

Training, Mentorship & PD Professional Development

Climate Change and the Framework Agreement



TMPD Virtual Workshop April 22 - 9:00 AM PDT / 12:00 PM EDT

WELCOME



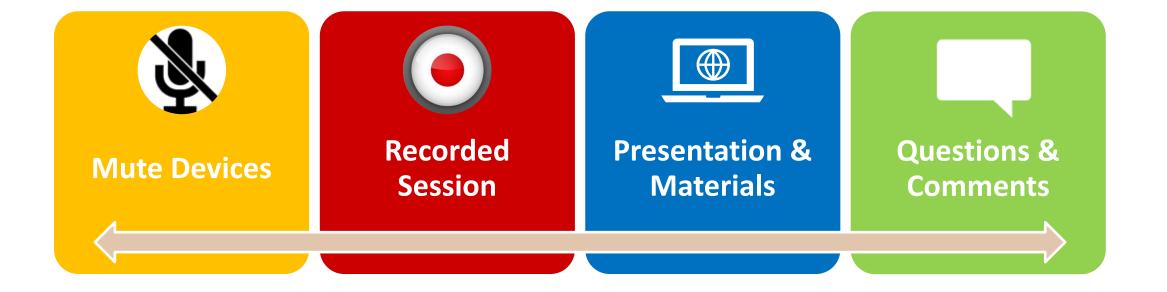




Angie Derrickson TMPD Manager



GUIDELINES & TOOLS







AGENDA & OBJECTIVES

9:00 AM	 Welcome & Introduction Angie Derrickson – TMPD Manager 	
9:10 AM	 Climate Change Related Issues Faced by Land Code First Nations Stephen McGlenn – Specialist, Land Use Planning & Curriculum Delivery Cory Kozmik – Environment & Enforcement Advisor 	
9:20 AM	 Community Led Actions Panel Magnetawan First Nation T'Sou-ke First Nation Williams Lake First Nation Brittany Cleminson – Coordinator, Natural Resources 	
10:35 AM	 Virtual Networking Exercise 1 Breakout Room Discussions & Body Break 	
10:55 AM	 Climate Change and First Nation Communities Stefanie Recollet – Specialist, Waste Management 	
11:05 AM	 What can the RC offer? - Tools through the FA to help mitigate the effects of climate change Adam Wright – Planner, Land Code Governance Chantal Kitamura – Environment & Enforcement Advisor Jennifer Predie – Manager, Land Code Governance 	
11:20 AM	Virtual Networking Exercise 2 Breakout Room Discussions	
11:45 AM	Summary & Workshop Close	

Celebrate Earth Day !!!

Restore Our Earth™

www.earthday.org/earth-day-2021/





Climate Change Related Issues Faced by Land Code First Nations

Cory Kozmik & Stephen McGlenn



Introduction

Climate vs. Weather

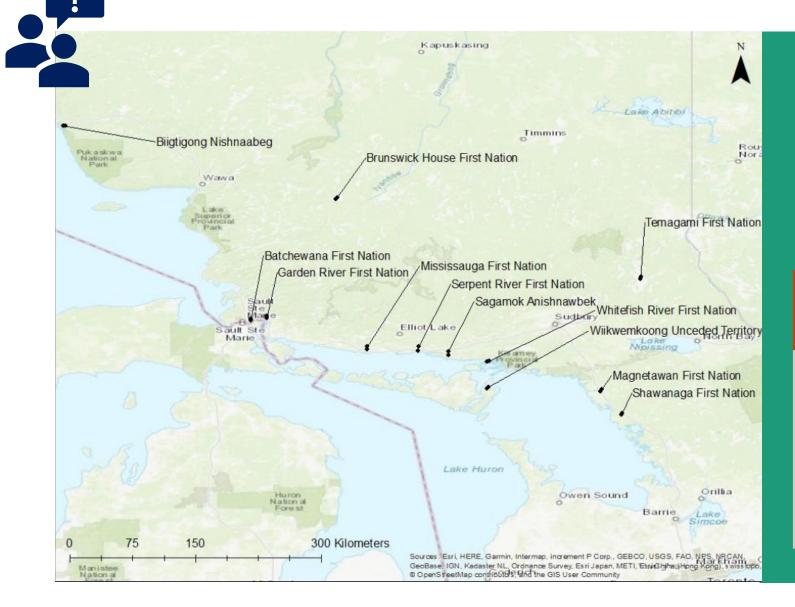
Key Concepts Climate change is natural, but human caused emissions are speeding up the process

All aspects of our lives are affected by the climate

Our actions have an impact on the climate







"Connecting Guardians in a Changing World"

12 Nations Gathered to Discuss Climate Change

- Indigenous Science, research direction & policy
- Cultural Keystone Species
- Impacts to Traditional ways of life
- Monitoring & management

A rapidly changing climate is already affecting First Nation communities...



