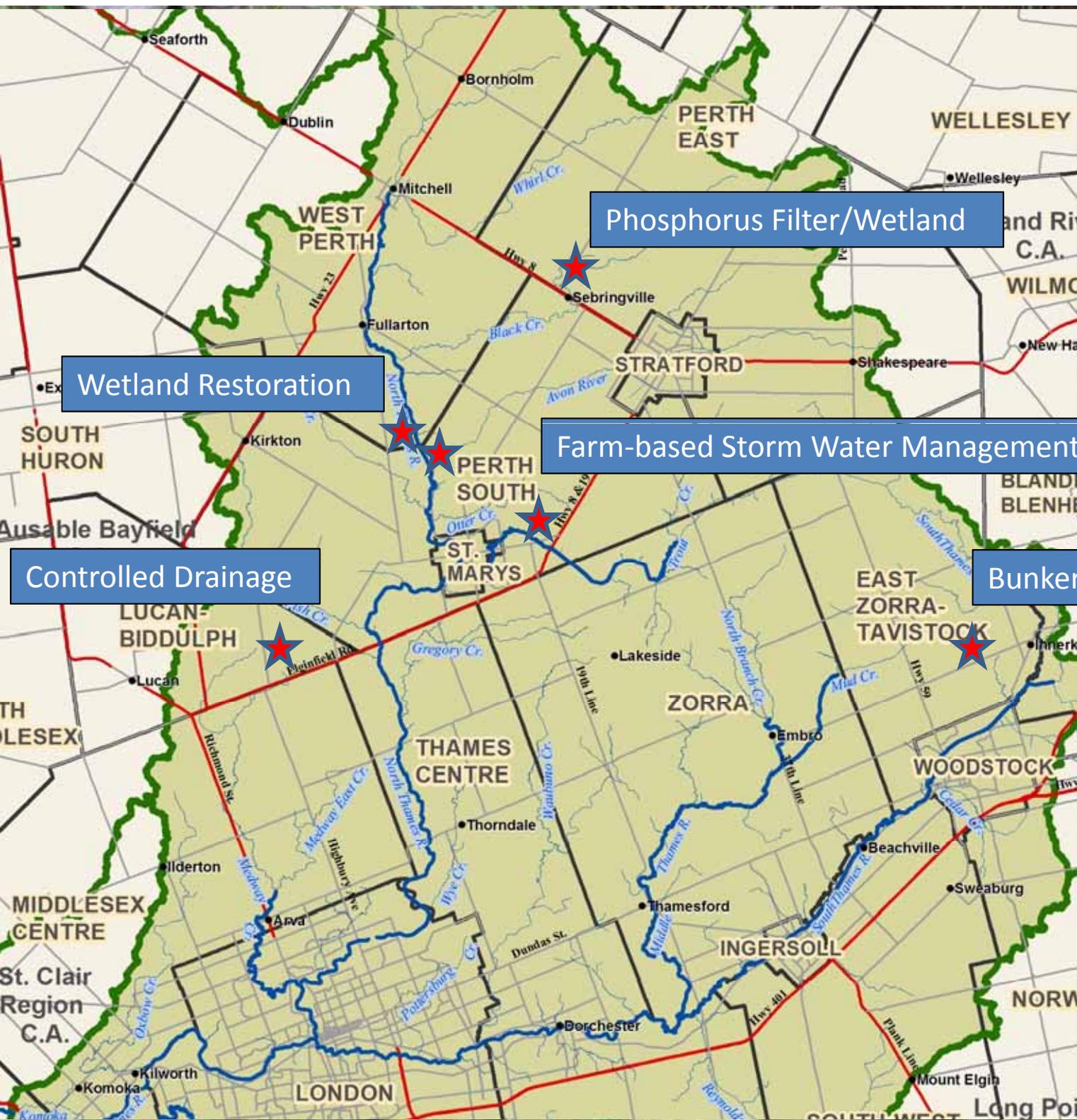


A photograph of water flowing over a series of grey, rounded rocks in a stream. The water is captured with a slight motion blur, creating a sense of movement. Green grasses and other vegetation are visible along the banks of the stream.

