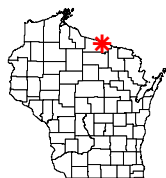


**Onterra LLC**  
 Lake Management Planning  
 815 Prosper Rd  
 De Pere, WI 54115  
 920.338.8860  
 www.onterra-eco.com

Sources:  
 Roads & Hydro: WDNR  
 Map date: July 13, 2011  
 Filename: Map1\_BigPortage\_Location.mxd



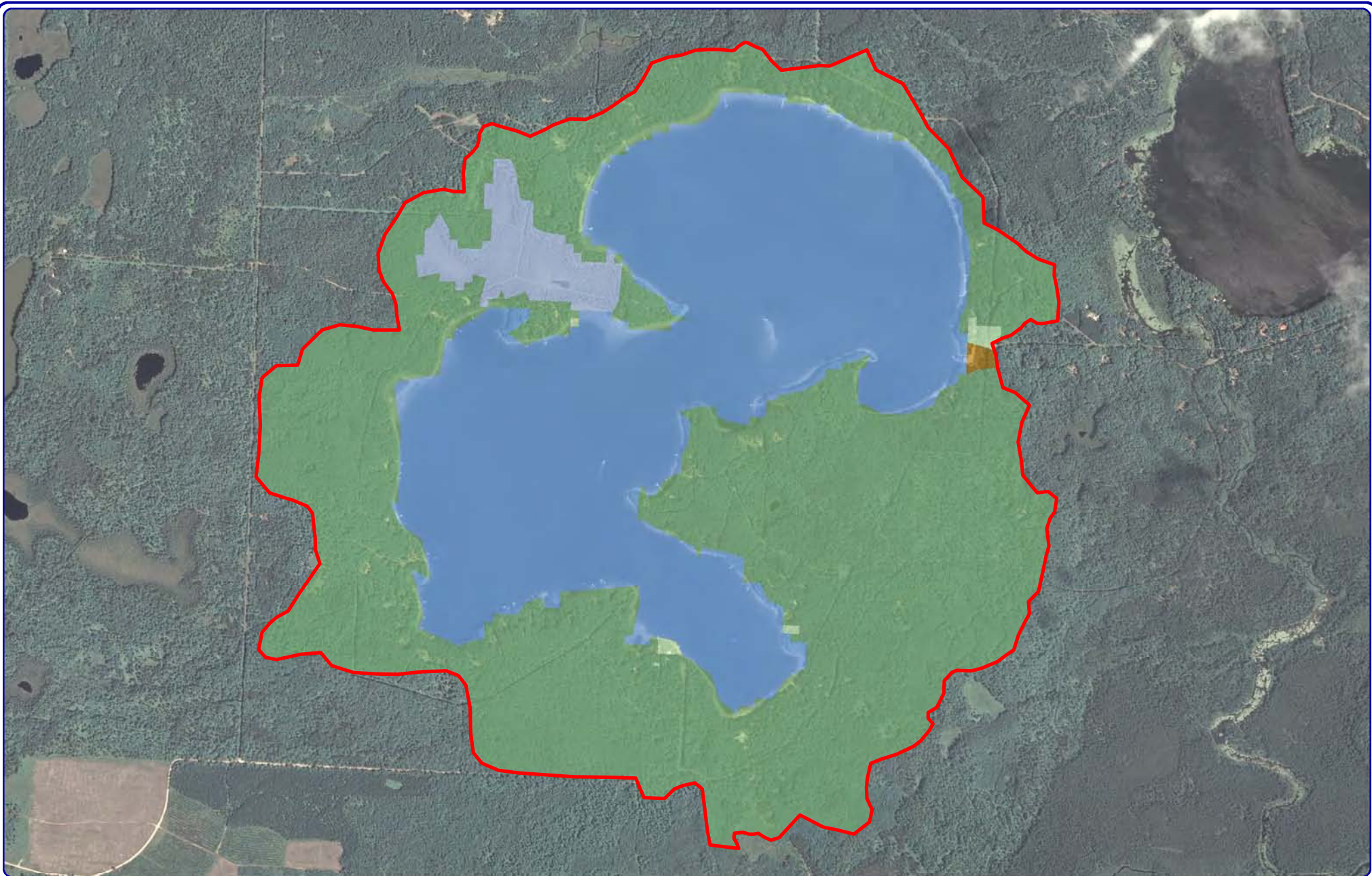
Project Location in Wisconsin

**Legend**

-  Big Portage Lake ~ 586 acres  
WDNR Definition
-  Point-Intercept Survey Location  
60-meter spacing, 653 total points
-  Water Quality Sampling Location
-  Public Access

