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Alberta Biodiversity
Monitoring Institute

Annual Report

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GROWING

How we have

GROWING

in 2011/12

↑ 51%

increase over 2010/11 in total specimens identified

↑ 42%

increase over 2010/11 in total survey sites
(including off-grid sites)

↑ 32%

increase over 2010/11 in core survey sites

“

Biodiversity includes an amazing array of species, most of which the average Albertan may never see. But these species are all part of Alberta's habitats and ecosystems, which in turn provide us with ecosystem services ranging from water filtration to carbon storage.”

~ Dan Farr, Director, Application Centre



Alberta Biodiversity
Monitoring Institute

“Thanks to our Board of Directors



Ray Gilmour
Chairman

Greg Taylor
Vice-Chairman



Shawn Wasel
Secretary/Treasurer

Bob Demulder
Director

Stephen Lougheed
Director

Brady Whittaker
Director



Simon Dyer
Director

Roger Gibbins
Director

John Kolk
Director

Dave Pryce
Director

My, how things have changed.

It wasn't long ago that the ABMI was alone, a pioneer in the business, pushing forward to establish biodiversity monitoring systems that had never been done in Canada, let alone Alberta. To the credit of the early visionaries, the need for biotic baseline information and tracking change was considered absolutely essential for good resource management. But, while there were many pieces of policy in place that required measurement, no comprehensive provincial system existed. It was therefore difficult or impossible for resource managers to report on performance with any degree of confidence. A commitment was made to close this gap.

Flash forward to today: the need for scientifically credible monitoring and independent reporting is now broadly supported. This is important not only for our resource management systems but also for accessing markets and capital. This has become an economic issue, and it has caught everyone's attention.

Alberta needed and has made a commitment to establish a world-class environmental monitoring system that encompasses air, land, water, and biodiversity. An independent panel has provided advice on what that system should look like, and through that process, the ABMI has been recognized as a leader in our field. Progress in establishing the new system is being made as we speak, and we are expected to fill some of the identified monitoring functions. Additionally, the province and the federal government have entered into a bilateral agreement for integrated monitoring of Alberta's oil sands. Significant resources will be made available to enhance our monitoring systems in this important region, and the ABMI's program in this area will be fully funded.

The ABMI is well positioned to serve the needs of Alberta. We have a proven track record and the broad support of industry, government, and environmental groups; we continue to produce scientifically credible products and services.

continued on next page

and to our partners and sponsors.”

- | | | | |
|---|---|-------------------------------------|------------------------|
| Alberta Innovates - Technology Futures | ConocoPhillips Canada | Imperial Oil | StatOil |
| Alberta Land Institute | Devon Energy Corporation | Ivanhoe Energy | Suncor Energy |
| Alberta-Pacific Forest Industries Inc. | Dover Operating Corp. | Japan Canada Oil Sands Limited | Sunshine Oilsands Ltd. |
| Athabasca Oil Corporation | Ecological Monitoring Committee for the Lower Athabasca | MEG Energy | Syncrude |
| Canadian Natural Resources Limited | Environment Canada | Nexen Inc. | Teck Resources Limited |
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| Climate Change and Emissions Management Corporation | Hammerstone Corporation | Royal Alberta Museum | University of Alberta |
| | Husky Energy | Shell Canada Limited | University of Calgary |



Kirk Andries
Executive Director

“The ABMI is well positioned to serve the needs of Alberta.”

continued

The ABMI's major development partners (the governments of Alberta and Canada, and the energy and forest industries) are increasingly experiencing the value that the ABMI can offer, and they like what they see. We have initiated a number of projects to more fully develop and demonstrate relevant applications of ABMI-generated information. These include applications for land-use planning, ecological goods and services, climate change adaptation, biodiversity offset assessment, reclamation, and other management applications. We are making great steps forward in these areas, further strengthening the utility of the Institute's products and services.

The coming months will certainly be full of challenges; however, we look forward to working with both levels of government to bring this world-class provincial monitoring system for Alberta to fruition.

I offer my sincere appreciation to those dedicated individuals who have invested time, energy, and resources into the development and operations of the Institute. Your leadership has been critical, and we thank you for your continued support.



Kirk Andries
Executive Director

Reports from the Centres

More than
80,000
species in Alberta

Alberta is home to more than 80,000 species, including plants, animals, arthropods, bacteria, fungi, and algae. The ABMI painstakingly collects, analyzes and reports on the status of biodiversity of more than 2,000 of these species from 1,656 sites across the province, representing a diversity of wildlife from both terrestrial and aquatic ecosystems. The ABMI also documents changes in habitat structure and human footprint.

