



International Souris River Board

Grand International Hotel
Minot, North Dakota
June 20, 2012

Final Minutes

Board Members

Russell Boals, Todd Sando, Megan Estep, John Fahlman, Scott Gangl, Bob Harrison, Colonel Michael Price, Gregg Wiche, Thon Phommavong, and Mike Sauer for Dennis Fewless.

Regrets: David Donald, Dennis Fewless, and Dwight Williamson.

Attendees:

Lana Pollack, Paul Pilon, Mark Colosimo, Ed Eaton, Bob White, Scott Hill, Mike Sauer, Bruce Holliday, Girma Sahlu, Cliff Hanretty –Eaton Irrigation District, Jim Olson – KXMC TV Station, Minot, Brian Connelly- NOAA/NWS, Allen Schlag-NOAA/NWS, Steve Robinson-USGS, Joel Galloway-USGS, Kim Fundingsland – Minot Daily News, Rodney Bowden - WSC, Frank Durbian-US FWS, Tom Pabian-US FWS, Ken Bottle-US FWS, David Ashley- Souris River Joint Board, Mike Sauer-ND Dept. of Health and Jason Zimmerman- City of Minot.

1. Introduction and Opening Remarks.

Todd Sando convened the meeting at 8:30 a.m. and welcomed IJC staff, Board members and other participants to the meeting. Russell Boals also extended similar welcome notes to all attendees. T. Sando invited Board members and other participants to introduce themselves.

2. Approval of Agenda.

Minor modifications were made to the agenda. The discussion from the Aquatic Ecosystem Health Committee under agenda 11a – Review of Water Quality Standards in North Dakota was removed from the agenda. The Upper Souris River Basin Planning Committee report was inserted under agenda 16 as a fourth bullet.

Motion: John Fahlman motioned to accept the agenda as modified. Megan Estep seconded the motion. **Carried.**

3. Approval of Minutes:

a. February 22, 2012 Face-to face Board meeting

Motion: Bob Harrison motioned to accept the minutes. Gregg Wiche seconded the motion.
Carried.

b. March 28, 2012 Conference Call

Motion: Col. Price motioned to accept the minutes. Megan Estep seconded the motion.
Carried.

4. Review of Action Items

Ed Eaton provided a brief statement and mentioned that the 2009 Flood Report is still outstanding.

All other outstanding action items from the February 2012 meeting were on the agenda for discussion.

It was noted that the main action item from the March 28, 2012 conference call was the approval of the Task Force's Terms of Reference and nomination of the Task Force members. These actions items were completed.

5. Update from the Hydrology Committee

The report on the activities of the Hydrology Committee was deferred until the next meeting.

6. Determination of Natural Flow of the Souris River at Sherwood to May 31, 2012

Scott Hill reported that the determination of natural flow to December 31, 2011 has been completed by Water Survey of Canada. The total diversion in the Souris Rivers basin was 89,168 dam³. Recorded flow at Sherwood was 2,043,157 dam³. The natural flow computed at Sherwood was 1,572,094 dam³. According to these computations, the US share at 40% was 628,840 dam³. The flow received by the US was 2,045,490 dam³ constitutes a surplus delivery of 1,416,650 dam³. The annual flow requirement / apportionment at Long Creek has also been met.

Motion: Megan Estep motioned to accept the Natural Flow Computation to December 31, 2011.
Bob Harrison seconded. **Carried.**

Scott Hill also presented the Natural Flow computation of the Souris River at Sherwood to May 31, 2012 (table/ handout circulated). The total diversion was 51,366 dam³. The recorded flow at Sherwood was 46,600 dam³. The natural flow computed for the Sherwood station was 82,461 dam³. The US share at 40% was 32,980 dam³. The flow received by the US was 48,365 dam³ resulting in a surplus delivery of 15,385 dam³.

