

# Conservation Reserve Program (CRP)

Practice – CP-39

Farmable Wetland Program Constructed Wetland

# Constructed Wetland Practice

- Treat runoff from row crop agricultural drainage systems
- Reduce nutrient and sediment loading
- Improve surface and ground water quality
- Assist in preventing excessive erosion
- Aid in reducing flood flows
- Provide wildlife habitat

# Land Eligibility

- A minimum of 25% of the upstream watershed comprised of row crop agricultural drained land
- 3 of 10 years planted to an annual crop
- Site of wetland need not be cropland – could be marginal pastureland
- Suitable for the construction of a wetland based on:
  - Soils
  - Geology
  - Topography

# Size requirements/restrictions

- Maximum 40 acres on any one site or tract
- Pilot projects in Illinois average size of 2-5 acres with a buffer around the wetland

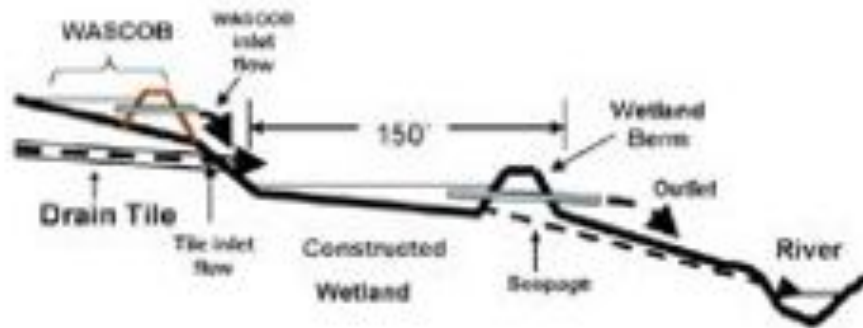
# Buffer Requirements

- Buffer is required in conjunction with wetland
- Must be no less than 2 times the size of the wetland acreage
- Can be as large as 4 times the size of the wetland acreage
- Grasses, shrubs and trees can be planted in the buffer
- Included in the CRP Contract Acreage

# Success in Illinois and Iowa

- Wetland placement in headwater areas
- Cost-effective
- Reduce nitrogen levels by 40-90%
- Reduce nitrates in streams that lead to city water supplies
- Partnering with Cities

