

# COMMON GROUND

## SOLAR POWERED UP!

2022 ZIGWAN EDITION  
(SPRING)



Daniel Wiggins Jr , Air Quality Technician/Radon Specialist - [Air1@badriver-nsn.gov](mailto:Air1@badriver-nsn.gov)

As many community members may have noticed the Ishkonige Nawadide Solar Microgrid Project has been completed, marking the largest solar project the Tribe has completed thus far. The Bad River Tribe was awarded a USDOE Grant in 2019 for the Ishkonige Nawadide Solar Microgrid Project and focused on resiliency after the 2016 Flood and while experiencing lengthy electrical outages at crucial facilities, such as the Health & Wellness Center (H&WC) the Tribe's community Clinic. The Tribe partnered with muGrid Analytics, Cheqbay Renewables, Madison Solar, and Faith Technologies for



construction of project which was commissioned by the Tribe in May of 2021.

The Ishkonige Nawadide

Project was not picked randomly and was guided with both Strategic Energy Planning done in 2012 and 2017. In addition, the Tribe used

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### Special points of interest:

- Solar Powered Up!
- Community Boardwalk
- Fire Safety Tips
- Bad River Emergency Alert System
- Upcoming Events Fliers
- EAB Flier
- New Staff Introductions

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## Community Boardwalk Trail

Mariah Hipsher, Climate Change Specialist – [climate@badriver-nsn.gov](mailto:climate@badriver-nsn.gov)

As the climate continues to change, we continue to think about ways we can implement risk reduction solutions that also create social, economic, and environmental co-benefits. The most important actions we can take to protect our health is to strengthen our community's resiliency. The Mashkiiziibii Natural Resource Department has secured funding from The Environmental Protection Agency (EPA) to complete a community based collaborative effort project that will incorporate local individuals and partnerships to work together during the duration of this

project. The project itself will focus on setting up a green jobs training effort that will result in a pedestrian boardwalk trail to be built in the New Odanah Community.

This project solves commu-



...Continued on page 2...



## Community Boardwalk continued...

nity-identified problems in a way that combines green job training and climate impact mitigation with community wellness promotion in our underserved community. One of our partners Wisconsin Conservation Corps (WisCorps) will provide transferable skill-training and work for local youth (18+), and a tangible product of the training, a boardwalk trail, which answers a community request to conveniently connect residential neighborhoods to commercial, employment and service areas (grocery store, clinic, Head Start, etc.) It also provides pedestrians a safe place to exercise outdoors. This project serves EPA EJ's mission by providing our Tribal members (1) increased green job opportunities; (2) opportunities to reduce vehicular travel to get to key services, reducing fuel emissions and the breathing of those emissions; and (3) no-cost, all season, nature and exercise opportunity away from indoor air pollution and possible COVID-19 exposure in enclosed exercise facilities. MNRD, with other Tribal departments, will develop educational signage for the trail focusing on climate resiliency, air pollution, health awareness, and traditional ecological

knowledge. Building the boardwalk will provide the construction crew hired with hands-on experience that will enhance their resumes. The green jobs training will focus on building knowledge and leadership development of individual community members through active education and skill mastery. The boardwalk trail will provide an alternative exercise and pedestrian friendly route than what currently exists and will be constructed to the standard to allow for use by the youngest to the eldest community members. Health benefits come not just from exercise but from exercising away from air pollutants generated from motor vehicles on the road or the potential COVID19 exposure that comes with exercising indoors. Additionally, the result of the training, a boardwalk walking trail with educational signage, provides a passive way for the community to educate themselves about key issues like air pollution, climate change, and personal



Figure 1. Boardwalk trail tentative route

health.

If you would like more information about this project or are interested in applying to work with the crew constructing the boardwalk trail please feel free to contact Mariah Hipsher, project manager. Phone: 715-685-7840 ext. 1562 Email: [climate@badriver-nsn.gov](mailto:climate@badriver-nsn.gov)

## Manoomin Update

Dan Powless Sr, Manoomin Oshkaabewis - [Manoomin@badriver-nsn.gov](mailto:Manoomin@badriver-nsn.gov)

**A**t the end of the 2021 growing season a muskrat survey was initiated in the Kakagon Sloughs with the following results: Identified 282 muskrat houses along the riverine and slough reaches which included Little round river, Big Round River, Bear trap Creek, NE Slough, Big Slough channel, Snake Island. Wood Creek- not visited, Big Slough- cabin, Bad River Slough – not visited, Sand Cut- not visited. We hope to complete the survey with drone technology in 2022. The rice was in much better shape this year and some elders correlate that with the increased muskrat population. I took a few photos of the muskrat houses (wakaigan) but misplaced the SD card. Anyways they resembled little village communities.

