




Onterra LLC
 Lake Management Planning
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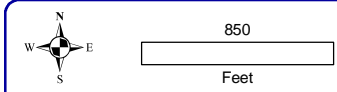
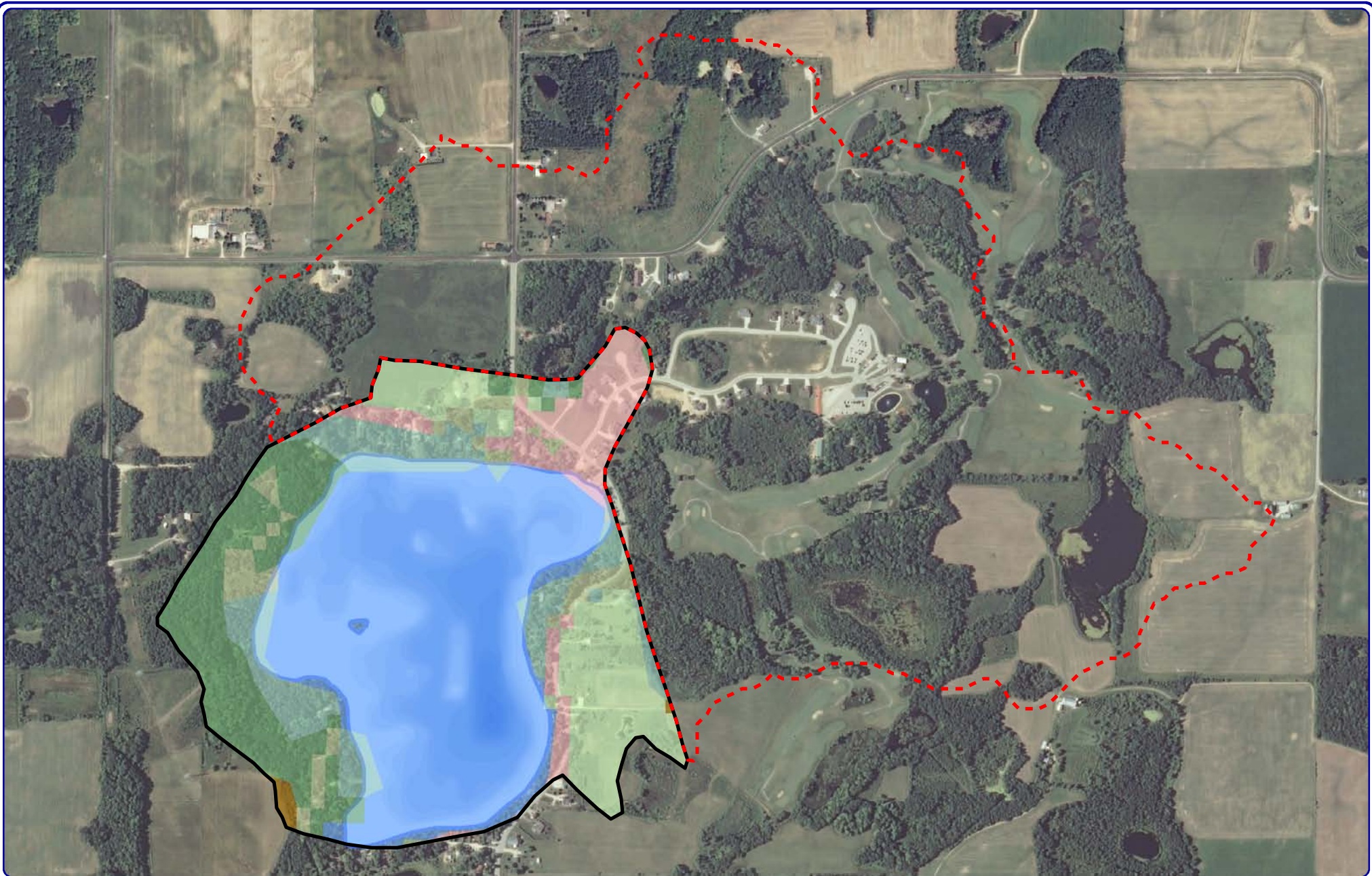
Sources:
 Roads and Hydro: WDNR
 Map Date: January 22, 2013
 Filename: Map1_PigeonLake_Location.mxd



Legend

-  Pigeon Lake ~86 Acres
WDNR Definition
-  Public Access
-  Point-Intercept Location











