Water Quality Monitoring, Beaufort County

Project Status Update

for the

Beaufort County Storm Water Management Utility Board

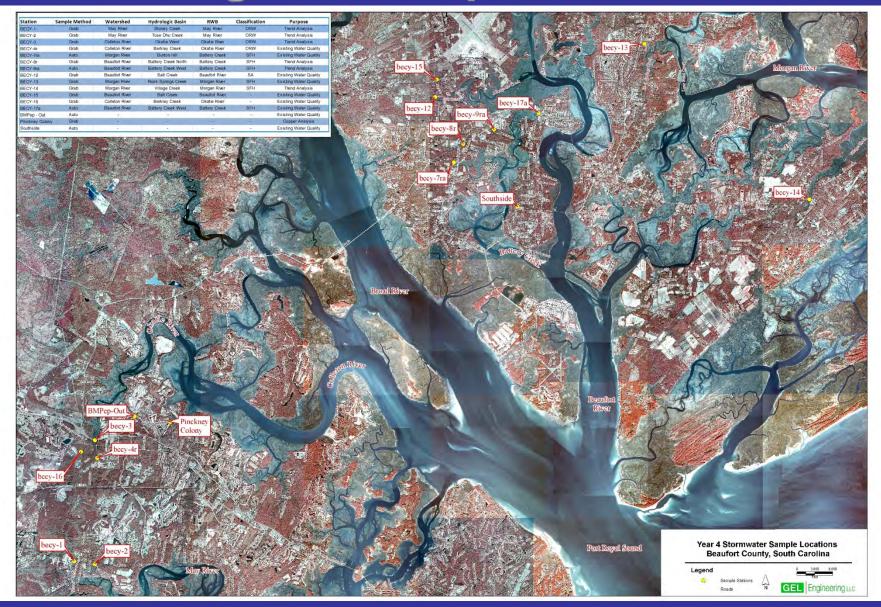
December 7, 2011



Year 4 Draft Annual Report

- Changes in Sample Locations
- Expanded Copper Evaluation
- Sediment Sampling Fecal Coliform
- Conclusions and Recommendations

Changes to Sample Locations



Eagles Pointe Copper Evaluation

- Copper Sulfate Application Sampling
 - Copper Concentrations remain highly elevated for approximately 24-hours
- Biotic Ligand Model (BLM)
 - Results infer copper concentrations would be below toxic levels 24-hours after copper sulfate applications
- Eagles Pointe Operational Solution
 - Hold water for 24-hours following copper sulfate application

Fecal Coliform in Sediments

- 1st Set of Samples
 - Fecal coliform (FC) not prevalent in the subsurface sediment samples
 - Elevated values in some surface areas, but not widespread
- 2nd Set of Samples (Before and After BJWSA Pump Test)
 - Elevated in some areas, but not widespread
 - No obvious trend before/after
- Decision to Discontinue Sediment Sampling

Bacterial Source Tracking (BST) No BST occurred in Year 4

Year 4 Existing Water Quality

- All stations continue to have elevated FC
- Excluding FC, no widespread, consistent water quality issues
- At least 3 years of consistent water quality data obtained for multiple sample stations

Recommendations and Observations

- No recommendations for the relocation of sample stations
- Locate new BMP efficiency site
- Relocate BECY-1A and BECY-4A (Runoff Sites)
 - High/Medium Density Residential or Industrial/Heavy Commercial Site

Questions?