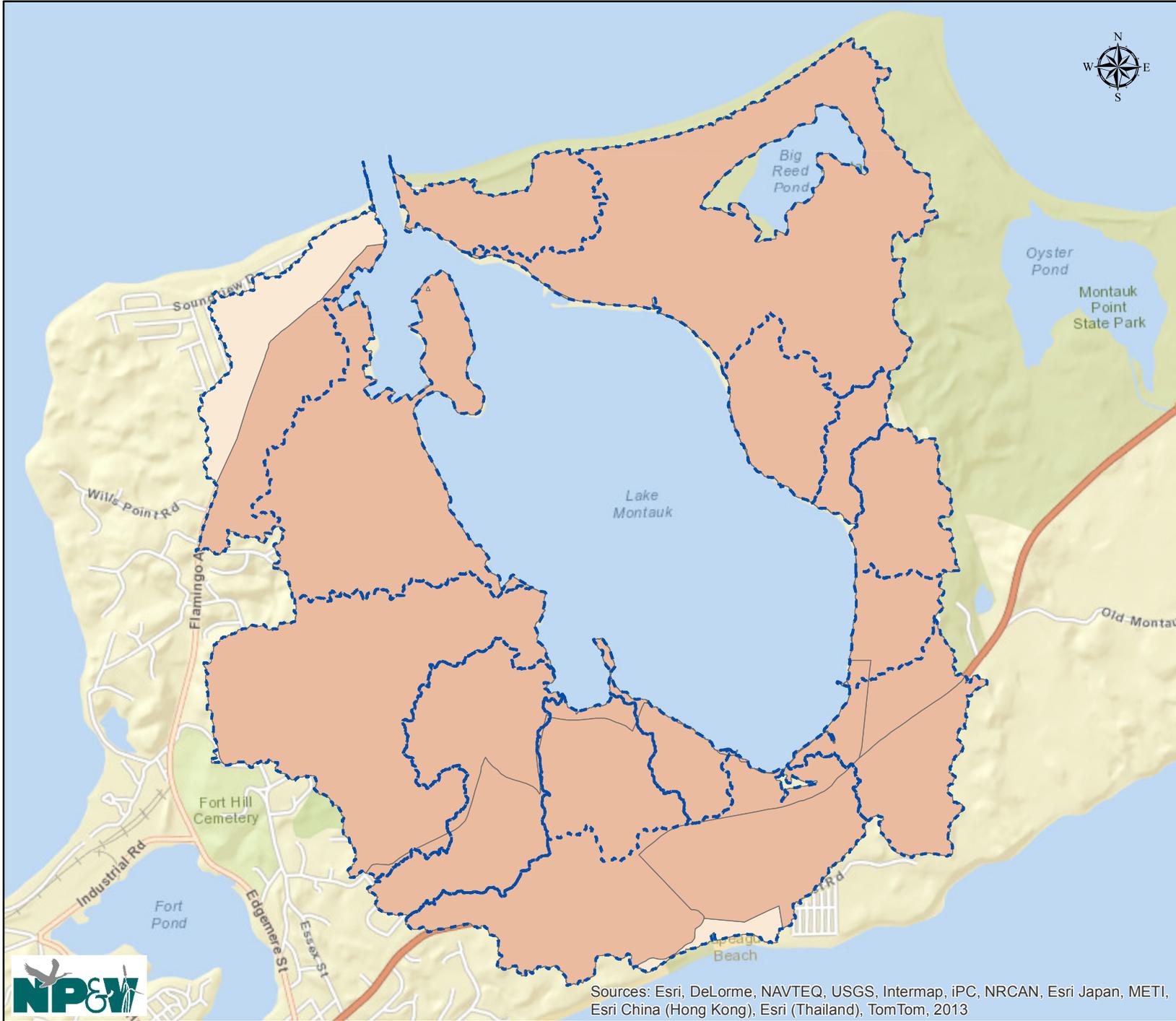
- Subwatersheds
- 2000 Census Blocks
- Population Density (an Index)
 - 0.000000
 - 0.000001 - 2.000000
 - 2.000001 - 4.000000
 - 4.000001 - 6.000000
 - 6.000001 - 16.200000

Source: ESRI WMS; NYSDOS;
American Fact Finder;
Suffolk County GIS

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013



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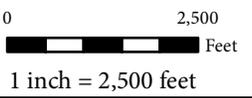
**Watershed
Management Plan**

**FIGURE 20b
Population in 1990**

Legend

- Subwatersheds
- 1990 Census Block Groups
- Population Density (an Index)
- 0.000000
- 0.000001 - 2.000000
- 2.000001 - 4.000000
- 4.000001 - 6.000000
- 6.000001 - 16.200000