Developing and Demonstrating Innovative Best Management Practices

- Phosphorus Filter/Wetland
- Farm-based Storm Water Management
- Bunker Silage Leachate Treatment
- Wetland Restoration
- Controlled Drainage

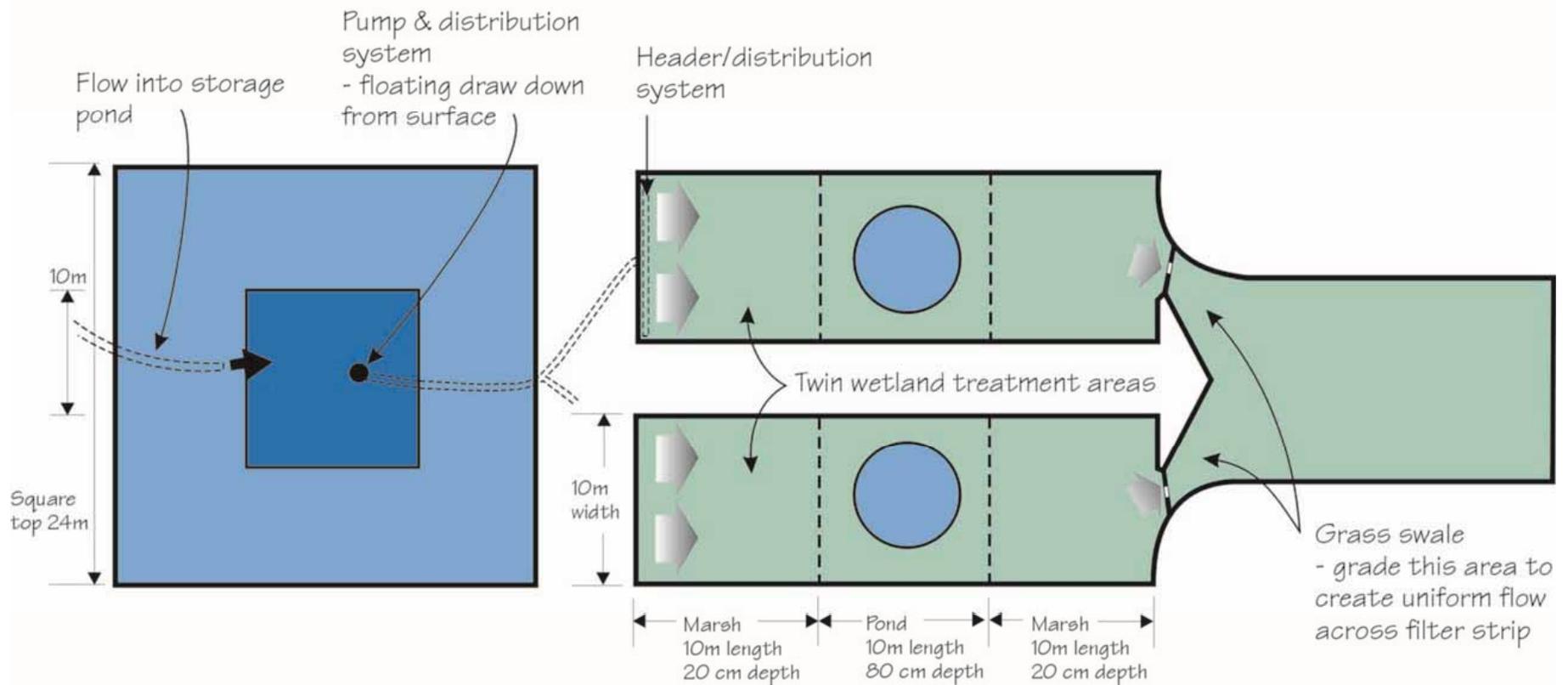
Brad Glasman
Craig Merkley

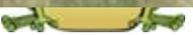


Phosphorus Filter/Wetland Treatment System



PLAN OF LAGOON/WETLAND SYSTEM





1998 ...











It's Still Working Well... !