The Manoomin Work Group was provided a summary presentation of the TEK pilot pro-

ject which included the Basswood and Bundling workshops. A discussion followed which led to suggesting that the Bundling method had potential as a possible seed source to further investigate. As a result, we applied for the BIA Circle of Flight grant to continue our efforts to develop this traditional method. we look to develop baseline data for the bundling method and develop a Manoomin Bundling Guidance Manual to adapt to climate change effects. Also the Wildlife biologist looks to conduct a wildlife study. Many thanks to the Ojibwe Language program, the hatchery crew, Paula Maday, Youth Programs, NR aides, and the Manoomin Work Group.



August 2021 Kakagon Sloughs  
Photo Credit: Berthea Olby

We have recently contracted with the Cardo company to assist the Bad River community in revising, updating, and finalizing the 2007 Manoomin Long Range Stewardship Plan. Cardno has previous restoration

...continued on page 3...



## Manoomin update continued...

experience in the St. Louis River Estuary Wild Rice Feasibility and Implementation Plan in which a 275 acre wild rice restoration is nearly complete that is of a similar management scenario the tribe could provide through planning, GIS, and TEK efforts. They have worked within the Whittlesey Creek acquiring climate data with relevancy to Kakagon / Bad river slough. Also, I will be attending the 12th Annual St. Louis River Summit and signed up for a Drone session to explore how the technology was used in their wild rice restoration project.

The project will follow four primary scope elements focused on:

- Listening (Bizindan) to the needs of the Tribe,
- Understand (Nisidotan) the current status of manoomin,

-Gather (Maamiganan ) ideas from the MNRD, Manoomin Work Group, and Community

-Plan (Onaakan) the Manoomin Stewardship Plan so that it combines the best science with Traditional Ecological Knowledge and connections of the Bad River people.

We will be seeking out more tribal members to address the cultural practices and traditional beliefs to the manoomin plan. If you have an interest please contact 715-682- 7111 x1661

Manoomin Oshkaabewis

## Fire Safety

Nathan Kilger, Mashkiiziibii Air Quality Specialist - [airquality@badriver-nsn.gov](mailto:airquality@badriver-nsn.gov)

As we head into the spring, the snow will melt, and everyone will start to clean up their yard. Heavy snow and wind leave debris around and the first thought is to pile it up and burn it. Keeping a safe space around your home is extremely important to reduce wildfire risks, so cleaning up the yard is a high priority every spring. Getting rid of the sticks and branches safely is the other important part.

The Bad River conservation code for Open Burning, Burn Barrel, and Fire Prevention (2006) sets out restrictions of burning piles of brush, or using burn barrels, so that these activities do not harm homes or the environment. The entirety of the code can be read on the Bad River website at: <https://www.badriver-nsn.gov/burn-ordinance/>

Mashkiiziibii Natural Resource Wardens issue burning permits, free of charge. Anyone within the exterior boundaries of the Bad River Reservation must have a signed burning permit

before you can burn openly or in a burn barrel. Other agencies have their own permits in place outside of the Bad River Reservation. For anyone in those areas, please find the appropriate website for more information. When requesting a burning permit, please plan ahead several days from when you want to have a burn permit. Filling out the form and connecting with a warden can sometimes take a little extra time, planning will help everyone.

The Bad River ordinance was written with the highest emphasis on safety – a water source must be present, there is a list of prohibited items, there are weather and timing restrictions, and the ability to issue a burning ban if fire danger rises to unsafe levels.

Smokey Bear signs are found along roadsides and one Smokey Bear calls Bad River home in Odanah along Maple Street. Smokey also posts his current fire danger on the Bad River website (at the link above) each morning based on current fire danger and the

**9 OUT OF 10 WILDFIRES  
ARE CAUSED BY HUMANS.**

ONLY YOU CAN PREVENT WILDFIRES.



forecast fire weather conditions for the day. As you drive through Odanah, wave to Smokey and check out what the daily fire danger is this spring. Or hop online and check Smokey's latest message.