Transportation, Connectivity & Accessibility to Services



Community Safety – Evacuations, Displacement



Traditional Knowledge, Sustenance, Food Security & Harvesting Cycles



Shifting ecosystems Invasive Species & Species At Risk

Water Quality & Quantity Issues



Housing & Infrastructure



Economic transition

Inequities & Justice (gender, income, employment, Law)



Human Health & Well-being



Social & political outcomes – Grief, Eco-anxiety, Climate Justice

To see what climate change looks like in your area: <u>Climate Atlas of Canada</u>

Planning for a Rapidly Changing Climate

We already plan based on our local climate, but that climate is changing rapidly Climate planning is likely to focus on adaptation, resilience and innovation, rather than prevention First Nations are not contributing significantly to climate change, but are uniquely impacted

GOVERNANCE & PLANNING	Climate-informed Plans, Laws and decisions
THE BUILT ENVIRONMENT	Building & Infrastructure Standards, Design Guidelines, Green Assets
NATURE, THE ECONOMY & SOCIETY	Environmental Protection, transition to Low-Carbon Economy
LANGUAGE, CULTURE & TRADITION	Revitalize Indigenous Planning & Governance. Whanganui River Legal Personhood
RESILIEN	NCE AND ADAPTATION

How can Planning under a Land Code help?



LEADING THE WAY – Fort Nelson First Nation

The "Clarke Lake Geothermal Project" would create power by pumping liquid 2.5 kilometres below ground, and back to the surface. Heat from the liquid is passed through a heat exchanger, and steam from the process creates electricity. The project will revitalize the local economy and generate 15 megawatts of electricity, which could power 14,000 homes.

-from CBC News

Moving beyond the *Indian Act:*

- Recognition of the value of planning as a core function of government
- Clearer planning structures & processes, community engagement requirements, law-making
- Revitalizing Indigenous Planning practices
- Community-driven and empowering planning informed by western and Indigenous science

Rapid climate change will make existing issues worse, and cause new ones

- Holistic "systems" approach needed
- Adaptive planning, "ecosystem-based" approach
- Integrated and collaborative planning planning across disciplines, departments, jurisdictions

Opportunity for innovation in the transition to a low-carbon economy

- Renewable Energy
- Green building practices and smart growth
- Strong development regulations
- Environmental Protection, Monitoring, Restoration and Enhancement
- Natural Infrastructure
- Economic opportunities

First Nations Leading the Way: Indigenous-led Climate Resiliency

Indigenous Science

- Indigenous rights, nationhood
- Local knowledge of change
- Close observation of nature
- Holistic perspective, interrelatedness
- Stewardship ethic, planning for future generations



Western Science

- International collaboration
- Climate projections and models
- Inclusive and empowering approaches
- Training, education and awareness

Planning & Adaptation

Climate Science and Strategy should be driven by Indigenous people

Conservation of Nature is broadly recognized as important in the fight against climate change – most natural areas are part of Indigenous Territories. Indigenous people should be leading the way.