Over the years, our values have not changed: we deliver scientifically credible, value-neutral, independent, and publicly accessible data.

Our purpose is to inform government, industry, environmental communities, First Nations, and the public about what is happening in our environment so that they can make informed decisions and plan for the future.

Re-Visioning Alberta: Human Footprint & Land Cover Maps

In early 2012, the ABMI successfully released geospatial inventory maps of Alberta: wall-to-wall human footprint and wall-to-wall land cover. These maps are not only valuable tools for land-use and resource managers; they are strong examples of the results that can be achieved by coordinating efforts. These maps give Albertans a clear overview of activities and land use in their province.

The ABMI Human Footprint Map

The ABMI Human Footprint Map (beta version) describes the amount and type of human footprint across the province of Alberta circa 2007. This mapping product is a compilation of multiple layers: those produced by the ABMI and those obtained through a data-sharing agreement with the government of Alberta and individual resource companies. The map is still preliminary and is continually being updated and improved; a 2010 version is forthcoming. We are working to secure agreements that allow us to publicly release the 2007 and the 2010 data products.

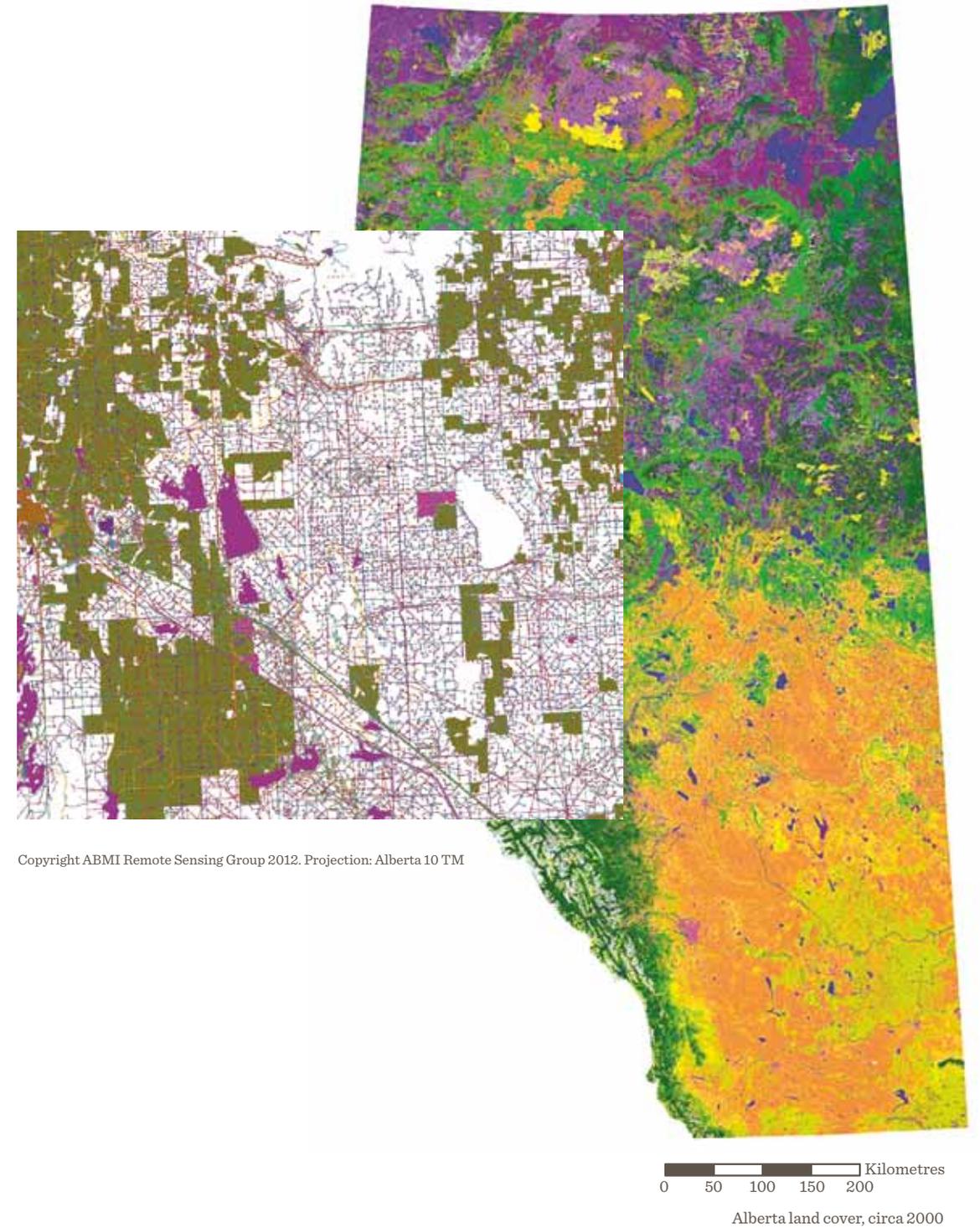
The ABMI Land Cover Map

The ABMI Wall-to-Wall Land Cover (Vegetation) Map is an assembled data product that describes the spatial distribution of land cover across the province of Alberta, circa 2000. It is the best currently available complete representation of Alberta's land cover.