Above all else, be safe when it comes to fire.





## FOREST PEST SURVEY AND DETECTION: EMERALD ASH BORER DETECTED IN BAYFIELD COUNTY

In partnership with the Wisconsin Department of Natural Resources, the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) has detected emerald ash borer

(EAB) for the first time in Bayfield County. A resident reported this ash tree-killing beetle in the city of Bayfield on March 2 and it was confirmed to be EAB by USDA-APHIS on March 11. It appears to have been present in the reported tree for at least three years prior to detection, with the symptomatic tree showing significant woodpecker flecking, epicormic sprouts, and D-shaped exit holes.



Photos courtesy of DATCP

### Not EAB



This commonly encountered beetle, the six spotted green tiger beetle, *Cicindela sexguttata*, is often mistaken for EAB due to its similar appearance. It is a predator of small insects and is frequently found on hiking trails. There are other insects often mistaken for EAB.



Photo by Paul Andre - MDA

### Symptoms and signs

New infestations are difficult to detect, as damage to the tree may not be apparent for up to three years. Symptoms of an infestation can include branch die-back in the upper crown, excessive epicormic branching on the tree trunk, and vertical bark splits. Woodpecker damage is sometimes apparent.



<https://www.forestpests.org/acrobat/eabfg.pdf>

Please note, Bad River's EAB Management Plan was adopted by Tribal Council in April of 2017.

We have taken numerous steps to mitigate the impact of EAB and to educate the community. We will continue to implement the strategies listed in the plan.

If you suspect a tree of being infested with Emerald Ash Borer Larvae, please contact our forester, Gena Abramson @ 715-685-8929  
Email: [Forester@badriver-nsn.gov](mailto:Forester@badriver-nsn.gov)  
or  
Non-Local Beings Specialist, Jake Slattery @ 715-979-1510 or [NonLocalBeings@badriver-nsn.gov](mailto:NonLocalBeings@badriver-nsn.gov).

<<Host



<https://www.ofallon.mo.us/emerald-ash-borer>

Ash Leaf>>



<https://www.llojibwe.org/dm/forestry/eab.html>

In North America, EAB is known to infest all species of ash (*Fraxinus* spp.). Ash can be recognized by the presence of compound leaves which are arranged opposite of one another on the branches.

### Biology

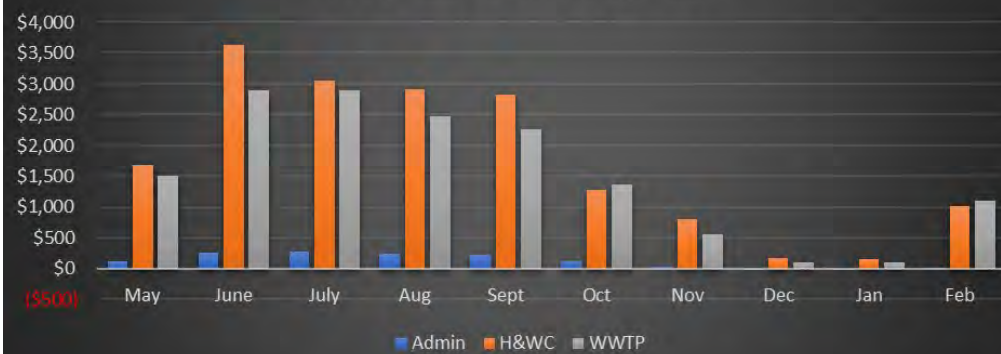
Eggs are laid between layers of bark and in bark crevices. Larvae hatch in about one week and bore into the tree where they feed on the inner bark and phloem, creating "S" shaped galleries. Larvae go through four feeding stages, and then excavate a pupal chamber in the fall, where they will overwinter as prepupae. Pupation occurs in late spring, and adults begin to emerge through "D" shaped exit holes in May and early June. Adults will remain active until the end of summer.

## Solar Powered Up continued...

the newly adopted 2018 Emergency Preparedness Plan (EPP) to identify critical infrastructure that was affected by power outages and the 2016 Flood. Through this project the Tribe installed over 500 kW of solar with over 1000 kWh of battery storage at three tribal facilities: The Chief Blackbird Center, Wastewater Treatment Plant (WWTP), and the H&WC. The systems at the H&WC and the WWTP will offset the entire facility electrical loads and offer a level of resiliency if power goes out that can last days if not weeks. Fortunately, since the commissioning there has not been a large enough outage event to visualize the Microgrids full capability to respond to long outages and event.