Funding needs to be adequate, consistent and based on local needs

Community Monitoring & Guardianship Governance



Community Engagement

Identifying Areas of Prioritization

Baseline Data & Observations of Change Across Time

Informed Land Use Planning, EMP, Policy & Law Development

Prioritization of Natural Assets & Green Infrastructure



Community Led Actions

Panel Discussions





COMMUNITY LED ACTIONS PANEL







Magnetawan First Nation Samantha Noganosh

T'Sou-ke First Nation Andrew Moore

Williams Lake First Nation Brittany Cleminson



SUCCESSES, CHALLENGES, NEEDS



@MagFNLandsandResources

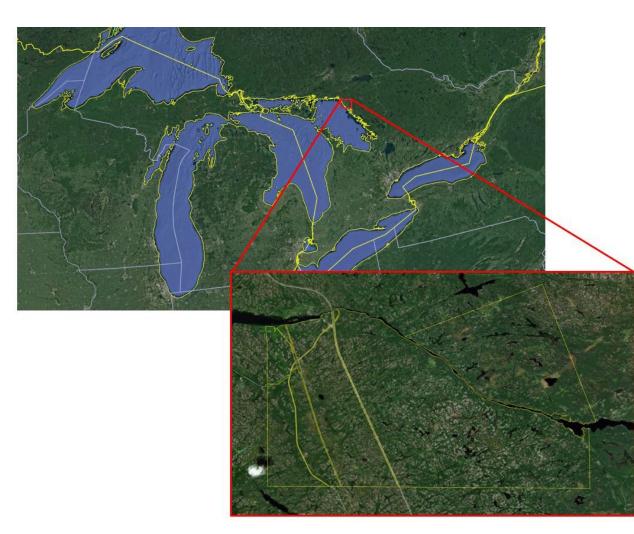
@species_at_risk_on_the_mag

Climate Impacts and Concerns Magnetawan First Nation

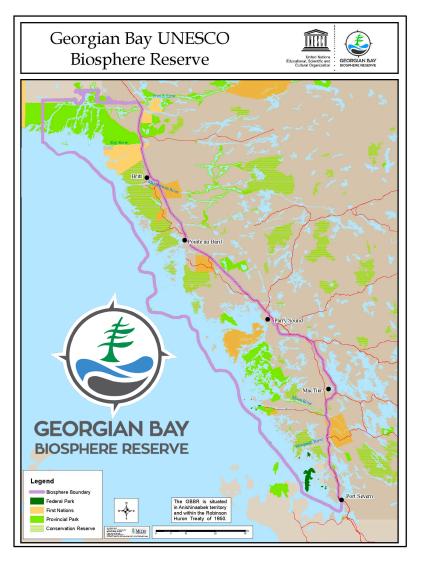
Lands Manager and Deputy Chief Samantha Noganosh

Magnetawan First Nation





- 4700 ha
- Within the Georgian Bay Biosphere Reserve











Our Environmental/SAR Team

We aim to provide learning opportunities for community youth and foster research-based work with partners





Climate Change What are we concerned about?

1. Impacts to Resources

- Industrial
 - Contaminants & pollutants
 - River Pollution
- Food sources
 - Traditional fish stocks declining
 - Number and health of Moose
- Traditional Medicines







Climate Change What are we concerned about?

2. Environment

- Weather
 - Changes in seasonal timelines
 - Longer summers, shorter winters
 - Extreme weather events (flooding, wildfires)
- Invasive species
 - Outcompete native species
- Traditional Knowledge Transfer
 - Unfamiliarity with land users/ knowledge holders







Climate Change What are we concerned about?

3. Impacts to Wildlife

- Invasive Species
 - Sea lamprey, carp
 - Destroy habitat & outcompete native species
- Parasites
 - Increased northern range limits
 - Winter ticks!!!
- Changes in habitat
 - Quality, quantity
- WETLANDS!



Why are Wetlands Important?

1. Resources

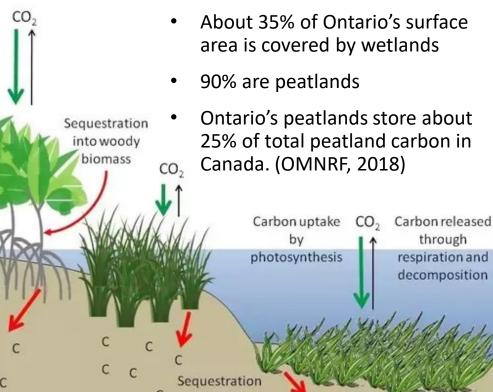
- Hunting
- Trapping
- Food
- Medicines

2. Environment

- Store large percentage of Earth's carbon
- Water filtration
- Flood plains

3. Wildlife

- Home for many aquatic species
- Foraging habitat
- Nesting/critical life stages



into soil

How are we addressing these concerns?

Funding to Support Climate Monitoring and Adaptation Environment Climate Change Canada:

- Indigenous Community Based Climate Monitoring Program
- First Nation Adapt Program
- Indigenous Guardians Pilot Program
- Climate Monitoring Program
 Supports community led projects
 to monitor climate and the
 environmental effects of climate
 change to the community and
 tradition territories.
 - This year's deadline for applications is October 2021.

• First Nation Adapt Program

Supports assessments and responses to climate change impacts on the community infrastructure and emergency management.

This program accepts applications year-round.

