INTERNATIONAL
SOURIS RIVER
BOARD

CONSEIL
INTERNATIONAL
DE LA RIVIÈRE SOURIS

International Souris River Board

Holiday Inn Airport West - 2520 Portage Avenue
Winnipeg, Manitoba
February 20, 2013

**Final Minutes**

**Board Members:**
Russell Boals, Megan Estep, John Fahlman, Colonel Michael Price, Gregg Wiche, Dennis Fewless, Nicole Armstrong, and David Donald**.** Via conference call - Todd Sando and Scott Gangl.

**Attendees:**
Lana Pollack, Mark Colosimo, Scott Jutila, Bob White, Scott Hill, Girma Sahlu**,** Jim Olson – KXMC TV Station, Minot, Dan Jonasson - City of Minot Public Works, Mark Lee- MCWS, Steve Robinson-USGS,–Rodney Bowden, Colin Angus-WSC, Rob Kirkness, Jean Francois Bibeault-EC.

Via conference call: Frank Durbian-US FWS, Ted Yuzyk- IJC, Heather Duchscherer, Mike Laitta, Glenn Benoy -IJC, Andrea Travnicek- ND Governor's Office.

1. Introduction and Opening Remarks.

   Russell Boals convened the meeting at 10:10 a.m. and welcomed IJC staff, Board members and other participants to the meeting. Todd Sando, via phone, also extended similar welcome notes to all attendees. R. Boals invited Board members and other participants to introduce themselves.

2. Approval of Agenda.

   The agenda was approved as circulated.

   **Motion:** Gregg Wiche motioned to accept the agenda as presented. Nicole Armstrong seconded the motion. **Carried**.

3. Approval of Minutes:

   December 14, 2012 Conference Call – a minor modification was made in the minutes - On page one, last paragraph, a December 19, 2012 date was added to distinguish the penultimate draft report from all other previous versions.

**Motion**: Col. Price motioned to accept the minutes as modified. Gregg Wiche seconded the motion. **Carried.**

4. Review of Action Items

R. Boals noted that the outstanding action items have either been addressed or were incorporated into the meeting agenda.

5. Review of 2012 Hydrologic Conditions, Spring 2013 Hydrologic Forecast, and Planned Operations

a. Saskatchewan

John Fahlman reported that the flow conditions in Saskatchewan are at median level. Boundary Reservoir was at elevation of 559.7 m on February 1, 2013, or 1.1 m (7,000 $dam^3$) below its Full Supply Level (FSL). Given the current conditions in the basin, it is expected that that Boundary Reservoir would fill in 2013. Any excess inflow would be diverted to Rafferty Reservoir by the diversion channel. No winter release is planned at this time. Rafferty Reservoir was at an elevation of 549.5 on February 1, 2013 (50,000 $dam^3$ below FSL). The maximum elevation required by February 1 as specified in the 1989 International Agreement is 549.5m. The Water Security Agency (WSA) maintained a small release throughout the winter to achieve the February 1st target level. WSA plans to continue with a small release until runoff to maintain a live stream.

The initial forecast called for a median volume runoff in spring 2013. Rafferty is not going to fill this year. The plan is to fill Boundary first and divert the rest into Rafferty.

The Alameda Reservoir was at an elevation of 560.95 m on February 1st 2013 (12,000 dam3 below FSL). Alameda will fill this year. Alameda had some dam safety issues. The goal is to not fill the reservoir above the FSL by June 1st. The maximum elevation specified in the 1989 International Agreement is 561m by February 1st. A small release was maintained throughout the winter to achieve the February 1st target level. The plan is to continue a small release until runoff to maintain a live stream. Based on projected inflows there is no need to draw down Alameda any further before the spring runoff. If runoff conditions change, releases will be increased to meet the required pre runoff target. WSA plans to release as required to ensure the reservoir is below FSL by June 1st 2013.

All reservoirs are at their February 1st target levels. Rafferty is not going to fill. The current release will be stopped in the near future. J. Fahlman stated that the riparian outlets at Rafferty and Alameda are used to make these winter releases. Dissolved Oxygen and nutrients (ammonia) do not seem to be of concern.

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 December 31, 2012. According to S. Robinson's report, the total volume of flow past the Long Creek at Noonan gage through December 31, 2012 calendar year was 9,183 acre-ft (11,327 $dam^{3)}$. In comparison,

during the record flows of 2011, daily flow for June 21 alone was 18,850 acre-ft (23,251 $dam^3$). Total flows for 2012 rank 32 based on the last 53 years of record. The peak discharge of 450 $ft^3/s$ in 2012 occurred on July 4 due to a summer precipitation event.

