

2015-2016

REPORT TO MINISTERS

# Mackenzie River

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B A S I N    B O A R D





Cover © Jason Straka

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Avocet, Peace-Athabasca Delta, Alberta

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Dogbane Leaf Beetle, Peace-Athabasca Delta, Alberta

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Oil Sands Facility, Alberta

# Letter Of Transmittal



December 1, 2016

**The Honourable Catherine McKenna**

Minister of Environment and Climate Change  
.....  
Government of Canada  
Ottawa, Ontario

**The Honourable Pauline Frost**

Minister of Environment  
.....  
Government of the Yukon  
Whitehorse, Yukon

**The Honourable Carolyn Bennett**

Minister of Indigenous and Northern Affairs Canada  
.....  
Government of Canada  
Ottawa, Ontario

**The Honourable Mary Polak**

Minister of Environment  
.....  
Government of the Province of British Columbia  
Victoria, British Columbia

**The Honourable Shannon Phillips**

Minister of Environment and Parks  
.....  
Government of the Province of Alberta  
Edmonton, Alberta

**The Honourable Robert C. McLeod**

Minister of Environment and Natural Resources  
.....  
Government of the Northwest Territories  
Yellowknife, Northwest Territories

**The Honourable Scott Moe**

Minister Responsible for the Water Security Agency  
.....  
Government of the Province of Saskatchewan  
Regina, Saskatchewan

.....  
Honourable Ministers:

On behalf of the members of the Mackenzie River Basin Board, it is my pleasure to submit the Annual Report of the Mackenzie River Basin Board for Fiscal Year 2015-2016.

Sincerely,

Cheryl Baraniecki, Chair, Mackenzie River Basin Board

# Message From The Chair

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This Report to Ministers describes the activities of the Mackenzie River Basin Board (MRBB) in Fiscal Year 2015-2016.

The Governments of British Columbia and the Northwest Territories signed a Bilateral Water Management Agreement on October 15, 2015. On behalf of the MRBB, I congratulate British Columbia and the Northwest Territories on the completion of this milestone achievement. The MRBB continues to support Alberta, British Columbia, the Northwest Territories, Saskatchewan, and the Yukon as they negotiate the remainder of their bilateral water management agreements. The MRBB looks forward to the completion and implementation of these bilateral water management agreements.

The MRBB has embarked on an exciting new partnership with researchers from the University of Alberta and other national and international institutions. Indigenous MRBB Members are front and center in the *Tracking Change - The Role of Local and Traditional Knowledge in Watershed Governance* research project. The Tracking Change research project will document traditional and local knowledge in the Mackenzie River Basin. The MRBB anticipates that this partnership will enhance the Board's capacity to consider the needs and concerns of Indigenous Peoples, as directed by the *Mackenzie River Basin Transboundary Waters Master Agreement*. We are excited to be working with and as part of the Tracking Change Project Team.

Looking forward to 2016-2017, the MRBB anticipates that more bilateral water management agreements will be completed and progress will be made on the negotiation of other agreements. The MRBB will continue work on the next MRBB State of the Aquatic Ecosystem Report. The Board will also seek Ministerial direction to guide the scope and objectives of an independent review of the MRBB and its operations, as per the Master Agreement.

The success of the MRBB depends on the work of MRBB Committees and the MRBB Secretariat. Committee members consist of Board Members, Alternates, or their delegates. Their work helps to ensure that the MRBB and the signatory jurisdictions meet their obligations under the 1997 *Mackenzie River Basin Transboundary Waters Master Agreement*. The Board appreciates their professional conduct and dedication to the MRBB.

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Cheryl Baraniecki, Chair, Mackenzie River Basin Board

# Message From The Executive Director

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The Mackenzie River Basin Board (MRBB) had another successful year with a number of accomplishments in Fiscal Year 2015-2016.

British Columbia and the Northwest Territories completed their Bilateral Water Management Agreement. This is the second agreement to be completed in as many years. Under the *Mackenzie River Basin Transboundary Waters Master Agreement*, the MRBB is tasked to monitor the progress of implementing the Bilateral Water Management Agreements and to provide a forum for communication, coordination, and information exchange for the Parties as the agreements are completed and implemented.

The MRBB appointed a Working Group to help define a set of environmental and socio-economic indicators that the MRBB State of the Aquatic Ecosystem Report (SOAER) will be structured around. The Working Group also began investigating the feasibility of interactive visual web-based reporting for the SOAER.