**Map 1**

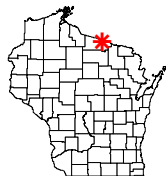
**Big Portage Lake**  
 Vilas County, Wisconsin  
**Project Location  
 & Lake Boundaries**



1,550



Feet



Project Location in Wisconsin

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**Sources:**  
 Hydro: WDNR  
 Orthophotography: NAIP, 2010  
 Watershed: WDNR & Onterra  
 Land Cover: WISCLAND  
 Map date: July 13, 2011  
 Filename: Map2\_BigPortage\_Watershed.mxd

**Legend**

-  Forest
-  Pasture/Grass
-  Wetland
-  Row Crop Agriculture
-  Open Water
-  Watershed Boundary
-  Public Boat Landing

**Map 2**

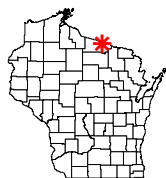
**Big Portage Lake**  
 Vilas County, Wisconsin  
**Watershed and  
 Land Cover Types**



1,200



Feet








Project Location in Wisconsin

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 Lake Management Planning  
 815 Prosper Rd  
 De Pere, WI 54115  
 920.338.8860  
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**Sources:**

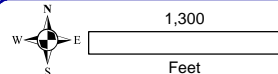
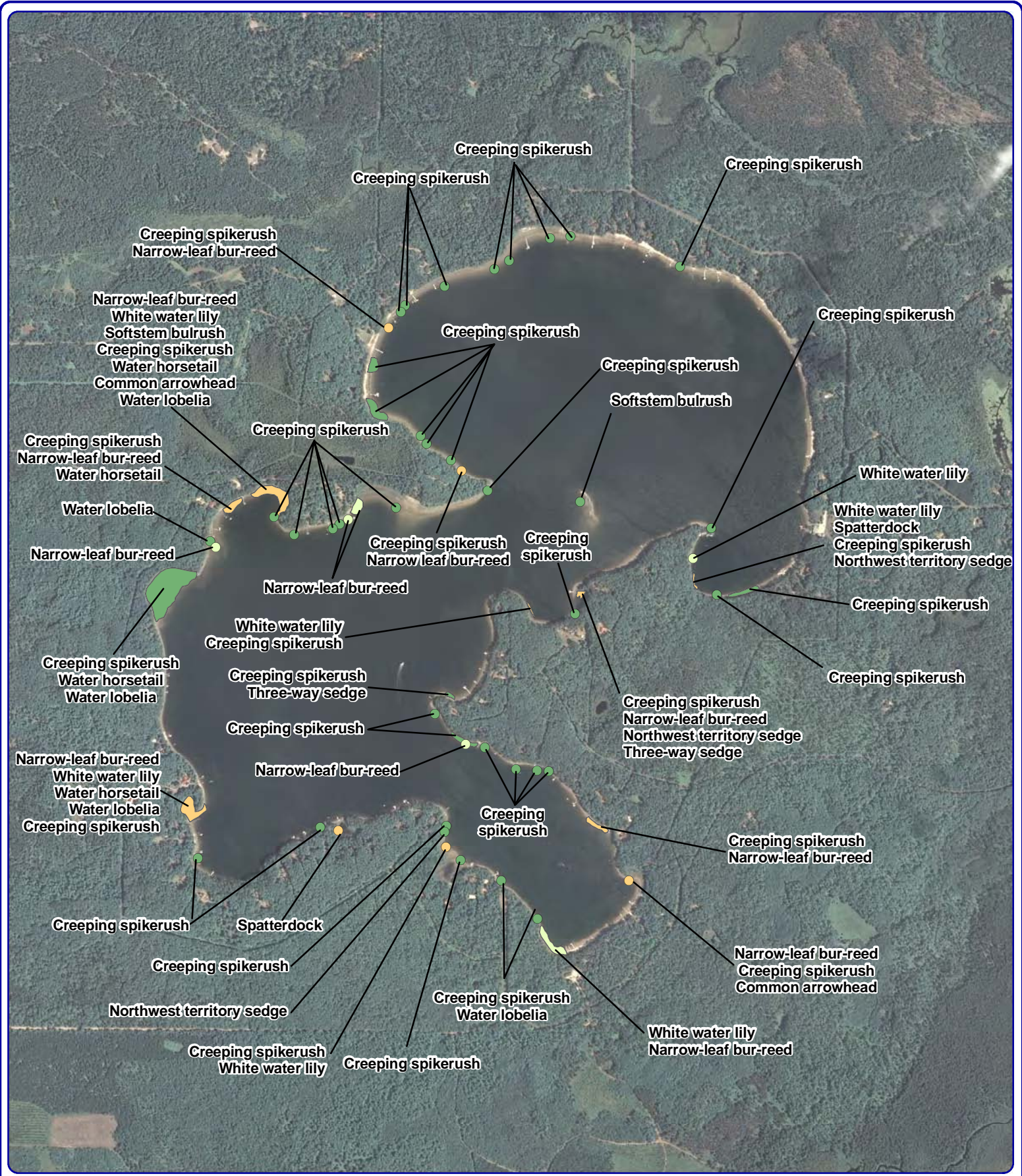
Orthophotography: NAIP, 2010  
 Shoreline Assessment: Onterra, 2010  
 Map date: July 13, 2011  
 Filename: Map3\_BigPortage\_SA.mxd