### Lake Bloomington Constructed Wetland Design

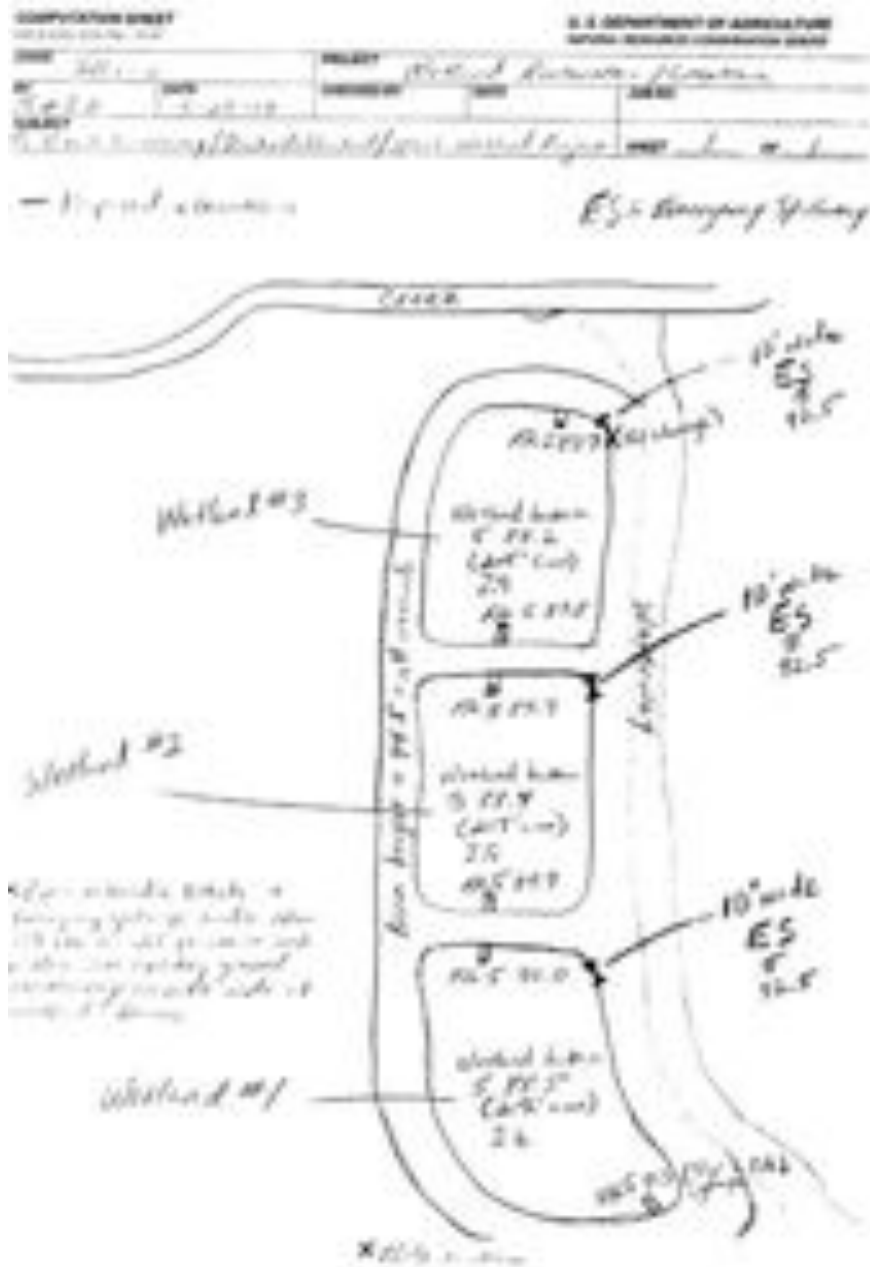


**Table 1 – Wetland and watershed size and area description**

	Wetland 1	Wetland 2
Average depth (m)	0.48	0.52
Volume (m <sup>3</sup> )	660	1780
Surface area to volume	2.42	2.25
Tile drainage area (ha)	2.17	12.1
Surface watershed area (ha)	3.76	12.3
Wetland to tile drainage area	0.07	0.03
Wetland to surface drainage area	0.04	0.03
Wetland area (ha)	0.16	0.4



A



B

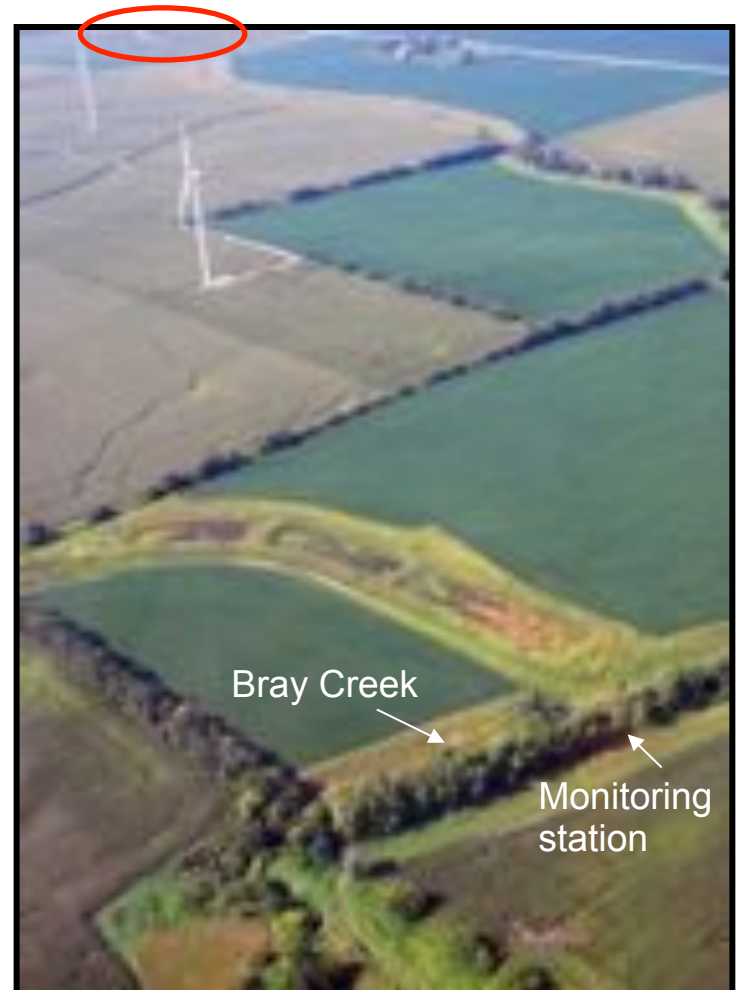


Photo by T. Lindenbaum




# Landowner Incentives

- **FSA:** 10 -15 yrs CRP rental payments + 20% Incentive
- \$100/acre upfront SIP payment
- 50% cost share (C/S)
- 40% practice incentive payment (PIP)

# Eligible cost-share components

- Earthmoving to construct the wetland
- Seedbed preparation
- Seeding for grassland ecosystem
- Seeding for woodland ecosystem
- Breaking tile to restore natural water flow
- Structures/pipes/chutes/outlets



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- Upstream Watershed is 167.72 acres
  - Cropland that meets requirements – 62.16 acres
  - 37% of the watershed is drained cropland
  - Tile drainage and field ditches provide cropland drainage

# Topographical map of potential site



Legend:  
Proposed area  
Watercourse  
160.00  
150.00  
140.00  
Cere  
Drainage



# CRP Contract Details

- Wetland – 1.25 acres
- Wetland Buffer – 2.54 acres
- Total Contract Acreage – 3.79 acres
- Continuous Signup – Can offer anytime