Motion: Gregg Wiche motioned to accept the interim Natural Flow computation of the Souris River at Sherwood to May 31, 2012. John Fahlman seconded. **Carried.**

7. Review of 2012 Hydrologic Conditions and Operations and Summer 2012 Hydrologic Forecast and Planned Operations

a. Saskatchewan

John Fahlman reported that winter releases were made to keep Rafferty elevation below 549.5 m. Alameda was at its full supply level on January 1, 2012. The initial forecast indicated that there was no need to draw Rafferty below 549.5 m and Alameda below 560.8. During the spring runoff, Rafferty rose by 1 foot. On Long Creek, Boundary Reservoir spilled. Diversion was made to Rafferty which brought the elevation of Rafferty to 550.18 m. However, Rafferty did not reach its interim FSL of 550.5 m. On the other hand, Alameda filled (562.18 m); and SWA had to make a release (at 4 m³/s this week - June 20, 2012) to bring Alameda back to its full supply level of 562.0 m.

J. Fahlman also noted that the basin is still very wet. Last year at this time, Alameda was at its maximum flood level; however, this year we are only at FSL. The geotechnical work at Alameda indicated that the reservoir could be filled to the same level as 2011. Rafferty is 30 cm below its full supply level and will not spill. SWA would like to keep the reservoirs at these levels during the present high-risk period.

Mike Sauer asked if there is any plan to operate the middle outlet of the Rafferty Reservoir during winter releases to ensure better quality of water downstream. J. Fahlman responded he would check with his staff and respond accordingly.

b. North Dakota

Steve Robinson, USGS, distributed a handout showing the hydrologic conditions for the US portion of the Souris River Basin covering the period January 1 to May 31, 2012. According to S. Robinson's report, the total volume of flow past the Long Creek at Noonan gage through May 31, 2012 calendar year was 5,893 acre-ft (7,269 dam³). In comparison, during the record flows of 2011, daily flow for June 21 alone was 18,850 acre-ft (23,251 dam³). Flows for the current year, based on the last 53 years of record are in the normal to above normal range. The peak discharge for the period January 1 to May 31 was 175 cfs (5 m³/s).

S. Robinson also reported that the total volume of flow past the Souris River near Sherwood gage through May 31, 2012 calendar year was 37,850 acre-ft (46,688 dam³). The total flow for the 2012 calendar year is much less than flows seen in the record setting year of 2011. In 2011, the daily flow for June 24 was 57,024 acre-ft (70,339 dam³) which is 1.5 times greater than the total flow for the first five months of 2012. Flows for the current year, based on the last 82 years of data are in the normal to above normal range. The peak discharge for the period January 1 to May 31 was 382 cfs (11 m³/s).

Flows recorded at the Souris River near Westhope gage, according to S. Robinson, exceeded the long-term mean for the entire period, except for February 10 to March 15, when flows dropped to around 5cfs (0.14 m³/s) range. Flows for the current year, based on the last 82 years of data are in the normal to above normal range. The peak discharge for the period January 1 to May 31 was 553 cfs (16 m³/s).

Allen Schlag added that Souris flows at Sherwood were above their median flow (see handout). June was expected to be wet and it was wet. Otherwise, the spring was unspectacular although there is risk for some flooding due to rainfall events given the wet basin conditions.

The ND State Water Commission and the USGS continued a low-flow monitoring program on the Souris River main stem in the vicinity of the Eaton Irrigation Project near Towner, North Dakota. Neither of the two monitoring gages was operated in the spring of 2012 due to high river levels.

c. Manitoba

Bob Harrison stated similar hydrologic conditions like those that were reported by J. Fahlman, Allen Schlag, and S. Robinson for the Manitoba side of the basin. Souris flows in Manitoba were below average following a relatively dry fall. Flows at Westhope have now crept up to 500 cfs (14.2 m³/s). Water supply is generally good in Manitoba.

d. US FWS

Frank Durbian mentioned Lake Darling was at 1596 ft in February 2012. The mean elevation of the lake is 1597 ft. The lake is discharging 100 cfs (2.83 m³/s). US FWS is still working with the US Army Corps of Engineers to fix the sluice gate. No major event on J. Clark. The plan is to do a complete drawdown over the summer.

R. Boals asked if the sluice gate on Lake Darling was an issue. F. Durbian responded no. The flooding has diminished, and the storage is manageable.

Pools 320 and 341 are not fully functional at the moment (gates not operable).

It is expected the Souris River will maintain a healthy base flow. There will be ongoing communication with North Dakota and the US FWS regarding flows in the Souris River.