Currently the three systems at the H&WC, WWTP, and the admin have been performing enough to see saving

**Microgrid Sites' Savings  
May '21- February '22**



through bills. From the start of middle May of 2021 to the February of 2022 the H&WC has seen over \$17,000 in savings, the WWTP over \$15,000, and the Administration over \$1,000. Table 1 you can see trends with monthly savings.

What is next? The Tribe has conducted strategic long-term planning and identified additional phases that would add to existing microgrids, along with the use of other renewables in other areas of the Tribe. Additional buildings such as

with the community to identify and accomplish energy goals, specifically those that encourage cleaner energy.

In addition, planning the MNRD will be offering tours of Microgrid Site this coming summer to those that interested.

If there are any questions about the current Ishkonige Nawadide Solar Project, Long-term Planning, or any other renewable energy topics please feel free to reach out to Daniel Wiggins Jr @ 715-979-1486 or email @ [Airl@badriver-nsn.gov](mailto:Airl@badriver-nsn.gov). Miigwech!

the new Head Start and Elderly are being considered for microgrids in Phase 2. Residential is also something that the Tribe is continuing to look at for opportunities around projects and funding strategies. The Tribe will continue to work

## Forestry Updates

Gena Abramson, Forestry Specialist - [Forester@badriver-nsn.gov](mailto:Forester@badriver-nsn.gov)

**Mino-ziigwan!** We made it through the snowy winter and now it's time to look at everything with fresh eyes. This is the time of year when I truly feel like we are at the beginning of the new year. Once the rain washes away the left over grime from winter and the vegetation starts growing, it's time to do be inspired to try new things. The Bad River Forestry program seemingly always has new things happening.

One thing that I promised to share about in the Biboon Common Ground Newsletter is the Forestry Best Management Practices Document that is currently being developed.

On February 10th we had a community information meeting led by our contractor for the project, Hunter Peterson of Renewable Resource Solutions. Hunter Peterson went over the draft

outline for the document. He also requested particular information so that he could build this document to serve the tribe and the tribal members who rely on the forest (which is everyone).

This document will give guidance to foresters, loggers, property owners (tribal and non-tribal) and utility or transmission corridor maintenance workers regarding how best to pro-

...Continued on page 9...



## Food Web of Chequamegon Point to be studied this summer

Louis Lozinski, Abi Fergus, Jacob Rodmaker

**T**his summer, programs within MNRD will be collaborating to better understand the Food Web on Chequamegon Point. This will help better conservation decisions be made around the restoration of the Piping Plover, for example.

### Ornithology- Louis Lozinski

While the snowstorms may say otherwise, spring is just around the corner, and with it, many migratory birds. When the birds initially come back is prime time to go out looking for them, before they make their nests for the year. While we're in that window, we plan to survey the birds that are breeding on Chequamegon Point. This project is going to focus on the major groups of birds, such as raptors, passerines (songbirds), and marsh birds. Since there's no rest for the wicked, there will also be some nighttime surveys as well, for common nighthawks and owls. The surveys for all these birds are completed as a route with various stopping points along the way. At each point an observer will listen for 10 minutes for any calls from the specific birds they are listening for and mark it down. After the 10 minutes, you move onto the next point and repeat until you're done with the route.

The Chequamegon Point project will also be covering the piping plover project. This project entails monitoring and banding the piping plovers, a federally endangered species, nesting on Chequamegon Point. There will be monitors out there to educate visitors to the island and making sure the plovers have the space they need. The plover chicks will be monitored and when they get close to developing their flight feathers, they will get banded for future monitoring. The bands on their legs are different colored rings that are used in a combination as a way to differentiate the plovers from each other in later years.