Map 1
 Pigeon Lake
 Manitowoc County
**Project Location &
 Lake Boundaries**



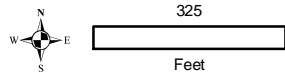
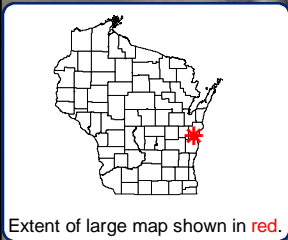
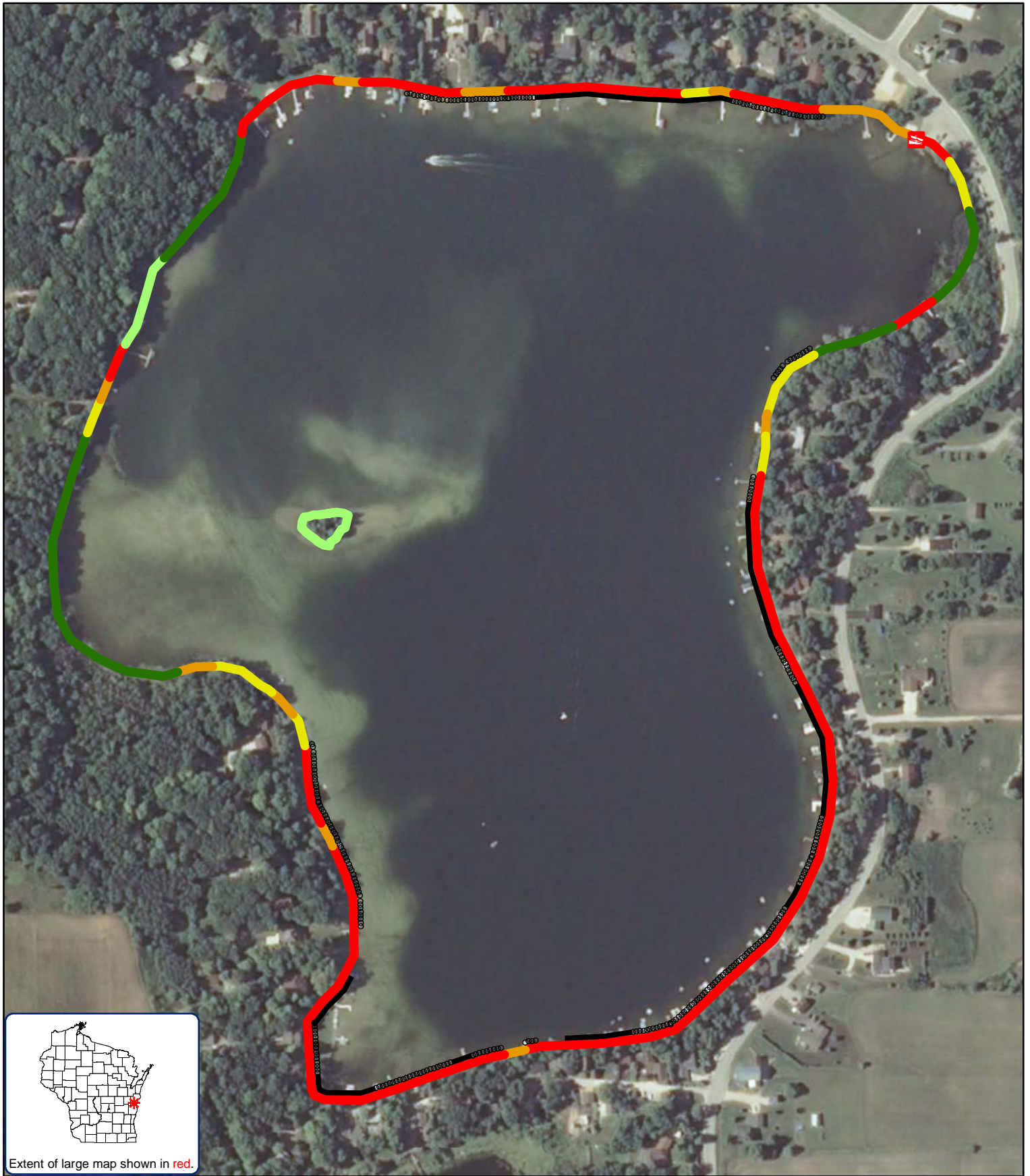
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Sources:
 Hydro: WDNR
 Orthophotography: NAIP, 2008
 Watershed: WDNR & Onterra
 Land Cover: NLCD 2006
Map date: March 17, 2014
 Filename: Map2_Pigeon_Watershed.mxd



- Legend**
-  Forest
 -  Wetland
 -  Direct Watershed Boundary
 -  Forested Wetlands
 -  Row Crop Agriculture
 -  East Sub-Basin Watershed Boundary
 -  Pasture/Grass
 -  Rural Residential
 -  Rural Open Space
 -  Open Water