- Nitrate
- Bacteria
- Phosphorous





















Chitosan



Farm-based Storm Water Management

Red Mill Farm



Before



After



Before



After



Farm-based Storm Water Management

Van Nes Farms





Stream

Existing ground-line

Proposed ground-line

Gully erosion





Floodplain

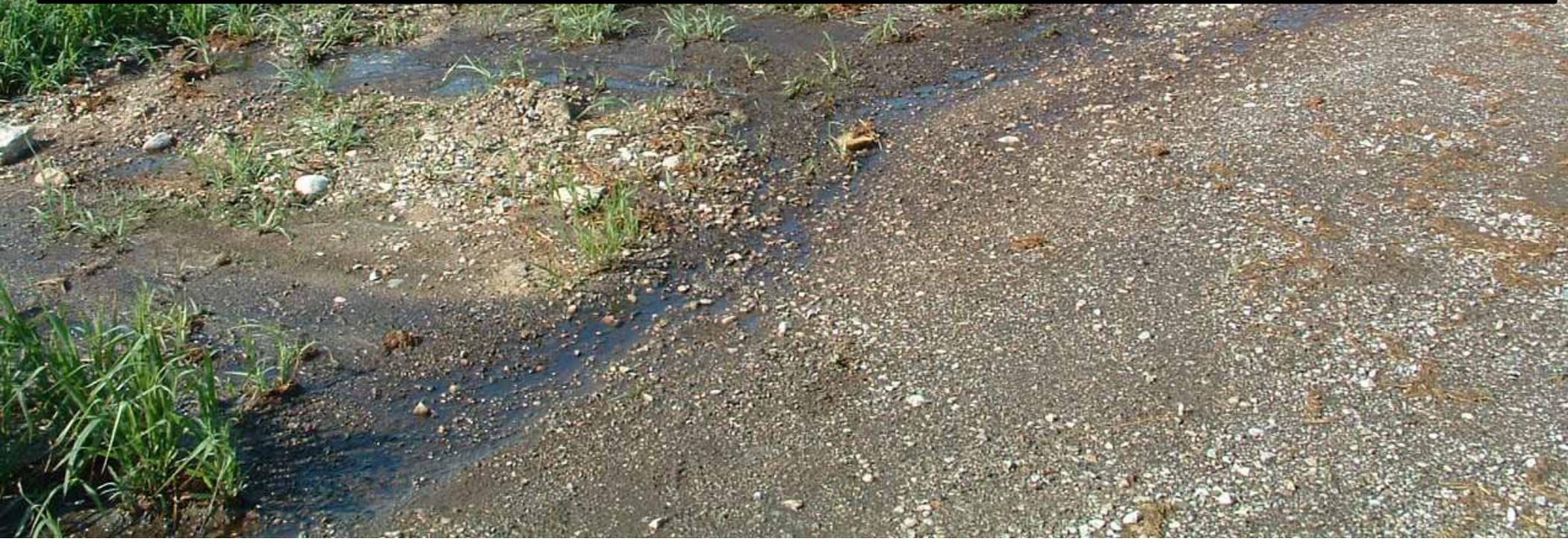
Annual flood

Normal flow

New ground-line



Bunker Silage Leachate Treatment Project