### Terrestrial Wildlife- Abi Fergus, [wildlife@badriver-nsn.gov](mailto:wildlife@badriver-nsn.gov)

To better understand the dynamics between terrestrial wildlife species and the Piping Plover, I will be deploying trail cameras and conducting track surveys to study species pres-



Figure 1- Nigig (Otter) tracks forming a heart

ence and behavior. We know that Makwa (Black Bear), Wisagi-Ma'iingan (Coyote), Wagoosh (Red Fox), Nigig (Otter), and Esiban (Raccoon) are some of the common relatives who live on Chequamegon Point. We are unsure of how these species may interact with the Piping Plovers and all surveying will be focused on the areas of beach the plovers nest- as these endangered shore birds are likely the most at risk relative who lives on Chequamegon Point. It is important to remember that human development along water ways is the ultimate cause of the stress

Piping Plover populations are under and that all these animals have a right to be in these ecosystems. I will also be building on our current understanding of the rich and unique biodiversity of plants and fungi on Chequamegon Point which includes Labrador Tea, Wormwood, Reindeer Lichen, and Chicken of the Woods Mushrooms.

### Fisheries- Jacob Rodmaker, [fisheryspecialist@badriver-nsn.gov](mailto:fisheryspecialist@badriver-nsn.gov)

The fisheries program will be assessing the aquatic food web around Chequamegon Point by saining and setting fyke nets. There will be three sites on the lake side and three on the bay side of Chequamegon Point. Saining will occur twice a week. Fyke nets with 20 feet leads will be set to the west of each saining site for 24-hour periods once a week from the middle of May to the last week of June. Fyke nets will be set to where the first hoop is just below or above the water with the cod end marked with a buoy. Fish will be identified down to species. Lengths will be taken of all individuals and aggregate weights will be taken of each species. Individuals will be randomly collected for diet analysis. These individuals will be sent to an external lab to be processed. Water samples will be collected at each fyke net location and processed. An Ekman dredge will be used to acquire one sample of invertebrates at each of the saining sites once a week. The fisheries program is sampling to assess whether or not juvenile Lake Whitefish use Chequamegon Point as nursery habitat before moving to deeper water.



## Bakaan Ingoji (Non Local Beings) Program Update

Jacob Slattery, Non-local Beings Manager - [nonlocalbeings@badriver-nsn.gov](mailto:nonlocalbeings@badriver-nsn.gov)

The Bakaan Ingoji (Non Local Beings) program has worked through this Winter on several different projects and fronts to implement and administrate monitoring, control and prevention of (new) non-local being introductions and current widespread establishments. A couple highlights so far this winter have included:

- 1. Grant proposals submitted:** three proposals are currently being reviewed by BIA staff and experts on behalf of the NLBP. These projects include (1) a noxious weed suppression and prevention project focused on garlic mustard, giant hogweed and wild parsnip control, (2) a clean boats, clean water initiative for monitoring aquatic invasives threatening Lake Superior which involves the installation of mobile wash stations at Bad River and Second Landing Boat Launches, and (3) the "Aquatic Invasives Species Management in the Kakagon-Bad River Sloughs" project aimed at mechanically removing large monocultures of *Typha spp.* (e.g. hybrid and exotic cattail) and treating known populations of purple loosestrife and phragmites. These projects are seeking more than \$300K in funding for ongoing early detection, rapid response (EDRR) and invasive species management, especially in the Bad River and Kakagon sloughs. We hope these projects enhance our current invasive species partnerships and provide more comprehensive and holistic solutions to suppressing invasive species.
- 2. Cattail harvester** (see picture): the tribe expects to secure enough funding through BIA to complete the purchase of a cattail harvester. A harvester, shown in the picture (Source: Mobitrac USA, URL: <https://www.mobitrac-usa.com/>), is a key piece of heavy equipment capable of cutting and harvesting large swathes of invasive cattail in a fraction of the time it takes to pull them by hand or using a brush cutter. Increasing such capacity for removal will greatly help suppress well-established cattail populations and help remediate various parts of the sloughs and riverine areas. We are excited because this will enhance plant biodiversity, habitat restoration and site suitability for new Manoomin growth.



The NLBP is also working hard to provide regular updates to the NLBP website and share resources with respect to (1) inspection policies and procedures, (2) invasive species-specific bulletins, and (3) Ishkode and Rx burning project updates. Our program is in the process of enhancing its outreach and education materials to better inform project managers, contractors and heavy equipment operators of the threats of various aquatic and terrestrial invasive species. The NLBP webpage (<http://www.badriver-nsn.gov/non-local-beings/>) contains our current inspection guidelines and resources. Finally, the NLBP and other natural resources departments will soon be looking to hire NRD Aide positions to assist in the monitoring and invasive species control efforts, and other natural resources field work, throughout the reservation. If you or somebody you know loves to be outdoors or is looking to start a career in Natural Resources, please send them our way! Please stay connected to the "careers" page at <http://www.badriver-nsn.gov/careers/> or email us at [nonlocalbeings@badriver-nsn.gov](mailto:nonlocalbeings@badriver-nsn.gov) for questions about forthcoming job announcements.