• Indigenous Guardians Program

This is a pilot project that supported indigenous rights and responsibilities in protecting and conserving ecosystems, developing and maintaining sustainable economies, and continuing connections between Canadian landscape and Indigenous culture.

• Fundings for this project are fully allocated and no further rounds of funding are available at this time.

They are currently assessing the successes of community projects, and it is hopeful that this fund will become available again soon.



Indigenous and Northern Affairs Canada

Affaires autochtones da et du Nord Canada





Laurentian University Université Laurentienne

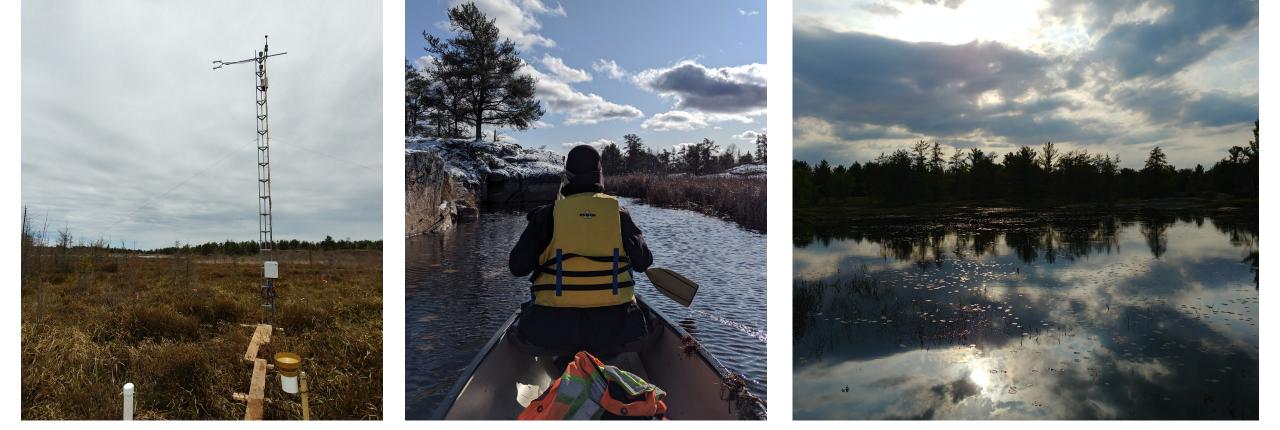








Integrating Traditional Knowledge and Western Science to Monitor the Impacts of **Climate** Change on Culturally Significant and atrisk Ecology of Indigenous Lands

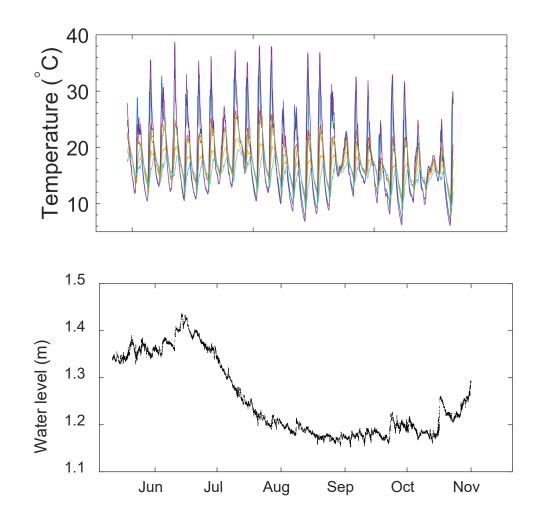


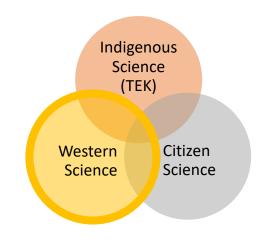
Partnered with McMaster University Ecohydrology Group

Western Science Partnership feature: McMaster University

- Integrate TEK and science
- Monitor implications of climate change on culturally significant and at-risk ecology of indigenous resources
- Measuring indicator variables for SAR reptile habitat suitability

What are we measuring?





- Water level
- Peat soil temperature
- Snow depth
- Seasonal plant development
- Ecosystem fluxes
- These environmental variables are of critical importance to SAR overwintering:
 - Both snake and turtle species are sensitive to large fluctuations in water level



Climate Change Vulnerability and Adaptation Planning Framework

With the support of

Cambium Aboriginal Inc.

building a Community Based Climate Monitoring program that identifies the individual needs of our community.