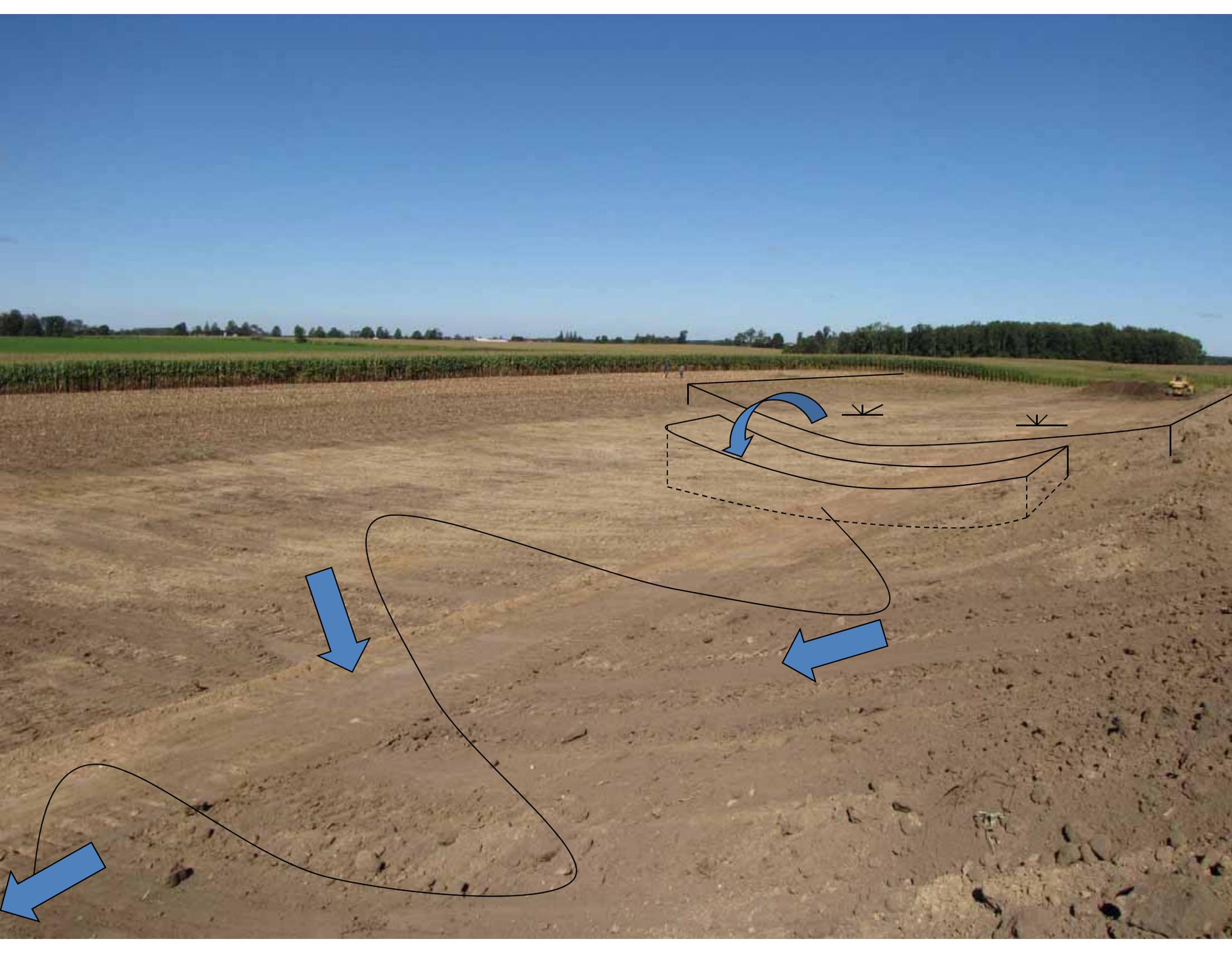






e

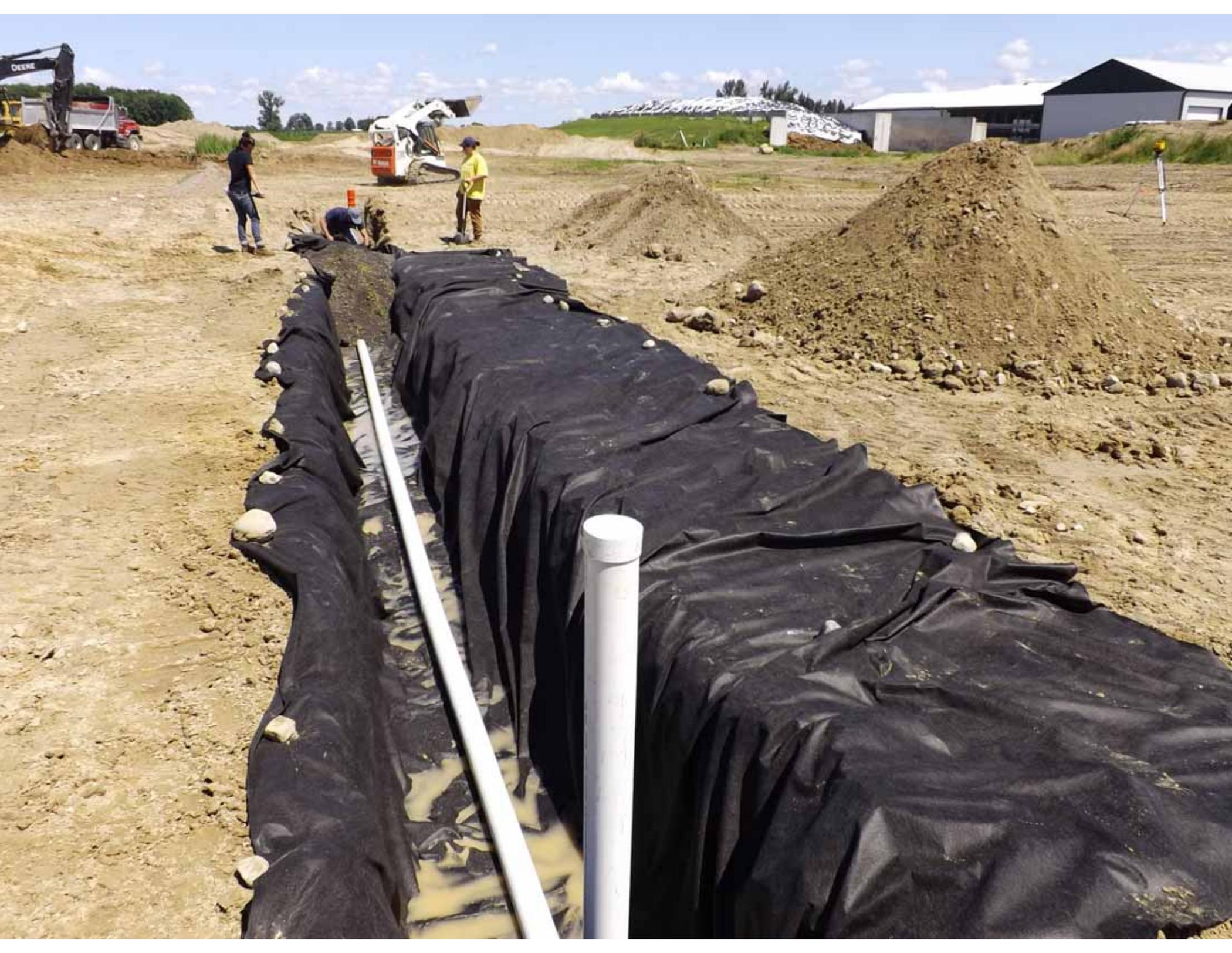






Slag: bi-product from the steel industry











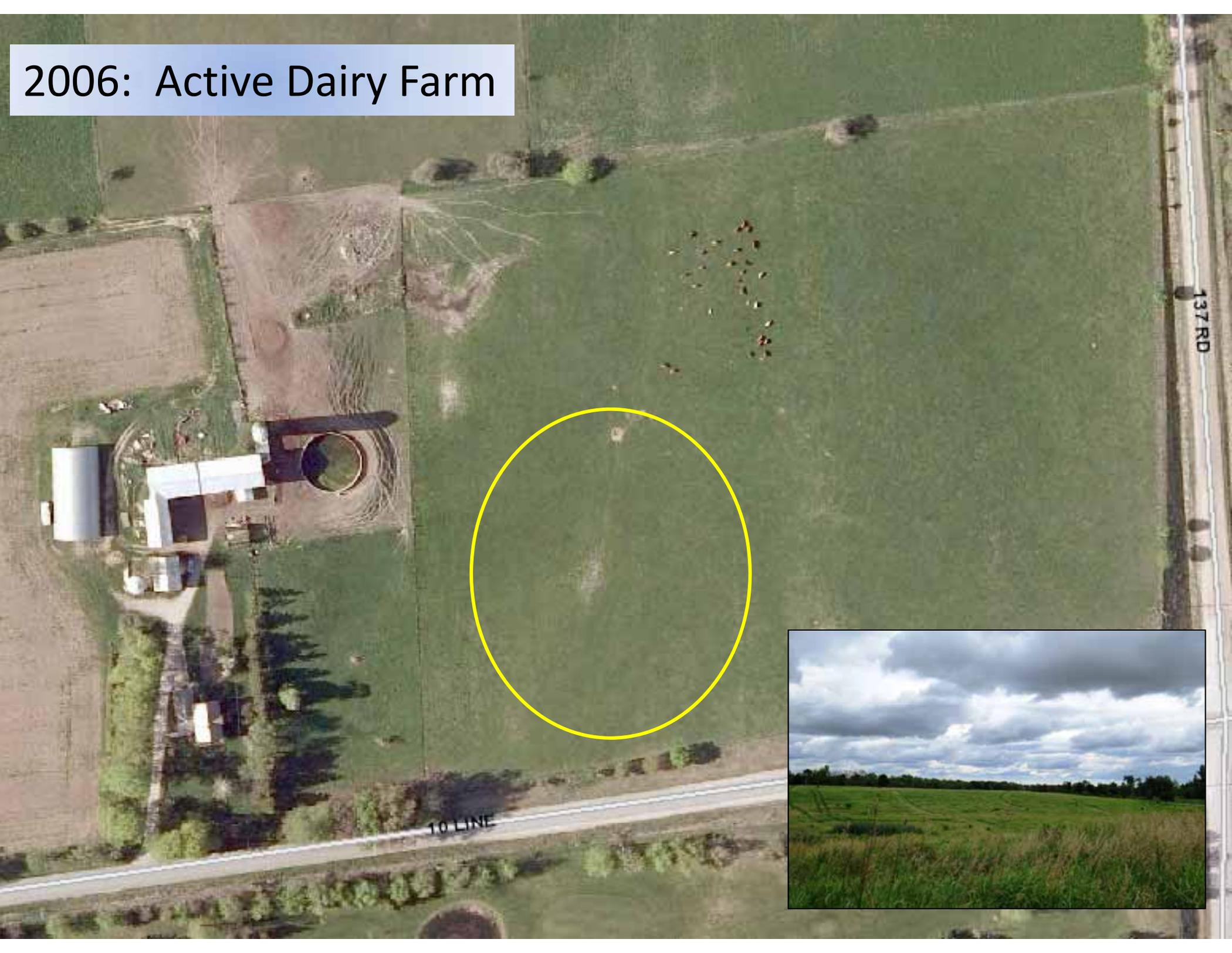




Wetland Restoration Project



2006: Active Dairy Farm





2.5 m

In-line flow control structure



In-line flow control structure





Sub-irrigation (Controlled) Drainage Project



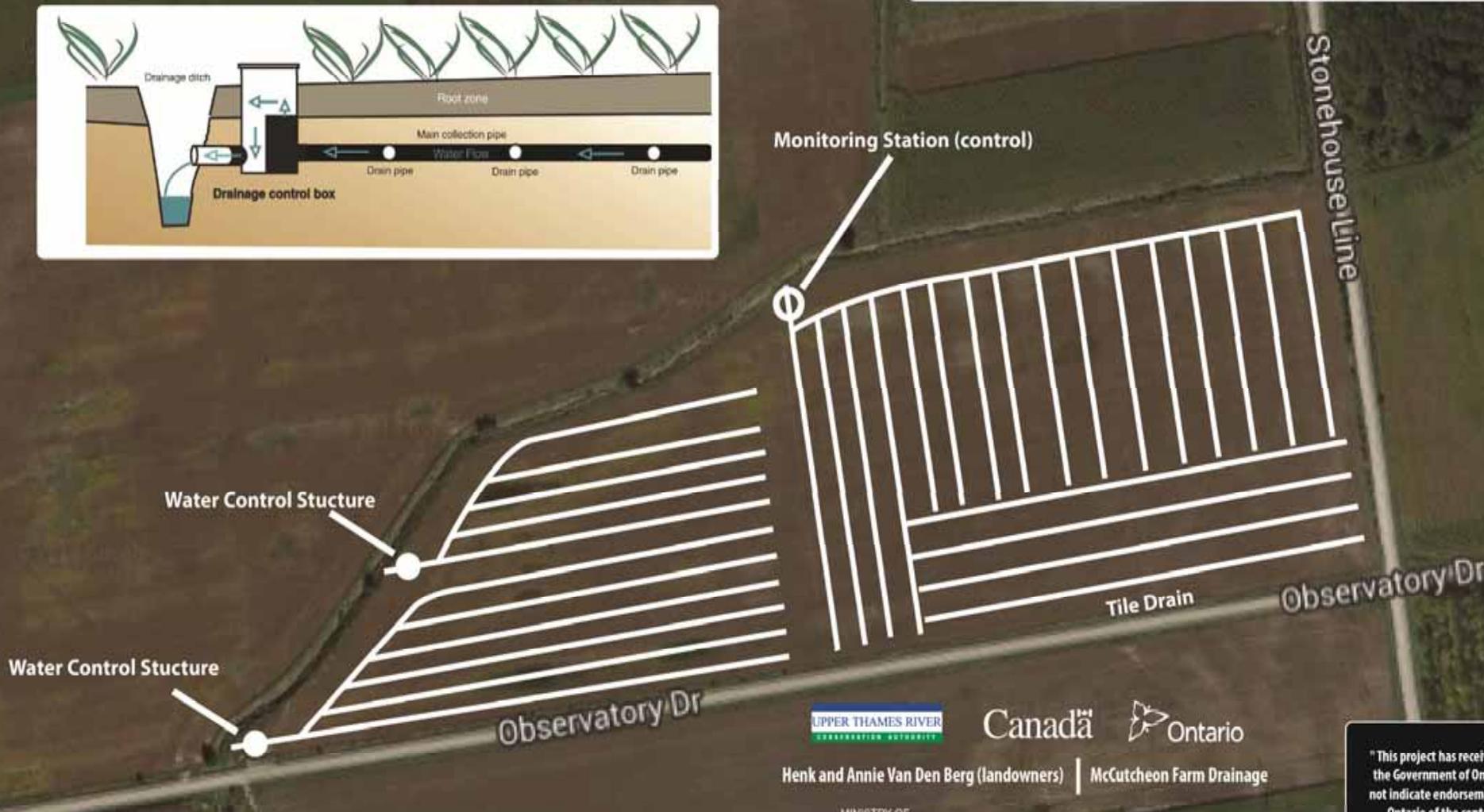
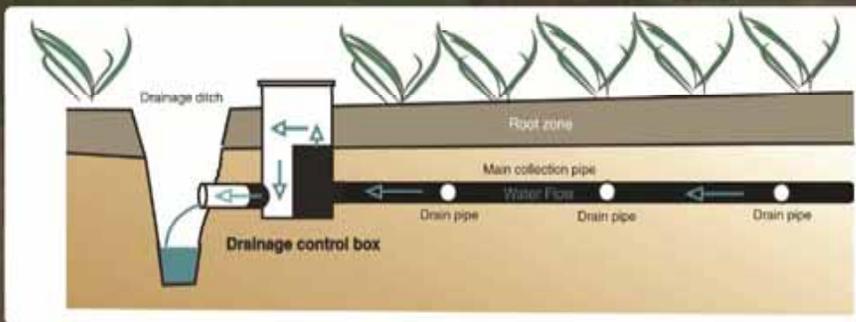


Controlled Tile Drainage Project

Controlled Drain Structure - Benefits:

- Keeps nutrients such as phosphorus from reaching waterways
- Retains water in field during dry summer months
- Potential to increase crop yield by up to 15%

Phosphorus has been identified as the number one issue for Lake Erie. The UTRCA and partners are working to reduce phosphorus in the Thames watershed, which drains into Lake St. Clair and, eventually, to Lake Erie.



UPPER THAMES RIVER
REGULATION AUTHORITY

Canada Ontario

Henk and Annie Van Den Berg (landowners) | McCutcheon Farm Drainage

MINISTRY OF ENVIRONMENT & CLIMATE CHANGE

"This project has received funding support from the Government of Ontario. Such support does not indicate endorsement by the Government of Ontario of the contents of this material."







A photograph of water flowing over a series of grey, rounded rocks in a stream. The water is captured with a slight motion blur, creating a sense of movement. Green grass and other vegetation are visible along the banks of the stream.

Developing and Demonstrating Innovative Best Management Practices

- Phosphorus Filter/Wetland
- Farm-based Storm Water Management
- Bunker Silage Leachate Treatment
- Wetland Restoration
- Controlled Drainage

Brad Glasman
Craig Merkley