S. Robinson also reported that the total volume of flow past the Souris River near Sherwood gage through December 31, 2012 calendar year was 59, 050 acre-ft (72, 838 $dam^3$). The total flow for the 2012 calendar year is much less than flows seen in the record setting year of 2011. For the year 2011, the daily flow for June 24 was 57,024 acre-ft (70,339 dam3), only 2,026 acre-ft (2,499 $dam^3$) less than year total for 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 December 31 was 382 cfs (11 $m^3/s$).

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, and starting in mid-July 2012. The recorded discharge for these two periods fell below the 82-year median discharge. The peak discharge for the period January 1 to December 31 was 553 cfs (16 $m^3/s$).

The ND State Water Commission and the USGS have 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 this past spring due to the higher than normal river levels.

c. US FWS

Frank Durbian (via phone) reported water level conditions in Lake Darling and J. Clarke. Lake Darling was at or below normal operating range; currently at 1596 ft- amsl and discharging 70 cfs (1.98 $m^3/s$). The Fish and Wildlife Service anticipates no changes to the operating plans in 2013. US ACE will be doing some repair work on the outlet gates that were not operable last year. For the J. Clarke complex, the five pools are at their target levels. Megan Estep found some errors in the US FWS report that would be corrected and report resubmitted.

d. Manitoba

Mark Lee reported overall, the Souris River Basin experienced below normal precipitation from May to October 2012. Most areas of the basin received above normal precipitation in October. However, tributaries on the west side of the river across Manitoba received below normal precipitation. In summary, the basin had below normal to normal precipitation, snowpack is in the normal range for water equivalent, and runoff will be managed by the reservoirs upstream in North Dakota and Saskatchewan. Flow and levels at the time of freeze up were below normal along the Souris in Manitoba. However, flows at Wawanesa in January and February have increased significantly.

Based on numerical weather models, the long-term weather outlook predicts near normal temperatures and precipitation in the Souris River Basin. The risk of significant flooding in the Manitoba portion of the basin is lower than normal. However, the potential for significant rain storms in spring may result in localized flooding along smaller tributaries, but with little impact on the main stem channel. The erratic characteristics of extreme weather events in recent years

indicate that there is always a chance of severe storm events occurring that can quickly alter the prevailing situation, thereby increasing the risk of significant flooding.

The Board, based on the information presented to it from the agencies, decided the operation of the reservoirs this year would be a 50/50 type of operation for apportionment purposes.

**Motion**: Gregg Wiche motioned to accept a 50/50 type of reservoir operation in 2013. John Fahlman seconded the motion. **Carried.**

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

Scott Hill reported that the determination of natural flow to December 31, 2012 has been completed by Water Survey of Canada. The total diversion in the Souris Rivers basin was 47, 662 $dam^3$. Recorded flow at Sherwood was 72,838 $dam^3$. The natural flow computed at Sherwood was 103,485 $dam^3$. According to these computations, the US share at 40% was 41, 390 $dam^3$. The flow received by the US was 74, 725 $dam^3$ constitutes a surplus delivery of 33,335 $dam^3$. The annual flow requirement / apportionment at Long Creek has also been met with a surplus of 4, 475 $dam^3$. S. Hill also noted that these numbers / table have been finalized and approved.

**Motion:** Col. Price motioned to accept the Natural Flow Computation to December 31, 2012. Megan Estep seconded. **Carried.**

7. Water Quantity Monitoring

Scott Hill reported minor changes for the period 2012-2013. Upgrades were made to the Larson and Roughbark stations. Evaporation calculations were made using pan-evaporation and an automated system. In 2013, evaporation calculations will be made using only the automated system. The Water Security Agency (WSA) and USGS mentioned there were no changes to their respective monitoring plans. In Manitoba, WSC would add a new gage at Stony Creek, but nothing on the mainstem of the Souris River.

8. Water Appropriation in the Souris River Basin During 2012

J. Fahlman mentioned there were no new appropriations in the Saskatchewan.

Bob White reported that there were two types of appropriations in North Dakota in 2012. Permits were issued either as Temporary or Conditional. In the Temporary category, three groundwater and 67 surface water permits were issued. In the Conditional category, four groundwater and one surface water permits were issued. Temporary permits are usually issued for a period of up to one year. Groundwater permits are seldom issued; and are used mostly for fracking oil by petroleum companies.

Lana Pollack, IJC, asked if there were any long term studies on impacts related to groundwater pumping by industry. In North Dakota, industry is pushing hard with government support to avoid mining of groundwater. Todd Sando mentioned, in Missouri State companies are allowed to haul 6,000 gallons per truck with a combined total volume of about 1456 acre-ft, which is not

a significant amount. Water for fracking comes from groundwater sources in the Missouri River basin delivered by independent water suppliers. There are 12 water depots for this purpose.