The map is a blended mosaic of two pre-existing land cover products: the Canadian Forest Service's Earth Observation for Sustainable Development map of the forested region, and Agriculture and Agri-Food Canada's map of the agricultural zone.

The ABMI has made a series of important enhancements to improve the overall quality and consistency of the preliminary product, and we are in the process of completing an exhaustive accuracy assessment designed to provide end users with critical information on the map's spatial and thematic quality. The results are expected to be released by the spring of 2012 and may be accompanied by an updated map.

Both products are readily accessible via the ABMI website (www.abmi.ca).



Copyright ABMI Remote Sensing Group 2012. Projection: Alberta 10 TM



Keeping the Institute on Track

The Executive Office keeps the Institute on track by ensuring that the program is being run efficiently and effectively. The Executive function works directly with the Board of Directors and liaises with our stakeholders. During 2011/12, we ensured deliverables met Board expectations, and we achieved the following results:

Financial Resources

The Executive Office has an instrumental role in securing sustainable funding for the ongoing growth and maintenance of the program. In 2011/12, sufficient funding was received for the Institute's \$8.5-million budget. While this funding enabled the Institute to do considerable work, it is still well below the full program budget requirements. Toward that goal, industry, government, and the ABMI are actively engaged in discussing a funding strategy that is both long term and equitable. Our top priority remains finalizing an approach to achieving secure, long-term, and sustainable funding.

Provincial Biodiversity Monitoring

The ABMI is expected to fill some of the monitoring functions for the new provincial environmental monitoring system, and the Executive Office has been engaged in helping to establish the new provincial system. Additionally, the province and the federal government have entered into a bilateral agreement for integrated monitoring in Alberta's oil sands. Appropriate resources will be made available to enhance our monitoring systems in this important region.

Business Agreements

We executed renewed business agreements with each of the program's delivery partners:

- Alberta Innovates – Technology Futures
- Royal Alberta Museum
- University of Alberta

Communications and Outreach

We continued to communicate with a variety of audiences, including government, industry, and other stakeholder groups, to emphasize the importance of the ABMI as part of Alberta's resource management system.

Program Application

We also continued to work to embed the ABMI metrics and monitoring functions into the Government of Alberta planning and monitoring processes.

Data Collection from across the Province

The Monitoring Centre is responsible for the complex system of biodiversity data collection throughout the province. As the primary function of the ABMI, data collection activities receive the dominant share of program resources. In the field, we implement spring and summer terrestrial surveys, summer wetland surveys, and winter mammal tracking surveys. The Monitoring Centre is also responsible for remote sensing data collection, processing, specimen sorting, and data verification. During the 2011/12 season, we achieved the following results:

Project Management

The Alberta Innovates - Technology Futures facility in Vegreville provides the infrastructure for the Monitoring Centre to operate, including office, lab, and equipment storage space. In addition to our full-time staff, we managed 50 part-time, seasonal staff to support data-collection and specimen-sorting activities throughout the year. We continued to develop relationships with partnering organizations to support field data-collection activities; Alberta Environment and Sustainable Resource Development (ESRD) provides access to accommodations and helicopter fuel in remote locations while the University of Alberta provides access to its field station. Numerous other post-secondary institutions provide access to dormitories for summer field staff accommodations.

Data Collection

2011/12 was a challenging season as the Monitoring Centre moved to two regional bases of operation, one at the University of Alberta's Meanook Biological Research Station and the other staged out of Red Deer College. In addition, dry conditions in Northern Alberta resulted in the large Richardson fire, which impacted some of our field survey activities. This fire was roughly the size of P.E.I. at over 600,000 ha. Meanwhile, the southern part of the province was experiencing a wetter-than-normal year, resulting in washed-out roads and difficult access.

Despite these operational challenges, we successfully collected data at 134 core terrestrial sites, 129 wetlands, and 84 winter sites. We also successfully collected off-grid data (one-time surveys of specific types of sites) at 16 terrestrial sites in the Parkland Natural Region and 25 wetland sites across northern Alberta. Off-grid data is used to develop scientifically credible reference conditions and biodiversity indices.

