

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

Sources:
 Roads and Hydro: WDNR
Map Date: October 10, 2018 JLW
 Filename: CrystaMarquette_Loc@on.mxd



Project Location in Wisconsin

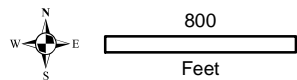
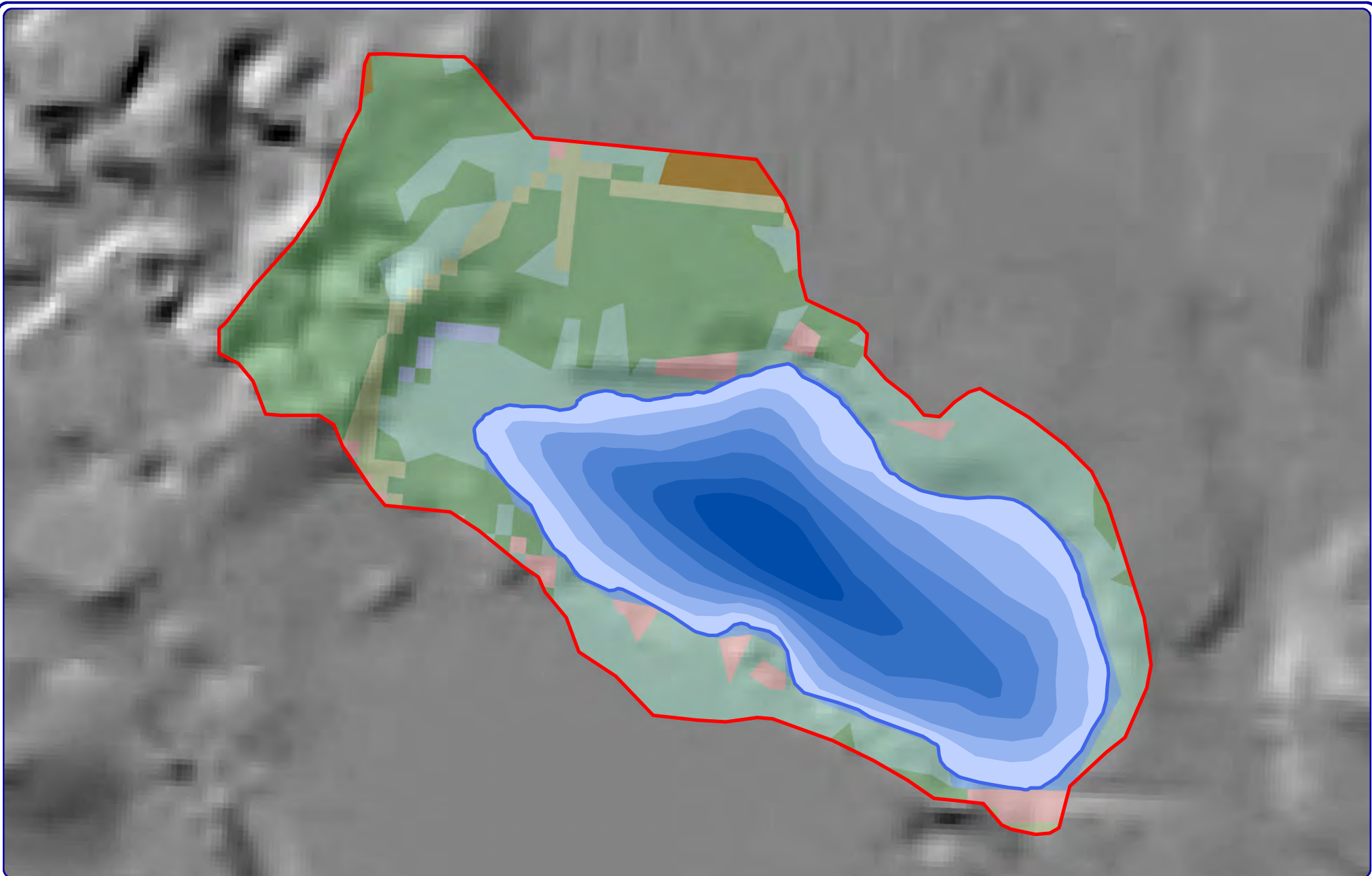
Legend

- Crystal Lake ~ 119 acres
WDNR Definition
- Point-Intercept Survey Location
40 meter spacing, 302 total points
- Carry-In Access
- Water Quality Sampling Location

Map 1

Crystal Lake
 Marquette County, Wisconsin

**Project Location &
 Lake Boundaries**



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Sources:
 Hydro: WDNR
 Bathymetry: WDNR, digitized by Onterra
 Orthophotography: NAIP, 2017
 Land Cover: NLCD, 2011
 Watershed Boundaries: Onterra, 2018
Map date: October 10, 2018 JLW
Filename: CrystalMarquette_Watershed.mxd