River Monitoring

- Water Quality
- Water Quantity
- Relationship Building with Magnetawan Watershed communities and industries



- Why your lands should be monitored and protected
- Some of the types of funds available to support monitoring and protection
- What projects you can create in your communities to combat climate change

Gchi Miigwech!

Climate Change Workshop

Power to the People





T'Sou-ke Solar from the Air



Demonstrating Off-Grid Summer setting



Administration using Net Zero Energy. Demonstrating the future.



Solar array 'feed in' to Utility



T'Sou-ke trainees completing PV Array on back of Canoe Shed



Trainees receiving certificates from Ida Chong BC Energy Minister



All our meters run backwards!



Recharging Electric Vehicles from Solar Array at T'Sou-ke Nation.



Conservation workshops with School children from SD 62



Challenge Tree with commitments to reduce energy consumption by 10%.



Conservation Convert Haida Gwaii



Earth Challenge



Ginger Bread House with Solar Panels



SOLAR OPPORTUNITIES -NET ZERO HOUSE ON RESERVE







Transforming Challenges into Opportunities

Reduced Energy Bills for Members. Energy Autonomy for T'Sou-ke Nation Training & Jobs



Eco Tourism Business Economic Development Education & Communication Outreach

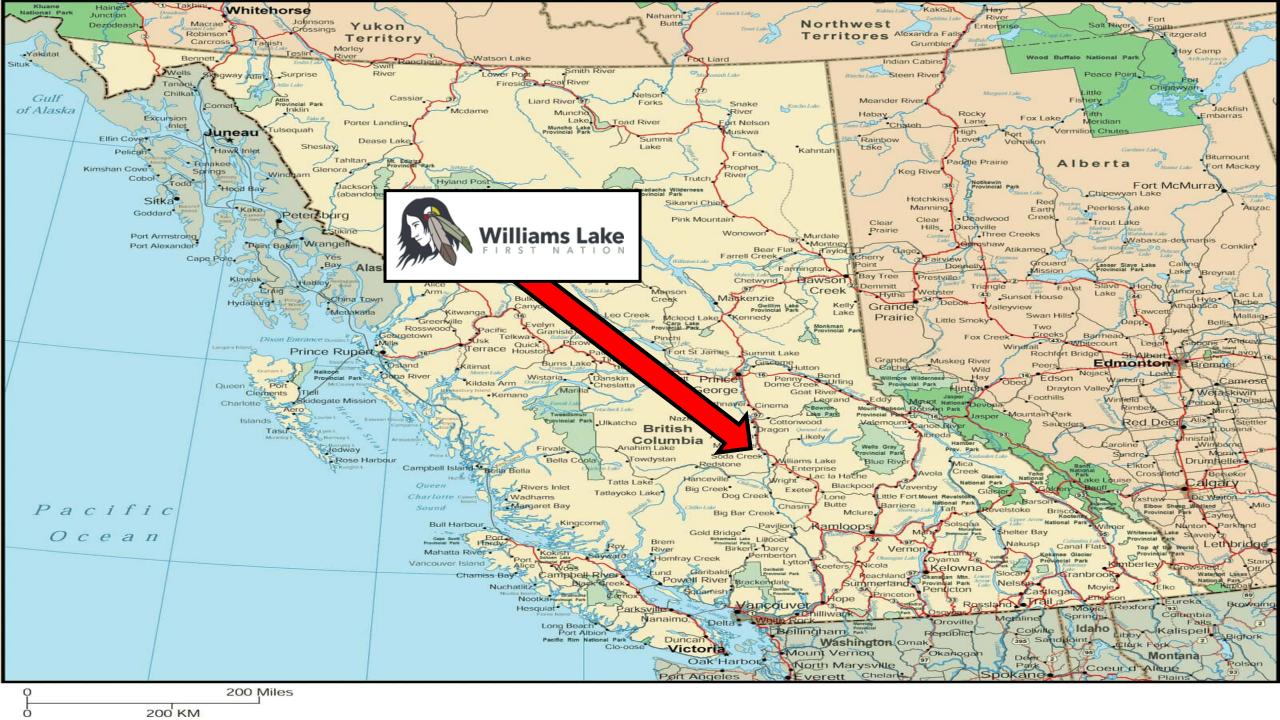
Thank You



TMPD Virtual Workshop: Community Perspectives on Climate Change

/illiams Lake

Let's get situated.