Field activity in 2011/12 was focused in the northeast, parkland and far southern portions of the province. Complementary ABMI data was collected at 18 terrestrial locations in the Alberta-Pacific Forest Management Agreement Area. This complementary data collection activity was funded by Alberta-Pacific and is being used to support its fine-scale effectiveness monitoring program.

Finally, we successfully prepared for the 2012 field season by selecting 160 new core sites and 45 new off-grid sites, securing equipment, and developing operating plans.

Our 2012 field operations are concentrated in Northern Alberta, including the oil sands region, and in the South Saskatchewan Land-Use Framework Planning Region and northern prairies.

We successfully collected data at:

134

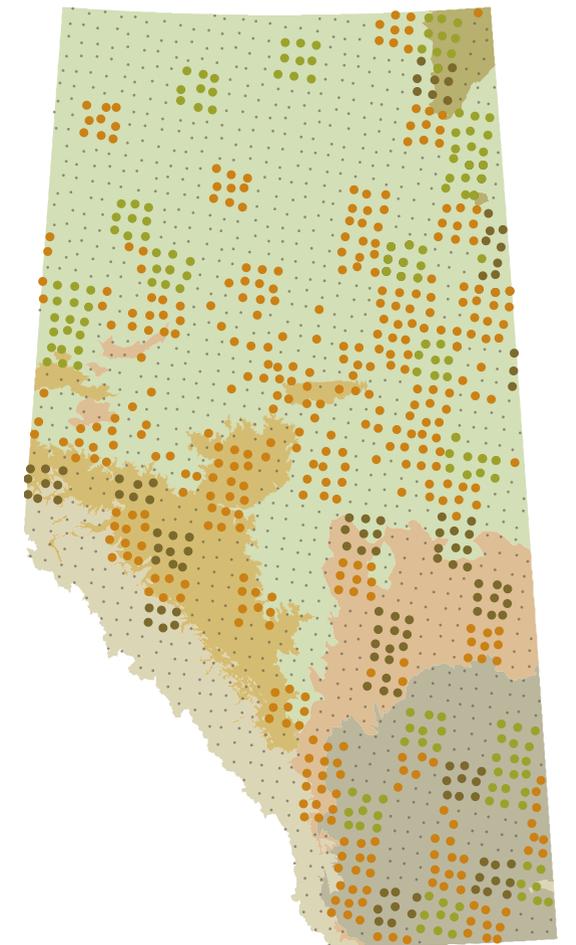
core terrestrial sites

129

wetland sites

84

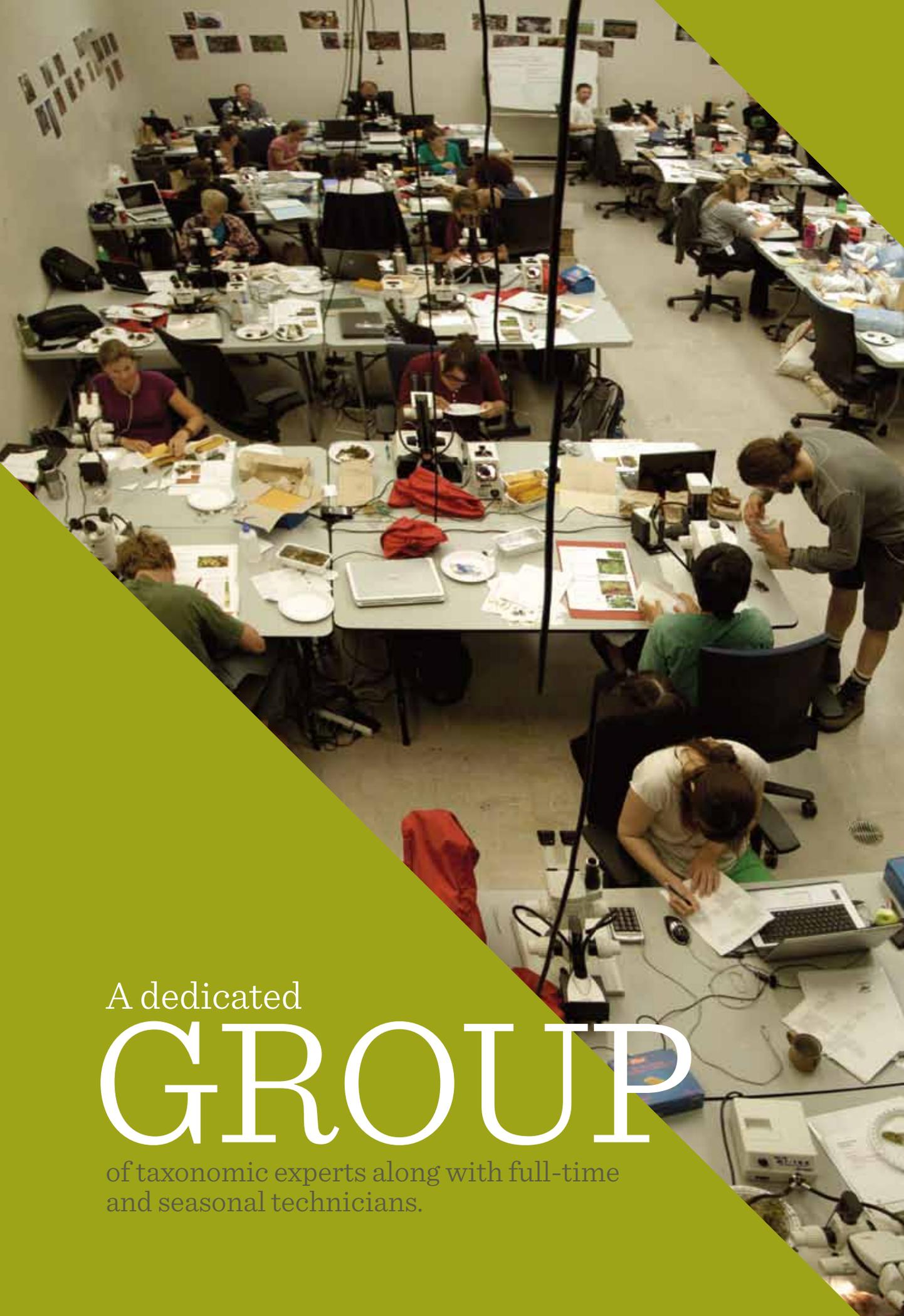
winter sites



0 35 70 140 210 280 Kilometres

Legend

- ABMI sites
- 2012 planned sites
- 2011 sampled sites
- 2003/2010 sampled sites