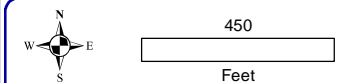
Project Location in Wisconsin

- | | | | |
|--|-------------------|--|-------------------|
| | Forest | | Row Crops |
| | Forested Wetlands | | Rural Residential |
| | Pasture/Grass | | Wetland |
| | Rural Open Space | | Open Water |

Legend

Crystal Lake Watershed Boundary

Map 2
 Crystal Lake
 Marquette County, Wisconsin
**Watershed Boundaries
 & Land Cover Types**



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Sources
 Hydro: WDNR
 Shoreland Assessment: Onterra, 2018
 Orthophotography: NAIP, 2017
 Map date: November 12, 2018 AMS
 Filename: Crystal_Marquette_SA_Oct18



Project Location in Wisconsin

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

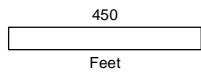
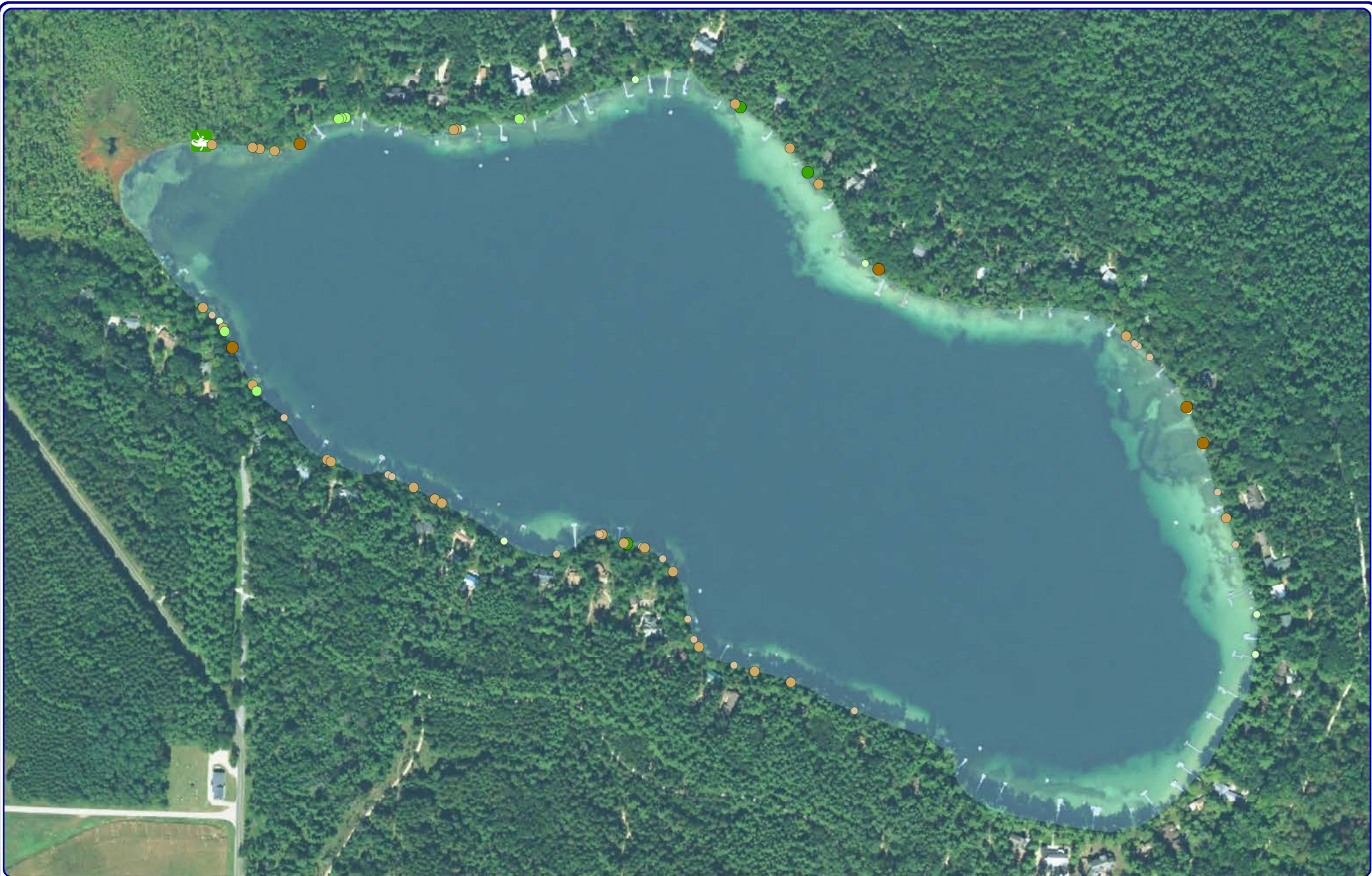
Legend

Seawall Modifier

Masonry/Metal/Wood

Rip-Rap

Map 3
Crystal Lake
 Marquette County, Wisconsin
Shoreland Condition
Assessment



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Sources
 Hydro: WDNR
 CWH Survey: Onterra, 2018
 Orthophotography: NAIP, 2017
 Map date: November 12, 2018 AMS
 Filename: Crystal_Marquette_CWH_Oct18.mxd



