Welcome!

Medicine Lake Excess Nutrients
TMDL Project
Steering Committee Meeting #2
January 8, 2009

Photo by: Terrie Christian—President, AMLAC
Agenda

4:00 – 4:10  Welcome and Introductions
4:10 – 4:15  Review schedule and previous decisions
4:15 – 5:00  Identify criteria for decision-making
5:00 – 5:30  Presentation on water quality modeling assumptions, methods, and outputs
5:30 – 5:45  Linking the criteria to modeling (next meeting??)
   - How are criteria used in the modeling efforts?
   - Does the uncertainty of the model affect the criteria?
5:45 – 6:00  Next steps
   - What technical information is needed?
   - What topics need additional information
6:00       Adjourn
Previous Decisions

Meeting schedule

2\textsuperscript{nd} Thursday of the month
4:00 – 6:00

Use Doodle (web-based scheduler) if necessary to modify schedule on an ad hoc basis
Schedule

- Training to educate the Steering Committee on key decision issues.  
  **January 8th, 4:00-6:00 – French Regional Park visitor’s center**

- Discuss and the model calibration/validation and model phosphorus loading results, total loading capacities  
  **March 12th, 4:00-6:00 – French Regional Park visitor’s center**

- Discuss and determine potential improvement options and implementation planning; methods for setting load and wasteload allocations in the watershed.  
  **April 9th, 4:00-6:00 – French Regional Park visitor’s center**

- Training to educate the Steering Committee on key decision issues.  
  **May 14th, 4:00-6:00 – French Regional Park visitor’s center**

- Discuss and determine BMP and lake improvement option modeling results, margin of safety, allocations of total phosphorus loading capacity.  
  **June 11th, 4:00-6:00 – French Regional Park visitor’s center**

- Discuss comments and questions about draft TMDL report and Implementation Plan, including long-term monitoring plan recommendations.  
  **July 9th, 4:00-6:00 – French Regional Park visitor’s center**

- Public meeting prior to official public notice process to discuss final draft TMDL report and Implementation Plan.  
  **September 10th, 6:00-7:30 – French Regional Park visitor’s center**
Steps to good decisions

1. Define the goal
2. Set the decision criteria
3. Use analytical tools (models) consistently with the criteria
4. Review analytical results against criteria
5. Finally, decide
1. Determining Goals

Step 1 - Define the goal

What are appropriate goals?

- Achieve world peace through improved water quality?
- Restore the Medicine Lake watershed to pristine quality?
- Allocate pollutant loads and select best management practices?
2. Developing Criteria for Decision-Making

What are “criteria”?

- Standards for making sure decisions are consistent with your goals and transparent to stakeholders
- Standards that are set prior to the actual decision-making
2. Developing Criteria for Decision-Making

- What are “criteria”?  
  - Recent examples of criteria in a decision-making process . . .
  - What marks on the ballot indicate voter “intent”?  
  - When should absentee ballots be counted as “improperly rejected”?  

Minneapolis Pollution Control Agency
1. Determining Goals

Step 1 – Define goals

- Allocate pollutant loads
- Choose best management practices to meet allocations
2. Example Criteria for Decision-Making

Step 1 – Define goals
- Allocate pollutant load
- Choose best management practices to meet allocations

Step 2 – Set decision criteria, e.g.:
- Allocation must be politically acceptable
- Allocation must be equitable
- Allocation must minimize associated cost
- Allocation should punish cities who don’t show up for the meetings
2. Example Criteria for Decision-Making

**Step 1 – Define goals**
- Allocate pollutant load
- Choose best management practices to meet allocations

**Step 2 – Set decision criteria, e.g.:**
- Least costly practices
- Improves amenity value of the Lake (habitat, visual appearance, etc)
- Best removal efficiency
- Uses facilitation consultants
2. Develop Criteria for Decision-Making

Let’s create some draft criteria . . .

- Everybody identifies two criteria for each of these goals:
  - Allocate pollutant load
  - Select best management practices
- Discuss your choices in small groups; decide on two criteria per goal for your group
- Tell the large group what your small group selected
2. Develop Criteria for Decision-Making

Let’s create some draft criteria . . .

- Pass out the index cards at your table, two per person
- Write the goal at the top of the card
  - Allocate pollutant load
  - Select best management practices
- Write down two criteria for each goal
2. Develop Criteria for Decision-Making

Let’s create some draft criteria . . .

- Break into small groups – please sit with a group you are not fully acquainted with and ensure that there is a mix of technical and policy folks
- Each person takes a turn to read their draft criteria
- Select two criteria for each goal that the group agrees on
2. Develop Criteria for Decision-Making

Let’s create some draft criteria . . .

- Pick someone to read your small group’s draft criteria to the large group
- We will record the criteria on flip charts
- Keep these criteria in mind as we hear the presentation on modeling . . .
3. Apply Analytical Tools

- Hans Holmberg, LimnoTech – Modeling 101 presentation
- Discussion on developed criteria and the modeling efforts