Skokie River Woods
Wetland Restoration

Tony St. Aubin

- Ecological Consulting
- Native Plant Nursery
- Restoration Services
- Cultural Resource Management
Project Background

- County Stormwater Commission Wetland Violation Fund
- Illinois High-quality aquatic resource (based on FQI)
- Natural communities includes:
  - Shallow emergent marsh
  - Sedge meadow
  - Wet prairie
  - Red oak woodland
  - Swamp White Oak flatwoods
- Forest understory dominated by invasive trees/shrubs
Project Goals

- Create 1.5 acres of additional wetland
- Enhance 15.0 acres of existing wetland
  - Increase native plant coverage
  - Expand habitat (Blue Spotted Salamander)
- Improve 5.0 acres of wetland buffer
  - Decrease invasive plant coverage
Project Scope

- Wetland construction design
- Federal and state permitting
- Surveys include:
  - Topographic
  - Construction layout
  - As-built
- 5,500 cy excavation and disposal
- Soil Amendments
- Installation of water control structure (Agridrain)
- Dam removal

- Sediment and Erosion Control
  - Silt fence
  - PAM
  - straw waddles
- 15.0 acres of woody invasive species removal
- 20.5 acres of herbaceous herbicide control
- 20.5 acres of native seeding/planting
- 5 years of natural areas maintenance (selective herbicide, mowing)
- 5 years of monitoring (vegetative, hydrological)
Design & Permitting
Invasive Species Removal

Rhamnus frangula
- Cut-stump treatment
- Forestry mowing
- Garlon 3a herbicide

Typha angustifolia
- Selective herbicide
- Aquaneat
Sediment and Erosion Control

- Silt fence
- PAM
  - Water soluble polymers
  - Bind soil particles to floc logs
  - Due to extended soil exposure
- Straw Saddles/ Check Dams

Sediment accumulation due to PAM
Water Control Structure (Agridrain)

- EARTHEN EMBANKMENT (TO BE STABILIZED WITH NAG C350 AND PERMANENT VEGETATION)
- PERFORATED RISER PER LCSMC DETAIL (SEE SWPPP)
- NWL = ±638.00
- CONCRETE BLOCK
- SEDIMENT TRAP (MIN. DEPTH 3', MIN. AREA 20'x20')
- AGRIDRAIN WATER LEVEL CONTROL STRUCTURE
- TOP OF BERM = EL. 639.0
- 10" HDPE PIPE
- FLOW
- EXISTING GRADE
- LINED APRON PER URBAN MANUAL DETAIL FOR PIPE OUTLET TO CHANNEL (SEE SWPPP FOR DETAIL)

WATER LEVEL CONTROL STRUCTURE DETAIL
NTS
Excavation

High-quality wetland

+4'
Direct Additional Questions to:

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