Processing Centre

Track, Sort, Identify, Research & Archive

The ABMI Processing Centre is located at the Royal Alberta Museum and is responsible for receiving and tracking field samples, sorting field specimens, conducting species-level identification, doing taxonomic research, and handling the long-term archival (curation) of voucher specimens. The Processing Centre also supports training seasonal technicians—first with specimen collection prior to the start of each field season, and then with specific taxonomic training prior to the specimen-sorting blitz at the end of each field season.

Project Management

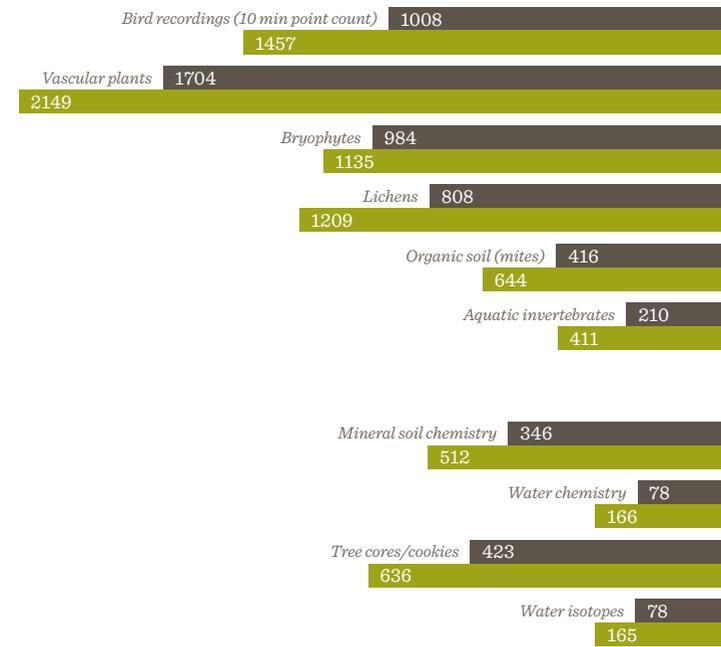
The Royal Alberta Museum in Edmonton provides the management and infrastructure required for operation of the ABMI Processing Centre, including laboratories, offices, equipment (e.g., microscopes), and environmentally stable specimen collections storage. Our team consists of a dedicated group of taxonomic experts along with full-time and seasonal technicians.