Nicole Armstrong asked what happens to the water after being used in the fracking process. Dennis Fewless answered the used water goes into deep injection wells at 8, 000-10,000 feet.

9. International Watersheds Initiative Projects

Glenn Benoy, IJC, joined by phone and provided an overview of the SPARROW Model that started as a bi-national effort two years ago. The Souris River Basin initiative is now larger than originally planned. The model now includes the Red and Assiniboine rivers. The objectives of the modeling effort are:

- Quantify attributes and processes of freshwater systems,
- Assess state of knowledge, including gaps and limitations, and
- Evaluate "what if" scenarios.

The SPARROW Model was developed by the USGS to assess long-term trends in water quality. The model incorporates a number of input variables ranging from precipitation and temperature to nutrient loads in a large watershed like the Red-Souris-Assiniboine River basin. Excessive nutrient loads in the Red and Souris River basins have become major concern, particularly affecting the quality of water in Lake Winnipeg.

Questions were raised whether it would be possible to separate point and non-point sources of pollution/nutrient loadings. G. Benoy responded yes, the model input could be specified as point or non-point sources although it somewhat difficult to build a non-point source. So far, the percentages of point and non-point sources have not been determined yet. There was another question regarding if there were any milestones in the development of the model.

In Spring 2013, Wayne Jenkinson will setup a webinar on the SPARROW Model, and after that will look for buy-ins from others in early summer in order to move forward. The Prairie model was identified as being somewhat difficult including the entire Lake Winnipeg Basin.

Dave Donald mentioned the model is a big step forward, but there are some challenges. Currently, four labs are doing the analyses and coordination and timeliness is sometimes an issue.

Nicole Armstrong mentioned Manitoba is excited about the model and would like it expanded to include Lake Winnipeg. Leadership has been identified as a problem. There was consensus that the IJC should lead the SPARROW Model.

Lana Pollack, IJC, emphasized the fact that the Board has to show interest and stay engaged. IJC can support the initiative. There was agreement that the Board would identify the issues in the basin and actively engage in the process.

Mike Laitta, IJC, also gave a brief status report over the phone on Phase III of the Hydrographic Data Harmonization initiative/ project. M. Laitta mentioned the project is near completion; and there are tools available to look at events on the landscape from the website.

10. Update from the Hydrology Committee

John Fahlman identified there were two outstanding items that need to be completed by the committee - Procedures' Manual and WSA to complete the elevation area-capacity charts. Depletion of the reservoirs will be done by the US ACE and Scott Jutila will send them out. The Board also welcomed Rob Kirkness as the new member and Canadian Co-Chair of the committee.

**Motion:** John Fahlman motioned to accept Bob Kirkness as the Canadian Co-Chair of the Hydrology Committee. Megan Estep seconded. Carried.

A request was made to update the membership list of all the committees of ISRB.

**Action:** Committee chairs have been requested to update and send in their membership list to the Co-Secretaries.

11. Flow Forecasting Liaison Committee

The Committee co- chaired by Brian Connelly and Martin Grajczyk met on February 12, 2013 to approve the forecast that was made on February 1st. The next conference call is set to deal with the March 1st forecast. During runoff, conference calls will be held on a weekly basis. This year's forecast is less than 1:10 event resulting in a 50/50 apportionment arrangement. Communication within the Committee and others has been good and functional.

There was discussion about the Weather Information Network (WIN). WIN is a private company that deals with mainly crop damage insurance. Saskatchewan has an arrangement with WIN for raw weather data. There is also a similar arrangement that includes weather data access for the appropriate agencies in the USA. The US agencies expressed reluctance to sign the non-disclosure agreement due to the requirement for open data access in the United States (indemnification and law suit issues). Re-broadcasting of data has been identified as an issue. WIN has purchased what was formerly known as the Weather Farm Network (WFN) and operates some 800 data points/stations across the basin.

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

Bruce Holliday was unable to attend; and Dave Donald made a short presentation on his behalf. There was no activity plan for the Committee. Mike Sauer retired and has now been replaced by Heather Duchsherer from the North Dakota Department of Health.

