

# Overview of Today's Update

- Welcome!
- Part 1:
  - R2E2 Update
  - Adaptive Management
  - Budget Process
  - Billing Methodology
  - Toilets Not Trashcans
- Part 2:
  - Interceptor System Master Plan





# R2E2 Update







# R2E2 Contract 34 Update

- Project to construct Anaerobic Digestion & Solids Facility
- Completed HSW receiving roadway
- Completed excavation of new solids building & digester area
- Completed digester supportive piling
- Began concrete placement for solids facility base slab
- Began construction of HSW storage rooms
- Executed Change Orders #1, 2, and 3 for net reduction to contract in the amount of \$1,218,795



















# Contract 34 Proposed Timeline

#### • 2016

- Complete solids building enclosure, start mechanical and electrical installation
- Start construction of fluid bed incinerator and placement of sludge dryer
- Digester cone and skirt wall / base slab / gallery construction
- Biogas building construction
- New septage receiving complete

#### • 2017

- Digester wall construction, covers placed, mechanical & electrical installation
- Continue solids facility process mechanical & electrical installation
- Continue construction of fluid bed reactor and air pollution control equipment
- Ash dewatering cells construction
- Biogas storage & treatment mechanical installation
- Solids facility testing/training/startup

#### • 2018

- Digestion & biogas facilities testing/training/startup
- Nutrient extraction system testing/training/startup
- August 2018 Final Completion





# **GBF** Disinfection Project Update

- Replacing chemical disinfection & dechlorination equipment and piping
- Chlorination distribution, feed equipment & piping largely complete
- Dechlorination feed equipment & piping largely complete
- Startup, testing, training coming in March
- Substantial completion expected April 1, 2016















## Silver Creek Pilot Project

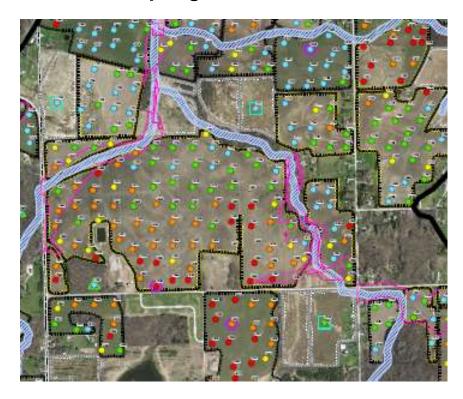




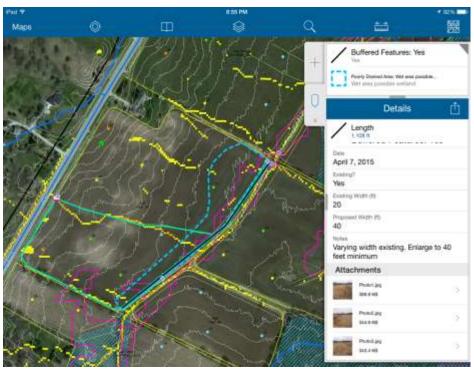


## 2015 – A Year of Inventory

#### **Soil Sampling**



### **Comprehensive Field Evaluations**



108 Fields sampled – 2.5 acre grid

ArcGIS Collector – tablet application





## 2015 – A Year of Inventory

### **Conservation Planning Meetings**



 Agronomists, County, Oneida, NRCS, CH2M, NEW Water Staff

### **Grazing & Wetland Planning Meetings**



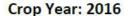


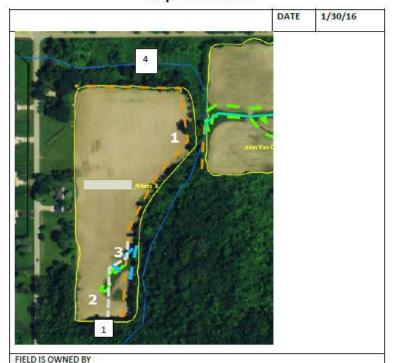




### **Conservation Plans**

#### CONSERVATION & ENHANCED NUTRIENT MANAGEMENT PLAN





THE BLUE LINE OF THE CREEK IS BELIEVED TO OVERBURDENED WITH VEGETATION AND

THIS FIELD AND ALBERS-2 ARE RUN THE SAME.

CAUSING WATER TO BACKUP ON THE ALBERS 2 AND 3 FIELDS.