Project Location in Wisconsin

Legend

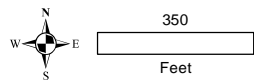
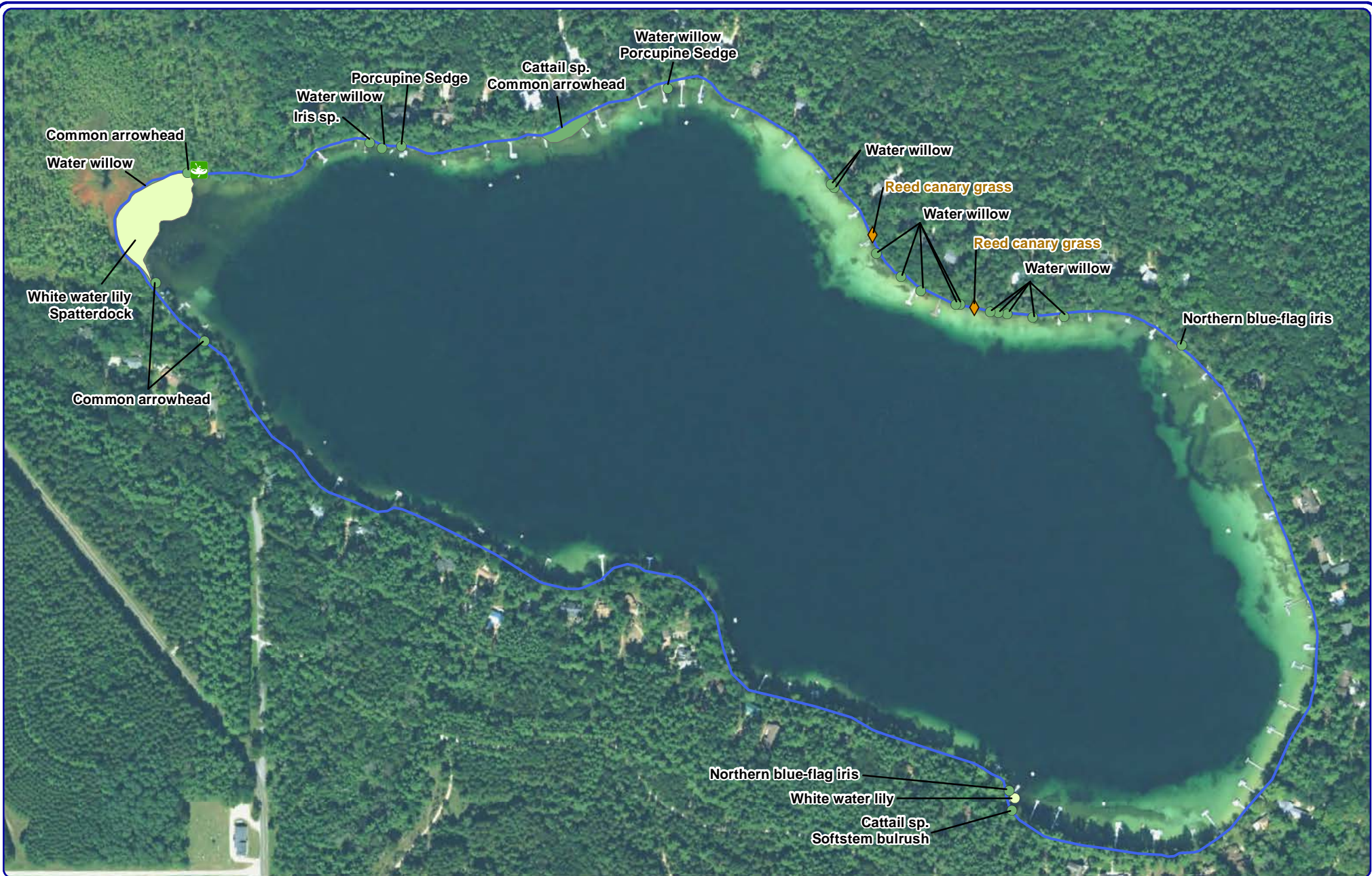
2-8 Inch Pieces

- No Branches
- Minimal Branches
- Moderate Branches
- Full Canopy

8+ Inch Pieces

- No Branches
- Minimal Branches
- Moderate Branches
- Full Canopy

Map 4
Crystal Lake
 Marquette County, Wisconsin
Coarse Woody
Habitat



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Sources
 Hydro: WDNR
 Aquatic Plants: Onterra, 2018
 Orthophotography: NAIP, 2017
Map date: October 10, 2018 JLW
Filename: CrystalMarquette_Comm_2018.mxd



Project Location in Wisconsin

Legend

- | | |
|--------------------------------|--------------------------------|
| Small Plant Communities | Large Plant Communities |
| ● Emergent | ● Emergent |
| ○ Floating-leaf | ○ Floating-leaf |
| ◆ Reed Canary Grass | |

Map 5
Crystal Lake
 Marquette County, Wisconsin
Aquatic Plant Communities