

Highlights from 2021-2022



Thank you for financial support





Thank you for financial support





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Government
of Canada

Thank you for financial support



Strategic Plan

1. Monitoring and Research Goals

Providing scientific information on lakes and their watersheds to increase knowledge and inform lake management.



Strategic Plan

1. Monitoring and Research Goals

Promoting academic research pertaining to lakes.



Strategic Plan

1. Monitoring and Research Goals

Supporting Indigenous communities in achieving their water monitoring objectives.

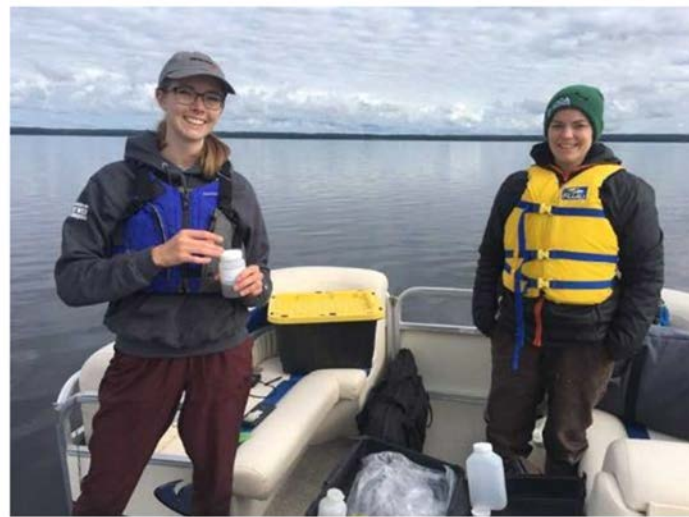


Strategic Plan

1. Monitoring and Research Goals

Fostering linkages between water quality and fisheries expertise and management.







Number of Lake Sampled:

26

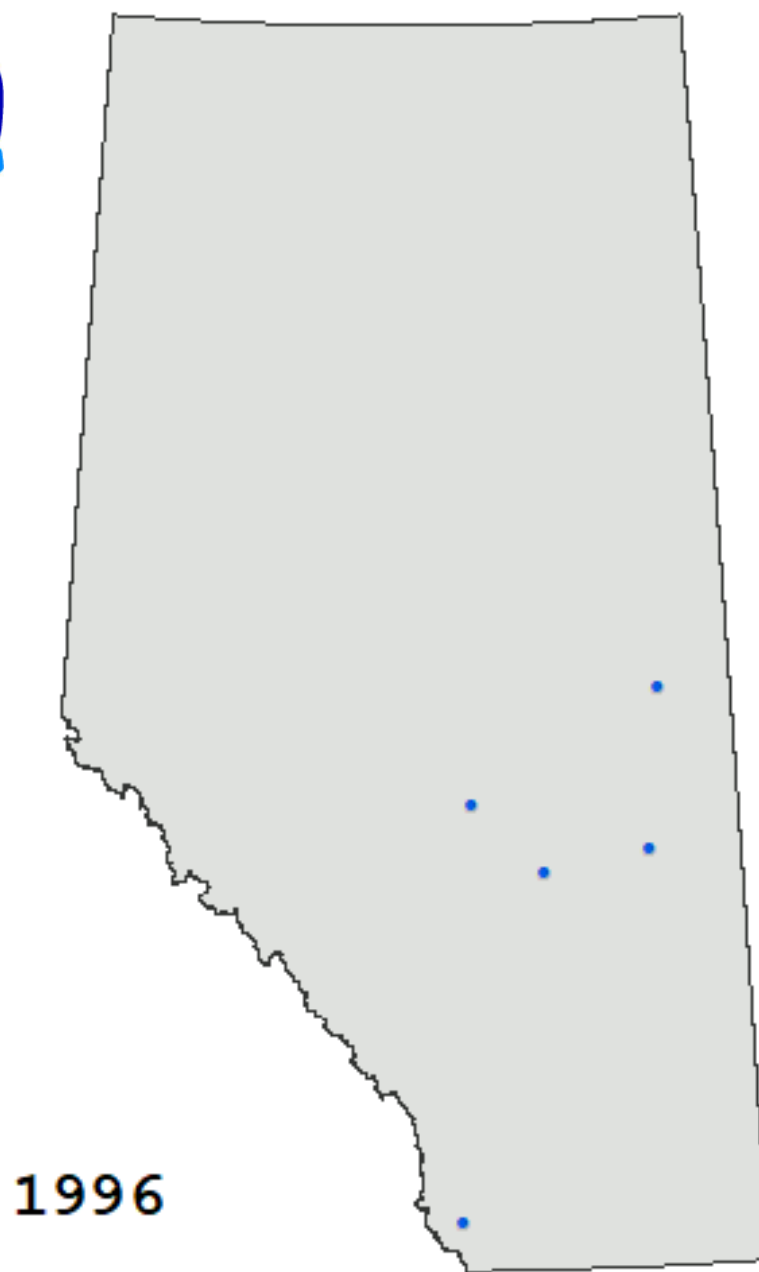
Number of Sampling Trips:

104

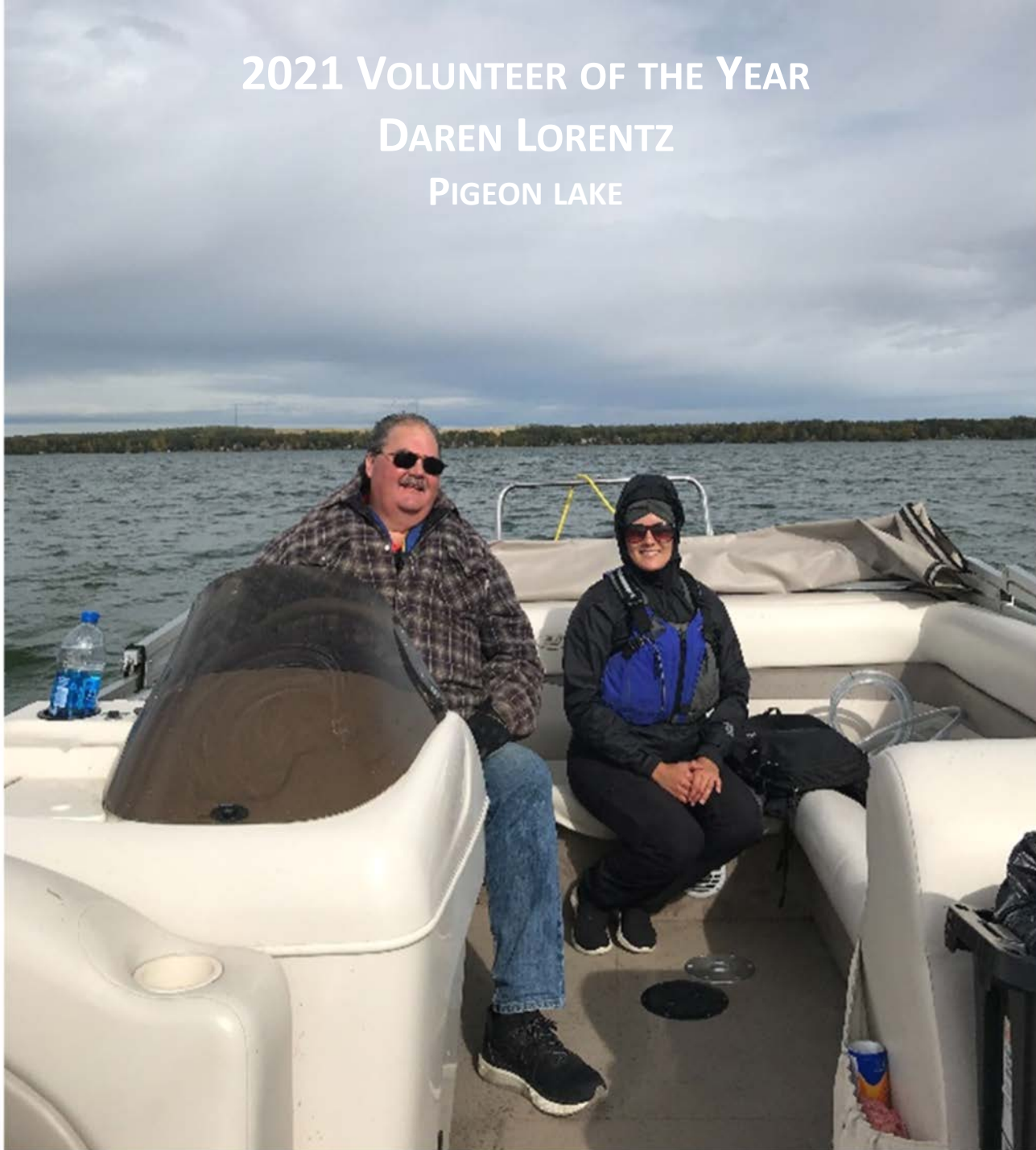
Volunteer Hours:

382





2021 VOLUNTEER OF THE YEAR
DAREN LORENTZ
PIGEON LAKE



MONITORING OF REMOTE AND
UNDER-SAMPLED WATERBODIES.

SAMPLING AS FAR NORTH AS
WADLIN LAKE.

NUMBER OF LAKE SAMPLED:

9

NUMBER OF MONITORING TRIPS:

27



LAKEs OF THE CARVEL PITTED DELTA

NUMBER OF LAKEs MONITORED:

44



LakeKeepers



THANK YOU DAVID TREW
AND WALT NIELSEN.





LakeKeepers



NUMBER OF LAKE SAMPLED:

40



NUMBER OF MONITORING TRIPS:

123

VOLUNTEER HOURS:

623



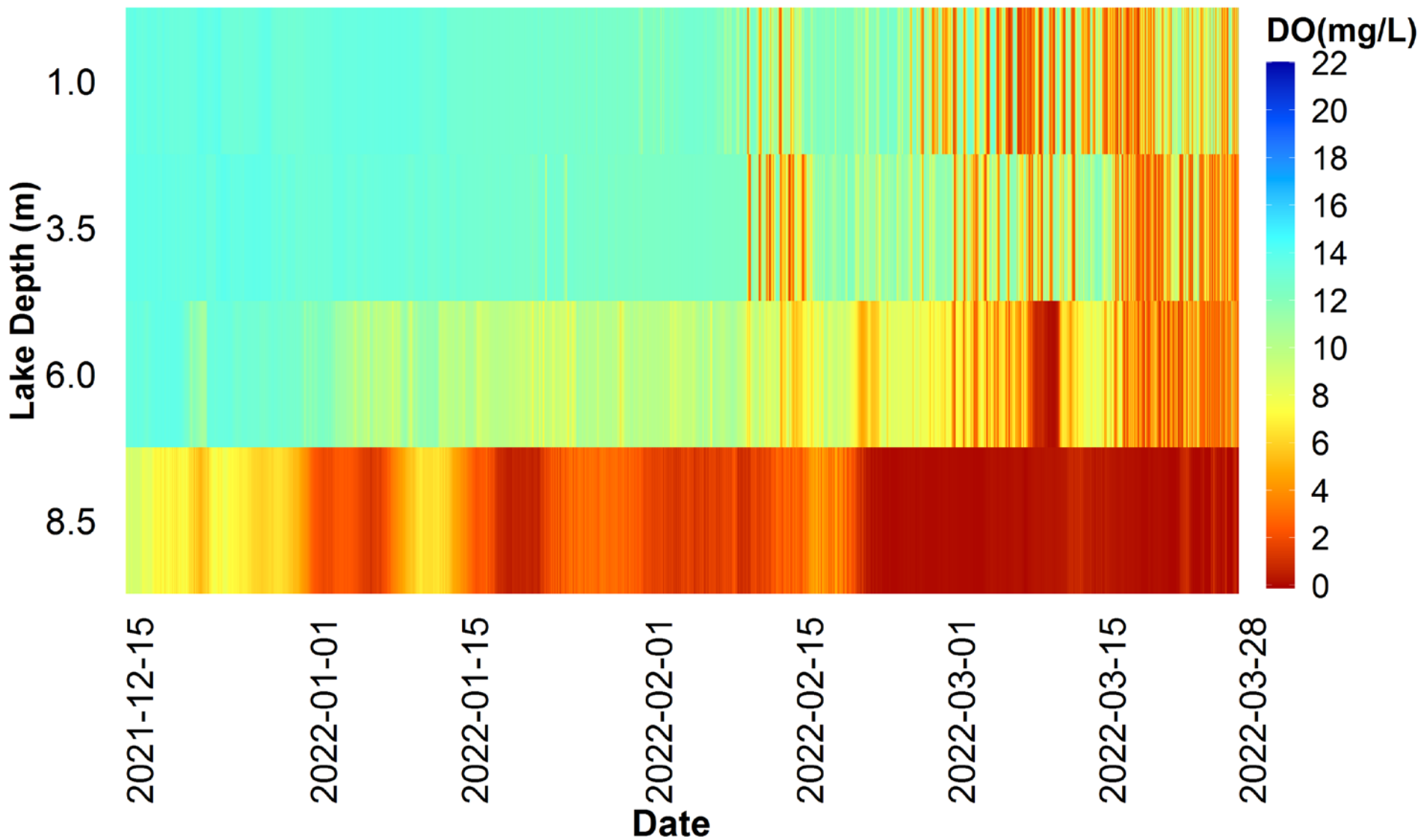
Pigeon Lake Sensor Array: High Frequency Data