- Structural Practices
  - Grassed Waterways
  - Buffer Strips
  - Critical Area Plantings
- Operational Practices
  - Cover Crops
  - Reduced till/no till
  - Crop rotation modification
  - Precision nutrient application
  - Etc
- Nutrient Management Plan





## Winter 2016 - Planning

#### **Wetand Site Plans**



### **Grazing Site Plans**







## Next Steps – 2016

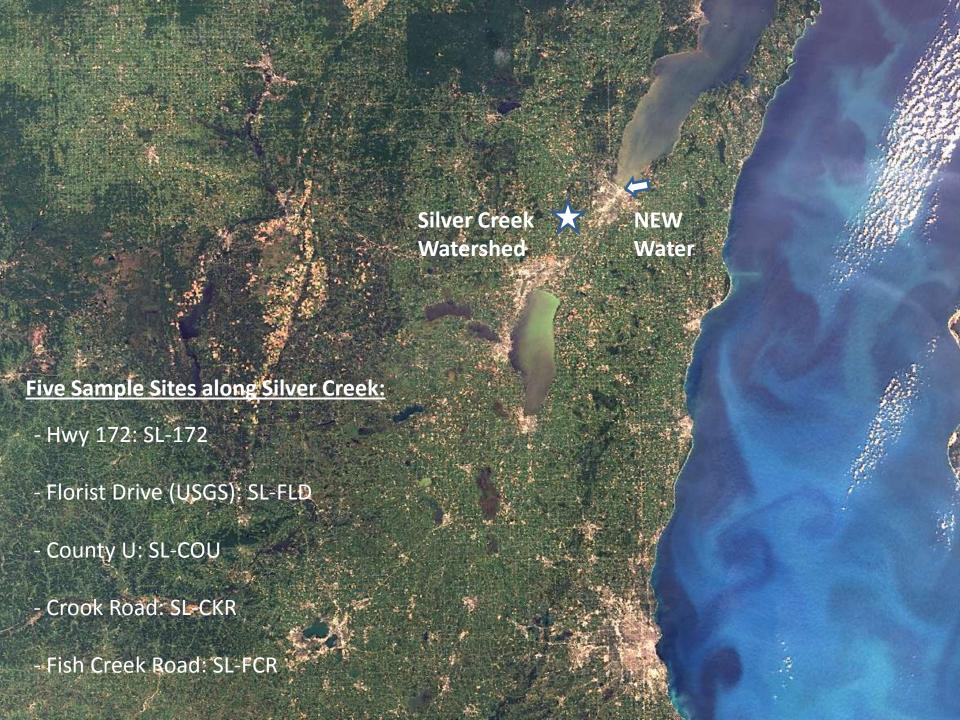
- March 4 NRCS EQIP Funding Applications
- "Kitchen table" meetings with growers and owners
- Refine Conservation Plans and Enhanced Nutrient Management

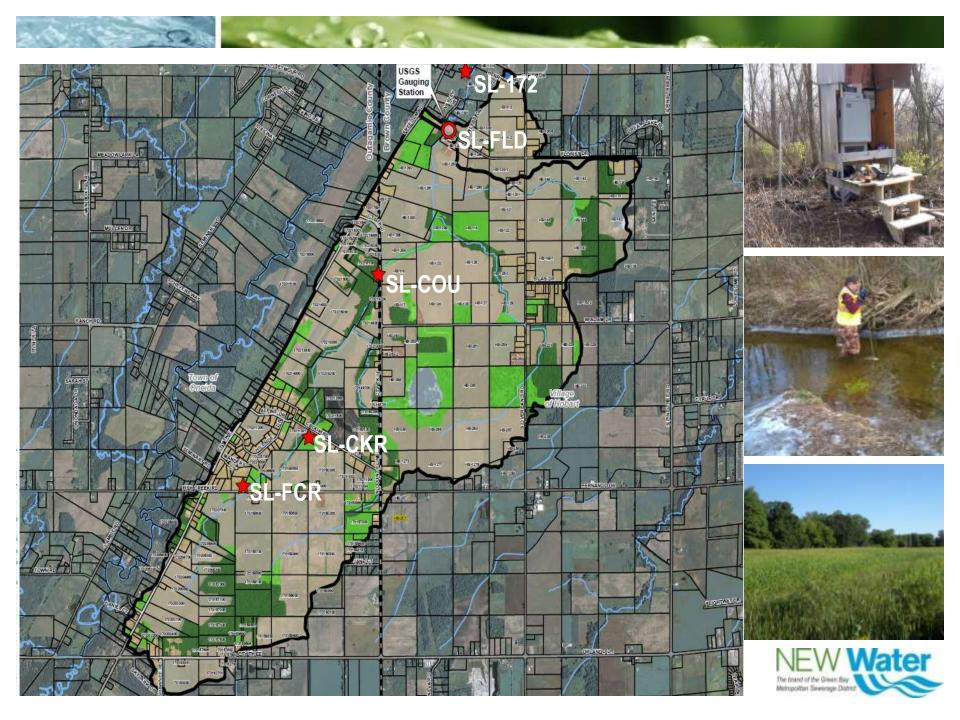
Plans

- Cost-Share Agreements
- Installing practices
- Wetland restoration
- Establish grazing operation

