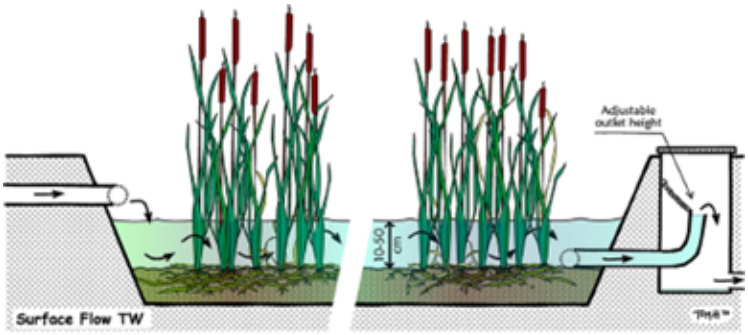
ADMC Agricultural Drainage Management Coalition

FACT SHEET

Constructed Wetland

ABOUT

Constructed Wetlands are designed to remove nitrogen from agricultural drainage systems. A shallow wetland pool is created to generate conditions favorable for denitrification. Constructed wetlands are specifically designed for nutrient removal but do create wildlife habitat as well.



Constructed Wetland Schematic

BASICS

Site requirements

Constructed wetlands are built in strategic areas in combination with drainage systems and can intercept tile drainage prior to discharging to a stream. The wetland must also be located out of the 100-year flood plain. Constructed wetlands typically treat 30 – 200 acres.

Performance

- 30% nitrate reduction
- Improves biodiversity
- Reduce peak flows downstream

Footprint

Constructed wetlands are often 0.5% - 2% of the contributing area. They will often have a buffer zone of perrenial vegetation surrounding the wetland.

Maintenance

Maintenance is relatively low after the practice is installed. The outlet should be monitored to be kept clear of debris. Mowing of the buffer zone will be needed during establishment.

[NRCS CPS 656 Constructed Wetland]

$1.32 Practice cost per pound of N removed

Installation costs range $42,000-$80,000

- Wildlife habitat
- Water storage
- Sediment removal

INTERACT WITH ADMC

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