8. Water Quantity Monitoring

Scott Hill stated that no major hydrometric changes were planned for the Canadian portion of the basin. Gregg Wiche also mentioned there were no changes to the monitoring program for the US portion of the hydrometric network. G. Wiche mentioned ND SWC crew has done repairs and raised some gages for the USGS which were originally put for drought monitoring. Rod Bowden reported that WSC would add a new gage at Stony Creek, but nothing on the mainstem of the Souris River.

9. Water Appropriation in the Souris River Basin During 2011

J. Fahlman noted that there were no new appropriations in the Saskatchewan part of the basin to report.

Bob White reported that there were two appropriations – a golf course with 62 acre-feet withdrawal permit; and an individual permit to pump 320 acre-feet of groundwater. Of the 320

acre-feet, a permit was issued for 100 acre-feet, and the remaining 220 acre-feet is held in abeyance.

10. Flow Forecasting Liaison Committee

Bob Harrison reported that the Committee had a meeting yesterday (June 19, 2012). Communication among members was one of the issues that was discussed. Allen Schlag discussed the need for a better and improved communication strategy following the 2011 record flood event. Allen Schlag mentioned that NWS would review its communication with the public. There was consensus among the Flow Forecasting Liaison Committee to create a formal communication strategy.

11. Update from the Aquatic Ecosystem Health Committee (AEHC)

Bruce Holliday reported that the last meeting held by the AEHC was on March 29, 2011. The committee recommended to the Board replacing Total coliform with E. coli for the Souris River at Westhope. E. coli has been accepted as a better indicator of bacterial contamination in water. The E.coli objective would be 200 colonies/100 ml of water which is the same as Fecal coliform.

The committee also decided to keep monitoring phenols for information purposes. AEHC will add E. coli to its sampling program without dropping Fecal coliform at this time.

The procedure to add E. coli to the water quality objectives would be a recommendation from AEHC to the Board; followed by the Board requesting the IJC for approval. The AEHC is expected to provide a short report indicating the reasons/justifications for the change or addition of E. coli to the water quality objectives.

Motion: Thon Phommavong motioned that the Board request IJC to include E. coli to the water quality objectives, Scott Gangl seconded. Carried.

There was a question about the cost of monitoring (who pays for the additional monitoring). Megan Estep mentioned that the cost for monitoring would be split between the US FWS and the Corps of Engineers. Timeline for implementation – there was consensus the E. coli objective would be implemented/added in 2013.

11 a. The discussion on ‘Review of the Water Quality Standards in the State of North Dakota’ under agenda 11 a was removed since the three-year review has been completed.

11. b Water Quality Monitoring Program

Bruce Holliday stated that there were no changes to the water quality program. Phenol has 100% exceedence. Nutrient strategies have yet to be established for the Souris River at Westhope. Water quality improved last year (2011) due to high flows. Dissolved Oxygen has improved, as well due to live stream conditions as a result of winter releases.

Mike Sauer would like to make some experiment in winter at the Sherwood site to monitor water quality in winter as releases are made from Rafferty. It would be beneficial to monitor the water quality at various flows rates like, 10, 12, and 15 cfs to determine what kind of flows are necessary to maintain an acceptable level of Dissolved Oxygen.

Bruce Holliday mentioned the monitoring plan for Westhope would remain the same as last year with 6 open-water and 2 samples in winter months. In 2011, ten samples were collected instead of the normal eight samples. Four samples were collected at an alternative site at Coulter instead of Westhope; and joint sampling was conducted at Westhope and Sherwood. There is a decreasing trend for phosphorus, chloride, boron, and others due to the high volume of water in the Souris River. However, there was one above detection limit for organics. All other organics were below their detection limits.

12. Compliance with Water Quality Objectives

The 2012 data was not available at the time of the meeting. Col. Price asked if the Board recommends best practices within the basin. The nutrient management strategy is a good approach instead of simply reporting exceedences all the time. A mid-level outlet release was suggested for Alameda for improved water quality during winter months. Best management practices like, animal wintering practices or operations could be improved for better dissolved oxygen levels. Board should promote better management practices (BMPs).

The work by the Upper Souris River Basin Advisory Group was cited as an example. A suggestion was made for the AEHC and COH to experiment with winter releases to determine the rate for minimum flow requirements. As an IWI Board, ISRB is expected to go beyond just monitoring. ISRB will make recommendations to the IJC to improve the general health of the basin. Paul Pilon suggested the Board to make recommendations based on sound science and the IJC would be happy to see the Board move in that direction.

