

Advanced Conservation Drainage Training Program

Session Two: Constructed Wetlands

CLASSROOM TRAINING – JULY 24, 2019

Illinois Central College – Agricultural and Industrial Technologies Building (AIT), Room 245

[East Peoria Campus, AIT](#)

INTRODUCTION

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| 8:00 AM | REGISTRATION AND NETWORKING - <i>Light refreshments available</i> |
| 8:30 AM | Welcome Back, Introductions <i>Ice Breaker: What conversations about conservation drainage have you had since our last workshop? What questions do you have?</i> |

FOCUS ON CONSTRUCTED WETLANDS: SCIENCE, STANDARDS, DESIGN, AND IMPLEMENTATION

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| 8:45 AM | Review Today's Goals |
| 9:00 AM | Wetland Practices: Differences and Similarities - Jill Kostel, The Wetlands Initiative |
| 9:45 AM | The Science Behind Nutrient Removal - Maria Lemke, The Nature Conservancy |
| 10:30 AM | BREAK |
| 10:45 AM | Overview of NRCS Practice Standards for Constructed Wetlands - Ruth Book, IL NRCS |
| 11:15 AM | Learning by Doing: Planning and Designing a Constructed Wetland Planning: Site Evaluation <ol style="list-style-type: none">1. Location: property boundaries, landowner preferences, FEMA flood zone, jurisdictional wetlands2. Drainage Area: finding the tile (IL LICA contractor) and/or estimating the area (methods)3. Topography with drainage area delineated (subsurface and surface)4. Site conditions (vegetation, soils, receiving channel, elevations, impacts to other practices, etc.) Designing <ol style="list-style-type: none">1. Size (drainage area, share Kovacic research data on ratio?)2. Shape (basic principles, interior structures, flow path)3. Water depth (control structures – principle and auxiliary)4. Storm retention5. Hydraulic retention/velocity calculations based on design Share and Review |
| (With lunch break: 12:00-12:45 PM) | |
| 2:15 PM | BREAK |
| 2:30 PM | Installing constructed wetlands: Experiences from the field – Illinois LICA Contractors |
| 3:00 PM | Vegetation and O&M - Krista Kirkham, The Nature Conservancy |
| 3:30 PM | Accessing cost share opportunities to implement conservation drainage practices – Ruth Book, IL NRCS and Kim Martin, IL Farm Services Agency |
| 4:30 PM | Session Wrap-up: Summarize typical timeline for CW (major steps, economics, etc.) Logistics for field day |

JOIN US FOR A GROUP HAPPY HOUR

Obed and Isaac's Microbrewery and Eatery – Bocce Beer Garden
(321 NE Madison Ave, Peoria, IL, 5:30-7:00 PM)

NUTRIENT LOSS REDUCTION PRACTICES FIELD DAY – JULY 25, 2019

Illinois Central College, College Drive and Dingledine Drive, East Peoria Campus

EARLY ACCESS FOR TRAINING PARTICIPANTS

8:15 AM ***Constructed Wetland Site Tour***
Jill Kostel, The Wetlands Initiative and Ryan Arch, Illinois LICA

PUBLIC OPEN HOUSE

9:00 AM **Public Portion of Field Day Kicks Off**

9:15 AM **Field Day Stations:** This field day will focus on a systems approach to reducing nutrient losses.

In Field Practices

Nutrient Management – Precision Conservation Management

Soil Health, with Rainfall Simulator – The Nature Conservancy

Cover Crops – Illinois Central College and American Farmland Trust

Edge of Field Practices

Constructed Wetland Installation - The Wetlands Initiative and Illinois LICA

ICC Bioreactor – IL NRCS and Ag Drainage Management Coalition

Wildlife and Pollinator Habitat – Pheasants Forever

11:15 AM **Lunch (provided)**

Jen Filipiak, American Farmland Trust

Pete Fandel, Illinois Central College

12:00 PM **End of event**