Kawkawlin River
Watershed Planning
Stakeholder Meeting #2
January 22, 2009

Presentation by:
Joseph Rivet, Bay County Drain Commissioner
Spicer Group, Inc.

Slide 2 Meeting Agenda

- Review watershed facts
- Review past meeting comments
- Review goals for the watershed
- Set up Technical Committees
- Stakeholder meeting dates
- Actions items for next stakeholder meeting

Slide 3 The "Watershed"

- Watershed facts
  - 225 square miles
  - 37 miles long
  - 450 miles of tributaries
  - 4 counties, 3 cities
  - 14 townships
  - 30+ stakeholder groups

Slide 4 Plan Goals

- Develop a plan that identifies and prioritizes environmental concerns along the Kawkawlin River

- Identify measures and enhancement projects in the plan to address concerns along Kawkawlin River

- Leverage plan to obtain future funding for implementation of measures to address concerns

Slide 5 Concerns/Comments Last Mtg.

- Restoration of river, use of DU and SB Walleye Club
- Improvement of warm water fishery, walleye and perch
- Sediment loads
- Increase participation in CREP and other vegetated buffer programs – education
- Looking at zoning changes

Slide 6 Concerns/Comments

- Look at Agricultural Practices and education
- Water Recreation and public access
- Wildlife and fisheries

Slide 7 Desired Uses

- Agriculture
- Warm-water fishery
- Recreational opportunities
- Body contact (full or partial?)
- Other desired uses

Slide 8 Goals for the Watershed

- Protect and improve the warm water fisheries and conditions for the river system.
- Protect and improve habitat and conditions for other aquatic life and wildlife along the river.
- Determine causes and correction of sediment loading in the river
- Identify and protect quality natural features including forested areas, floodplains, wetlands, riparian buffers, contiguous greenway buffers

Slide 9 Goals for the Watershed

- Provide for flood management
- Provide and improve water recreation opportunities and public access to the river
- Preserve rural character (farmland and open spaces) of the watershed.
- Maintain and/or increase the aesthetics of the water resources

Slide 10 Tasks Accomplished

- Identification of stakeholders and first meeting
- Existing Watershed data compilation and development of map sets

Watershed delineation	Land Use
Soils	Geologic
Population	Base Flow
Hydrologic / hydraulic	Stream Order
Current and 1938 aerials	

Slide 11 Tasks Accomplished

- Obtain Flow estimates at twelve locations – pending
- Initial corridor assessments started
- 1948-51 survey and cross section data scanned.
- Obtained 1938 aerial photos for the Kawkawlin for comparative analysis of channel

Slide 12 Man-made changes
Picture

Slide 13 Channel Changes
Picture

Slide 14 Erosion
Picture

Slide 15 Technical Sub-committees

- Provide review and comments of data collected, reports, studies.
- Further develop goals and objectives
- Review Best Management Practices (BMPs) and make recommendations
- Report back at Quarterly meetings.

Slide 16 Technical Subcommittees

- Identify data gaps and collect additional data
- Set goals and identify load reductions
- Identify possible management strategies
- Evaluate options and select final strategies

Slide 17 Sub-committees:

- Pathogen / Nutrient Management
  - Chair – Joel Strauss
- Water Course Assessment
  - Chair – Russ Beaubien
- Corridor Assessment
  - Chair – Jim Hergott
- Public Outreach
  - Chair - Joseph Rivet

Slide 18 Pathogen / Nutrient Mgt.

- E.coli assessment, summary of causes.
- Coordinate and compile existing data development of a map summarizing results of sanitary service investigations
- Coordinate GIS database tracking system for water quality testing
- BMP investigation and recommendations

Slide 19 Water Course Assessment

- Includes Geomorphology, hydrology, hydraulics and floodplain assessment
- Identification of Critical areas and review
- Identification of Causes / Sources
- BMP review and recommendations

Slide 20 Corridor Assessment

- Wetland Assessment
- Riparian Corridor Ecological assessment
- Identification of critical areas
- Identification of causes / sources
- BMP review and recommendation

Slide 21 Public Outreach

- Develop website communication
- Public communication / information
- Public education development
- Solicit public comment and use surveys to gather information
- Recommend targeted audiences for education
- BMP review and recommendations

Slide 22 Action Items for Next Meeting

- Technical Committees begin meetings and provide initial progress reports
- Review of sources and causes of pollutant loads, Prioritization
- Review of critical areas (if identified)

Slide 23 Public Meetings

- **Public Meeting 3**
  - April 2009 (Location and Date, To Be Announced)
  - Communication from Technical Committees
- **Public Meeting 4**
  - July 2009 (Location and Date, To Be Announced)

Slide 24 Information for Participation

- **Come to the Watershed Meetings**
- **Contact Your Local Government Representatives – See if They Are Involved!**
- **Check the Web Site as information becomes available:**

www.baycounty-mi.gov/DrainCommissioner/KawkawlinRiverWMP.aspx