## Forestry Update continued...

protect the land, water, animals, etc. The goal is to be able to conduct timber harvest and other forestry work without causing detrimental impacts to the environment.

This project was mentioned as a need in the 2001 Council approved Integrated Resource Management Plan. In 2016, a proposal for funding for this project was submitted to the BIA under the Great Lakes Restoration Initia-

tive. We were funded in 2017. This is a collaborative project that involves many MNRD programs.

The Forestry Best Management Practices project went up for bids in 2021, and Renewable Resource Solutions was the winning bidder. So far, they have done a great job of recognizing the importance of our outstanding water quality and are sure to help us protect it through the develop-

ment of this document based on NRD's and community feedback

If you'd like to provide a comment regarding the development of this document, feel free to contact me. I'm in the Natural Resources Department inside of the Chief Blackbird Building, my cell number is 715-685-8929, and my email address is: [Forester@badriver-nsn.gov](mailto:Forester@badriver-nsn.gov).



## New Staff Introductions & Upcoming Event Fliers



### Water Resources Technician

Boozhoo, my name is Mark Arbuckle, I was recently hired this past March as the new Water Resources Technician for the Mashkiiziibii Natural Resources Department. I'm truly honored to be a part of MNRD and the waters team. I'm a Bad River Tribal member who has resided here in Bad River for most of my 29 years. I enjoy and am forever grateful the natural resources the reservation provides for our communities. I enjoy fishing, gathering, and every opportunity to be among our natural borders. With spring underway, I've been getting acquainted with my role here as a technician; greatly impart to my supervision and team member Nicholas Blanchard. From here, I'm excited to begin my 8-week stint at the Bad River hatchery this April, furthering my knowledge, and understanding of what it takes to go into the annual project as well as the remainder of my responsibilities as your technician.



### Conservation Warden Pierce Maday

**B**ozhoo I'm Pierce Maday from the Bad River Indian Reservation. I was born and raised here on the Bad River Reservation. Catching walleye, hunting deer, picking balsam, and making maple syrup have all been a passion of mine since I was a young. Teaching people about harvesting and making sure others are harvesting safely will be my main priority as a tribal game warden. I hope to see you out there in the woods and on the water.



**MASHKIIZIIBII  
LAKE SUPERIOR DAYS  
CELEBRATION**

**\*EDUCATIONAL BOOTHS & ACTIVITIES ABOUT  
LAKE SUPERIOR FOR EVERYONE!\***



**Stay Tuned for more details...**

Questions: Contact MNRD Outreach Coordinator at 715-682-7123 ext. 1589 or email [NRDOutreach@badriver-nsn.gov](mailto:NRDOutreach@badriver-nsn.gov)



## PLANTS ARE THE FOCUS OF OUR IAS COMMUNITY-BASED RESEARCH PROJECT

Naomi Tillison, MNRD Director - [nrdirector@badriver-nsn.gov](mailto:nrdirector@badriver-nsn.gov)

Bad River's Education Department and Mashkiiziibii Natural Resources Department have been collaborating with multiple partners, such as Red Cliff Tribe and University of Wisconsin - Earth Partnership, for years to develop and implement our Indigenous Arts and Sciences (IAS) Program to engage youth and educators in science, math, and arts in a manner that infuses cultural and traditional knowledge.

In 2020, we initiated a community-based research project and kicked off this IAS project by holding a listening session in November and gathering input on the project concept that would be valuable for the Bad River community. The community feedback that we received helped us shape our project to focus on plants used for food and medicine, incorporating the Ojibwa language. Our long-term goal is to compile the information gathered and create an illustrated botanical survey or

publication for distribution to Bad River tribal members.