13. Dissolved Oxygen Monitoring

Scott Gangl gave a brief background of low dissolved oxygen levels in the Souris River basin and its consequences that included fish kills in the past (2006-2008). Water quality has improved and fish kill has not been as issue since 2009. ND Game and Fish asked for 10 cfs release, but does not need the water now due to the relatively high flows in the Souris. Low DO coincides with period of low flows. Any time the flow goes below 10 cfs, problems with low DO levels begin to show. ND Game and Fish approached F. Durbian in May 2012 and asked informally what we can do if we need higher flows. Currently, looking at installing equipment to monitor DO monitor near the Minot gage and at Sherwood. Minot was considered to be the key area for now. F. Durbian mentioned the US FWS is willing to cooperate if IWI funds were available. It was estimated that \$10,000/year is needed to install and operate a DO monitoring program.

J. Fahlman noted that SWA could look at flows to improve the water quality in the Souris which is characterized as an intermittent river.

Paul Pilon mentioned IWI funds were limited, but could provide seed money to start the monitoring program.

Megan Estep stated that the US FWS is limited by Annex "A" as to what we can do. It is not only a quantity issue. We need to address the quality issue as well.

Mark Colosimo mentioned the IJC could provide funding through the USGS as "*Special Monitoring Co-operative Program*"

14. Report from the Souris River Task Force

14a. Status on Progress of Work to date

Ed Eaton reported on March 28, 2012 conference call that the ISRB discussed forming the Task Force and nominated people from various agencies. Ed Eaton has developed a draft plan of study outlining what is needed, who can do what, what activities are going on now. Ed Eaton further explained the plan of study (POS) and provided two draft copies to the Co-Chairs. On the April 20, 2012 conference call of the Task Force, the Terms of Reference (TOR) were presented and discussed the objectives. Five volunteers developed the draft the outline, the TOR, and organizational status for the POS. Task identified in the TOR included identification of what is needed, who does it, and existing work.

The Board also discussed the 'Charette' process and engaging an IJC resource person who has worked on the Great Lakes Study. The resource person from the IJC was identified as Syed Moin who is expected to provide technical support and advice to the Task Force. A presentation to governments would be made.

As an IWI Board, ISRB encourages public involvement and participation to provide input to the activities of the Task Force at various levels. The Board thinks it is a good idea to engage and have the public involved.

Paul Pilon affirmed both the US and Canadian sections of the IJC would be available to help the Task Force.

Mark Colosimo mentioned within the US Section of the IJC there is specific funding through September to assist in the effort.

R. Boals stated that the Board could engage Syed Moin (IJC) as quickly as possible. R. Boals further added that Syed Moin could be a facilitator who would assist in completing the POS.

Motion: Col. Price motioned that Syed Moin, IJC, be approved as the resource person to assist the Task Force, seconded: Bob Harrison. **Carried.**

Ed Eaton mentioned that the study would take time to do. We need to identify areas not being worked on and get people to work on them.

14b. Establishment of Advisory Committee

The Board believes stakeholder engagement is crucial to its work. It was suggested that there might be a requirement for a multi-tiered public engagement to allow stakeholder participation and input to the Task Force. Once the Plan of Study has been drafted the Board will consider the make-up of the Advisory Committee.

Paul Pilon reminded the Board that the IJC has accepted the proposal last year and the funding is available for the Task Force to go ahead.

15. International Watershed Initiative

15a. Presentation from Anne Fritz – Update on Data Harmonization

A. Fritz made a presentation and gave a timeline of the Data Harmonization Project (1997-present). The project is almost complete with Phase III due in the near future. A. Fritz mentioned that the Project team is waiting for review of the 10 and 12 digital datasets by Saskatchewan and Manitoba. Refer to the GEO-Base website in Canada and the USGS National Map Viewer (viewer.nationalmap.gov).

15b. Presentation from Paul Pilon – Update on Water Quality Monitoring

P. Pilon gave a brief presentation on the SPARROW Model. The SPARROW Model, which is statistically based, was developed by the USGS to address water quality issues on large river basins in the US. Stream network is the backbone of the model. P. Pilon also discussed the next steps or opportunities that included developing a calibrated model, and scenario simulation. Total phosphorus and total nitrogen could be modeled at the beginning to be followed by organics later.

