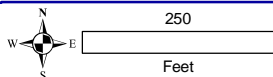






Project location shown in red.



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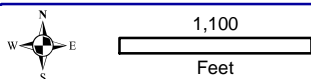
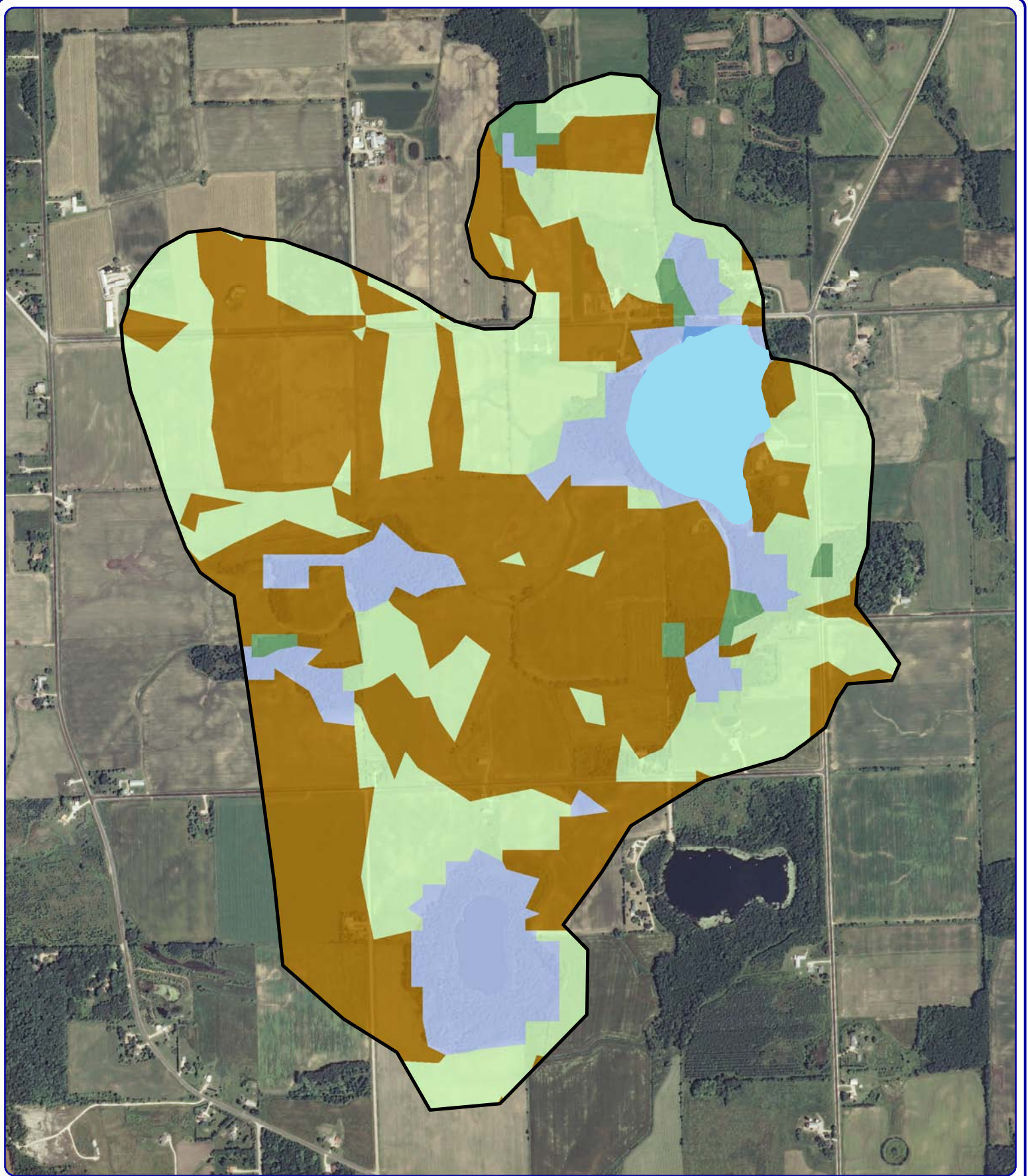
Sources:  
 Roads & Hydro: WDNR  
 Orthophotography: NAIP 2008  
 Map date: Sept. 28, 2011  
 Filename: Map1\_Harpt\_Location.mxd

**Legend**

-  Harpt Lake ~ 33 acres  
WDNR Definition
-  Public Access
-  Point-Intercept Survey Location  
17-meter spacing, 446 total points
-  Water Quality Sampling Location

**Map 1**  
**Harpt Lake**  
 Manitowoc County, Wisconsin  
**Project Location**  
**& Lake Boundaries**





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Source:  
 Watershed: WDNR & Onterra  
 Landcover: WISCLAND  
 Roads & Hydro: WDNR  
 Orthophotography: NAIP, 2008  
 Map Date: June 7, 2010  
 File Name: Harpt\_watershed.mxd



Project location shown in red.

**Legend**

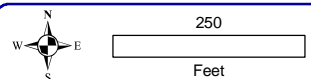
- Watershed Boundary
- Land Cover Types**
- Row Crop Agriculture
- Pasture/Grass
- Forest
- Open Water
- Wetland

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





Project location shown in red.