Last year we started implementing our community-based research project. As we planned for our IAS summer youth program, Education and Natural Resources Department staff identified some priority plants to focus on. Our IAS summer youth

program had around 15 tribal youth who worked with us on a variety of topics and issues, such as learning about the Bad River Watershed, planting trees as part of our forestry restoration efforts, and shadowing Natural Resources staff. The youth also helped

us with the community-based research project by learning about and sharing their knowledge about these plants. We incorporated the Ojibwe language and want to say miigwech (thank you) to Tribal Elders Gordan Jordain and Mary Moose and the Ojibwe Language Trainee Staff who helped us. We also talked about uses of

the plants and how to gather and process these plants and also documented places where we found these

relatives. We are planning to continue our plant project this summer through our IAS summer youth program. If you are a Bad River tribal member who has plant knowledge and are interested in helping us with this project over the summer, please contact Stephanie Julian (Education Director) or me. Miigwech to the Education and Natural Resources Department staff who helped with our summer youth program.



## Proposed Enbridge Line 5 Segment Relocation Project

Naomi Tillison, MNRD Director - [nrdirector@badriver-nsn.gov](mailto:nrdirector@badriver-nsn.gov)

The Bad River Band submitted comments to the Army Corps of Engineers during their public comment period on the permit application from Enbridge Energy for the Line 5 Segment Relocation Project, including concerns about short-term, long-term, and cumulative effects on the region's natural and cultural resources, including surface waters, groundwater, and all the beings who are dependent upon them (such as fish and wildlife). These comments are available at:

[https://earthjustice.org/sites/default/files/files/bad\\_river\\_band\\_comment\\_letter\\_to\\_usace\\_03.22.2022\\_2.pdf](https://earthjustice.org/sites/default/files/files/bad_river_band_comment_letter_to_usace_03.22.2022_2.pdf)

EPA also submitted a "may result in substantial and unacceptable adverse impacts" to the Bad River and the Kakagon-Bad River Sloughs wetland complex comment letter to the Corps regarding

the Enbridge Line 5 Wisconsin Segment Relocation proposal. A copy of this letter is available on our webpage at: <http://www.badriver-nsn.gov/wp-content/uploads/2022/03/Enbridge-WI-LR5-letter-3-16-22-WD-DD-E-SIGN.pdf>

The Wisconsin Department of Natural Resources (WDNR) has extended their public comment period to April 15, 2022, on their draft Environmental Impact Statement associated with Enbridge's Line 5 Segment Reloca-

tion Project proposed within the Lake Superior basin (including Bad River, Fish Creek, and Montreal Watersheds). Additional information about WDNR's draft EIS and how to submit comments can be found at: >>>>>> <https://dnr.wisconsin.gov/topic/EIA/Enbridge.html>



The Bad River Meander, where line 5 currently crosses, on April 16, 2019. Photo courtesy of Joe Bates, Tribal Member.



## BAD RIVER EMERGENCY ALERTING AND NOTIFICATION SYSTEM



Dear Community,

The *Bad River Tribe* wants you and your family to be safe and informed during emergencies in our area. These may include public safety threats, dangerous weather, and traffic advisories. Information is key, and we strongly encourage you to sign up to receive text message alerts directly from *Bad River*.

Registering for alerts is easy — simply text your **BADRIVER** to 888777 and you'll be informed and instructed when necessary. For help with signing up, please call 715-682-7111 and we will take your information over the phone

**TEXT YOUR **BADRIVER** TO 888777  
TO SIGN UP FOR ALERTS**



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## How to send in your Weather Report

Become a "citizen scientist" by reporting what type of precipitation or weather is occurring where you are to the National Weather Service



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### IT'S FUN

Observe and report (to NWS) the type of precip at your location



### IT'S EASY

- 1) Open the mPING app
- 2) Tap "Select Report Type"
- 3) Choose from the list
- 4) Tap "Submit Report"

More info on mPING can be found at <https://mping.nssl.noaa.gov>

NATIONAL WEATHER SERVICE  
NATIONAL CLIMATE DATA CENTER

### WINTER CLIMATE SUMMARY

Odanah



**WARMEST**  
**57°F**  
December 15

**COLDEST**  
**-18°F**  
January 21

**AVERAGE TEMP**  
**16.2 F**  
0.9°F Below Average

**MAXIMUM WIND GUST**  
**39 MPH**  
January 5

**TOTAL PRECIP** **4.78"**  
0.30" Above Average

**TOTAL SNOW** **56.1"**  
0.1" Above Average

NUMBER OF DAYS WITH:



Bad River Band of Lake Superior Chippewa

Dec 2021, Jan 2022, Feb 2022

## Iskigamizigan-Sugar Bush

AKAWE ASEMAAKE- FIRST OFFER TOBACCO  
ININAATIG(OOG)-MAPLE TREE(S)  
MANISE-S/HE CUTS FIREWOOD  
NEGWAAKWAAN(AN)-TAP(S), SPIGOT(S)  
AKIK(OOG)-BUCKET, PAIL(S), CONTAINER(S)  
BAKITE'IGAN-HAMMER  
BAGONE'IGAN-DRILL  
OZHIGA'IGE-S/HE TAPS TREES  
OZHIGA'-TAPS H/  
MAAJIGAA-S/HE STARTS TO RUN W/ SAP  
NAADOOBII-S/HE GATHERS SAP  
ZIINZIBAAKWADWAABOO-MAPLE SAP  
ISKIGAMIZIGE-S/HE BOILS DOWN SAP  
ZHIIWAAGAMIZIGAN-MAPLE SYRUP  
OMBIGAMIZIGE-S/HE BOILS SAP TO SUGAR  
NASE'IGE-S/HE STIRS TO FORM SUGAR



## Survey for Tribal Adults about Hunting Waawaashkeshi (White-tailed Deer)

Survey link: <https://forms.gle/52iD8uu31uuNzRM26>

The Mashkiiziibii Natural Resources Department Wildlife Program is conducting a survey for tribal members 18+ to better tailor future outreach regarding Waawaashkeshi (White-tailed Deer). Survey responses will also be integrated into grant applications which support and direct the wildlife program's work. This survey will remain open until Wednesday, April 20. Stay posted for an in-person talking circle about Waawaashkeshi in late April or early May.

## New Commercial Fisheries Observer

**B**oozhoo! I am the new commercial fisheries observer for the Mashkiiziibii Natural Resources Department and I'm beyond thrilled to get to work on Lake Superior.

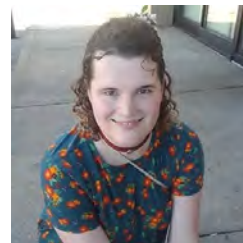
I've lived in Ashland for 2 years, and I can easily say I never want to leave these shores. Though my family is from Wisconsin, I was regrettably raised in the Cheese-Forsaken Wastes Below (Missouri). I've always loved to swim, and am eager to learn as much as I can about this community and the Lake-going way of life.

I am especially honored to be entrusted with this position by the Bad River Tribe, as I'm not just an outsider, but an outsider from 800 miles away.

In addition to swimming, I enjoy researching labor history, German folk music, writing and playing Dungeons and Dragons, attempting to play the bass, and cooking. (My favorite recipes are fruitcake, gingerbread, mushroom ravioli, onion soup, candied bacon, toad-in-the-hole, wild rice pot pies, venison pies, star-gazy pie, pumpkin pies, shepherd's pie... You get it, I make a lot of pies.)

Thank you for this most gratifying of welcomes

Elise Kehle



## New Ornithology Specialist

**H**ello, I'm Louis Lozinski, the new ornithology specialist. I started in my position with the tribe in January of 2022. I am originally from Marshall, Minnesota where I attended Southwest Minnesota State University. At SMSU, I studied ecology until my graduation in May of 2021. While at college, my winters were occupied with insect work for the university. During the summers, I would work with a couple of the local Dakota tribes on prairie res-

toration projects and wildlife surveys. After graduation, I had looked north for jobs and eventually found my way here. I look forward to working for the MNRD and am excited about what the future holds.

Email: [Ornithology@badriver-nsn.gov](mailto:Ornithology@badriver-nsn.gov)

Phone: (715)682-7123 (ext. 1567)



# Job Opportunities in MNRD

**\*Indigenous Arts and Sciences Coordinator (LTE)**

**\*Water Resources Program Manager**

**\*Conservation Warden**

**\*Deputy Tribal Historic Preservation Officer (THPO)**

**\*Additional Seasonal Positions Posted SOON!\***

To see Full Job Descriptions visit:  
<http://www.badriver-nsn.gov/careers/>

-or-  
Scan QR Code



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### ~MISSION STATEMENT~

*The Department strives for resource management which both conserves the natural resources for the future generations and provide for the needs of the present. The department's existence reflects the importance the Bad River Tribe places on its right and ability to exercise sovereignty, self-determination and self-regulation in the area of natural resource management.*



*Were on the Web!*  
Visit [www.badriver-nsn.gov](http://www.badriver-nsn.gov)