**Legend**

-  Natural/Undeveloped
-  Developed-Natural
-  Developed-Semi-Natural
-  Developed-Unnatural
-  Urbanized

**Map 3**  
**Big Portage Lake**  
 Vilas County, Wisconsin

**Shoreline**  
**Condition**



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Sources:  
 Hydro: WDNR  
 Aquatic Plants: Onterra, 2010  
 Orthophotography: NAIP, 2010  
 Map date: Dec 20, 2010  
 Filename: Map4\_BigPortage\_Comm\_2010\_v2.mxd

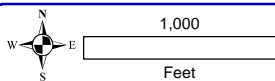
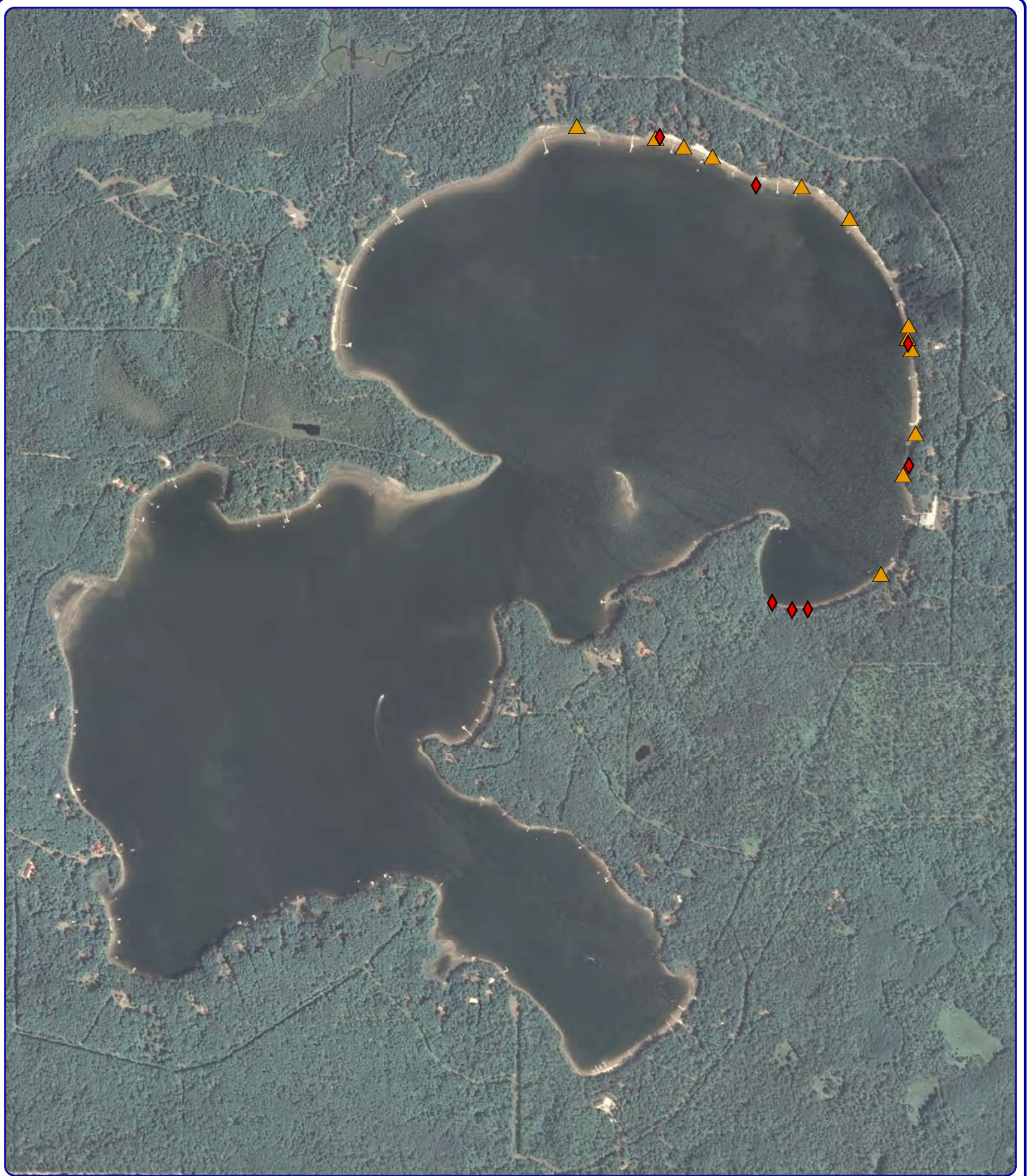


Project Location in Wisconsin

- Small Plant Communities**
- Emergent
  - Floating-leaf
  - Mixed Floating-leaf & Emergent

- Large Plant Communities**
- Emergent
  - Floating-leaf
  - Mixed Floating-leaf & Emergent

Map 4  
 Big Portage Lake  
 Vilas County, Wisconsin  
**Aquatic Plant Communities**



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 www.onterra-eco.com

**Sources:**  
 Hydro: WDNR  
 Aquatic Plants: Onterra, 2010  
 Orthophotography: NAIP, 2010  
**Map date:** Dec 20, 2010  
 Filename: Map5\_BigPortage\_Pha&Phrag.mxd



Project Location in Wisconsin

**Exotic Plant Communities**

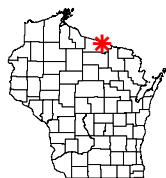
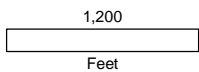
◆ Reed Canary Grass

**Native *Phragmites* sp. Communities**

▲ Common Reed Grass

**Map 5**  
**Big Portage Lake**  
 Vilas County, Wisconsin

***Phalaris* and *Phragmites*  
 Plant Communities**



Project Location in Wisconsin

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 De Pere, WI 54115  
 920.338.8860  
 www.onterra-eco.com

Sources:  
 Hydro: WDNR  
 Orthophotography: NAIP, 2010  
 Sediment Data: Onterra, 2010  
 Map date: July 13, 2011  
 Filename: Map6\_BigPortage\_Sed.mxd

**Legend**

- × Unreachable
- Muck
- Rock
- Sand

Map 6  
 Big Portage Lake  
 Vilas County, Wisconsin  
**Sediment Types at  
 Point Intercept Locations**