The MRBB Traditional Knowledge and Strengthening Partnerships Steering Committee worked in partnership with the University of Alberta, Government of the Northwest Territories and other national and international institutions to implement a research project entitled *Tracking Change - The Role of Local and Traditional Knowledge in Watershed Governance*. The Tracking Change research project will provide advice on how local and traditional knowledge should be communicated, and explore the role of local and traditional knowledge in informing watershed governance at multiple scales.

The MRBB Communications Committee responded to a number of inquiries from the public, academics, and government agencies on behalf of the Board. In addition, the Committee also provided oversight of the content on the MRBB website.

The work of the MRBB depends on the human resource contributions provided by the MRBB Government Members and their staff and the MRBB Indigenous Members. These contributions are very much appreciated.

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Don Pittman, Executive Director, Mackenzie River Basin Board

# Introduction

This report summarizes the activities of the Mackenzie River Basin Board (MRBB), its Secretariat and committees for the Fiscal Year April 1, 2015 to March 31, 2016.



Figure 1. The Mackenzie River Basin.

# The Mackenzie River Basin Transboundary Waters Master Agreement

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## Background

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The governments of Canada, British Columbia, Alberta, Saskatchewan, the Northwest Territories and Yukon (the Parties) signed the *Mackenzie River Basin Transboundary Waters Master Agreement* (the Master Agreement) to address the fundamental issue of water management cooperation. The Master Agreement came into effect on July 24, 1997. The purpose of the Master Agreement is to establish common

principles for the cooperative management of the Aquatic Ecosystem of the Mackenzie River Basin (Figure 1), to establish an administrative mechanism to facilitate the application of the principles set forth in the Master Agreement, and to make provisions for bilateral water management agreements that address inter-jurisdictional water quality, quantity and related issues.

## The Master Agreement Principles

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Under the Master Agreement, Part C, the Parties are committed to:

Managing the Water Resources in a manner consistent with the maintenance of the Ecological Integrity of the Aquatic Ecosystem;

Managing the use of the Water Resources in a sustainable manner for present and future generations;

The right of each to use or manage the use of Water Resources within its jurisdiction provided such use does not unreasonably harm the Ecological Integrity of the Aquatic Ecosystem in any other jurisdiction;

Providing for early and effective consultation, notification and sharing of information on developments and activities that might affect the Ecological Integrity of the Aquatic Ecosystem in another jurisdiction; and

Resolving issues in a cooperative and harmonious manner.

# The Mackenzie River Basin Board

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## Structure and Operations

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The Mackenzie River Basin Board (MRBB) was established under Part D Section 1a of the Master Agreement. The MRBB was assigned to administer the terms of the Agreement and to serve as a forum where all governments can cooperate in an effort to maintain the ecological integrity of the Basin's aquatic ecosystem.

The MRBB has no more than thirteen members. Two members represent each province and territory (Alberta, British Columbia, Saskatchewan, Yukon, and the Northwest Territories). One of the two provincial and territorial members has been appointed to represent Indigenous organizations in each respective jurisdiction and to provide an Indigenous perspective in the work of the MRBB. Up to three members represent the Government of Canada and two federal members are selected from signatory departments (Indigenous and Northern Affairs Canada and Environment and Climate Change Canada). Health Canada provides advice and expertise on areas relevant to its departmental mandate.

The Board is unique because of this interjurisdictional partnership, the presence of members representing Indigenous interests alongside representatives of the governments, and the commitment by all parties to maintain the ecological integrity of the aquatic ecosystem.

The Master Agreement also established a staff arm for the MRBB called the Secretariat, under Part D Section 2d. The Secretariat is tasked to carry out the programs, basic administrative duties and investigations required by the Board. Currently, the MRBB Secretariat consists of one staff member, based in Yellowknife, Northwest Territories and housed within Environment and Climate Change Canada.

The MRBB is not a regulatory or licensing board, and has no legal or policy basis to regulate resource use in any of the jurisdictions. However, the Board may inform regulatory decisions made in the various jurisdictions by providing factual material, such as the State of the Aquatic Ecosystem Report (SOAER), to inform development decision makers, or by participating in and influencing pre- or post-regulatory processes, such as planning, regional or cumulative environmental impact assessment processes.

The MRBB conducts business, shares information, and provides guidance to Board Committees and the Secretariat through a series of formal Board Meetings. Government Board Members typically submit Member agency reports during face to face meetings. These reports provide a mechanism for sharing water-related information amongst the jurisdictions and with Indigenous Groups, and can support prior notification commitments. Indigenous Members also share information about indigenous concerns within each jurisdiction.