Source: ESRI WMS; NYSDOS;
American Fact Finder;
Suffolk County GIS



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, IPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

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Lake Montauk Watershed
Management Plan

FIGURE 21
Pathogen Load
by Subwatershed

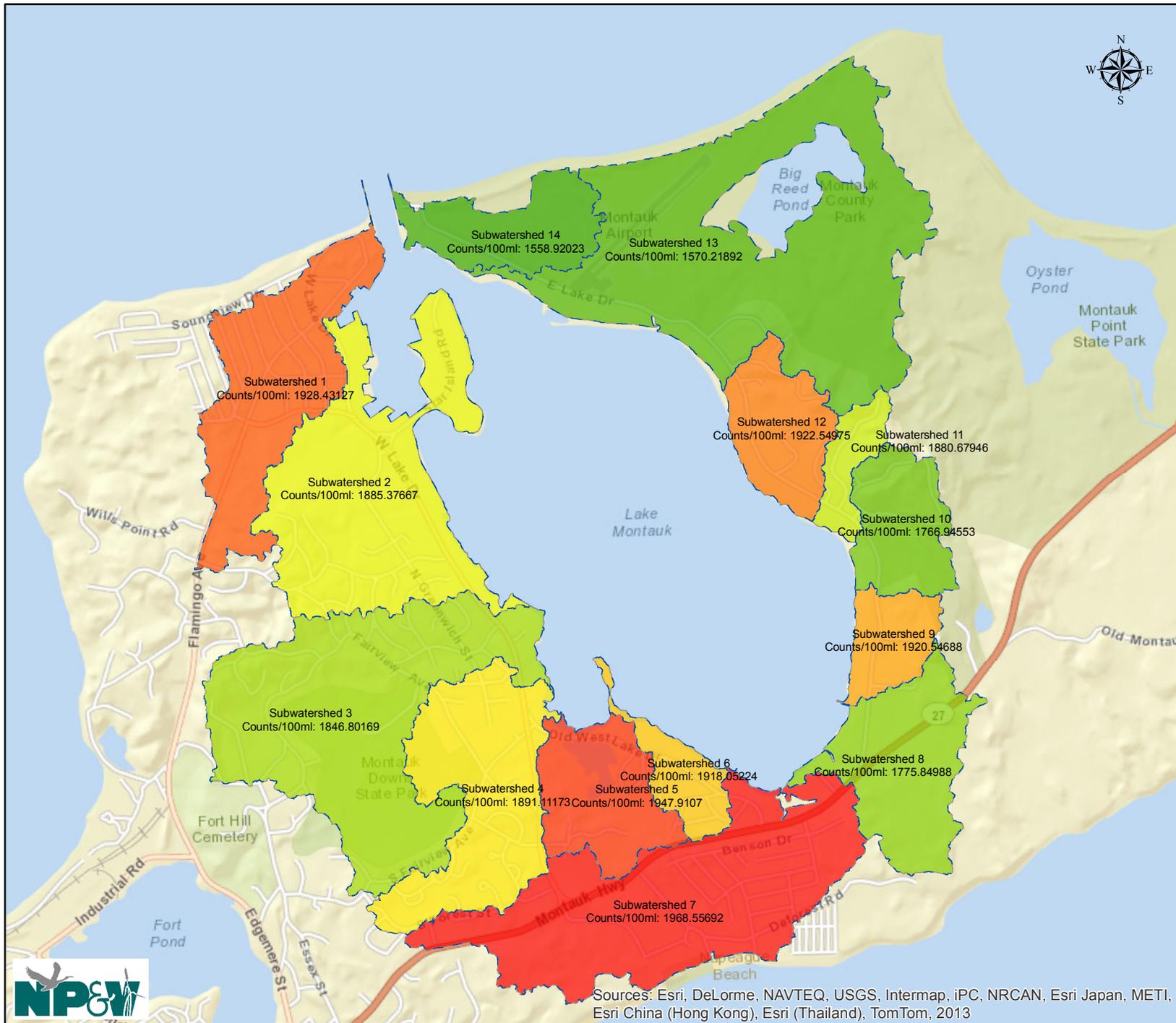
Legend

Subwatersheds
Pathogens (counts/100ml)

- 1558.92023
- 1570.21892
- 1766.94553
- 1775.84988
- 1846.80169
- 1880.67946
- 1885.37667
- 1891.11173
- 1918.05224
- 1920.54688
- 1922.54975
- 1928.43127
- 1947.9107
- 1968.55692