Map 2
Pigeon Lake
 Manitowoc County, Wisconsin
Watershed and
Land Cover Types



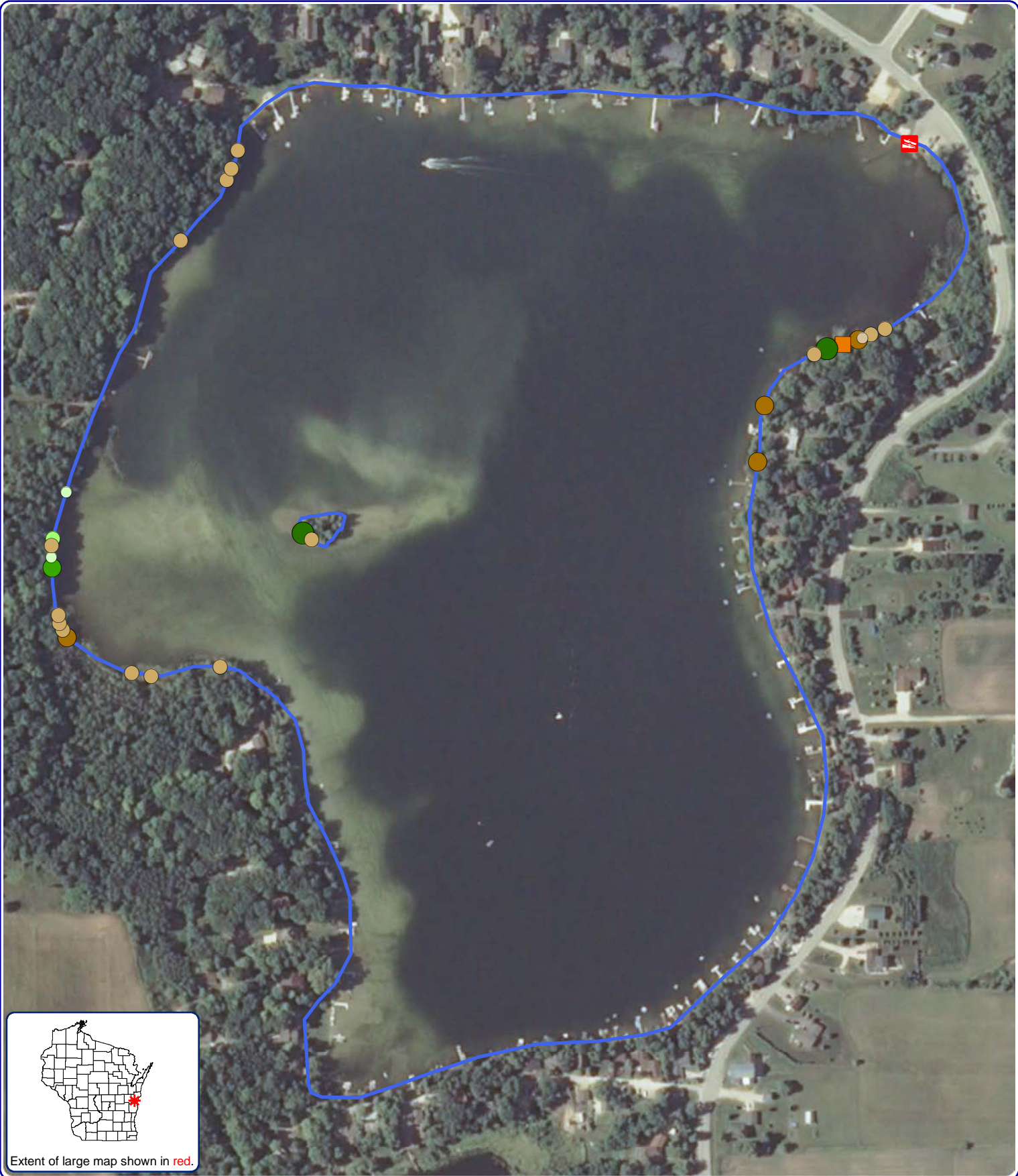
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Sources:
 Orthophotography: NAIP, 2008
 Shoreline Assessment: Onterra, 2013
 Map date: November 26, 2013
 Filename: Map3_Pigeon_ShorelineCondition_2013.mxd

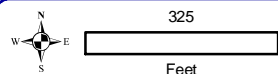
Legend

- Natural/Undeveloped
- Developed-Natural
- Developed-Semi-Natural
- Developed-Unnatural
- Urbanized
- Seawall
- Masonry/Wood
- Rip-Rap

Map 3
 Pigeon Lake
 Manitowoc County, Wisconsin
**Shoreland
 Condition**



Extent of large map shown in red.