Specimen Processing & Identification

In 2011/12, we processed 7,005 biotic and 1,479 abiotic samples, which is an increase of about 40% over the previous year. The total number of specimens identified in 2011/12 was 63,407 (plus 242.8 hours of bird recordings), bringing the total number of specimens identified to date to 229,980 (plus 845.2 hours of bird recordings). Please note that these results include only those specimens identified by the Processing Centre, and not those identified in the field.

2011
2012

2011 total samples processed: 6,046
2012 total samples processed: 8,484



2011 total specimens identified: 41,897
2012 total specimens identified: 63,407



A dedicated
GROU

of taxonomic experts along with full-time and seasonal technicians.

Maintain & Improve Scientific Excellence

The Science Centre is responsible for maintaining and continuously improving scientific excellence in all areas of the ABMI and works closely with the Monitoring and Processing Centres to apply quality control, scientific audits, and new or improved data collection protocols. We are also responsible for advancing data analysis and interpretation so that the ABMI's communication products meet the evolving needs of decision makers. Our integrated team ensures that the scientific credibility of the Institute remains world-class. During 2011/12, we achieved the following results:

Field Data Collection & Specimen Processing

We worked with ESRD to refine fish-monitoring protocols for tertiary watersheds throughout Alberta. This new system will integrate data collection by the ABMI and ESRD and will provide information that is used by ESRD to determine fish sustainability throughout Alberta. We also worked with the Public Lands Division of ESRD to develop and test rangeland and wetland health assessments. In conjunction with the Royal Alberta Museum, we refined methods to collect aquatic invertebrates and concluded testing of DNA barcoding for mites and invertebrates. Finally, we began developing methods to create a map of predicted ecosites for the prairies and parkland.

Remote Sensing Data Collection

New landscape products were developed to describe human footprint and vegetation throughout Alberta. Beta versions of these wall-to-wall maps have been produced and are posted on the ABMI website. Detailed mapping of the 3 x 7 km photo plots is proceeding rapidly.

Biodiversity Index Development

During the past year, we explored methods to calculate biodiversity intactness based on models that incorporate stand type and age. This analytical development is facilitated by the new wall-to-wall maps of human footprint and vegetation that the ABMI has developed. In addition, we explored methods to evaluate trends over time in species surveyed by the ABMI. This trend analysis will continue next year. A major advancement during 2012/13 will be our capacity to create predictive maps of species abundance and biodiversity intactness throughout Alberta. This research is being incorporated into ABMI's biodiversity applications.

Scientific Profile & Research

As a follow-up to direction received from the ABMI Science Committee, we conducted research on high-profile vertebrate species and rare habitats. These analyses demonstrate how the ABMI field data, and associated GIS products, can be combined with information from other organizations to help managers assess status and trend for focal species.

The ABMI
COLLECTS,
ANALYZES, and
REPORTS

on the status of biodiversity of more than 2,000 species using data collected from 1,656 sites across the province.

The Hub of Communication & Information

The Information Centre is the hub of communication and information at the ABMI. This includes managing data and access to information products, developing publications, building stakeholder relationships, and ensuring the ABMI has access to private and public lands to conduct surveys.

The Information Centre team expanded this year to include Information and Communication Coordinators as we consistently look for new and innovative ways to communicate the state of biodiversity to stakeholders and describe why it matters to Albertans. During 2011/12, we achieved the following results:

Publications & Outreach

The Status of Biodiversity in the South Saskatchewan Planning Region (SSPR) report is the ABMI's latest and most comprehensive report. Released in August 2011, the SSPR report outlines the ABMI's intactness results for a wide range of species, human development, and habitats in this economically and culturally significant region. The report garnered attention from stakeholders and media alike and has paved the way for stakeholders to gain a better understanding of biodiversity in this province and the work that the ABMI does.

We continued to build relationships with stakeholders and engaged in extensive consultations and discussion forums in preparation for upcoming reports on the status of biodiversity in the Athabasca Oil Sands Region and the status of landbirds in the Boreal Plains Ecozone.

In December 2011, the 1st ABMI Internal Forum was held for all ABMI staff members. The event provided an opportunity for information sharing, presentations, and discussions on key issues, namely internal communication strategies. As a result of the forum, the ABMI

Communications Working Group was formed with the mandate to follow up on suggestions and to create stronger internal communication.

Survey Site Access

The ABMI successfully achieved access to approximately 130 survey sites, 72 of which were established on private land or grazing dispositions in the White Zone. One hundred and five information packages were distributed to landowners and disposition holders, providing them with information about the ABMI's findings on their lands. The ABMI worked closely with numerous representatives from national, provincial, and municipal jurisdictions for the purpose of negotiating long-term access to all of Alberta's land bases. To support the 2012 field season, the ABMI must gain access to 160 survey sites. This work was 80% completed by March 31, 2012.

