

PRINCIPALS

Gerald F. Knapp
Thomas E. Biehl
Walter H. Alix
George E. Hubbell
Peter T. Roth
Michael D. Waring
Keith D. McCormack
Curt A. Christeson

CHIEF FINANCIAL OFFICER
J. Bruce McFarland

SENIOR ASSOCIATES

Frederick C. Navarre
Gary J. Tressel
Lawrence R. Ancypa
Kenneth A. Melchior
Dennis M. Monsere
Randal L. Ford
David P. Wilcox



HUBBELL, ROTH & CLARK, INC.
CONSULTING ENGINEERS

ASSOCIATES

Timothy H. Sullivan
Thomas G. Maxwell
Nancy M.D. Faught
Jonathan E. Booth
Michael C. MacDonald
Marvin A. Olane
James C. Hanson
Richard F. Beaubien
Margaret Synk Kuhn
William R. Davis
James J. Aiello
Daniel W. Mitchell
Joel E. Bowdan
Jesse B. VanDeCreek
Robert F. DeFrain
Marshall J. Grazioli

MEETING MINUTES
Livingston County Phase II Watershed Groups
South Branch Shiawassee River Subwatershed Group
Break Out Meeting No. 5

Date: 9/10/04
Time: 10:00am
Meeting Held: Green Oak Twp Hall

HRC Job No. 20030566.26

<u>Present:</u>	<u>Representing</u>	<u>Phone No.</u>
Bill Bamber	Oceola Twp	517.546.3259
Matt Bolang.....	LCDPH	517.552.6870
Mike Gaden.....	MSU-Extension.....	517.546.5154
Bob Hanvey.....	Marion Twp.....	517.546.1588
Doug Kuhn.....	Hartland Twp.....	810.629.3818
Rolly Olney	Hartland Twp.....	810.632.7498
Jacy L. Paul.....	HRC.....	248.535.3456
Bill Stone.....	HRC.....	248.454.6337
Steve Wasylk.....	LCRC.....	517.546.4250

<u>Not Present:</u>	<u>Representing</u>	<u>Phone No.</u>
Cindy Ambrose	Deerfield Twp	517.546.8760
Merry Bering.....	Howell Twp.....	517.546.2817
Brian Jonckheere.....	LCDC	517.546.0040
Terry Lee.....	Tyrone Twp.....	810.629.8631
Becky Walling.....	LCDC	517.546.0040

PURPOSE:

At today’s break out meeting, the purpose was to walk the group through the steps in ultimately establishing some broad goals for the watershed management plan (WMP). The handout was set up exactly as in Chapter 2 of the “Blue Book” so if members had confusion as they look back on the document, they’ll have a direct reference to help them understand the process.

A) Designated Use Threats/Impairments

The handout distributed today (and included with these minutes) starts by defining the terms, “designated and desired uses”. Again, the overall goal of a watershed management plan is to ensure that

the water quality is such that it meets all the designated uses for water established by the state of Michigan and the federal government. Of the 8 designated uses established by the state, four are either impaired or threatened in the South Branch Shiawassee River subwatershed:

1. Warmwater fishery
2. Other indigenous aquatic life and wildlife
3. Partial body contact recreation
4. Total body contact recreation between May 1 and October 31

The other four uses are either met, or do not necessarily apply in our subwatershed; they are:

5. Agriculture
6. Industrial water supply
7. Public water supply at point of intake
8. Navigation

A number of desired uses have also been identified by the group, and again, this is a draft list. Comments were made that these desired uses should be clearly defined if included in the WMP; for example, "Protection of Open Space or Greenway Protection"—specifically define what that means. As we move along and decide what we'd ultimately like to include in the plan, the group can agree on an understandable definition for each of the desired uses.

The next table in the packet identifies the watershed concerns that have been identified by the group; these watershed concerns can then be correlated with a designated use that is either threatened or impaired. For example, "Soil erosion/Sedimentation" can affect the warmwater fishery and other indigenous aquatic life and wildlife. As the soil particles enter the water, they can degrade habitat for both fish and other wildlife, affecting their lifecycle and food sources. This is the process of thinking about how the watershed concern relates to the designated use threat/impairment.