**Motion**: Dennis Fewless motioned to accept Heather Duchsherer as replacement to Mike Sauer as the US Co-Chair of the AEHC. Col. Price seconded the motion. **Carried.**

Dave Donald reported the Westhope site was monitored 8 times last year. As a typical prairie site, the nutrient samples showed high concentrations. Other parameters monitored included ions, metals, and pesticides (incomplete analyses). The highlights included:

- 100 % exceedances of Phosphorus (total),
- Sodium exceeded its objective of 100 mg/L in 83% of the samples an increase from 2011,

- Sulphate exceeded its objective of 450 mg/L in 17% of the samples taken in 2012,
- Total iron exceeded its water quality objective of 300 mg/L in 100% of the samples,
- Total Dissolved Solids (TDS) exceeded the Water Quality objective of 1,000 mg/L in 50% of the sample,
- pH did not exceed its objective of 8.5 pH units in 2012,
- The Dissolved Oxygen (DO) concentration was above the 5 mg/L Water Quality Objective for all samples in 2012,
- Chloride did not exceed the Water Quality objective of 100 mg/L in 2012, and
- Total Boron did not exceed its objective of 0.50 mg/L in 2012. No pesticide samples were collected at the Sherwood site.

Heather Duchsherer also provided a brief report on the Sherwood site. Seven samples were collected at the Sherwood site from February to September 2012. Similar to the Westhope site, there was 100% exceedance of the Total Phosphorus objective. The Sodium objective was exceeded in 5 out of the 6 samples analyzed. The Sulphate objective was exceeded in 1 out of 6 samples. Total Iron objective was exceeded 100% in all 6 samples. The TDS objective was exceeded 50% (3 out of 6 samples). The pH, DO, Boron and Chloride objectives were not exceeded. Similar to the Westhope site, there was no pesticide data for the Sherwood site in 2012. One joint sampling was conducted in 2012.

The issue of repeated water quality objective exceedances was raised again. The Board discussed what actions are needed to address the problem. There were questions whether the Board should review the current objectives, review the AEHC's Terms of Reference (TOR), and request the AEHC to come up with recommendations. A discussion on exceedances could help the Board to prioritize its activities. Nicole Armstrong offered to make a presentation to the Board on the development of nutrient management strategy. A modeling workshop will be held on April 30, 2013 in Grand Forks, ND.

**Action:** AEHC will send its Terms of Reference (TOR) to the Board.

Lana Pollack, IJC, mentioned some IWI funding could be available to conduct studies to determine the causes of exceedances in the Water Quality Objectives and recommended the SPARROW model as good starting point. Glenn Benoy mentioned the SPARROW could be helpful to determine water quality parameters such as sediment, nitrogen, and phosphorus, load estimates on an annual and seasonal basis. The WSA recommended John Mark-Davis as a new member of the Water Quality Committee. Agenda items 13 and 14 were discussed in conjunction with agenda item 12.

14. Report from the Souris River Task Force

Plan of Study (POS) – 2011 Flood

The POS was submitted to the IJC in December 2012. The IJC provided comments on the POS. Mark Colosimo and Syed Moin incorporated the IJC and legal comments into the latest version of the POS. Ted Yuzyk and Mark Colosimo reviewed the document and identified a few areas for improvement such as meeting the peer review requirement in accordance with IJC directives

that includes participants from both countries, and having a manager for the study. The funds needed to conduct the project are not available within the IJC itself. Therefore, the POS has to go to governments for funding in the form of a Reference. A separate study board to liaise with the Souris Board may be required. The timeline is dependent on receiving a reference from governments. The public will have an opportunity to review the POS. Online webinars where people could participate and leave comments were considered as one method of public participation. Public information sessions were also discussed by the Board. The Board was reminded of the 30-day requirement for public input including the webinars. The IJC Communications Unit would facilitate the webinars. The Board agreed to post the POS on the IJC/Souris Board Website and also decided to host a Public Information Session in Minot, ND.

**Action:** Organize a conference call between Co-Chairs, Ted Yuzyk, Mark Colosimo, IJC Communication people for Friday, February 22, 2013 at 9:00 am/10:00 am. Ted Yuzyk will send the notice for the conference call. Bob White will send out a clean copy of the POS.

15. Update on Water Management Projects

- Souris Probable Maximum Flood (PMF)

John Fahlman noted that the Souris Probable Maximum Flood (PMF) is an interesting study. The study included summer rainfall. The estimate showed significant increase in the PMF. The PMF study will be completed in the next couple of months and will be posted on the WSA's website. He briefly talked about the Coco-Rahs Can-Sask agreement, which will be ready for spring 2013.

- NAWS

Bob White reported several contacts were completed in 2012. Todd Sando mentioned the third round of the National Environmental Protection Act (NEPA) hearing is due in June – July 2013. The EIA will be ready for review. Manitoba and Missouri are currently pursuing legal action against the project.