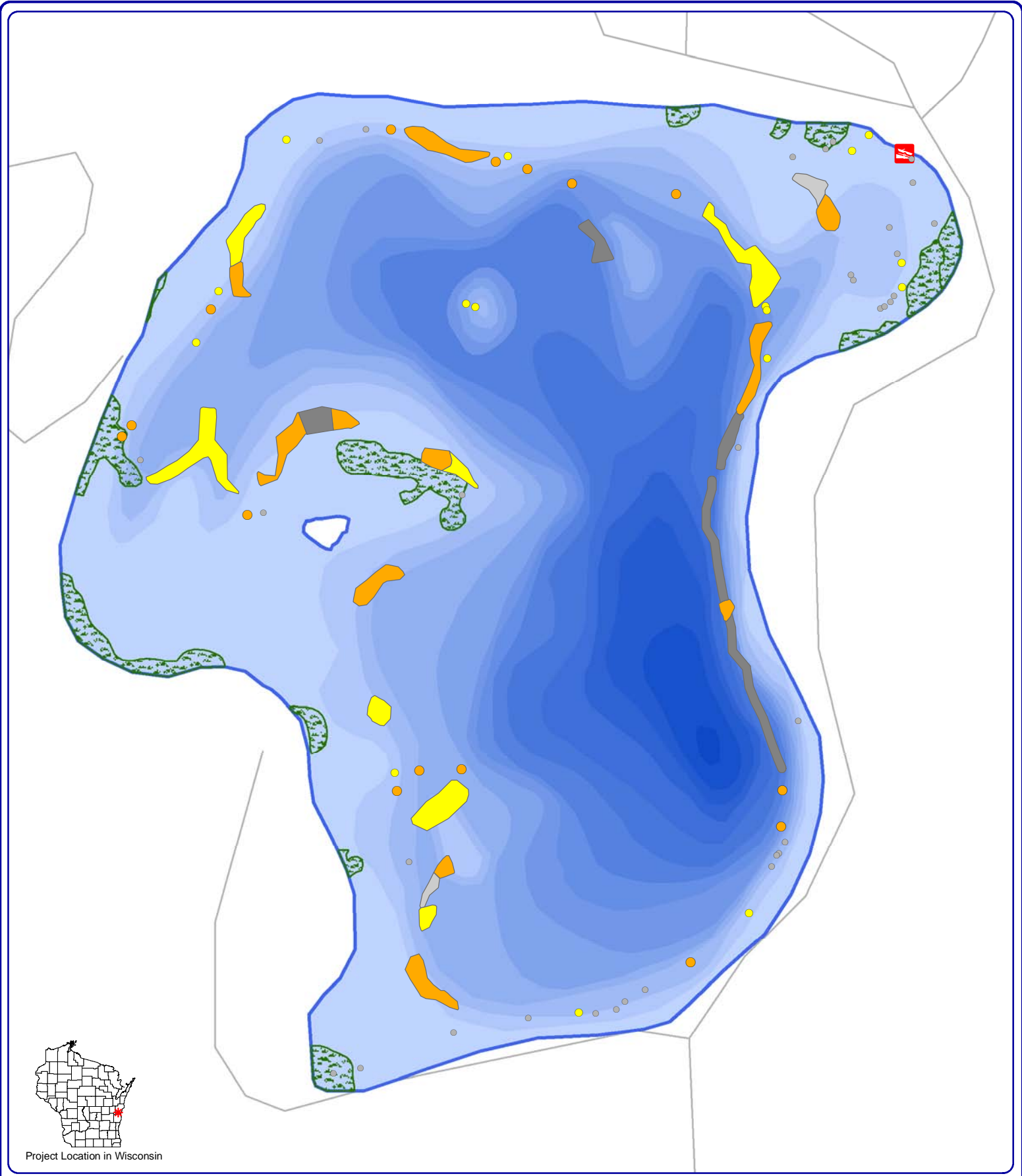


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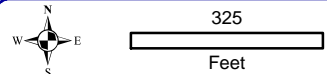
Sources:
 Orthophotography: NAIP, 2008
 CWH Survey: Onterra, 2013
Map date: November 26, 2013
 Filename: Map4_Pigeon_CWH_2013.mxd

2-8 Inch Pieces		8+ Inch Pieces		Cluster of Pieces	
● No Branches	● Minimal Branches	● No Branches	● Minimal Branches	■ No Branches (none)	■ Minimal Branches (none)
● Moderate Branches	● Full Canopy (none)	● Moderate Branches	● Full Canopy	■ Moderate Branches	■ Full Canopy (none)

Map 4
 Pigeon Lake
 Manitowoc County, Wisconsin
**Coarse Woody
 Habitat**



Project Location in Wisconsin



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Sources:
 Roads and Hydro: WDNR
 Aquatic Plants: Onterra, 2013
 Map Date: November 19, 2013
 Filename: Map6_Pigeon_EWM_PB_Aug13.mxd

EWM (August 2013)		Legend	Floating-leaf and/or Emergent Plant Community
	Highly Scattered		
	Scattered		Clumps of Plants
	Dominant		Small Plant Colony
	Highly Dominant		
	Surface Matting (none found)		

Map 6
 Pigeon Lake
 Manitowoc County
**August 2013 EWM
 Survey Results**