



---

International Souris River Board

Canad Inns Destinations Centre  
Brandon, MB  
September 14, 2011

**Final Minutes**

**Board Members**

Russell Boals, Todd Sando, Dennis Fewless, Megan Estep, Doug Johnson, Bob Harrison, Colonel Price, Gregg Wiche, Dwight Williamson.

**Regrets:** Scott Gangl, David Donald.

**Attendees:**

Lana Pollack, Ted Yuzyk, Mark Colosimo, Ed Eaton, Bob White, Tom Econopoly, Kelly Hogan, Dan Selinger, Joel Wessman, Nicole Armstrong, Mike Sauer, Bruce Holiday, Joel Galloway, Girma Sahlu, Cliff Hanretty –Eaton Irrigation District, Kari Hauck – USGS, Ferris Chamberlain – US ACE, Ryan Ackerman – Ackerman – Estvold Engineering, Minot, Emily Huettl - Ackerman – Estvold Engineering, Minot, Judith Roberts – Congressman Berg’s Office, Bismarck, Jackie Velk – US Senator, John Hoeven’s Office, Minot, Jim Olson – KXMC TV Station, Minot, Tu-Uyen Tran - Grand Forks Herald, Grand Forks

1. Introduction and Opening Remarks.

Russell Boals convened the meeting at 8:07 a.m. Russell invited Board members and other participants to introduce themselves.

2. Approval of Agenda.

The agenda was approved as circulated.

Doug Johnson moved to accept the agenda as presented. Col. Price seconded the motion. Carried.

3. Approval of Minutes:

a. February 23, 2011 face-to-face meeting - Megan Estep moved to accept the minutes. Gregg Wiche seconded the motion. Carried.

b. May 19, 2011 conference call – Col. Price moved to accept the minutes. Gregg Wiche seconded the motion. Carried.

c. May 26, 2011 conference call – Doug Johnson moved to accept the minutes. Megan Estep seconded the motion. Carried.

d. June 3, 2011 conference call – Bob Harrison moved to accept the minutes. Col. Price seconded the motion. Carried.

Conference call minutes from July 26, August 15, and September 1, 2011 are pending. They will be sent to the Board shortly for review.

4. Review of Action Items,

There were no outstanding action items.

5. Review of September 13, 2011 Public Meeting and Board Presentations

The public meeting was attended by about 50 people including the media, which was a record turnout.

Comments and thoughts from Board members about the Public Meeting:

Todd Sando - the presentations made by Board members were well done and informative.

Doug Johnson – a good public turnout; the work of the Board is great.

Megan Estep – presentations were very good and well done.

Gregg Wiche – the presentations were made in a manner people could understand them. How do we respond to the questions raised?

Dennis Fewless – There were comments about water quality and winter releases.

Col. Price – good participation, we do need to respond to the questions raised. What is the process?

Bob Harrison – have we received written comments? How do we respond? What actions do we need to take? There were issues raised about drainage.

Final Thoughts:

Doug Johnson – attach the written comments and questions raised to the minutes.

Russell Boals summarized of issues raised at the public meeting

- Can things be done differently?
- Can the operating plan be changed?
- Should the IJC give a reference for a review of the 1989 Agreement?

Under the 1989 Agreement the US Corps of Engineers takes the lead during major flood events and prepares a flood document. The Board agreed that the flood report should be prepared in a timely manner given the significances of the 2011 flood event.

Ted Yuzyk mentioned the IJC would be supportive of a proposal to hire a consultant and that the IJC would like to see a review of the operating plan. The two main items being considered are- 1) post-flood report and 2) review of the operating plans. It was noted that approval from Canada and the US is required to change the operating plans.

Ed Eaton noted that the flood report is done in cooperation with the US FWS and Saskatchewan Watershed Authority. The 1989 Agreement puts the onus on the US ACE to complete the flood report. Ed Eaton stated that the flood report will document the hydrology, chronology of events, what went right, what went wrong, how decisions were made, issues encountered, and how they were resolved. US FWS and SWA do not have capacity other than to provide data to the US ACE to write the flood report.

Ed Eaton questioned the causes and effects of changing the current operating plan. He noted a review of the operating plan could be done in two phases – short term (before next year's flood) and long term plan for future floods. The Board's task now becomes to look at 3 major issues:

- Post-flood report,
- Short term Operating Plan (before next year's flood), and
- Long term Operating Plan (for future floods).