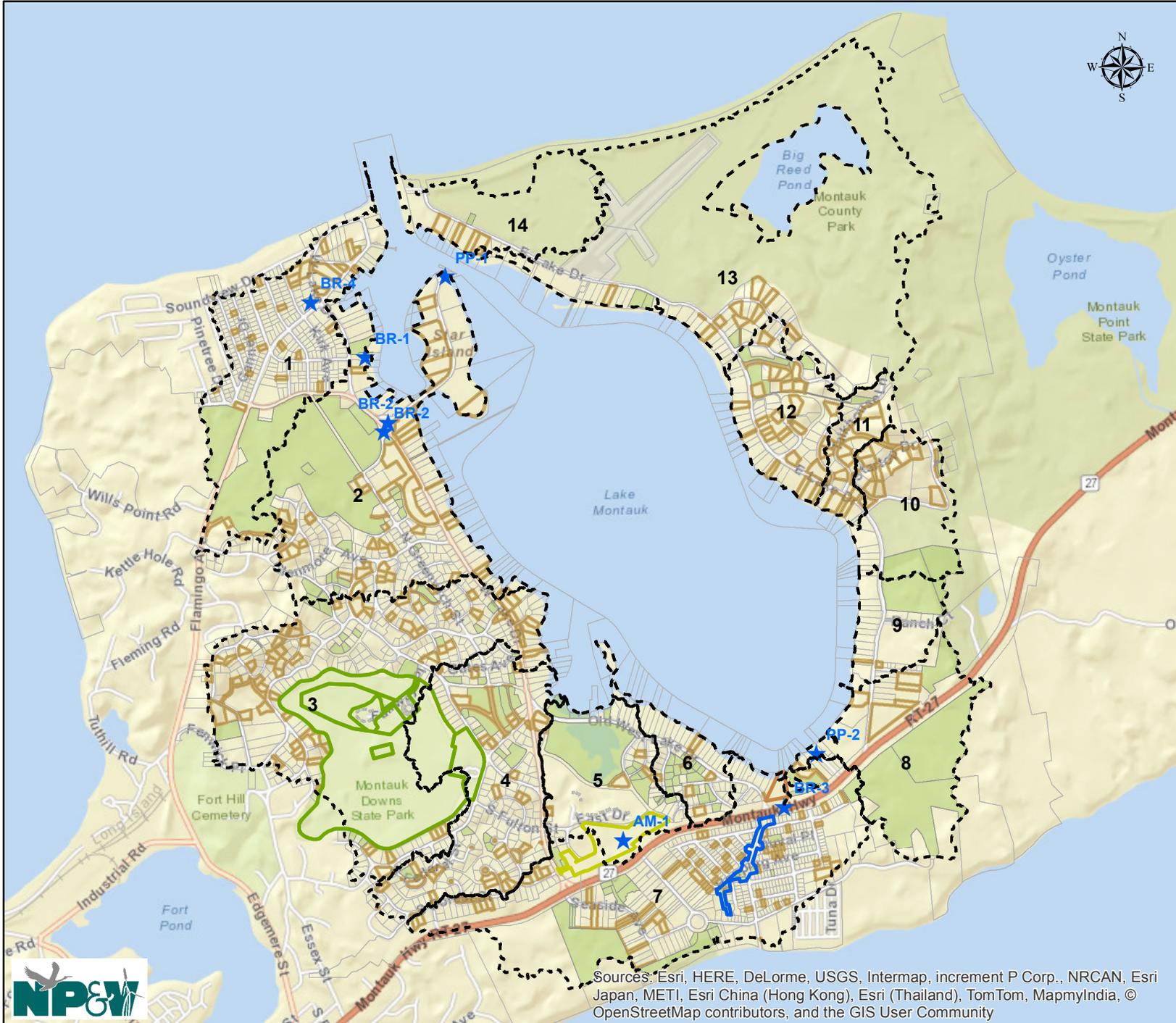
Source: Suffolk County GIS,
USEPA BASINS Version 4.1

0 2,500
Feet
1 inch = 2,500 feet



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013





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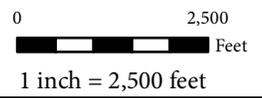
**Lake Montauk Watershed
Management Plan**

**FIGURE 22
Proposed WMP Site
Specific Recommendations**

Legend

- Subwatersheds
- Proposed Stormwater Improvement Projects
- Management Parcels**
- Agricultural Stormwater Management
- Golf Course Stormwater Management
- Potential Acquisition
- Wetland Restoration
- Vacant Land (Publicly Owned)
- Parcels

Source: ESRI WMS; NYSDOS; Suffolk County GIS



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community