B) Pollutants/Problems

The next major step is to determine the pollutants/problems (either known or suspected), that are impairing or threatening the designated use. For each designated use (4) that we identified as impaired or threatened, a series of pollutants/problems were listed to be affecting it. Again, this is a draft list of suspected and known pollutants—changes will be made as more information is obtained. Pollutants may be removed or added as more information becomes available. In order to compile suspected and known pollutants, information gathered from research, the road/stream crossing survey, as well as members of the community "seeing" what's out there will be used to solidify the pollutants/problems of concern.

C) Sources of Pollutants/Problems

The next step is to delineate what the sources are that the pollutants/problems are originating from. Again, these sources are either suspected or known, and are verified by research, the road/stream crossing survey and information from community members. These too are not definitive, and will likely be modified as more information becomes available. For example, for the pollutant, sediment, the

sources could be from road/stream crossings—unimproved roadways depositing sediments easily, construction activities, eroding stream banks or from agricultural runoff.

D) Causes of Sources

Delineation of the causes of the sources of the pollutant/problem that is impairing/threatening the designated uses (long and wordy, but that's the breakdown of it!) is one of the most important steps because knowing the causes will allow us to design the most successful control measures to mitigate it. For example, for each of the sources listed above for the sediment example, you can take each of those and list a cause for the source. So, for the example of sediment coming from construction activities, the cause could be from inadequate soil erosion/sedimentation control measures and/or improper staging of construction activities (i.e. more land is cleared at one time than necessary, resulting in more unvegetated, unprotected ground for soil erosion to occur when storm water runs over the surface).

E) Watershed Goals

The development of watershed goals is based on *restoring* and *protecting designated uses*, as well as goals to *maintain* and *attain* the *desired uses* of the watershed. The goals are very broad in scope. More detailed descriptions come to light as objectives are listed to meet the goals, and even more detailed descriptions are given on how to meet the objectives by defining tasks to be completed to fulfill them. Down the road, the tasks that will be completed by each community to fulfill the objectives will be outlined in their Storm Water Pollution Prevention Initiative, or SWPPI, that is due for submittal in May 2006 with an implementation schedule, about six months after the WMP is submitted.

F) Water Quality Summary

The end product of Chapter 2 is to produce a water quality summary that identifies all the components of the steps outlined above. The summary is meant to serve as the basis of the WMP. The water quality summary is a short and concise synopsis of the water quality in the watershed. Before the WMP is submitted, and all pertinent information is pulled together, the initial water quality summary will be revamped and finalized to a point where it will provide an accurate picture of the watershed and express the link between the goals and conditions in the watershed.

G) Final Comments

Jacy Paul informed the group that one method to really getting a handle on the status of the watershed is to bring to light any current problem areas/concerns in their communities that will give insight into solidifying the pollutants/problems, sources and causes of designated use impairments in the watershed. Field visits to these types of areas would be ideal. For instance, Bob Hanvey of Marion Township is giving a tour of a sight that has significant drainage issues by Triangle Lake. The site is scheduled to begin remediation work very soon. Jacy and Bob are going to photograph the site and watch the progress of the mitigation measures of the site. This process will attain two goals—1) seeing a potential problem that may exist in other areas of the watershed, and 2) measure the success of the management practices they put in place to remedy the situation. This is exactly the kind of thing that will be most helpful to get input on from those of you in the community.

H) Next Meeting

The next break out meeting is scheduled to meet after the regularly scheduled LCDC Subwatershed Group's meeting on **Friday, October 8, 2004** at **Green Oak Township Hall**. At this meeting, a draft water quality summary will likely be provided, and we'll revisit the draft tables presented today—additional comments, feedback on the contents will be requested.

The next steps will be to define critical areas and prioritize pollutants, sources and causes, and then move onto developing objectives for the watershed goals. These steps correlate with Chapters 3, 5, and 6 of the Blue Book. It would be a good idea to review these chapters prior to our meeting.

These minutes are intended to be a summary of those items discussed. Any corrections and/or comments should be noted to the writer as soon as possible.

Respectfully submitted,

HUBBELL, ROTH & CLARK, INC.

Jacy L. Paul

JLP/jp

pc: All present
HRC; M. Synk Kuhn; J. Booth; File