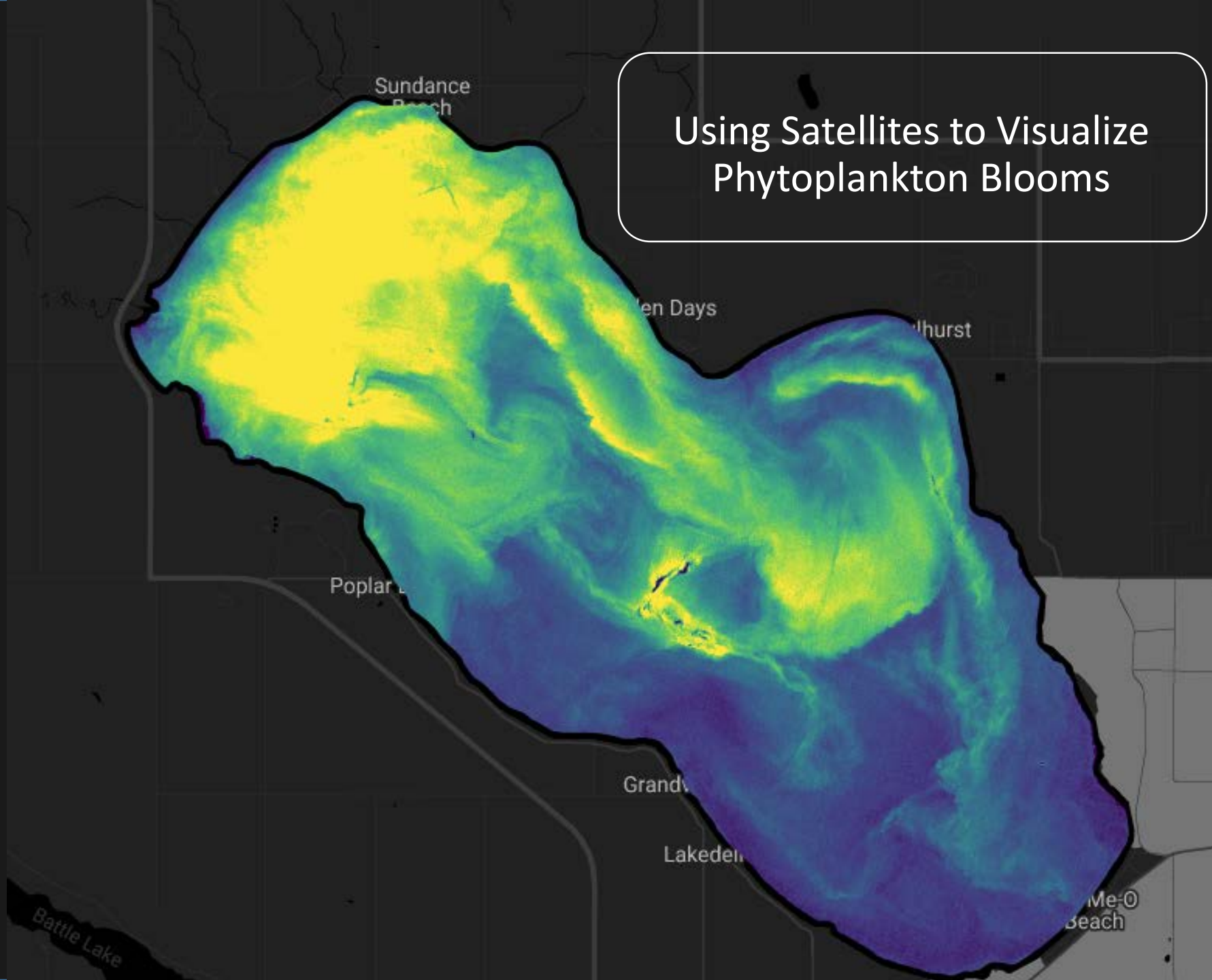



Sensor Array Retrieval March
2022

Pigeon Lake, Grandview - Sensor Array



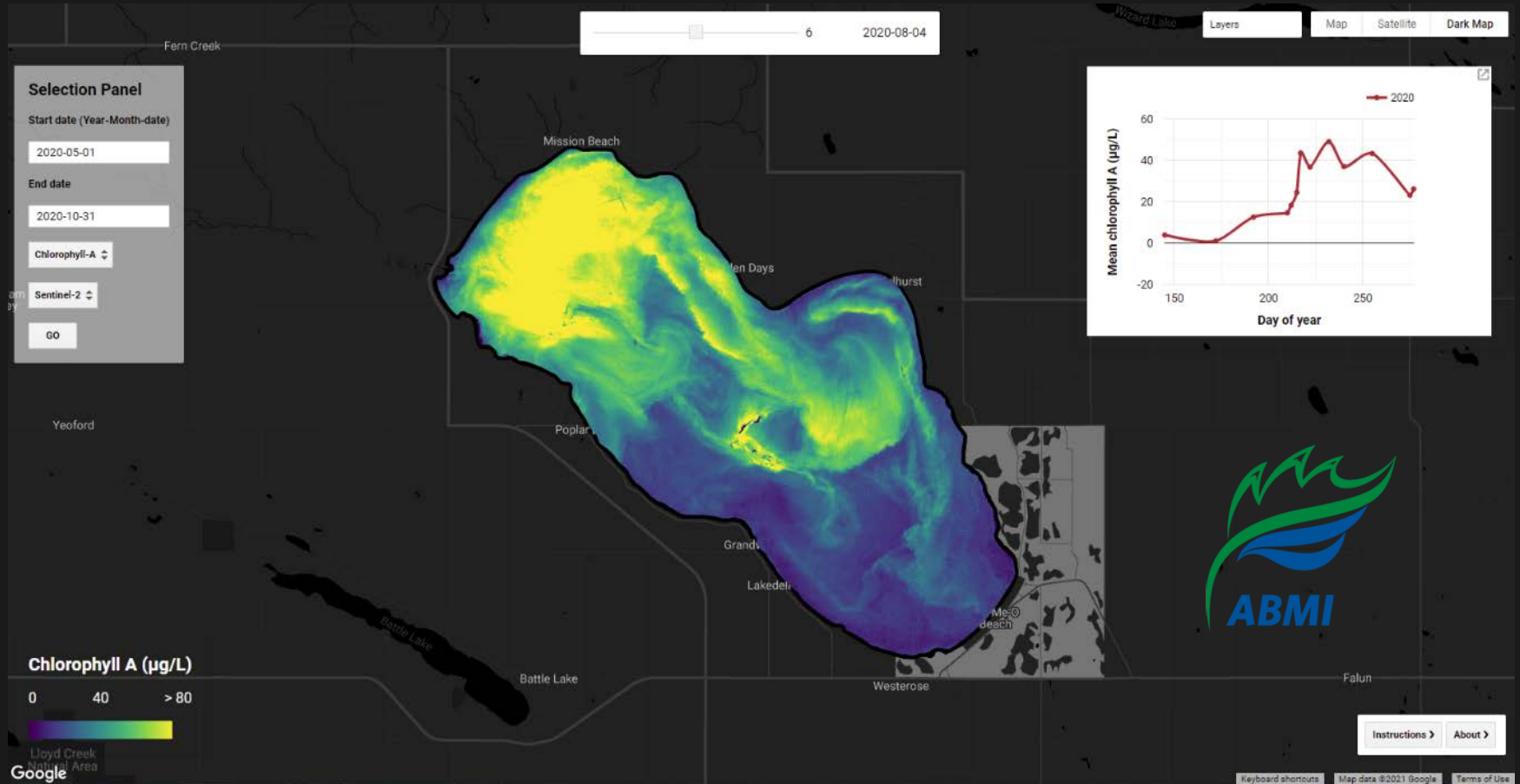
Using Satellites to Visualize Phytoplankton Blooms



A photograph showing a person in a white cowboy hat and blue life vest standing in a small boat on a large body of water. The person is holding a small container. In the foreground, the back of another person's head and shoulders are visible, wearing a blue life vest and a tan cap. The boat has a blue cooler and some equipment on board. The background shows a forested shoreline and a distant bridge under a blue sky with clouds.

Expanded sampling to
Wabamun Lake, Lac la Biche,
and Lesser Slave Lake.

Developing Tools to Understand Intensity, Extent, and Severity of Blooms



Recreational Water Monitoring



Beach Samples Collected for
eDNA and public health targets:

154



Number of Safe Beach Protocol
Site Assessments Completed:

4

Number of Water Bodies
Monitored for Water Milfoil:

41



2021 Scholarship Ferdous Nawar

Implication of winter ice cover physical/optical properties on basal productivity and associated hydro-chemical gradients in seasonally ice-covered temperate lakes in Alberta.

www.alms.ca/scholarship

Strategic Plan

2. Communications

Raise the awareness and involvement of Albertans in lake monitoring and management



Strategic Plan

2. Communications

Improve Albertan's literacy to promote protection and respect of lakes, reservoirs, and their watersheds.