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Source:  
Hydro: WDNR  
Aquatic Plants: Onterra, 2009  
Orthophotography: NAIP, 2008  
Map Date: July 30, 2009  
File Name: Harpt\_Comm\_July09.mxd

**Legend**

**Large Plant Communities**

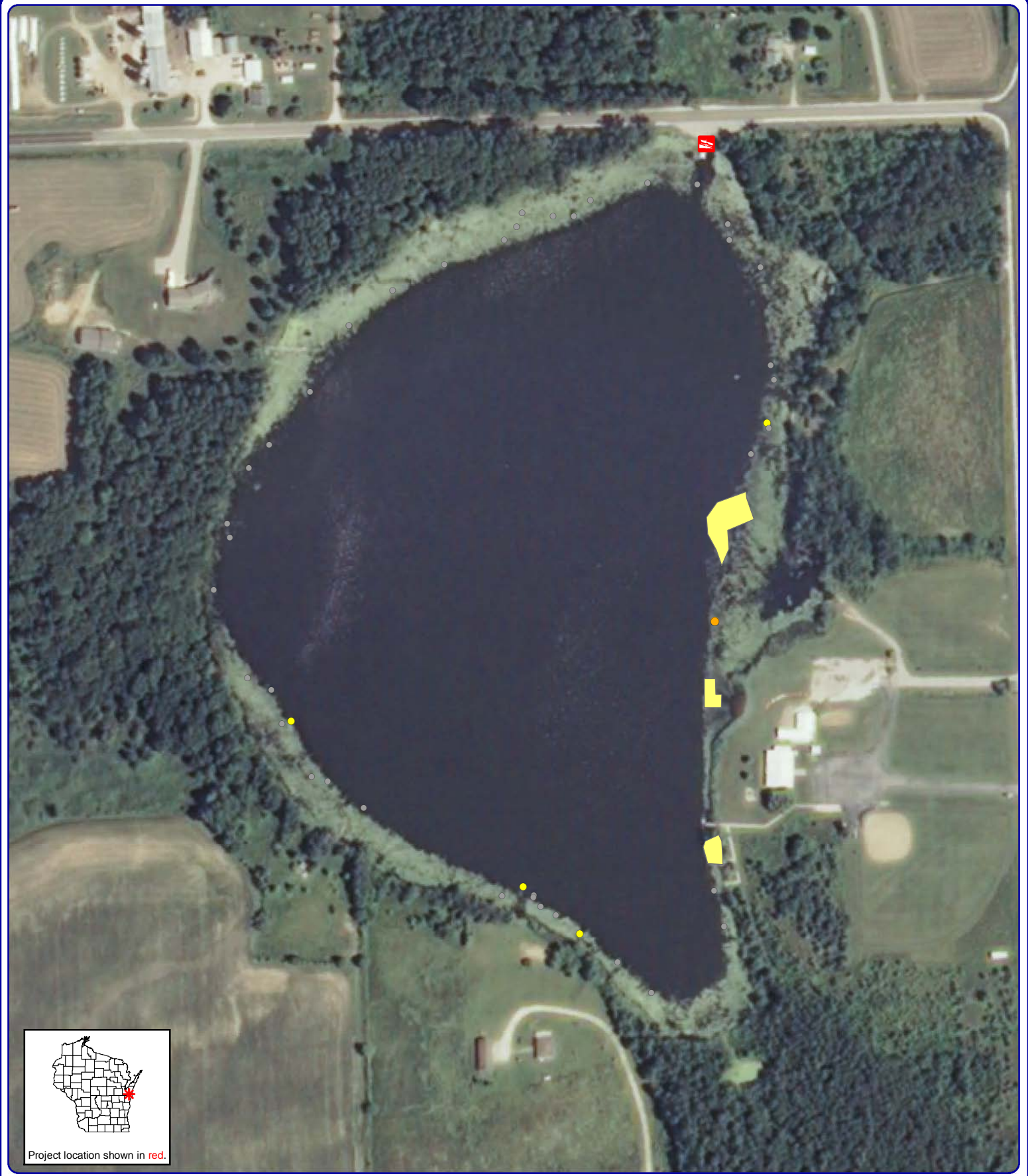
-  Emergent
-  Floating-leaf
-  Mixed Floating-leaf & Emergent

**Small Plant Communities**

-  Emergent
-  Floating-leaf
-  Mixed Floating-leaf & Emergent

**Map 3**  
**Harpt Lake**  
Manitowoc County, Wisconsin  
**Aquatic Plant Communities**





Project location shown in red.



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Source:  
 Orthophotography: NAIP 2008  
 Aquatic Plant Survey: Onterra, 2009  
 Map Date: July 30, 2009  
 File Name: Harpt\_EWM\_PeakBio\_July09

**Legend**

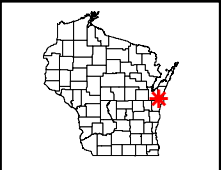
- EWM Survey Results (July 2009)**
- Single Plants
  - Clump of Plants
  - Small Plant Colony

**EWM Survey Results (July 2009)**

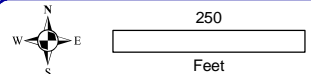
- ☞ Highly Scattered (*none found*)
- ☞ Scattered (*none found*)
- ☞ Dominant
- ☞ Highly Dominant (*none found*)
- ☞ Surface Matting (*none found*)

Map 4  
 Harpt Lake  
 Manitowoc County, Wisconsin  
**2009 EWM Peak  
 Biomass Survey Results**





Project location shown in red.



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Source:  
 Orthophotography: NAIP 2008  
 Aquatic Plant Survey: Onterra, 2011  
 Map Date: January 30, 2011  
 File Name: Harpt\_EWM\_PeakBio\_Sept11

**Legend**

- EWM Survey Results (Sept 2011)**
- Single Plants
  - Clump of Plants
  - Small Plant Colony

**EWM Survey Results (Sept 2011)**

- Highly Scattered (*none found*)
- Scattered (*none found*)
- Dominant
- Highly Dominant (*none found*)
- Surface Matting (*none found*)

Map 5  
 Harpt Lake  
 Manitowoc County, Wisconsin  
**2011 EWM Peak  
 Biomass Survey Results**