MRBB Meetings also typically include updates from the Board Committees and the Secretariat. The Board also conducts annual Business Planning. Board Meetings provide a forum to share information on specific issues or projects.

The Environment and Climate Change Canada Board Member has chaired MRBB Meetings by consensus of the other Board Members since the Board's inception. The MRBB Secretariat is responsible for recording and distributing meeting minutes.

## Finances

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Under the Master Agreement, Environment and Climate Change Canada is responsible for managing the expenditures of the Board, the costs of which are shared equally by the parties. MRBB costs include staffing and operation of the Secretariat office, to provide working-level support for the Board, and ensuring effective Indigenous participation by paying MRBB-related expenses.

The MRBB met face to face twice during the period of April 1, 2015 to March 31, 2016; once in Vancouver, British Columbia and once in Whitehorse, Yukon. The MRBB conducted its remaining business through teleconferences and electronic means.

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Terns at Sunset, Mamawi Lake, Alberta

# Status of Bilateral Water Management Agreements

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The Master Agreement makes provisions for the provinces and territories to complete bilateral water management agreements (BWMA). The completion and implementation of the BWMA is one of the most effective ways to protect the aquatic ecosystem of the Mackenzie River Basin.

The BWMA will quantify commitments at key transboundary crossing points. The water management areas being addressed include Surface Water Quality, Surface Water Quantity, Groundwater, and Aquatic Ecosystem Health. The BWMA will commit the jurisdictions to be

proactive and forward looking, and to facilitate joint learning that will inform bilateral water management in the Mackenzie River Basin.

Many of the core elements of the BWMA will be common to all the agreements. However, each agreement will include provisions that are unique to the circumstances of each transboundary region.

The BWMA will guide how the jurisdictions will work together to manage risks to water quality, quantity, and aquatic ecosystem health.

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## **British Columbia & Northwest Territories**

British Columbia and the Northwest Territories completed their BWMA in October 2015.

British Columbia and the Northwest Territories will now focus on implementing the terms of the BWMA. The Parties will establish a Bilateral Management Committee to administer the agreement, and will also establish technical committees to support implementation of the agreement.

The British Columbia/Northwest Territories BWMA applies to all transboundary waters shared between British Columbia and the Northwest Territories in the Mackenzie River Basin, primarily the Liard River Watershed.

## **Alberta & Northwest Territories**

Alberta and the Northwest Territories completed their BWMA in March 2015.

Alberta and the Northwest Territories are implementing the terms of the BWMA. The Parties have established a Bilateral Management Committee to administer the

agreement, as well as technical committees to support the agreement.

The Alberta/Northwest Territories BWMA applies to all transboundary waters shared by the Northwest Territories and Alberta in the Mackenzie River Basin.

## **Northwest Territories & Yukon**

The Northwest Territories and Yukon completed a BWMA in 2002.

Planning related to the management of transboundary water resources continued through the implementation of the Northwest Territories Water Stewardship Strategy and the Yukon Water Strategy.

Discussions are ongoing with respect to updating the current agreement to bring the BWMA in line with the other BWMA currently being negotiated and implemented.

The Northwest Territories/Yukon BWMA applies to the Peel River Watershed.

## **British Columbia & Yukon**

The British Columbia/Yukon BWMA negotiations are ongoing. The parties intend to complete the agreement in Fiscal Year 2016-2017.

British Columbia and Yukon have shared information, discussed their respective interests, and discussed the components for each section of the Bilateral Water Management Agreement. Both parties are consulting within their jurisdictions in accordance with their specific obligations throughout the development of the BWMA.

The British Columbia/Yukon BWMA will apply to all transboundary waters shared between British Columbia and Yukon in the Mackenzie River Basin, primarily the Liard River Watershed.

## **British Columbia & Alberta**

The British Columbia/Alberta BWMA negotiations are ongoing.

Alberta and British Columbia have shared information, discussed their respective interests, and discussed the components for each section of the BWMA. The parties continue to work on the agreement appendices.

The British Columbia/Alberta BWMA will apply to all transboundary waters shared between British Columbia and Alberta in the Mackenzie River Basin, with the main focus of negotiations on the Peace River Watershed.

## **Alberta & Saskatchewan**

The Alberta/Saskatchewan BWMA negotiations are ongoing.

Alberta and Saskatchewan have shared information, discussed their respective interests, and discussed the components for each section of the BWMA.

The Alberta/Saskatchewan BWMA will apply to all transboundary waters shared by Saskatchewan and Alberta in the Mackenzie River Basin.