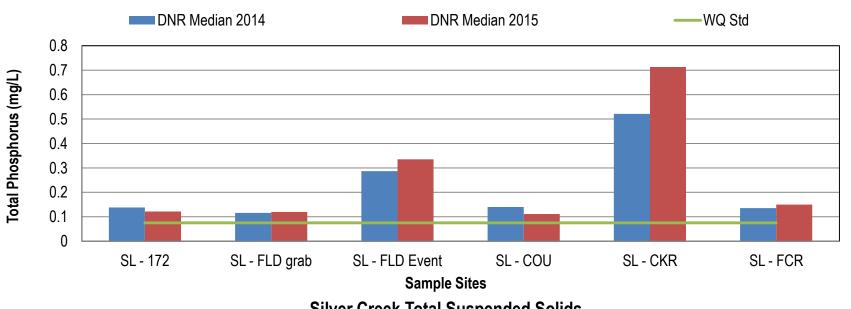




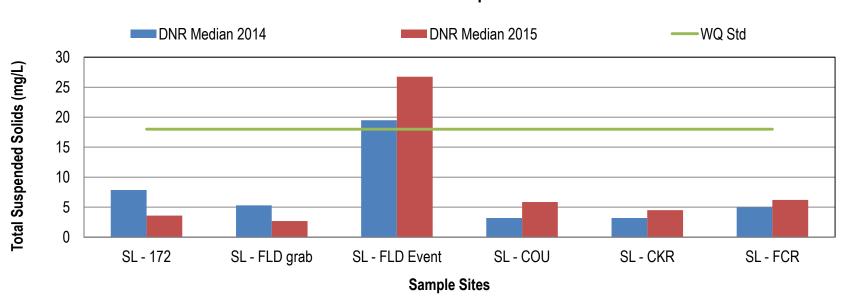


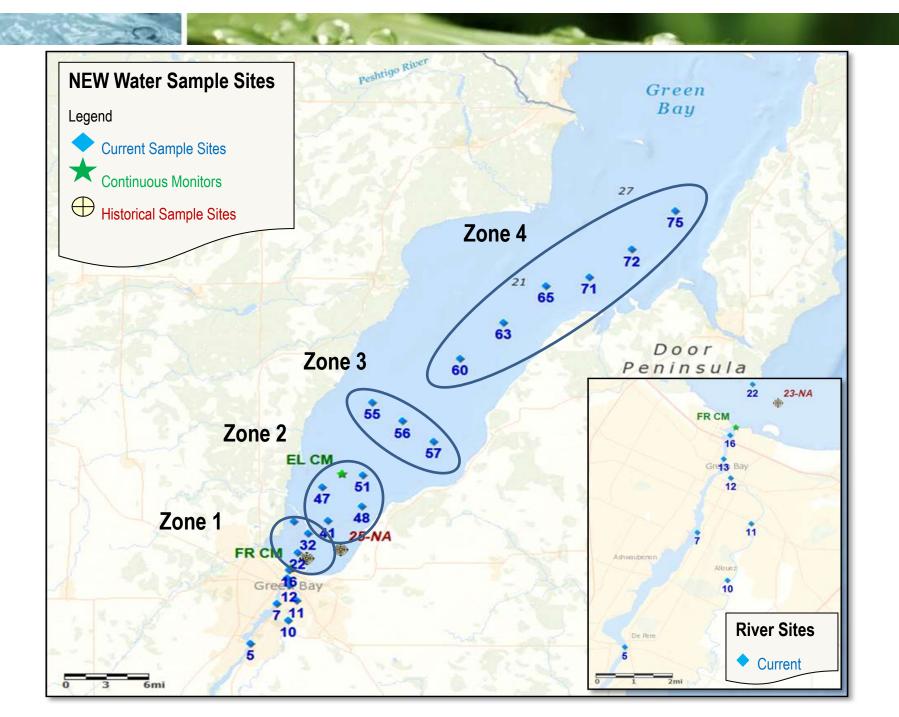


#### **Silver Creek Total Phosphorus**



#### **Silver Creek Total Suspended Solids**

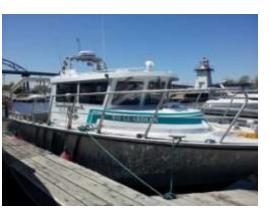




## **Aquatic Monitoring Program**

### Continuous Monitoring Stations

- Mouth of Fox River & Lower Green Bay
  - Temperature
  - Dissolved Oxygen
  - Specific Conductivity
  - pH