Website & Data Accessibility

The ABMI website (www.abmi.ca) has been regularly updated to reflect our core value of access to information. More information on biodiversity applications is currently available, along with new product and protocol updates,

raw data, and peer-reviewed publications. Database modifications to accommodate 2011 terrestrial, wetland, and remote sensing data represented the most significant work on our database this season. The database was also restructured for efficient data loading and to host terrestrial and wetland off-grid data. New standard operating procedures were developed to streamline database-loading procedures and improve data quality assurance.

Streamlining Field Data Collection & Management

In 2011/12, we continued developing custom software for electronic field data collection using field computers. Feedback from the 2011 pilot project was incorporated and improvements were made in preparation for full-scale field computer deployment for the 2012 field season. As of May 2012, we are on track to collect 100% of terrestrial field data electronically. In addition, we aim to improve various collection and processing tasks, such as electronic data submissions to the ABMI Processing Centre and electronic sample tracking.

Other new publications include a brochure titled Biodiversity Matters to Alberta, an updated e-news format, and increased social networking (Twitter: @ABbiodiversity). These initiatives allow the Institute to better connect with a wider audience.

Advancing Monitoring Capacity

The Application Centre leads the development of products and services that go beyond the core business of the ABMI and supports a wide range of environmental planning and management needs. During 2011/12, we achieved the following results:

Regional Monitoring Designs

The Application Centre advanced the ABMI's monitoring capacity by developing protocols for monitoring rare plants and animals, and supported improved caribou management in Alberta by analyzing telemetry data. The work was led by the ABMI's regional monitoring coordinator and was completed by a team of academics and other collaborators, including two ABMI ecologists shared with Alberta Innovates – Technology Futures. Core funding for the work was provided by the oil sands industry via the Ecological Monitoring Committee for the Lower Athabasca (EMCLA). The projects also promoted more efficient regulation of the industry by fulfilling selected wildlife and biodiversity clauses in *Environmental Protection and Enhancement Act* approvals for oil sands developments. Several reports were produced, including technical monitoring design documents. This comprehensive overview of the ABMI's operations in northeastern Alberta gives interested readers a clear picture of the methods used by the ABMI to monitor biodiversity in this remote and challenging landscape. For more information, please see www.emcla.ca.

Ecosystem Services Assessment

A biodiversity offset case study was initiated in collaboration with the Integrated Landscape Management Chair at the University of Alberta.

Alberta's Land-use Framework has proposed biodiversity offsets as a potential tool to compensate for biodiversity losses associated with land-use development in the province.

This Ecosystem Services project examines technical issues with designing and implementing a regulated system, using the oil sands industry in boreal Alberta as a case study. Researchers investigated how ABMI data could be used to estimate losses and gains in biodiversity from oil sands development and offsetting activities such as land protection and reclamation. Priority locations for offset activities will be identified, ways that alternative conservation objectives influence the location, size, and cost of the resulting offsets will be examined. This work will help inform the development of an offset system for the province that is capable of efficiently meeting conservation objectives valued by Albertans.

New Applications

Finally, groundwork was laid in 2011/12 for new applications that support the adaptation of Alberta's biodiversity management system to climate change, and to enable the assessment of ecosystem services as part of Alberta's strategy for environmental competitiveness. The work builds the core capacity of the program by adding data and knowledge that would otherwise be difficult to acquire.

Applications add
VALUE
to the ABMI's core business.

Smart Policy for Climate Change: Climate Change Adaptation Project

The ABMI is pleased to be leading a major province-wide project focusing on climate change impacts on biodiversity in Alberta and practical ways in which they can be addressed.

The project, already under way, will develop realistic plans for the management of Alberta's wild species of plants and animals as their environment is altered by climate change. Proactive investments in the knowledge and tools for effective biodiversity management under a changing climate will deliver significant benefits to Albertans and avoid crisis-driven interventions that are reactive, costly, and often ineffective.

The Climate Change and Emissions Management Corporation awarded this \$2.4-million collaborative project to the ABMI, and it will be carried out over the next three years. Results and progress reports will be made available on a yearly basis.

The project involves a team of biodiversity scientists and policy analysts from the University of Alberta, Miistakis Institute, Alberta Innovates, and the Government of Alberta. The team will assess the climate-related vulnerability of hundreds of species ranging from inconspicuous prairie flowers to familiar backyard birds, and create an action plan that addresses both vulnerabilities and opportunities.

“

Our project helps develop and deliver 'smart' policy that makes sense and is effective in light of climate change.”