The Williams Lake First Nation (WLFN), or the T'exelcemc (people of WLFN) have belonged to the Secwepemc (or Shuswap) Nation for over 6500 years.

Today, the WLFN community includes a growing population of over 800 registered members who live on reserve in Sugar Cane, in nearby Williams Lake, BC, and across the globe.

One of 17 Secwepemc nations forming Secwepemculecw, the greater stewardship land area extends from Shuswap Lake in the south, to Quesnel Lake in the north, and from Columbia-Kootenay Range in the east, to the Alexis Creek area in the west. In 2017, unprecedented wildfires ripped across the traditional territory and reserve lands of Williams Lake First Nation, resulting in a complete evacuation.

THE 2017 CARIBOO-CHILCOTIN WILDFIRES IMPACTED 750 HECTARES OF RESERVE LAND ON WLFN IR #1 (SUGAR CANE).

(A WHOPPING 45% OF THE RESERVE)





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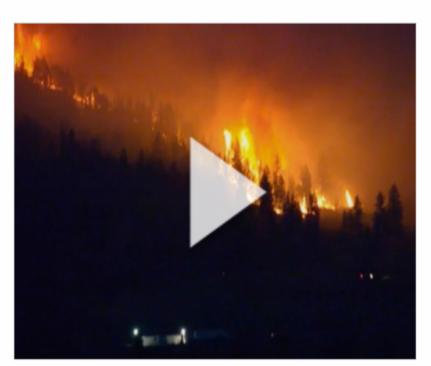
Joey Thomas of Williams Lake Indian Band lost his home in the wildfire that raged through the Sugar Cane community last Friday. Monica Lamb-Yorski photo.

VIDEO: Home lost in Sugar Cane wildfire

Williams Lake Indian Band member Joey Thomas's home was destroyed by the Sugar Cane wildfire last Friday.

MONICA LAMB-YORSKI / Jul. 14, 2017 6:00 p.m. / NEWS





UPDATE: Wildfires grow around Williams Lake Saturday

The biggest fire to note is near Sugarcane, north of Chief William burning at 2,000 hectares

ASHLEY WADHWANI / ANGIE MINDUS / CARMEN WELD / Jul. 8, 2017 6:30 a.m. / NEWS

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All three wildfires surrounding Williams Lake remain "out of control," according to B.C. Wildfire Services.

The wildfire near Sugarcane, 1-kilometre north of Chief William is now estimated at 2,500 hectares in size.

Wildfire takes its toll on Williams Lake Indian Band

SHARE DN: f y 8⁺ p Shannon Waters, contributor, Friday, Jul. 14th, 2017



🖸 Rebecca Kelli, My Cariboo Now

There were no lives lost but lots of damage was done to the Williams Lake Indian Reserve by the wildfire that roared through the area on Friday.

It went down the hill above Reserve #1 and quickly spread around Coyote Rock Golf Course and eventually hopped the Highway and went through the community threatening homes, government buildings, recreational facilities and schools.

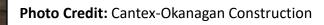
Williams Lake Indian Band members were evacuated just in time, many having only a few moments to grab a few basic possessions.



Photo Credit: Williams Lake First Nation

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Post Fire Consequences:

Damage Erosion Flooding Landslides

Invasive Plants Sloughing Runoff

Loss of Traditional Use Values

Impacts to Mental Health & Wellness







The Narwhal

IN-DEPTH

How the Williams Lake flood in B.C. is linked to wildfire and deforestation

Water-repellent forest floors, soil erosion and a lack of tree cover all influence how snowpack melts in the spring

Natalia Balcerzak, Local Journalism Initiative reporter • May 5, 2020

() 9 min read

The arrival of spring brought a surge of warm weather to Williams Lake, in the Cariboo region of B.C., and with it a rush of meltwater from the region's snowpack. The resulting floods caused a local state of emergency, the contamination of water with sewage and the evacuation of 86 residences — a significant hardship for families given the COVID-19 pandemic.

"We haven't really been anticipating anything like this. ... So far the damage that we've had has been catastrophic," Williams Lake chief administrative officer Milo Macdonald told The Narwhal.

"These are really unprecedented flows."