Mark Colosimo will provide guidelines to the Board on how to proceed with the model. There is a formal application process and guidelines to follow.

16. Update on Water Management Projects

- NAWS

Todd Sando reported that the Supplemental EIS would be completed next year this time.

- Lake Mitigoshe

Bob White reported there were no new developments since the last report. Mark Colosimo gave a brief statement from the IJC regarding the process. Mark Colosimo will give Bob White the contact address for follow-up.

- Other Planned Developments

The Upper Souris Watershed Association requested and was granted permission to make a presentation to Board about its activities. Kyle McRae, P. Ag., staff member, spoke on behalf of the Association. The Watershed Association is a non-government/non-profit group, but receives funding from SWA to keep office and office staff. The main objective of the Association is source water protection. Both rural and urban municipalities are represented and play active roles in the initiatives undertaken by the Association that include nine categories and forty key actions to protect their water source. The Board welcomed the activities of the Upper Souris Watershed Association and would incorporate a mechanism to engage the Association with the AEHC in the future.

The Board took a moment to acknowledge and recognize the work of Allen Walter who has worked for several years in the Souris River Basin. Col. Price presented an award to Allen Walter on behalf of the US Army Corps of Engineers for his long-term service and fight against the 2011 Flood.

John Fahlman noted that there was safety issue at the Alameda Dam. However, operations will be the same as last year. Rafferty has spillway capacity limitation; therefore, SWA will not operate the dam above its full supply level. There is a recommendation to do a probable

maximum flood (PMF) for the entire basin and the study will be completed in fall 2012. The probable maximum precipitation (PMP) has been completed.

17. Update Work Plan

Task Force – follow-up with Action Items.

18. Next meeting – is a conference call on July 26, 2012 at 9:00 a.m. CST /10:00 a.m. CDT. Another conference call on October 2, 2012 at 9:00 a.m. CST /10:00 a.m. CDT.

- Paul Pilon announced his retirement from Public Service, and mentioned this was his last Board meeting.
- Bob Harrison announced his retirement this coming fall and his term expires in July 2012.

Ed Eaton retires on November 3, 2012.

R. Boals thanked the retirees for their professional service to the ISRB and wished them well in their future endeavors.

20. Adjournment

The meeting was adjourned at 12:40 p.m.

List of Attendees, International Souris River Board meeting – June 20, 2012

Board Members in Attendance

Russell Boals, Canadian Co-chair, Retired, Regina, SK
Todd Sando, U.S.A. Co-chair, ND State Water Commission, Bismarck, ND
Col. Michael Price, Member for the U.S.A, U.S. Army Corps of Engineers, St. Paul, MN
John Fahlman, Member for Canada, Saskatchewan Watershed Authority, Moose Jaw, SK
Gregg Wiche, Member for the United States, U.S. Geological Survey, Bismarck, ND
Megan Estep, Member for the U.S.A, U.S. Fish and Wildlife Service, Denver, CO
Bob Harrison, Member for Canada, Manitoba Water Stewardship, Winnipeg, MB
Scott Gangl, Member for the United States, ND Game & Fish Department, Bismarck, ND
Thon Phommavong, Member for Canada, Saskatchewan Ministry of Environment, Regina, SK

Regrets

David Donald, Member for Canada, Environment Canada, Regina, SK
Dennis Fewless, Member for the U.S.A., ND Department of Health, Bismarck, ND
Dwight Williamson, Member for Canada, Manitoba Water Stewardship, Winnipeg, MB

IJC Staff

Commissioner Lana Pollack, IJC, Washington, D.C.
Paul Pilon, Engineering Advisor, IJC, Ottawa
Mark Colosimo, Engineering Advisor, IJC, Washington, D.C.