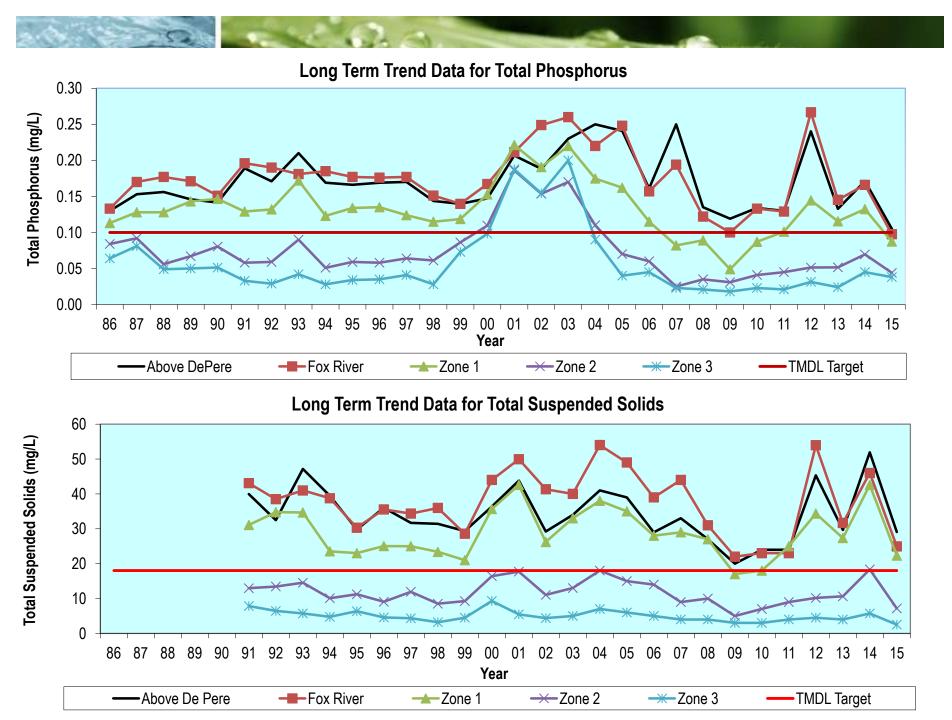


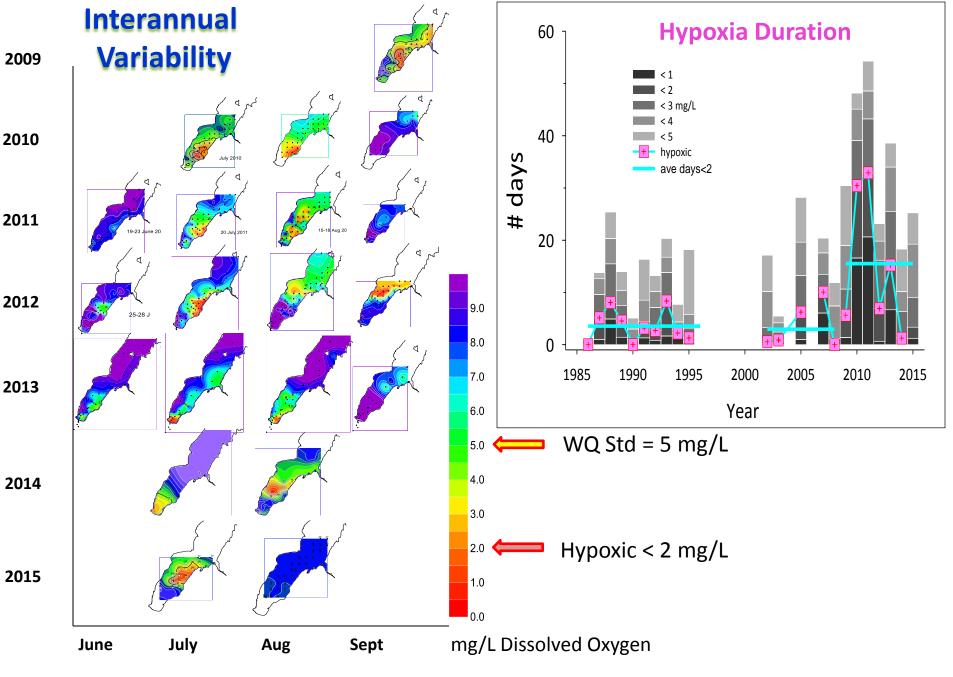
### Grab samples

- Sampled every week, May-Oct
  - Nutrients: phosphorus, nitrogen, chlorides
  - pH
  - Chlorophyll
  - Suspended solids
  - Turbidity
  - Secchi depth









.. major driver → nutrient loading → algal production









## Other Updates

- Budget Process
- Billing Methodology
- Toilets Not Trashcans
- Short break... then Interceptor System Master Plan







# Interceptor System Master Plan