The combination of warm weather and a higher-than-average snowpack in the nearby mountains serves as partial explanation for the region's biggest flood in approximately 200

https://thenarwhal.ca/how-the-williams-lake-flood-is-linked-to-wildfire-and-deforestation/

Photo Credit: Brittany Cleminson

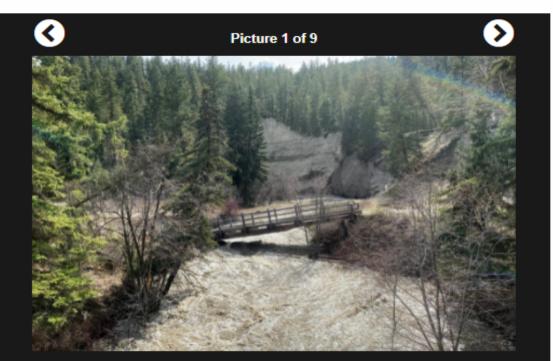




State of emergency declared in Williams Lake due to flooding, erosion in River Valley

MONICA LAMB-YORSKI / Apr. 24, 2020 1:30 p.m. / LOCAL NEWS / NEWS

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Several bridges in the Williams Lake River Valley have been compromised due to flooding. (Angie Mindus photo - Williams Lake Tribune)

An evacuation order for 11 industrial properties on Frizzi Road and the River Valley trail and a local state of emergency have been declared in Williams Lake due to flooding and erosion in the River Valley.



Home > Environmental protection and sustainability > Air, Land & Water > Spills & Environmental Emergencies

Environmental Emergency Program

- Report a spill
- Spill incidents
 - Past Spill Incidents
- Roles and responsibilities
- Environmental emergency legislation
- Planning, prevention & response
- Regulations
- Engagement
- Annual reports

Williams Lake Creek Sewage Spill

DISCLAIMER: Information provided is based on reports received by Emergency Management B.C. Information provided is considered to be current at the time of posting, but is subject to change as new information becomes available.

Incident Description

Incident Date	April 26, 2020
Name	DGIR: 200295
Source	Sewage
Nearest	Williams Lake
Community	
Spilled Content	Sewage
Who is involved?	B.C. Ministry of Environment and Climate Change Strategy, City of Williams Lake, Williams Lake Indian Band, Tŝilhqot'in Nation, Esk'etemc Band, Xatśūll Soda Creek First Nations, Northern Shuswap Tribal Council, First Nations Health Authority, Interior Health Authority, Emergency Management B.C., Fisheries and Oceans Canada (DFO), Environment and Climate Change Canada

Response Phase Detail

The responsible person or spiller is legally required to clean-up or manage the clean-up of a spill. In incidents where the responsible person is

Photo Credit: Brittany Cleminson



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BRITISH COLUMBIA Ministry of Environment and Climate Change Strategy

For Immediate Release

June 26, 2020

JOINT MEDIA RELEASE





British Columbia

Williams Lake landslide sends equivalent of 75,000 truckloads of debris into river; 3 properties evacuated



City councillor says heavy rains could have caused even worse damage

CBC News - Posted: Nov 01, 2020 12:49 PM PT | Last Updated: November 1, 2020



3 properties were evacuated after following a landslide that sent 75,000 truckloads of debris into the river on Oct. 31. Williams Lake Coun. Scott Nelson says at some point the properties near Frizzi Road will no longer have any land because it keeps eroding. (Submitted by Scott Nelson)

A landslide in an industrial area northwest of downtown Williams Lake, B.C., has prompted an evacuation order for three properties and the entire River Valley Trail.

Crews Continue Rebuilding Roads, Sewer Infrastructure in River Valley

Crews continue to rebuild road access and armour river banks in the River Valley, as part of an ongoing strategy to mitigate damage caused by significant flooding on April 23 that ruptured a sewage line connected to the City of Williams Lake's sewage treatment lagoons near Williams Lake Creek.

The work has been part of a massive mobilization effort initiated by a Unified Command at the Emergency Operations Centre, involving the City of Williams Lake (COWL), Williams Lake First Nation (WLFN), Emergency Management British Columbia (EMBC) and B.C. Ministry of Environment and Climate Change Strategy (MOE).

The Unified Command group was established to share information through daily coordination calls to keep all parties apprised of all aspects of the situation. The Unified Command group has led the emergency response work, cooperating with additional agencies in an effort to protect residents and the affected environment.

EMBC is transitioning back to their regional coordination role for site support and providing a Liaison for the Unified Command. Unified Command is now comprised of WLFN, MOE and COWL. Unified Command would like to recognize the team at EMBC for their multi-agency coordination, support, and hard work during this complex emergency response.

