Fox River Implementation Plan
Kick-Off Meeting

Prepared for the Fox River Study Group

December 11, 2013
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**Agenda:**

- Team introduction
- Scope overview
- Communications
- Information needs
- What’s next
- Questions
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Team Introduction
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Project team:

- **Fox River Study Group**
  - **Illinois State Water Survey**
    - Water Quality Leader
      - Dave Dilks, PhD
  - **Scott Bell, PE**
    - Project Manager
  - **Implementation Plan Leader**
    - Penelope Moskus
  - **Regulatory Assessment Leader**
    - Hans Holmberg, PE
- **WWTP Engineering**
  - Bernie Held, PE
- **Urban NPS Controls**
  - Tim Towey, PE
- **Rural NPS Controls**
  - Amanda Flynn
- **General IP Support**
  - Dave Pott
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Project team:

• Scott Bell, Project Manager
  – Main point of contact for FRSG, ISWS, Subs, IL EPA
  – Plan, direct, manage, review all work

• Dave Dilks, Water Quality Leader
  – Water quality & modeling expert
  – Secondary point of contact for ISWS
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Project team:

• Penelope Moskus, Implementation Plan Leader
  – Task manager for implementation plan development
  – Alternate point of contact for FRSG, Subs, IL EPA
  – Assist PM in directing work, tracking progress, trouble-shooting
  – Heavily involved in designing, writing & editing plan
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**Project team:**

- Hans Holmberg, Regulatory Lead
  - Senior consultant for Clean Water Act compliance and water quality endpoint evaluation
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Project team:
- Bernie Held (CMT), WWTP Evaluation Lead
  - Lead CMT’s review of WWTP evaluations
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Project team:

• Tim Towey, Urban NPS Controls
  – Lead identification and assessment of urban non-point source controls
  – Support all technical aspects of project
• Amanda Flynn, Rural NPS Controls
  – Lead identification and assessment of rural non-point source controls
  – Lead HSPF Model review & application
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Project team:
• Dave Pott (Baetis), general project support
  – Information gathering, compilation, synthesis, writing
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Scope Overview
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Goals:

• Develop a watershed-based plan for improving water quality in the Fox River
• Provide an alternative to a TMDL
• Address dissolved oxygen issues and excessive algal growth
• Look at all sources of pollutant loading (point and non-point), as well as dam removal
• Identify annual load reduction targets for all sectors (WWTPs, MS4s, etc.)
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Goals:
• Approvable by IEPA and USEPA
• Implementable, realistic actions
• Achievable permit limits and conditions
• Broad stakeholder support
• Affordable
• Built on sound science
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Process:

1. Confirm WQ Targets
2. Evaluate P Loading Sources
3. Evaluate Actions
4. Develop, model and evaluate alternative scenarios
5. Identify Recommended Alternative
6. Write Implementation Plan
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Process:

• Identify management practices at the subwatershed or municipality scale

• Develop and evaluate alternatives
  – Effectiveness (using a water quality model)
  – Implementability (practical and regulatory considerations)
  – Cost (planning level estimates)
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Process:

• What isn’t involved:
  – Not looking at water quality concerns other than dissolved oxygen (e.g., bacteria)
  – Not going to prescribe actions below the subwatershed scale
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Process:

**Phase 1: Refine WQ Targets**
- Task 1: Kick-off workshop with FRSG
- Task 2: Assess and define water quality targets
- Task 3: Review model and recommend adjustments if needed

**Phase 2: Develop Load Reduction Alternatives**
- Task 4: Second workshop with FRSG
- Task 5: Model revised loading scenarios
- Task 6: Develop alternatives to attain water quality goals

**Phase 3: Prepare Watershed Implementation Plan**
- Task 7: Third workshop with FRSG
- Task 8: Prepare Draft WIP

**Phase 4: Finalize Watershed Implementation Plan**
- Task 9: Fourth workshop with FRSG
- Task 10: Prepare Final WIP
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Process:

**Phase 1: Refine WQ Targets**
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**Phase 4: Finalize Watershed Implementation Plan**
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Process:

Phase 2: Develop Load Reduction Alternatives

Prioritize control actions, find the right mix.

The system data and models will help identify the most effective actions.
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Process:

Phase 2: Develop Load Reduction Alternatives

Select alternatives – implementability

• Can the alternative be realistically implemented?
• Does the alternative comply with State and Federal regulations?
• What permitting/approval will be required?
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Process:

**Phase 2: Develop Load Reduction Alternatives**

Select alternatives – Cost/Benefit/Affordability

- What will the alternative **cost**?

- Does the benefit justify the cost?

![Graph showing capital cost in millions versus percent of river miles meeting WQS](image)
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Deliverables:

• Workshop materials
  – Three major workshops
  – Presentations & notes

• Meeting presentation materials & notes
  – Project status meetings
  – Fox River annual meeting
  – Presentations & notes
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**Deliverables:**

- Technical memoranda
  - Task 2: Water quality target review
  - Task 3: Model review
  - Task 5: Model loading scenarios
  - Task 6: Load reduction scenarios

- Implementation plan
  - Draft & final
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## Schedule:

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<thead>
<tr>
<th>Task No.</th>
<th>Task</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
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<td></td>
<td>Nov</td>
<td>Dec</td>
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<td>Kick-off meeting</td>
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<td>Assess and define water quality targets</td>
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<td>Review model and recommend adjustments (if needed)</td>
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<td>First workshop with FRSG</td>
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<td>Model revised loading scenarios</td>
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<td>Develop alternatives to attain water quality goals</td>
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<td>Second workshop with FRSG</td>
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<td>Prepare Draft WIP</td>
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<td>Third workshop with FRSG</td>
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<td>Prepare Final WIP</td>
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Communications
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Communications:

• Monthly project status reports (PSRs):
  – Work completed this month
  – Worked expected next month
  – Deliverables
  – Issues/challenges
  – Budget status

• These PSRs will accompany each invoice.
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Communications:
• Regular project/status meetings
  – We suggest monthly (with option to reschedule)
  – Some face-to-face, some via phone
  – Will use Webex as needed
  – Skype optional
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Communications:

• Information sharing
  – LimnoTech → FRSG Board
    • E-mail
    • Project Sharefile site
  – FRSG Board → FRSG Members & stakeholders:
    • FRSG web site
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Information Needed
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Information Needed:

• Documents
  – For now, compiling documents from FRSG & ISWS
  – We’ll need to get copies of other documents later...
    • Permits
    • CSO LTCPs
    • Other regulatory document
    • Facility plans
    • Relevant reports/plans prepared by municipalities, NGOs, etc.
  – Will work through FRSG to get documents or contacts
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Information Needed:

• Contacts
  – It will not be practical to always work through FRSG as questions arise.
  – It would be helpful to have a point of contact to reach FRSG member organization.
  – Also need IL EPA contact
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What’s Next
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What’s Next:

• Working on Tasks 2 (water quality target review) & 3 (model review)
• Identify specific data/document needs
• Schedule project first workshop in February
• Finalize detailed project schedule, including meetings and FRSG review times
  – Propose sending draft for review and then discussing in early January
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Questions?