## **Saskatchewan & Northwest Territories**

The Saskatchewan /Northwest Territories BWMA negotiations are ongoing. The parties intend to complete the agreement in Fiscal Year 2016-2017.

Saskatchewan and the Northwest Territories have shared information, discussed their respective interests, and discussed the components for each section of the BWMA. Both parties are consulting in accordance with their specific obligations throughout the development of the BWMA.

The Saskatchewan/Northwest Territories BWMA will apply to all transboundary waters shared by Saskatchewan and the Northwest Territories in the Mackenzie River Basin.

## **Looking forward**

The provinces and territories will continue to negotiate their respective BWMA's in Fiscal Year 2016-2017. The MRBB anticipates that some BWMA's will be completed in this next year.

Alberta and the Northwest Territories, and British Columbia and the Northwest Territories will work towards implementing their BWMA's. The MRBB will look for linkages between its work and the work being undertaken for the BWMA's.

The MRBB is re-establishing the MRBB Technical Committee. The Technical Committee will work on science and monitoring issues that cut across individual bilateral water management agreements. The Technical Committee will also engage the Government of Canada, which is not a signatory to the BWMA's.

# MRBB Committees

The MRBB has created a number of working committees to help administer MRBB duties set out under the Master Agreement. The committees are comprised of members of the Board or their appointed delegates. Each committee is tasked with specific responsibilities.

Committee members are selected to promote and lead these activities, and support specialists from jurisdictions and federal agencies are tasked to assist with the work of the committees. The activity level of individual committees varies over time according to need.

**Table 1: Mackenzie River Basin Board Committees and Mandates.**

Committees	Responsibilities
<p><b>State of the Aquatic Ecosystem Report (SOAER) Steering Committee</b></p>	<ul style="list-style-type: none"> <li>Manage information</li> <li>Determine options for format of SOAER</li> <li>Establish process for report preparation and subsequent updates</li> <li>Determine recommendations for content of report</li> <li>Prepare and review SOAER reports</li> </ul>
<p><b>Communications Committee</b></p>	<ul style="list-style-type: none"> <li>Develop a communication strategy</li> <li>Prepare the annual report to Ministers</li> <li>Develop MRBB website content</li> <li>Prepare presentation materials and literature for the general public</li> </ul>
<p><b>Traditional Knowledge and Strengthening Partnerships (TKSP) Steering Committee</b></p>	<ul style="list-style-type: none"> <li>Provide Traditional Knowledge oversight</li> <li>Incorporate traditional knowledge into MRBB operations and products such as the SOAER</li> </ul>

# MRBB State of the Aquatic Ecosystem Report Steering Committee

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The MRBB State of the Aquatic Ecosystem Report (SOAER) Steering Committee consists of MRBB Indigenous Members and staff assigned by members of the MRBB.

The MRBB appointed a Working Group to assess an extensive list of environmental and socio-economic indicators that were originally identified during a SOAER Indicators Workshop held in late 2013. The SOAER Indicators Working Group included MRBB Indigenous Members and representatives of the provincial, territorial, and federal governments.

SOAER Working Group Members assessed the proposed indicators and are considering indicators related to the natural and socio-economic conditions of the basin, water quality and quantity, in-stream water uses, species health and abundance, habitat status, and human well-being.

The SOAER Working Group also investigated methods and best practices that will enable the SOAER to effectively describe and comment on the suite of indicators from both the traditional knowledge and western science perspectives.

## Looking forward

The SOAER Indicator Working Group expects to finalize the list of proposed indicators and submit them to the MRBB for approval.

The SOAER Steering Committee will investigate the feasibility of using a web-based visual platform as the basis for the SOAER. The next SOAER is anticipated to be a short, high level document that summarizes the key findings.

The SOAER Steering Committee will work with the MRBB Traditional Knowledge and Strengthening Partnerships Steering Committee to begin collecting available traditional and local knowledge and western science and monitoring information that will form the basis of the SOAER.

The SOAER will ultimately support the capacity of the jurisdictions to implement the Mackenzie River Basin BWMA.

# MRBB Communications Committee

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The MRBB Communications Committee consists of an MRBB Indigenous Member and staff assigned by members of the MRBB.

The Communications Committee oversaw the completion of the MRBB 2014-2015 Report to Ministers. The Communications Committee also helped develop responses to information inquiries received by the MRBB.

The Communications Committee implemented a new look and feel of the MRBB Website, and maintained the website content.