Number of Facebook Followers:

977

Number of Email Contacts:

1500

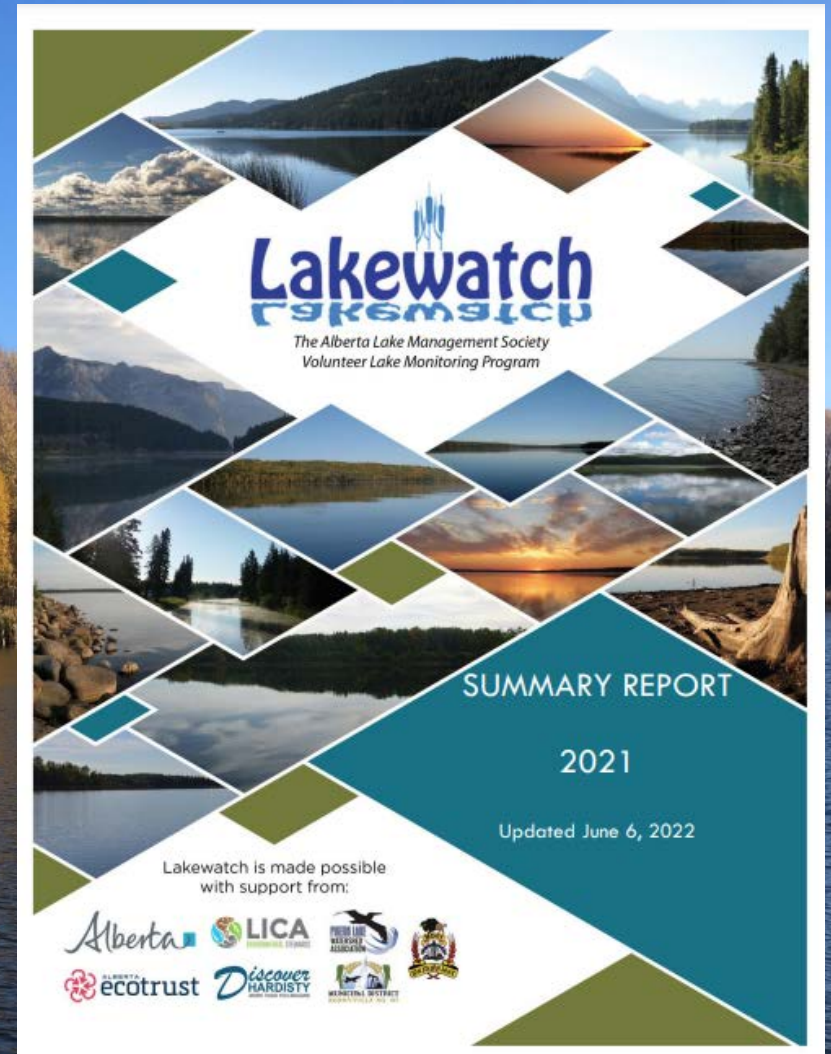
2021 Webinar Series

11 Speakers

Recordings Available Online

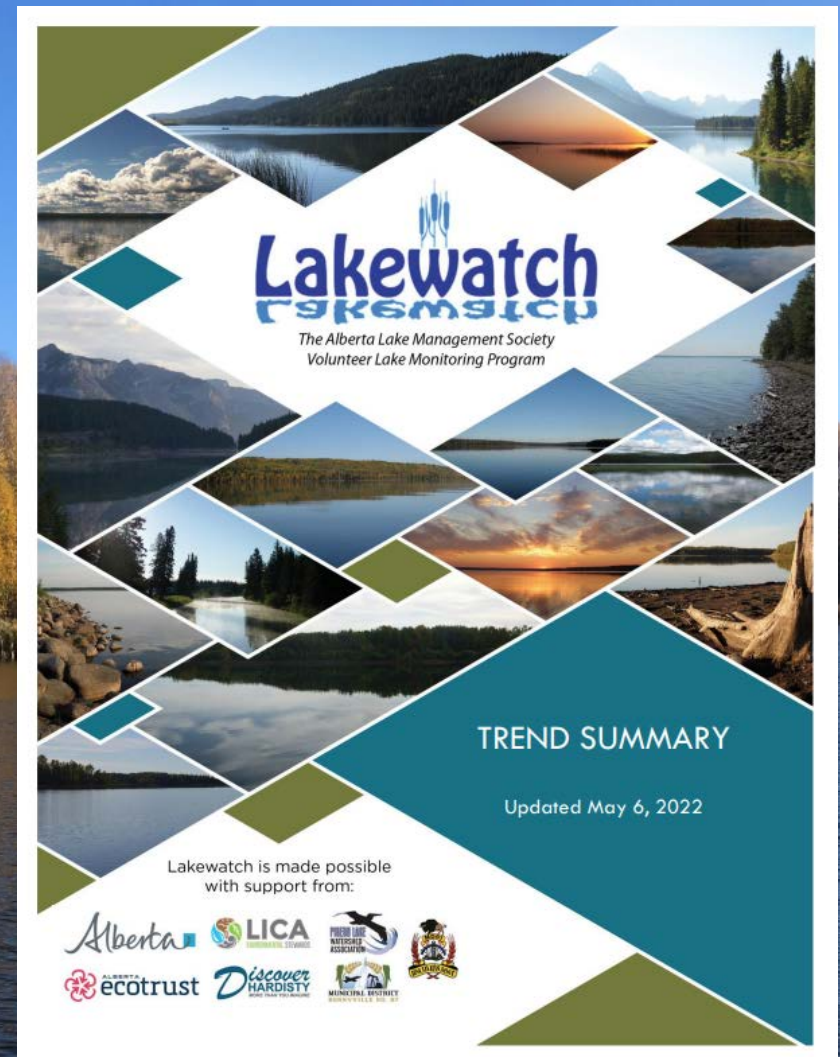
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- Satellites and Lake Volume
 - Road Salts and Freshwaters
 - Control of Internal Phosphorus Loading
 - Environmental DNA
 - AIS Lessons from Manitoba
 - Citizen Science and Lakes
 - Internal Phosphorus Loading and Climate Change
 - Satellite Algae Bloom Monitoring

