



## **REBECCA OLSON, M.S.** Ecological Consultant

### **Qualifications Summary:**

Rebecca Olson, is the Principal Ecologist for the A3 Environmental, LLC/Olson Ecological Services (A3E/OES) Joint Venture. Her consulting services specialize in wetlands and water quality of streams and lakes in the Upper Midwest Region, and focuses on high quality native remnants and restored natural areas.

### **Areas of Expertise:**

- Stormwater & Wetland Design
- Wetland/Stream Mitigation
- Wetland Delineation
- Plant & Tree Surveys
- Habitat Surveys
- Soil Erosion Consultation
- BMP Design, Planning
- Conservation Design
- Grant Writing & Administration

### **Education:**

M.S., Wildlife Biology/Ecology,  
2000 Colorado State University,  
Fort Collins, CO  
B.A., Biology & Minor, Chemistry,  
1996 Denison University, Granville,  
OH

### **Registrations & Training:**

- Cook Co. WBE Certification, IL  
IDOT DBE Certification, IL
- Lake Co. Certified Wetland  
Specialist, IL
- McHenry Co. Certified Wetland  
Specialist, IL
- USACOE Methods Wetland  
Delineation Training, Wetland  
Training Institute, WI
- Floating Island International,  
Island Master Training,  
Shepherd, MT ASLA Honor  
Award Contributor, IL

The A3E/OES consulting projects provide wetlands and natural storm water filters in rural and developed settings like river corridors, drainage systems, wetlands, parks, and neighborhoods. The consultants at A3E/OES spend most of their time designing and monitoring wetland and stream mitigation plans, planning and implementing watershed-based plans to prevent nonpoint source pollution from entering our streams and lakes, and designing best management practices (BMPs) related to storm water runoff. The restoration crew at A3E/OES support efforts to care for public open spaces, wetland mitigation sites, and natural areas in and around the Chicagoland Region. Restoration technicians spend most of their time removing invasive species and encouraging the growth of native species in established and restored natural areas.

### **Representative Project Experience**

#### **Wetland & Stream Restoration, Mitigation, & Permitting:**

Designs wetland & stream restoration & mitigation plans including site assessment, target plant communities, restoration specifications, performance standards, & monitoring of functions & vegetation. Bass Cr., Sun Prairie, & N. IL Wetland Mitigation Banks; IL 173 Stream & Wetland Mitigation; Speedway Stores Stream & Wetland Mitigation; IL Tollway Wetland Mitigation Prospectuses; Tallgrass Land Conservation Speculative Mitigation Bank Site Locations & Assessments; Black Earth Wetland Mitigation.

**Stormwater Infiltration & Filtration Planning & Design:** Designs best management practices (BMPs) in cooperation with an engineer to improve quality of stormwater such as: constructed stormwater wetlands, stream meanders & bank stabilization, filter strips, & vegetated bioswales. Levings Lk. Biofiltration Treatment Train & Filter Strips; Candlewick W. Tributary Biofiltration, Vegetated Swales, & Filter Strips; Spring Lk. Plan; Babbling Br. Meanders, Bank Stabilization, Sediment Pond; Sinnissippi Park Stormwater Detention; Rock R. Water Recl. Dist. Vegetated Swale, Oak Cr. Naturalized Detention Pond.

## ■ Representative Project Experience

**Bioremediation of Lakes & Ponds:** Plans & installs BioHaven floating treatment wetlands on ponds & lakes to improve water quality. Floating island installation at Levings Lk., Hartung Park, Coralville Stormwater Pond, Mississippi R. & Stormwater Pond by River Action.

**Vegetative Survey Protocol Design:** Designs plans & protocol for monitoring site conditions & restoration efforts via vegetation surveys. Sun Prairie Wetland Mitigation Bank, Moredock Lk. Ecological Damage Assessment, Bass Cr. Wetland Mitigation Bank, N. IL Wetland Bank, New South Access Mat Vegetation Impact Study.

**Wetland Delineation, Permitting, T&E Habitat Surveys:** Delineates wetlands according to US Army Corps of Engineers' Wetland Delineation Manual, drafts permit applications for wetland & stream impacts, & conducts habitat surveys for T&E species. Spring Cr. Lk. Dev., Speedway Stores, S. Ridge Park, Round Lk. High School, Hurricane & Brush Cr. Solar Farms, more than 30 wetland delineations.

**Watershed-based Planning & Inventories:** Inventories watersheds, plans nonpoint source pollution prevention, & facilitates community efforts according to EPA's 9 elements of a watershed-based plan & other guidelines. Watershed Inventories & Plans for Winneshiek Cr., S. Fork Kent Cr., E. Fork Cr., Friends Cr., Spring Branch, Candlewick Lake, Clear Cr.

**Park & Subdivision Conservation Design:** Plans & designs naturalized amenities for parks & conservation developments. Fowler Farm Subdivision, Glenn H. Green Open Space, Sinnissippi Park Recreation Path, Eclipse Lagoon at Nicholas Conservatory & Gardens, Woodlake on Newburg (ASLA Honor Award for Thomas Graceffa & Assoc., 2004), Marshland Greens.

**Land Preservation:** Brokers real estate transactions and conservation easements to preserve land. Has played a significant role in protecting over 2,360 ac. in northern Illinois. Amboy Marsh, Ferguson Forest Preserve, Clear Water Legacy, Kyte R. Land & Water Reserve, Canyon Camp Addition to Apple R. Canyon LWR, Addition to Harlem Hills Nature Preserve.

**Grant Writing & Administration:** Secures funding & administers grants for land conservation, restoration, & planning projects from federal, state, & private sources. EPA 319 Program, Conservation 2000, IL Clean Energy Community Foundation, Grand Victoria Foundation