~ Dan Farr, Director, Application Centre

Some key outcomes of this project:

1. Vulnerability assessment and action plan

This assessment will focus on the changing geographic distribution of species in relation to climate and other environmental factors like vegetation, soil, and human land use.

2. Local adaptations for biodiversity-related ecosystem services

Climate change in southern Alberta will alter many of the services people receive from nature, ranging from fresh water supplies to wildlife-based tourism. This project will support communities by developing a map-based decision support system to help people maintain these benefits as climate changes.

3. Managing species at risk in a changing climate

This project will incorporate climate change risks and adaptation strategies into Alberta's processes for the assessment and recovery of species at risk. It will also develop and field test technologies to reduce the negative impacts of climate-related habitat loss on plants with small geographic ranges, and to mitigate the impacts of extreme weather events on rare grassland birds.

Summarized Financial Statements

of the Alberta Biodiversity Monitoring Institute

(March 31, 2012)

1

Report of the Independent Auditor on the Summary Financial Statements

To the Board of Directors
Alberta Biodiversity Monitoring Institute

The accompanying summary financial statements, which comprise the summary statement of financial position as at March 31, 2012, the summary statements of operations and net assets for the year then ended, are derived from the audited financial statements of Alberta Biodiversity Monitoring Institute for the year ended March 31, 2012. We expressed an unqualified opinion on those financial statements in our report dated August 1, 2012. Those financial statements, and the summary financial statements, do not reflect the effects of events that occurred subsequent to the date of our report on those financial statements.

The summary financial statements do not contain all the disclosures required by Canadian generally accepted accounting principles. Reading the summary financial statements, therefore, is not a substitute for reading the audited financial statements of Alberta Biodiversity Monitoring Institute.

Management's Responsibility for the Summary Financial Statements

Management is responsible for the preparation of a summary of the audited financial statements in accordance with Canadian Audit Standard (CAS) 810.

Auditor's Responsibility

Our responsibility is to express an opinion on the summary financial statements based on our procedures, which were conducted in accordance with Canadian Audit Standard (CAS) 810, "Engagements to Report on Summary Financial Statements."

Opinion

In our opinion, the summary financial statements derived from the audited financial statements of Alberta Biodiversity Monitoring Institute for the year ended March 31, 2012 are a fair summary of those financial statements, in accordance with Canadian Audit Standard (CAS) 810.

Coyle & Company
Coyle & Company
Chartered Accountants

August 1, 2012
Edmonton, Alberta

ALBERTA BIODIVERSITY MONITORING INSTITUTE
Summarized Financial Statements
As at and for the year ended March 31, 2012

	2012	2011 (Restated)
RESULTS FROM OPERATIONS		
REVENUE		
Government of Alberta	\$ 5,205,000	\$ 2,348,000
Government of Canada	105,000	110,000
Private sector	2,896,000	2,395,000
Interest income	24,514	4,945
	<u>8,230,514</u>	<u>4,857,945</u>
STAFFING		
Executive office	222,202	340,322
Science centre	401,915	224,700
Information centre	419,172	377,376
Date collection centre	1,353,420	906,737
Lab Processing and Identification centre	416,871	-
Application centre	219,164	-
	<u>3,032,744</u>	<u>1,819,135</u>
PROGRAM EXPENDITURES		
Executive office	95,228	126,878
Science centre	361,170	501,937
Information centre	215,242	181,063
Data Collection centre	2,609,800	1,858,773
Lab Processing and Identification centre	212,865	-
Application centre	303,484	-
Expense recoveries	(50,000)	(59,507)
	<u>3,747,789</u>	<u>2,609,144</u>
EXCESS OF REVENUE OVER PROGRAM EXPENDITURES	1,449,981	399,666
NET ASSETS - BEGINNING OF YEAR (RESTATED)	842,313	442,647
NET ASSETS - END OF YEAR	\$ 2,292,294	\$ 842,313
FINANCIAL POSITION		
ASSETS		
Cash	\$ 279,118	\$ 605,254
Advances to the University of Alberta	727,492	353,508
Accounts receivable	1,592,850	90,000
Short term investment	500,000	250,000
	<u>\$ 3,099,460</u>	<u>\$ 1,298,762</u>
LIABILITIES AND FUND BALANCES		
Accounts payable and accrued liabilities	\$ 507,166	\$ 456,449
Deferred revenue	300,000	-
NET ASSETS		
General Fund (unrestricted)	2,292,294	842,313
	<u>\$ 3,099,460</u>	<u>\$ 1,298,762</u>

ON BEHALF OF THE BOARD

Shawn Ward Director
Simon Dyer Director



Edmonton Office

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