## Looking forward

The MRBB Communications Committee will support the communications needs of the MRBB as they arise. Specific tasks will include completing the MRBB 2015-2016 Report to Ministers, maintaining the MRBB website content, and developing MRBB communication materials.

# MRBB Traditional Knowledge and Strengthening Partnerships Steering Committee

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The MRBB Traditional Knowledge and Strengthening Partnerships (TKSP) Steering Committee consists of the MRBB Indigenous Members and staff assigned by members of the MRBB.

The TKSP Steering Committee continued to provide support to the development of the next SOAER. The Steering Committee helped to identify and refine key indicators that could be informed jointly by traditional and local knowledge and western science. This work was based on recommendations developed by the TKSP Steering Committee from the 2013 SOAER Indicators Workshop to guide the meaningful inclusion of traditional and local knowledge in future SOAERs.

The TKSP Steering Committee participated in the International Association for the Study of the Commons Biennial Meeting, held in Edmonton, Alberta in May 2015 as an education and outreach opportunity. Some Steering Committee Members participated in a panel discussion about the key environmental issues within the Mackenzie River Basin.

The TKSP Steering Committee helped implement the *Tracking Change - The Role of Local and Traditional Knowledge in Watershed Governance* research project. The Tracking Change research project is led by researchers at the University of Alberta, working in partnership with the Government of the Northwest Territories, the Mackenzie River Basin Board, Indigenous governments and organizations from across the Basin and other national and international academic partners. The research project was funded under a Social Sciences and Humanities Research Council research grant in July 2015. Indigenous MRBB Members are the Steering Committee for the Tracking Change project.

The Tracking Change research project will document new traditional and local knowledge in the Mackenzie River Basin, share knowledge,

experiences and challenges within and across Basin communities, provide advice on how the data should be communicated, and explore the role of local and traditional knowledge in informing watershed governance at multiple scales. This information will be available for future SOAERs and could also support the implementation of the BWMAAs.

The TKSP Steering Committee met with the academic project leads in November 2015. Participants discussed the request for proposals process by which communities could engage within the project, as well as project governance. Participants also described the key steps that would be needed to implement the project. The TKSP Committee also met with members of the NWT Water Strategy Indigenous Steering Committee in February 2016 to further refine project objectives, provide guidance to solicitation of community-driven proposals and to identify key project needs and priorities. Requests for Proposals for community-driven initiatives are to be issued in April 2016 with selection of winning proposals and allocation of funds anticipated for June 2016.

Participants also began scoping a Youth Knowledge Fair, where students from across the Mackenzie River Basin will research a topic identified as important to their community and then come together to share their findings with one another. Projects will be informed by traditional and local knowledge, and student participants will be encouraged to talk to community Elders and land users. The Knowledge Fair is scheduled for May 2016. It is anticipated that members from the MRBB will take part in the Knowledge Fair.

## Looking forward

The MRBB TKSP Steering Committee will support and provide guidance to the process of gathering traditional and local knowledge for the SOAER. The TKSP Steering Committee will also provide advice and guidance on how this information can be effectively communicated in the SOAER. The TKSP Steering Committee will continue to work closely with the SOAER Steering Committee to advance the next SOAER.

Through the Tracking Change research project, the TKSP Steering Committee will allocate funds for research projects across the Mackenzie River Basin, as well as in the Mekong and Amazon Watersheds. The TKSP Committee will review community-driven research proposals. TKSP Steering Committee members are exploring options for participation in the first biannual Tracking Change partners meeting, to be held in Ubon, Thailand in February 2017.

TKSP Steering Committee Members expressed an interest in developing communication and outreach materials in support of their outreach work on behalf of the MRBB.

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Richardson River, Alberta

# Information Sharing

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Several MRBB Ministers met during the 2015-2016 Canadian Council of Ministers Environment Meeting. The Ministers discussed the need for cooperation in implementing the BWMA's. The Ministers also discussed the need to provide Ministerial direction to the MRBB before the Board implements the Strategic and Operational Review it had begun preparing for in 2014-2015. The MRBB has stood down on the Strategic Review until Ministers provide direction.

In 2015-2016 at the bi-annual meetings, Board Members shared Member Reports on activities and issues within each jurisdiction of the Basin, as per prior notification provisions within the Master Agreement. MRBB Committees and the Secretariat also briefed the MRBB on their activities.

Board Members were also briefed on:

- Spill Notification Protocols enacted by each jurisdiction in the Mackenzie River Basin. MRBB Members highlighted how interested parties are notified in the event of a contaminant spill, and contact information for reporting contaminant spills.