Support Staff in Attendance

Ed Eaton, U.S. Army Corps of Engineers, St. Paul, MN (by phone)
Robert White, U.S. Co-secretary, ND State Water Commission, Bismarck, ND
Anne Fritz, ND Dept. of Health, Bismarck, ND
Ken Bottle, US FWS, Denver, CO
Frank Durbian, US FWS, Uphom, ND
Tim Fay, ND SWC, Bismarck, ND
Tom Pabian, US FWS, Bismarck, ND
Allen Schlag, NOAA/NWS, Bismarck, ND
Steve Robinson, USGS, Bismarck, ND
Mike Sauer, ND Department of Health, Bismarck, ND
Scott Hill, Water Survey of Canada, Environment Canada, Regina, SK
Rodney Bowden, Water Survey of Canada, Winnipeg, MB
Girma Sahlu, Canadian Co-secretary, Environment Canada, Regina, SK

Observers

Maria Gherhanson, Congressman Rick Berg's Office, Minot, ND
Jason Zimmerman, SBPC, Minot, ND
David Ashley, SRJB, Voltaire, ND
Jason Westbrook, BARR Engineering, Bismarck, ND
Jim Olson, KXMC-TV, Minot, ND

International Souris River Board
ACTION ITEMS – progress updated June 20, 2012

PERSONS OR COMMITTEE RESPONSIBLE	TOPIC	MINUTE	ACTION	STATUS As of June 20, 2012
USGS	Water quality monitoring at Sherwood Gage	Jan 28/11-1	USGS will continue monitoring water quality in the winter months; and monitoring equipment / conductance meter will be kept in the stream until ice break-up.	Closed
Doug Johnson	30-day release volume from Rafferty & Alameda Reservoirs	Jan 28/11 -2	Doug will provide the 30-day volume next week to help determine whether Lake Darling should be lowered. This would only be considered if there is a significantly higher event than the 1:10 event as currently estimated.	Completed
U.S. FWS & SWA	Current conditions in the Souris River Basin including target elevations for, and releases from Rafferty, Alameda, and Lake Darling	Jan 28/11 -2	It was agreed to reduce the outflow from Lake Darling to 100 cfs for a week or ten days. Upon receipt of information on the 30-day volume estimate from SWA, the Flood Committee could suggest whether the outflow should be increased or decreased. If the basin experiences above normal precipitation in the next few weeks, then we need to arrange another conference call to discuss our next plan of action.	Completed
Doug Johnson	Development of a International Souris River Board Procedures Manual	Sep 25/09-3 Feb 27/09-10a.	Doug Johnson to coordinate and call a meeting of a Canadian team for production of a draft procedures manual. At the Feb 23, 2010 meeting, Doug reported this was incomplete.	Doug noted that the action item should be kept open.
Hydrology Committee (Doug Johnson and Megan Estep are co-chairs)	Calculation of Rafferty Reservoir net depletion.	Sep 25/09-3 June 18/09-4. Feb 27/09-10b.	Russell Boals to determine what analysis has been done on Inflow/Outflow vs. Change in Storage for Rafferty Reservoir and provide a report to the Hydrology Committee. At the June 18, 2009 meeting Russell noted that he had a brief discussion with Mike. Russell was to follow-up with Mike to request a summary of his activity. At the Feb, 23, 2010 meeting, Russell reported that Mike Renouf no longer has the files and this is now on the work plan for the Hydrology Committee.	Assigned to the Hydrology Committee for follow-up. Closed
Hydrology Committee	Development of a model to evaluate changes in the operating level of Lake Darling	Feb 23/10 – 5a.	Hydrology Committee to prepare a spreadsheet format compilation of models used in the Souris River Basin and review future needs and requirements.	Closed

International Souris River Board
ACTION ITEMS – progress updated June 20, 2012

PERSONS OR COMMITTEE RESPONSIBLE	TOPIC	MINUTE	ACTION	STATUS As of June 20, 2012
Bob Harrison Martin Graczyk Ed Eaton	Report on the spring 2009 flood.	Sep 25/09-3 June 18/09-10d.	SRFFLC to write a report on the spring 2009 flood. The report is to document what happened, provide a chronology of events, examine why the forecast (at Minot) was too high, lessons learned, and make recommendations for improvements for the future.	Ongoing Ed Eaton reported that he has spoken with Brian Connelly. Funding to do the work is available. Ed estimated that the report would be drafted by the end of September. Allen Schlag reported that Brian Connelly is working on a critique of the 2009 flood estimates produced by various organizations. Ed noted that he would like to incorporate Brian's report into his flood report.
Aquatic Ecosystem Health Committee	Phenol monitoring	Feb 23/10-14b	AEHC to review the phenol data and provide a written report to the Board. Ongoing	Bruce Holliday reported that the AEHC has not met. Gregg Wiche noted limited phenol analysis will be done. Russ noted there are two questions to be addressed: 1. the monitoring for phenols, and 2. the process for changing the phenol objective. Dale Frink noted that in order for the IJC to make a decision on the phenol objective a report will be required. Assigned to the Aquatic Health Ecosystem Committee for follow-up. Closed
Aquatic Ecosystem Health Committee	Water Quality monitoring	Feb 23/10-16	AEHC to prepare a report on the sampling and analysis for Total Coliform, e. coli, fecal coliform and fecal streptococcus.	To be discussed under agenda item No. 10. Assigned to the Aquatic Health Ecosystem Committee for follow-up. Closed