Reporting



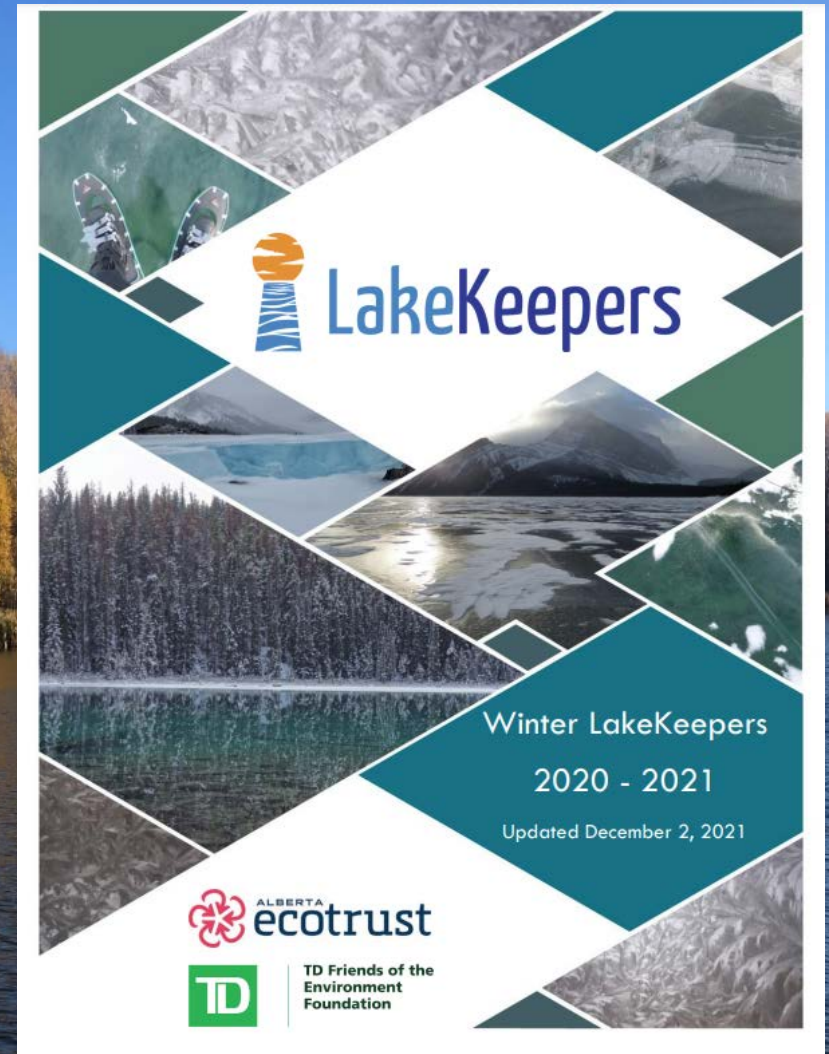
1 LakeWatch Summary

Reporting



1 Trend Summary

Reporting



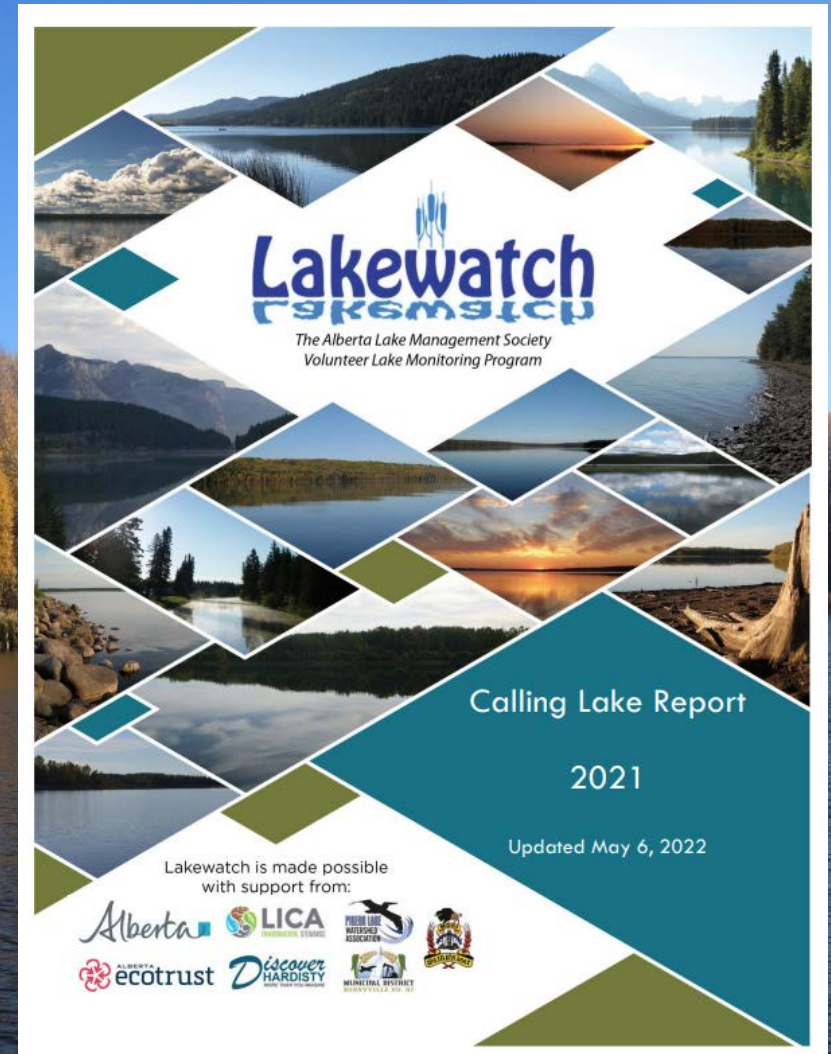
1 Winter LakeKeepers Report

Reporting



1 Summer LakeKeepers Report

Reporting



21 LakeWatch Reports
9 Updated Long-term Trend Analysis

Reporting



Lakes of the Carvel Pitted Delta -Stony Plain Region-



Report prepared May 2022

Lakes of the Carvel Pitted Delta

Strategic Plan

3. Lake Management Goals

Be an authoritative voice on lake management in Alberta



Strategic Plan

3. Lake Management Goals

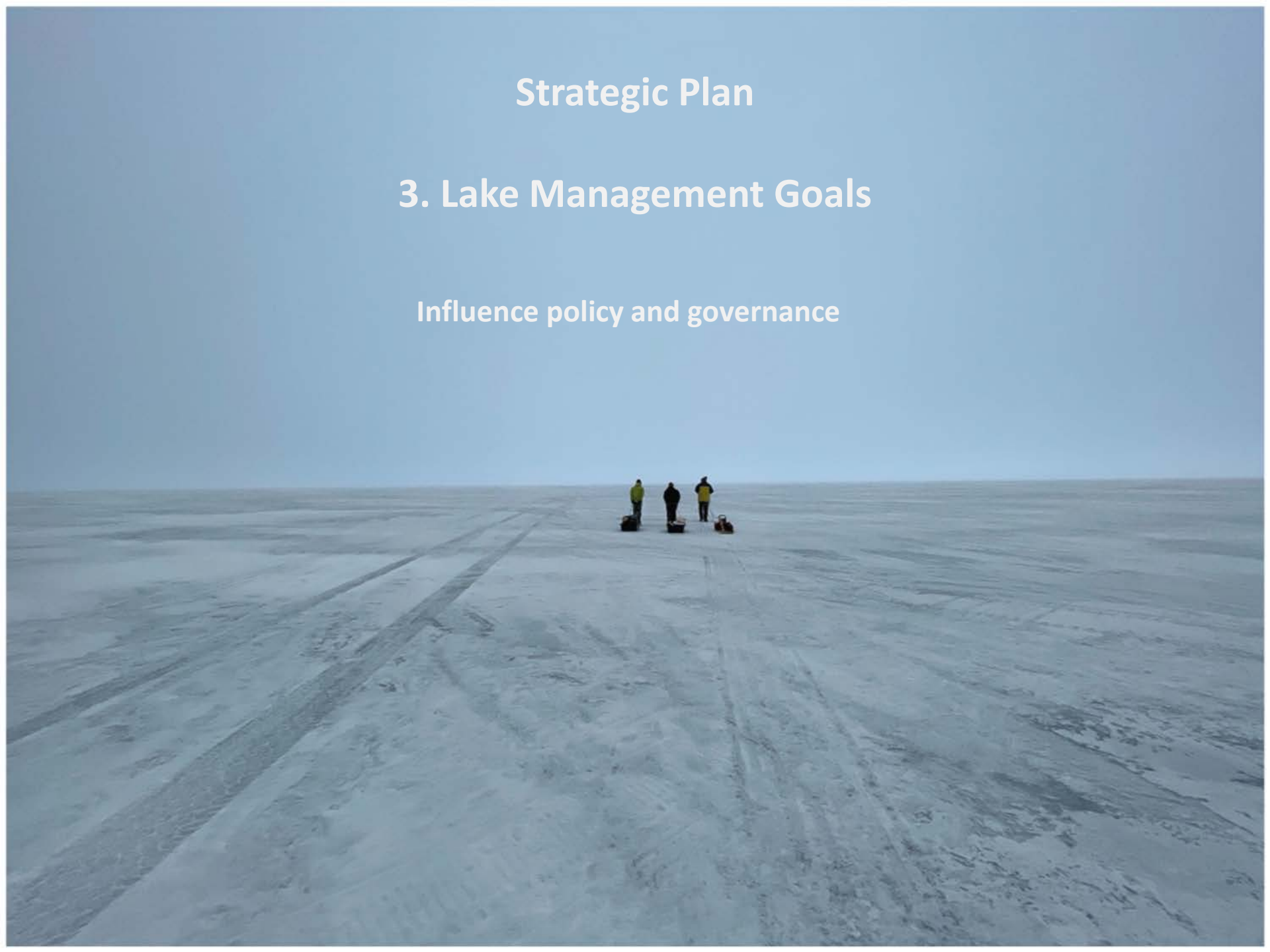
Promote an effective lake management planning process consistent with Water for Life goals



Strategic Plan

3. Lake Management Goals

Influence policy and governance



Strategic Plan

3. Lake Management Goals

ALMS stakeholders are informed and enabled to conduct lake management activities through participation in ALMS programs



July 2021

Lake Appreciation Month



Alberta Lake Management Society
PO Box 4283
Edmonton, AB T6E 4T3
(780) 702-2567
info@alms.ca

Honorable Jason Nixon
Office of the Minister - Environment and Parks
208 Legislature Building
10800-97 Avenue
Edmonton, AB
T5K 2B6

Dear Minister Nixon,

On behalf of the members of the Alberta Lake Management Society, we would like to thank you for identifying July as Lakes Appreciation Month. In your statement, you identified the same values for Albertans that we also attribute to functioning lakes including: Indigenous values, vibrant ecosystem, recreation, and flood and drought protection. In recognition of these critical values that lakes provide in Alberta, true appreciation requires concerted management that maintains lake functions and their ability to support Albertans.

In aligning with the Government of Alberta objectives of delivering management outcomes of social, environmental and economic value, the Alberta Lake Management Society has focused on lake management with these three pillars of sustainability.