Doug Johnson noted that winter releases are within the terms of the Agreement. He cautioned that SWA could go to lower drawdown levels under the Agreement, but we need to be confident that the reservoirs can refill during the spring freshet.

Megan Estep mentioned the public wanted the reservoirs to be lower prior to the spring freshet but, if the reservoirs did not refill, there will also be a public concern.

The Corps will have a draft flood report ready by the end of December 2011 provided the Corps gets support from the US FWS and SWA. The flood report will document the event without any analysis; present issues encountered, and make suggestions on what can be done in the future.

Cliff Hanretty suggested that we need to allow for higher target flows to move more water through the system.

One of the requests put forward by the public was to have the Operating Plan revised in light of the 2011 floods. Russell Boals mentioned that one approach is to draft a proposal under the IWI program and hire a consultant/contractor to do the post-flood report in a timely fashion. Ted Yuzyk noted that IJC would be supportive of the proposal. However, the IJC still wants a review of the operating plan.

Russell also mentioned that the review will take some time and work, and once complete any recommendations would need to go to governments.

Russell mentioned that the second phase for the review of the operating plan may involve public meetings to gather input. Public meetings could be used to identify basin issues and/or the draft operating plan could be presented to the public for their review.

Two tasks were identified - 1) complete post-flood report, and 2) review of the operating plan which would involve an initial step of public input to identified issues.

Col. Price reminded the Board that the post-flood report needs to be done by December 2011. Ed asked if there were fiscal year 2011 funds available from the IJC. Mark Colosimo replied that fiscal year 2011 funds are pretty much gone. The next round of funds available would be for the fiscal year 2012.

It was agreed that Russell Boals will develop an IWI proposal in the next two weeks with the help of Megan Estep. Russell will send the draft IWI proposal to the Board for comments.

6. Determination of Natural Flow of the Souris River at Sherwood to August 31, 2011.

Dan Selinger reviewed the determination of natural flow of the Souris River at Sherwood for the period January 1 to August 31, 2011 (handout distributed). The total diversion to August 31, 2011 in the Souris River basin was 164,268 dam<sup>3</sup>. Total recorded flow at Sherwood was 1,965,274 dam<sup>3</sup>. Flow from non-contributing areas was 360,000 dam<sup>3</sup>. The total natural flow at Sherwood was 1,441,006 dam<sup>3</sup>. Therefore, the U.S. share (40% of the total natural flow at Sherwood) was 576,400 dam<sup>3</sup>. Flow received by the U.S. was 1,967,440 dam<sup>3</sup>; which resulted in a surplus delivery of 1,391,040 dam<sup>3</sup>. With respect to Long Creek, the recorded flow at Western Crossing was 345,000 dam<sup>3</sup>, and the recorded flow at Eastern Crossing was 472,011 dam<sup>3</sup> which also resulted in a surplus delivery of 127,011 dam<sup>3</sup>.

Col. Price moved to accept the determination of the 2011 natural flows to August 31 be accepted, Doug Johnson seconded the motion. Carried.

7. Review of 2011 Spring Hydrologic Conditions, Water Management Operations, and Forecast for summer 2011.

a. Saskatchewan

Doug Johnson provided a summary of the 2011 spring runoff forecast for Saskatchewan. Doug noted that most sloughs are full this year that weren't last year. There are 50 square miles covered with 3-4 feet of water. There are 15 square miles that were farmed in 2010 and will not be farmed this year. Some 40 of the 60 homes in Roche Percee were destroyed and will not be rebuilt. These families will be relocated; and the local people are in agreement. Another 25-30 homes downstream of Estevan were destroyed.

Current flow is roughly 1200 cfs at Sherwood which is above normal for this time of year. The plan is to continue with monthly calls. Doug mentioned that SWA wants to have its reservoirs drawdown be at least as low as the operating plan dictates, maybe even lower. SWA plans to hold releases steady over the fall and winter, and will make winter releases in conjunction with Lake Darling operations.

Saskatchewan expects to see more runoff from non-contributing areas in 2012. The first soil moisture report will be available on November 1<sup>st</sup>.

