Jelkes Creek Restoration Project
Dundee Township, Sleepy Hollow, IL

Sue Harney, Supervisor
Dundee Township
www.DundeeTownship.com

Ted Gray, PE, CFM, CPESC
Living Waters Consultants, Inc.
www.LivingWatersConsultants.com
Team Members

- **Owner:** Dundee Township
- **Engineer:** Living Waters Consultants, Inc.
- **Contractor:** G.A. Blocker, Inc.
- **Funding:** Illinois EPA Section 319 Grant / CMAP OSLAD Grant

Groundbreaking Ceremony
May, 2009
Agency Partnerships

- Illinois Environmental Protection Agency
- United States Environmental Protection Agency
- Seal of the County of Kane
- Dundee Township
- Illinois Department of Natural Resources
- CMAP
- Chicago Metropolitan Agency for Planning
- Fox River Ecosystem Partnership
Past Conditions: Historic Quarry Operations

Quarry Water Circulation and Wash Ponds for Sand and Gravel Processing
Degraded Slopes & Water Quality Impacts

Spoil Piles / Erosion

27/02/2006
Nuisance Flooding

Jelkes Creek Watershed
Flood Impacts
Ruts and Gullies

- Fragile Soils
- Gullies
- Degradation
Environmentally Sound Solutions

Resident Outreach

Engineering Plans
Project Summary

- 260,000 CY Earthwork
- 110+ Acres Native Plant Seeding
- 15 Acres Wetland Restoration
- 6 Stormwater Detention Basins
- 3,250 LF of Bioswales
- 5,000+ LF of Terraced Bioretention
- 3+ Miles of Gravel Trails
- 100% Retention of 100-Year Runoff
- $1.3M Grant Funding

Grant Signage
Earthwork / Topsoil Respread / Gravel

Basin Construction / Topsoil Stockpile

Gravel Staging
Basin Construction / Forebays

Basin Construction

Sediment Forebay
Mulching / Seeding

Basin Mulching / Erosion Blanket
Shoreline Stabilization

Natural Log Shoreline
Fishing Piers / Native Seeding

Fishing Pier / Limestone Access

ADA Access Pier
Terraced Swales (Before vs. After)

BEFORE

AFTER
Aerial

Entrance / Parking

Wetland Basins

Trails

Terraced Swales

Wetland Basins
Runoff Quality Treatment

Circuitous Path of Runoff Treatment
Bioswales / Parking Lot Filtration

Bioswales / Rock Checks to Slow Runoff Velocity and Allow Infiltration
Aerial (Fall 2009)

Substantial Completion in Fall 2009 / Planting in 2010
Benefits

- Water Quality Improvement
- Recharge Water / Groundwater Supplies
- Recreational Opportunity (Fishing, Hiking, Bird Watching, Future Pavilion, etc.)
- Retention of All Runoff in 100-Year Flood
- Aquatic Habitat
- Wildlife Habitat / Connectivity to Jelkes Wetland
- Educational Opportunity
- Grant Funding $1.3M
- Elimination of Nuisance Flooding
Grand Opening: July, 2010