We could not agree more with your statement, "Maintaining the health of our lakes is a shared responsibility. Across Alberta, the Alberta Lake Management Society and other lake watershed stewardship groups help maintain healthy lakes by providing education, sharing best management practices, supporting water quality monitoring, and doing their part to help keep our lakes free of aquatic invasive species."



Aquatic Invasive Species

Letter to the Minister



Alberta Lake Management Society
PO Box 4283
Edmonton, AB T6E 4T3
(780) 702-2567
programs@alms.ca
www.alms.ca

Honourable Jason Nixon
Office of the Minister
Environment and Parks
208 Legislature Building
10800-97 Avenue
Edmonton, AB
T5K 2B6

Dear Honourable Minister Nixon,

This letter is to emphasize the importance of inspection stations as a tool to protect Alberta's lakes against threats from aquatic invasive species. Since 2013, the Alberta Lake Management Society (ALMS) has worked collaboratively with Alberta Environment and Parks to deliver aquatic invasive species monitoring at many of Alberta's major recreational lakes.

ALMS is a leader in community-based monitoring in Alberta. In 2020, ALMS coordinated the monitoring of 21 lakes for the presence of invasive Dreissenid mussels, and 28 lakes for the presence of Eurasian watermilfoil. We are happy to report that there were no positive detections of Dreissenid mussels or Eurasian watermilfoil in 2020.

Transboundary management of aquatic invasive species requires a proactive and coordinated management response among responsible agencies. Proximity to BC and the establishment of aquatic invasive plants in British Columbia such as curly leaf pondweed and Eurasian watermilfoil means these organisms pose a high risk to Alberta's aquatic environments. To help mitigate this risk, ALMS published *Aquatic Plants of Alberta: 2nd Edition* as a tool to aid Albertans in the early detection of invasive aquatic plants.

Monitoring and education around aquatic invasive species is a critical step toward their early detection and eradication. However, as we have learned from other jurisdictions, the introduction of aquatic invasive species can cost tens of millions of dollars and spell disaster for our aquatic environments and their ability to provide recreational value to all Albertans. We want to emphasize the value we see in Provincial inspection stations as a first line of defense against these organisms. These inspection stations are a critical tool for preventing the establishment of aquatic invasive species, as well as for increasing the public's awareness of this issue. **Therefore, we encourage the Province to increase the number of aquatic invasive species inspection stations, particularly along Alberta's western border, in 2021.**



ALBERTA
ENVIRONMENT AND PARKS

Office of the Minister
Government House Leader
MLA, Rimney-Rocky Mountain House-Sundre

110455

NOV 30 2021

Dörte Köster, President
Bradley Peter, Executive Director
Alberta Lake Management Society
PO Box 4283
Edmonton AB T6E 4T3
programs@alms.ca

Dear Dörte Köster and Bradley Peter:

Thank you for your letter regarding the importance of inspection stations in protecting Alberta's lakes against aquatic invasive species (AIS). I apologize for the late response, and I welcome the opportunity to provide the following information.

Alberta's watercraft inspection, decontamination and K-9 programs are examples of several tools the province and our partners use to combat AIS, along with education and monitoring. Since its implementation in 2013, the Environment and Parks AIS program has consistently proven to be valuable and successful. Each season, department staff intercept watercraft fouled with AIS before they are able to launch in our water bodies.

I understand and share your concern about Eurasian watermilfoil (EWM) prevention. In 2020, the AIS program detected a record-setting 30 boats with invasive mussels attached and 175 boats with attached weeds – one of which was a confirmed case of EWM. Since 2016, the province has confirmed 28 EWM interceptions. Despite COVID-19 restrictions in 2020, I am pleased to share the department successfully operated three watercraft inspection stations and examined 7,276 boats for all types of AIS.

Further, Environment and Parks continues to develop partnerships to combat AIS from a broader, multi-partner perspective, while enhancing our ability to be more responsive to AIS concerns. We also continue working closely with neighbouring provincial and territorial jurisdictions under the Western Canada Invasive Species Agreement. This includes Alberta's closely aligned monitoring and inspections program with British Columbia, which employs a notification system when AIS-fouled watercraft are bound for other provinces or states. Alberta and British Columbia also share a watercraft

Alberta Water Council

- Board of Directors – Jay White (Vice-President) and Steph Neufeld
- Project Teams:
 - Wetland Policy Implementation Review
 - Alberta Water Futures
 - Water for Life Implementation Review
 - Improving Drought Resilience
 - Source Water Protection
 - Water for Life Action Plan



Lake Management Meetings

- ALMS Board met to discuss the status of lake management in Alberta, and the role of ALMS
- One outcome was the formation of the Lake Stewardship Community of Practice
 - Next meeting 2023



Strategic Plan

4. Internal/Organizational Development Goals

Build a strong board of directors with a wide range of skills/expertise and with representation from many sectors



Strategic Plan

4. Internal/Organizational Development Goals

Build resilience for ongoing sustainable operations (funding, staff)



Strategic Plan

4. Internal/Organizational Development Goals

Improve organizational promotion and elevate the ALMS brand, and maintain operational funding



2021-2022 Board of Directors

Mike Christensen (Chair starting 2022)	Steph Neufeld
Kellie Nichiporik (Vice-Chair starting 2022)	Phil Sutton
Adam Norris (Treasurer)	Brendan Ganton
Breda Rahmanian (Secretary)	Rosemarie Ferjuc
Dorte Koster (Chair in 2021)	Wendell Koning (new 2022)
Jay White	Devon Souldice (new 2022)

2021 Outgoing Directors

Dave Trew	Erin Cameron
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Board Activities

- Bylaw review – updates to membership and board nomination process
- Human resources handbook
- COVID policy for staff
- Reviewing financial processes and streamlining signing authority



Committees

- Scholarship
- Workshop
- Nominating
- Technical



THANK YOU!