The geo-tech work on Alameda is progressing. Damages will be assessed and work done to ensure the reservoir is ready for 2012. Cabinet will provide funds. Rafferty will be assessed to determine if an emergency spillway is required.

b. North Dakota

Ed Eaton mentioned we had good communication and handled the snowmelt runoff very well. The rainfall event made flooding worse. Joel Galloway distributed a handout from the USGS. The Souris broke peak records at Westhope, ND. The gaging station (weir) sustained damages which will be fixed.

The USGS report indicates that record flow occurred throughout the Souris basin for the spring and summer of 2011. The total volume of flow past the Long Creek at Noonan gage, for the first 8 months of 2011, exceeded the sum for each year recorded since the gage was installed in October 1959. A peak record of 10,500 cfs was recorded on June 21, 2011.

The flows recorded at the Souris at Sherwood gage were also record setting. Record snowfall along with above normal precipitation through May and June led to increasing flows until June 23 when the record flow of 29,700 cfs was recorded. Recorded flows at the Sherwood gage exceeded the 80 year average flows for the entire January 1 to August 31 period. Flows recorded at the Souris River near Westhope gaging station exceeded the long term mean for the entire January 1 to August 31 period, as well. The peak gage height of 22.75 feet exceeded the previous peak of record by 3.6 feet. The gaging station structure and associated infrastructure was extensively damaged by the record high flows.

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 this spring due to high river levels.

c. Manitoba

Bob Harrison provided a summary of the spring 2011 hydrologic conditions and outlook. Bob mentioned the 2011 spring and summer flows and stages on the Souris River in Manitoba were of historic proportions. Major flooding occurred along the Manitoba portion of the Souris River from April to August 2011. Flooding is still occurring in the Souris River Valley upstream of Hartney.

The rainstorm of June 22 over the upper Saskatchewan portion of the watershed, which saw up to 150 mm (5.9 inches), had a devastating impact in the Souris River watershed. The extensive runoff, river flow, and reservoir conditions forced Saskatchewan Watershed Authority (SWA) to pass inflows above the Alameda and Rafferty reservoirs.

The current flow on the Souris River at Wawanesa is 4,800 cfs, which is well above the historic maximum recorded flow of 1,000 cfs in 1999.

d. U.S. Refuges and Reservoirs on the Souris River

Megan Estep noted that Lake Darling performed as designed. Ed Eaton asked if there were any damages regarding regulation of Lake Darling. Dam 87 is closed and the gates can not be opened as water is still flowing through the spillway. Dam 357 has no appreciable damage. Gate 96 was washed out.

Megan mentioned there were significant number of gate changes this year. US FWS staff were out at odd hours to ensure the safe operation of the refuges. Communication regarding drawdown was good.

Kelly Hogan distributed a report from the US FWS with highlights for the operation of the refuges.

Ed Easton asked if the use of Lake Darling as a re-regulation dam could be detrimental to the purposes of the refuge. Megan replied Lake Darling doesn't have an emergency spillway and we will need to look at the integrity of the structure. Dam safety is an issue for Lake Darling and the plan is to work with the Washington Dam Safety Office.

8. Update from Hydrology Committee

Doug and Megan mentioned the Committee has not met yet. Busy with other flood issues in the basin.

9. Update from the Flow Forecasting Liaison Committee

There were regular conference calls daily with the National Weather Service, Saskatchewan Watershed Authority, and ND State Water Commission. At this time the communication is mainly by email. Conference calls start early March and continued until mid July. Phone communications are carried out every day. There were no communication problems between Canada and the U.S. Gregg Wiche stated that in the Red River Basin, they have a chat site where everyone puts their daily information. Ed mentioned there was some uncertainty in the data from local agencies - a moving target. Alan Eskvold mentioned there was a time when there was no formal forecast. Calls need to be sequenced properly. Col. Price also noted that the forecast changed 3 times in 18 hours during the June event.

10. Update from the Aquatic Ecosystem Health Committee

Bruce Holiday and Mike Sauer gave a brief report on water quality. The principal water quality concerns in the Souris River basin relate to elevated concentrations of total dissolved solids (TDS), depleted dissolved oxygen, and high levels of nutrients especially phosphorus.

A total of 5 samples were collected by the USGS in 2010. Exceedances of specific water quality objectives at the Saskatchewan/North Dakota Border include phosphorus, sodium, iron, TDS and dissolved oxygen (DO). These results are relatively consistent with prior year's data except for sulfate and pH for which no exceedances were observed.