- Geochemical and Isotopic Tracer Approaches for Establishing Scientifically Sound Baseline Data for Shallow Groundwater and Surface Waters in Yukon. This work will enable the Yukon Government to identify approaches to establish scientifically sound baselines for groundwater and surface water and develop requirements for water monitoring and reporting as it relates to oil and gas development, regulate oil and gas activities and assess whether these activities are impacting groundwater and surface waters, and enable tracking of contaminants associated with the shale gas and hydraulic fracturing fluids.

# Looking Forward

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In Fiscal Year 2016-2017, the Mackenzie River Basin Board anticipates that its activities will be directed towards the following priorities:

- supporting a meeting of Mackenzie River Basin Ministers,
- a strategic and operational review of the Board and its work,
- discussion of possible role(s) of the Board in the implementation of the bilateral agreements, and development of communication materials in support of the completion of the agreements,
- continued work by the State of the Aquatic

Ecosystem Report Steering Committee and Traditional Knowledge and Strengthening Partnerships Steering Committee on the next Mackenzie River Basin State of the Aquatic Ecosystem Report, and

- continued work by the Traditional Knowledge and Strengthening Partnerships Steering Committee in cooperation with the University of Alberta, Government of the Northwest Territories, national, and international partners to support the *Tracking Change - The Role of Local and Traditional Knowledge in Watershed Governance* Research Project.

# Appendix I: Financial Report

## Mackenzie River Basin Board Financial Report April 1, 2015 to March 31, 2016

Budget	\$280,000.00	Comments ( As specified in the Master Agreement )
Carry Forward	\$354,361.00	2014-15 carry forward
<b>Total Budget</b>	<b>\$634,361.00</b>	( In anticipation of SOAER and Strategic Review expenses )
<b>MRBB Expenditures</b>		
Personnel	\$141,074.00	Wages and benefits for the Executive Director
Service Contracts	\$49,969.00	Honoraria and Expenses for Indigenous Members
Transportation and Telecommunications	\$8,034.00	Travel, transportation, postage and telecommunications
Information Services	\$3,255.00	Publishing and printing services
Purchased materials, parts and supplies	\$8,233.00	Miscellaneous
<b>Total 2014-15 Expenditures</b>	<b>\$210,565.00</b>	
<b>2015-16 Carry Forward</b>	<b>\$ 423,796.00</b>	
<b>Professional Services</b>	<b>\$ 20,000.00</b>	Contribution agreement funded by Government of the Northwest Territories on behalf of the MRBB in support of SOAER-related work. 2016-2017 annual contribution to be reduced by \$20,000.

# Appendix II: MRBB Membership on March 31, 2015

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## **Alberta**

Member: Brian Yee  
Alternate: Tim Toth  
Indigenous Member: Cleo Reece

## **British Columbia**

Member: Lynn Kriwoken  
Alternate: Pieter Bekker  
Indigenous Member: Vera Nicholson

## **Northwest Territories**

Member: Erin Kelly  
Alternate: Robert Jenkins  
Indigenous Member: Leon Andrew

## **Saskatchewan**

Member: John Fahlman  
Alternate: Gary Neil  
Indigenous Member: Joseph Tsannie

## **Yukon**

Member: Heather Jirousek  
Alternate: Vacant  
Indigenous Member: Sharon Peter

## **Environment Canada**

Member: Cheryl Baraniecki  
Alternate: Mike Renouf

## **Indigenous and Northern Affairs Canada**

Member: Mohan Denetto  
Alternate: Jennifer O'Neill

## **Health Canada (Observer)**

Member: Ward Chickoski  
Alternate: Mary Frances MacLellan-Wright



# Appendix III: Changes in MRBB Membership April 1, 2015 to March 31, 2016

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## **Northwest Territories**

Erin Kelly replaced Shannon Cumming as MRBB Member

Robert Jenkins replaced Erin Kelly as alternate MRBB Member

Leon Andrew replaced Sonny MacDonald as Indigenous MRBB Member

## **Saskatchewan**

John Fahlman replaced Jim Gerhart as MRBB Member

## **Environment Canada**

Cheryl Baraniecki replaced Richard Smith as MRBB Member

## **Alberta**

No Change

## **Indigenous and Northern Affairs Canada**

No Change

## **Yukon**

No Change

## **Health Canada (Observer)**

No Change

## **British Columbia**

No Change

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Stilt Sandpipers, Mamawi Lake, Alberta









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