

# Kawkawlin River Watershed Planning

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Spicer Group, Inc.



Office of Bay County Drain  
Commissioner



# Meeting Agenda



- Report on Farm Bureau meeting
- Draft BMPs
- Determination of desired uses for watershed
- Determination of impairments or threats
- Determination of pollutants, sources and causes

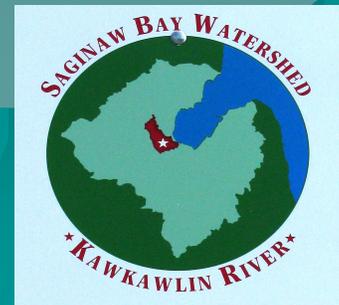
# Meeting Agenda



- Prioritization of pollutants
- Revised results of Agricultural Survey
- Next Meeting Date:

# Meeting with Farm Bureau

- Very well attended and productive
- Representative to attend stakeholder meetings – Duane Scheuerlein
- Drafts of BMPs begun, need to meet again for more input. Drafts also provided to Corridor Committee for review



# COMMITTEES

- 💧 Watercourse
  - 💧 Next Meeting - February 11
  - 💧 BMP review
- 💧 Corridor
  - 💧 Revised Survey completed
  - 💧 BMPs to review
- 💧 Nutrient

# Your Concerns/Comments



- 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

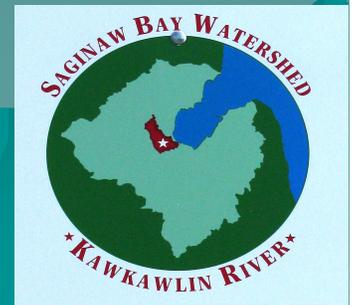
# Your Concerns/Comments



- Look at Agricultural Practices and education
- Water Recreation and public access
- Wildlife and fisheries
- Look at human use of river for recreation, economics, aesthetics

# Any Other Comments or Concerns

- For Example – excessive aquatic plant growth, sediment removal
- More....



# Designated Uses that you want to see for the Kawkawlin

- Navigation
- Fishing, recreation, etc.....others?
- Handout



# Impaired Uses



- Body contact full and Partial
- Navigation lower reaches and N. Branch
- Flood control - link Wetland
- Warmwater fishery – S Branch
- Main and South branches – macro invertebrates
- Low DO – North Branch and Culver Creek

# Threatened Uses



- To be determined later

# Pollutants

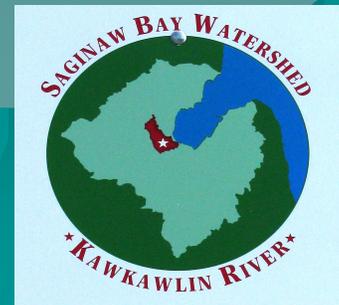


- ⦿ Sediment
- ⦿ Nutrients
- ⦿ E.coli
- ⦿ Hydrocarbons (pipe crossings)
- ⦿ Pesticides/herbicides
- ⦿ Hydrology
- ⦿ Garbage, floatables and other solids
- ⦿ NPS electrical current
- ⦿ Temperature
- ⦿ Airborne toxics

# Pollutants/Problems – PRIORITIZED

## Based on results from meeting

1. Pathogens (E.coli)
2. Sediments
3. Nutrients
4. Flooding
5. Excessive aquatic plant growth
6. Altered hydrology
7. Channel blockage
8. Low Dissolved Oxygen
9. Herbicides, pesticides
10. Brine, Petroleum products, deicers, metals,
11. Pipeline crossings
12. Garbage, other solids
13. Temperature
14. Airborne toxics
15. NPS electric current



# Pollutant Sources



- To be determined

# Pollutant Causes

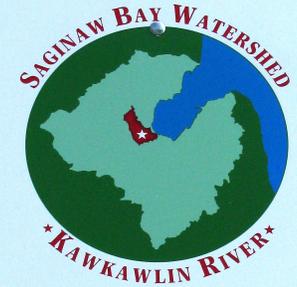


- To be determined

# EDUCATION PRIORITIES

- 🔹 Hobby Farm Education
  - 💧 Small stables / livestock operations
  - 💧 Small produce growers
- 🔹 Riparian Owner Education
- 🔹 Urbanized Area Education
- 🔹 On-Site Treatment System Education

# NEXT MEETING



- STAKEHOLDERS - April 19, 2010, 3:00 p.m. @ Monitor Twp Hall
- DNRE to present final Wetlands information.
- WATERCOURSE Meeting – Feb. 11
- CORRIDOR Meeting – TBA
- Education Committee – March TBA