Total phosphorus exceeded the objective of 0.10 milligrams per liter in 80 percent of the samples. The maximum phosphorus concentration was 0.31 milligrams per liter, which is 3 times the objective. TDS also exceeded the objective of 1,000 milligrams per liter in 20 percent of the samples. Sodium and sulfate represent major constituents in the mineral composition of the Souris River and exceeded the objectives 40 percent and 0.0 percent, respectively.

Dissolved oxygen ranged from 0.6 milligram per liter to 13 milligram per liter. A concentration of less than 5 milligram per liter is considered an exceedance and this occurred in 17 percent of the samples.

A total of 10 samples were collected by Environment Canada in 2010. Nine were collected at Westhope (Manitoba/North Dakota Border), and one was collected at Sherwood (Saskatchewan/North Dakota Border) as part of the yearly joint USGS/EC QA/QC program.

The number of exceedances has decreased compared to 2009; although a number of other parameters have exceeded their objectives at least once. The decrease maybe partially due to

higher flows in the basin.

It was noted that Picloram has exceeded its water quality objective of 0.05µg/L for the first time in 10 years with a concentration of 0.0607 µg/L on May 5, 2010. Similarly, over the past 10 years iron has always exceeded its water quality objective of 300 µg/L; however, this year iron did not exceed its objective. The highest value recorded was 260 µg/L.

The water quality monitoring plan for 2011/2012 remains unchanged. Mike Sauer noted that DO is a problem in the Souris Basin. We now see improved DO conditions. Phosphorus is still high (100 % exceedance). Maybe we need to revise the objective. Joel Galloway mentioned that this year continuous monitoring was conducted because of winter releases. IWI funding allows USGS to monitor DO and the results show that DO did not drop below 6 mg/L throughout the winter because of the winter releases at Sherwood.

Nicole Armstrong mentioned North Dakota, Minnesota, and Manitoba are working on a “Nutrient Management Strategy” for the International Red River Board (IRRB). IRRB has created a Water Quality Committee to specifically focus on nutrients. Nicole has agreed to share the information about the Water Quality Committee and its activities with Board members.

Doug asked what the limiting factor for nutrients was. Mike Sauer replied that will be part of the strategy (investigation) to determine.

Joel Galloway noted that phenols were not analysed by the US this year. There were some detection limit issues with labs. Bruce mentioned phenols are still something the Board should be monitoring.

Dennis Fewless stated that TDS has been going up since 1993. Dennis questioned if groundwater is a major contributor. Nitrate objective might be too high; phosphorus objective might be too low. Maybe, nitrogen is the limiting factor.

Russell Boals asked if the water quality report of the Aquatic Ecosystem Health Committee (AEHC) is ready for the Board and if so what the Board wants to do with the report. Dwight Williamson replied the Board could accept the report as information. If loading information is needed, we need to adjust the monitoring program. Nutrient input data is important to Manitoba.

The Board agreed to accept the report. AEHC will continue to look at questions as to how the parameters are sampled.

Bruce concluded by giving a brief summary of the AEHC conference call held on March 29, 2011. Topics of the conference call included:

- Environmental effects,
- Phenols – issues?
- Communication,
- Water quality objectives,
- Flow and apportionment with water quality work,
- Threshold limits,

- Instream Flow Needs (IFN),
- Modelling and experimentation,
- IWI modelling – SPARROW Model,
- Action items – phenols,
  - Discussion on total coliform/fecal coliform, and
- Finalize draft minutes.

#### 11. 2011-2012 Work Plan

The work plan will be driven by the 2011 flood and required follow up activities.

#### 12. Update on International Joint Commission Activities

Mike Laitta and Ted Yuzyk gave a brief update about the data harmonization project. Phase III of the project is underway.

At the Chicago modelling workshop, there was agreement that the SPARROW Model would be used for water quality modelling. The next update will be in November 2011 with the Aquatic Ecosystem Health Committee. The 3<sup>rd</sup> modelling workshop is tentatively planned for January 2012.

#### 13. Update on Water Management Projects

- No new reports.