- Souris River Flood Control Project

The project is being conducted with local sponsors. The estimated cost is $800 million dollars. Need the USACE involvement. BARR Engineering is doing the reconnaissance study to determine feasibility.

- Lake Metigoshe

Bob White reported there were no new developments since the last report. Still waiting to hear from the IJC.

- Other

There was no report from Manitoba.

The Clean Coal Initiative in Saskatchewan is just a proposal at this stage.

17. New Business

The Board recommended Scott Jutila to replace Ed Eaton (retired) and also serve in the Hydrology Committee.

**Motion:** Megan Estep motioned Scott Jutila to replace Ed Eaton and also join the Hydrology Committee. Seconded by Col. Price. **Carried**.

2011 Annual Report – Bob White is working on it and most of report is complete. B. White is using the USACE's 2011 Flood Report as a background, and expects to complete the annual report within a month.

Souris River Flow Forecasting Committee - the 2009 flood report is not complete.

18. Next meeting

The Board will hold a conference call on April 9, 2013 at 10:00 am CST to discuss the spring 2013 flow forecast.

The next face-to-face meeting is to be held on June 11-12, 2013 in Estevan or Weyburn. Environment Canada and the Water Security Agency will coordinate.

**Action**: Environment Canada and the Waters Security Agency will coordinate the hosting of the next face-to-face meeting.

19. Adjournment

The meeting was adjourned at 3:30 p.m.

**List of Attendees,**

**International Souris River Board Meeting**

**February 20, 2013**

## 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
Nicole Armstrong, Member for Canada, Manitoba Conservation & WS, Winnipeg, MB
Scott Gangl, Member for the United States, ND Game & Fish Department, Bismarck, ND
David Donald, Member for Canada, Environment Canada, Regina, SK
Dennis Fewless, Member for the U.S.A., ND Department of Health, Bismarck, ND

## IJC Staff

Commissioner Lana Pollack, IJC, Washington, D.C.
Ted Yuzyk, Liaison, IJC, Ottawa
Mark Colosimo, Engineering Advisor, IJC, Washington, D.C.

## Support Staff in Attendance

Robert White, U.S. Co-secretary, ND State Water Commission, Bismarck, ND
Frank Durbian, US FWS, Uphom, ND
Scott Jutila, US ACE, St. Paul, MN
Mark Lee, Manitoba Conservation and Water Stewardship, Winnipeg, MB
Heather Duchsherer, ND Department of Health, Bismarck, ND
Steve Robinson, USGS, Bismarck, ND
Scott Hill, Water Survey of Canada, Environment Canada, Regina, SK
Rodney Bowden, Water Survey of Canada, Winnipeg, MB
Glenn Benoy, IJC, Ottawa, ON
Mike Laitta, IJC, Washington, D.C
Girma Sahlu, Canadian Co-secretary, Environment Canada, Regina, SK

## Observers

Jim Olson, KXMC-TV, Minot, ND
Dan Jonasson, City of Minot Public Works, Minot, ND
Jean François Bibeault, Environment Canada, Montreal, QC
Andrea Travnicek, ND Governor's Office, Bismarck, ND

**International Souris River Board**
**ACTION ITEMS – progress updated February 20, 2013**

| PERSONS OR COMMITTEE RESPONSIBLE | TOPIC | MINUTE | ACTION | STATUS As of February 20, 2013 |
|---|---|---|---|---|
| Doug Johnson | Development of a International Souris River Board Procedures Manual | Sep 25/09-3<br>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. |
| Bob Harrison<br>Martin Graczyk<br>Ed Eaton | Report on the spring 2009 flood. | Sep 25/09-3<br>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<br>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. | 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.<br>Assigned to the Aquatic Health Ecosystem Committee for follow-up.<br><br>Closed |
| 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 |

**International Souris River Board**
**ACTION ITEMS – progress updated February 20, 2013**

| PERSONS OR COMMITTEE RESPONSIBLE | TOPIC | MINUTE | ACTION | STATUS As of February 20, 2013 |
|---|---|---|---|---|
| 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 |
| 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 |
| Committee Chairs | Membership update | February 20, 2013 | Committee Chairs will send their members to secretaries | ongoing |
| AEHC | Terms of Reference | February 20, 2013 | AEHC Co-chairs to send their TOR to the Board | ongoing |
| Ted Yuzyk & Mark Colosimo (IJC) | Conference call | February 20, 2013 | Organize a conference call for February 22, 2013 to discuss the Plan of Study (POS) | ongoing |
| Environment Canada and Water Security Agency | Next Face-to-Face Meeting | February 20, 2013 | Environment Canada and Water Security Agency will coordinate hosting the next Board meeting in June 2013 | ongoing |

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