International Souris River Board
ACTION ITEMS – progress updated June 20, 2012

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Brian Yee	ISRB SharePoint	Feb 23/10-20b	Brian Yee to contact John Yee, IT support for the IJC Ottawa, to set up a SharePoint for the ISRB.	Brian Yee reported that Jon Yee, IJC Ottawa has indicated that the SharePoint will be up and running in a week or two. Closed
Doug Johnson	“	Sep 25/09-3 June 18/09-12 f June 18/09-4 Mar. 18/09-4a	Doug Johnson to lead on the development of the IWI LIDAR Proposal. Doug Johnson to setup a conference call of the Hydrology Committee for the end of May to discuss the IWI proposal. (Doug Johnson was to ask some of this staff to prepare a cost estimate for LIDAR surveys in the Souris River basin. Doug Johnson volunteered to lead on preparing the IWI proposal at the June meeting). At the Feb 23/10 meeting, Doug reported that this is on hold until there is a direction on the modeling to be done (which will be an outcome of the IJC workshops).	Doug Johnson reported that this is on hold pending outcome of the IWI modeling workshops Closed.
Ed Eaton/US ACE	Flood Report	Sept 14, 2011	Ed Eaton, in cooperation with SWA, US FWS, and USGS, to prepare the 2011 flood report.	Completed
Russell Boals	IWI Proposal–revised operating plan	September 14, 2011	Russell Boals, with the assistance of Megan Estep, will prepare an IWI proposal to revise the current operating plan.	Completed
R. Boals and T. Sando	Establish a Task Force and prepare TOR	February 22, 2012	Co-Chairs to establish a Task Force and prepare the TOR, and have it ready for review by Board before the end of March 2012.	Completed
Dan Selinger	Determination of natural flows	February 22, 2012	Dan Selinger to finalize the provision data on natural flows within one month	Completed
Megan Estep	Report on COH	September 14, 2011	Update from the Committee on Hydrology on assigned work plan items	ongoing
AEHC	Compliance with Water Quality Objectives	September 14, 2011	AEHC to recommend actions to be taken by the Board to address exceedences of water quality objectives	ongoing
Secretaries	Public meeting submissions	September 14, 2011	Secretaries will attach all written public submission to the Board minutes	Completed
John Fahlman	Winter release from mid-level outlet for better water quality	June 20, 2012	J. Fahlman to check with his staff if releases could be made from the mid-level out of Rafferty Reservoir to improve water quality downstream and respond to Mike Sauer.	ongoing

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PERSONS OR COMMITTEE RESPONSIBLE	TOPIC	MINUTE	ACTION	STATUS As of June 20, 2012
Flow Forecasting Liaison Committee	New Communication Strategy	June 20, 2012	The Flow Forecasting Liaison Committee will create a formal communication strategy	ongoing
AEHC	New E. coli objective	June 20, 2012	AEHC will prepare a short report detailing the justification/reasons for adding E. coli to the ISRB Water Quality Objectives	ongoing
AEHC and COH	Varying flow rates for winter releases	June 20, 2012	AEHC and COH will develop a plan for testing various winter release rates to determine the optimum flow rate to maintain DO levels	ongoing
ISRB	Engaging the Upper Souris Watershed Association with Board activities	June 20, 2012	As an IWI Board, the ISRB would continue to seek opportunities to engage watershed associations and the public	ongoing
Secretaries	Board conference call	June 20, 2012	Secretaries to organize a conference call for July 26, 2012	ongoing
Secretaries	Board conference call	June 20, 2012	Secretaries to organize a conference call for October 2, 2012	ongoing

Note: When two or more meetings are referenced to an item; that indicates a carry-forward of an action item from previous meetings.