#### 14. Other business

- Annual Report – Bob White mentioned that work on the report is progressing, and that he is waiting for some input. Draft report will be ready shortly.
- Email read by Megan Estep (public submission) into the minutes.
- Conference call date – Friday, October 28, 2011 at 9:00 a.m. CST.
- Next Board face-to-face meeting – February, 28, 2012 in Bismarck, ND
- IJC appearance – Oct 18-21, 2011 in Ottawa. ISRB will appear on October 19
- Adjournment – Col. Price moved to adjourn the meeting. Carried.
- The meeting was adjourned at 12:15 p.m. CDT.



## **List of Attendees, International Souris River Board meeting, September 14, 2011**

### **Board Members in Attendance**

Russell Boals, Canadian Co-chair, Environment Canada, 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  
Dennis Fewless, Member for the U.S.A, ND Department of Health, Bismarck, ND  
Doug Johnson, Member for Canada, Saskatchewan Watershed Authority, Moose Jaw, SK  
Dwight Williamson, Member for Canada, Manitoba Water Stewardship, Winnipeg, MB  
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

### **Regrets**

Scott Gangl, Member for the United States, North Dakota Game and Fish,  
David Donald, Member for Canada, Environment Canada, Regina, SK

### **IJC Staff**

Commissioner Lana Pollack, IJC, Washington, D.C.  
Mark Colosimo, Engineering Advisor, IJC, Washington, D.C.  
Ted Yuzyk, IJC, Ottawa  
Mike Laitta, IJC, Washington D.C. (via conference call)

### **Support Staff in Attendance**

Ed Eaton, IJC Technical Specialist, U.S. Army Corps of Engineers, St. Paul, MN (by phone)  
Joel Galloway, USGS, Bismarck, ND  
Tom Econopoly, US FWS, Bismarck, ND  
Kelly Hogan, Project Leader, U.S. Fish and Wildlife Service, Berthold, ND  
Nicole Armstrong, Manitoba Water Stewardship, Winnipeg, MB  
Robert White, U.S.A Co-secretary, ND State Water Commission, Bismarck, ND  
Mike Sauer, ND Department of Health, Bismarck, ND  
Bruce Holliday, Water Quality Monitoring, Environment Canada, Regina, SK  
Dan Selinger, Water Survey of Canada, Environment Canada, Regina, SK  
Girma Sahlu, Canadian Co-secretary, Environment Canada, Regina, SK

### **Observers**

Cliff Hanretty, Eaton Irrigation Board, ND  
Joes Wessman, Canadian Consulate, Minneapolis, MN  
Kari Hauck – US ACE  
Ferris Chamberlain – US ACE  
Ryan Ackerman – Ackerman – Estvold Engineering, Minot  
Emily Huetttl - Ackerman – Estvold Engineering, Minot  
Judith Roberts – Congressman Berg’s Office, Bismarck  
Jackie Velk – US Senator, John Hoeven’s Office, Minot  
Jim Olson – KXMC TV Station, Minot  
Tu-Uyen Tran - Grand Forks Herald, Grand Forks

**International Souris River Board**  
**ACTION ITEMS – progress updated September 14, 2011**

<b>PERSONS OR COMMITTEE RESPONSIBLE</b>	<b>TOPIC</b>	<b>MINUTE</b>	<b>ACTION</b>	<b>STATUS As of September 14, 2011</b>
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.	Closed and assigned to the Hydrology Committee for follow-up.
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 September 14, 2011**

<b>PERSONS OR COMMITTEE RESPONSIBLE</b>	<b>TOPIC</b>	<b>MINUTE</b>	<b>ACTION</b>	<b>STATUS As of September 14, 2011</b>
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.	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. Closed and assigned to the Aquatic Health Ecosystem Committee for follow-up.
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. Closed and assigned to the Aquatic Health Ecosystem Committee for follow-up.
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

**International Souris River Board**  
**ACTION ITEMS – progress updated September 14, 2011**

<b>PERSONS OR COMMITTEE RESPONSIBLE</b>	<b>TOPIC</b>	<b>MINUTE</b>	<b>ACTION</b>	<b>STATUS As of September 14, 2011</b>
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	September 14, 2011	Ed Eaton, in cooperation with SWA, US FWS, and USGS, to prepare the flood report	ongoing
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 pan	ongoing
Secretaries	Public meeting submissions	September 14, 2011	Secretaries will attach all written public submission to the Board minutes	ongoing

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