The ruptured sewage pipe is being repaired, in hopes of halting the flow of treated effluent into the river, while an independent contractor has been hired to collect water and soil samples for testing. They have been sampling since April 28.

The work is anticipated to continue throughout the summer. Updates will be provided weekly by the Unified Command.

So, what have we done to address these issues?

Infrastructure Projects

Borland Creek Overflow Channel

Asahal Creek Drainage Channel

2

Sutton Road Drainage Channel



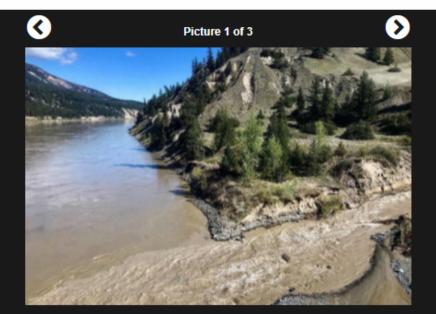
- Over \$1,000,000 invested into flooding mitigation and recovery projects in 2020.
- Participation in joint Unified Command structure with local and provincial government agencies to manage response.
- Collaborative work with Indigenous Services Canada, Emergency Management BC, the Ministry of Transportation, and a host of regional partners.

Cultural and Environmental Stewardship

River valley flooding destroys archaeological sites, uncovers others

REBECCA DYOK, LOCAL JOURNALISM INITIATIVE REPORTER / May. 12, 2020 5:30 p.m. / LOCAL NEWS / NEWS





A state of emergency remains in effect for the Williams Lake River Valley and WLIB Tillion Reserve #4 (WLIB photo)

Flooding in the Williams Lake River Valley has washed away thousands of years of Indigenous history while unearthing others.

Since a pollution abatement order was issued to the City of Williams Lake by the Williams Lake Indian Band (WLIB) on April 30, WLIB manager of title and rights Whitney Spearing said DWB Consulting from Lac La Hache has been working









Indigenous guardians play a vital role in creating and implementing land-use and marine-use plans, says the Government of Canada. (Rebecca Dyok photo)

Williams Lake First Nation to launch Indigenous guardian pilot program

Project chosen out of more than 100 proposals across Canada REBECCA DYOK, LOCAL JOURNALISM INITIATIVE REPORTER / Sep. 14, 2020 6:00 a.m. / LOCAL NEWS / NEWS

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They will be the eyes and ears on the ground.

Indigenous guardians will be coming to a First Nations community near Williams Lake.

Williams Lake First Nation (WLFN) is one of 10 communities across the country this summer to receive \$60,000 in funding from the Government of Canada under the First Nations tier one stream of the Indigenous Guardians Pilot Program.



Environmental Monitoring

ASSA.



Environmental Mitigation

100 MILE HOUSE NEWS QUESNEL WILLIAMS LAKE

Pollution Abatement Order Issued To The City Of Williams Lake

SHARE ON: 🕈 🖤 🖇 P

Pat Matthews, staff Friday, May. 1st, 2020



(supplied by Williams Lake Indian Band)

The Williams Lake Indian Band issued a Pollution Abatement Order yesterday to the City of Williams Lake regarding the sewage effluent into the Williams Lake River Valley and the Fraser River.

In a media release, Chief Willie Sellars said "We had no choice but to issue this order, given the lack of engagement and dialogue with the Ministry of Environment. We recognize that this is an emergency situation and not one that the City of Williams Lake was able to prevent".

Sellars added, "We know the City is doing what it can, but the Ministry of Environment and the Province of British Columbia does not seem to approach this incident, or it's obligations to WLIB, with sufficient gravity".

The Williams Lake Indian Band has a reserve at the mouth of Williams Creek at the confluence with the Fraser River.

Sellers said "The discharge is running right through our lands. The Fraser River is a key fishery for the people of the Williams Lake Indian Band".



Forest Management Initiatives

Forests, Lands, Natural Resource Operations and Rural Development

First Nations' forestry projects generate jobs, green energy

Share

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News Release

Williams Lake Thursday, July 16, 2020 7:30 AM

Media Contacts

Ministry of Forests, Lands, Natural Resource Operations and Rural Development Media Relations 250 356-7506

John C. Walker

Stewardship Forester Williams Lake First Nation john.walker@williamslakeband.ca 778 417-0182

Aleece Laird

Communications Liaison Forest Enhancement Society of BC communications@fesbc.ca 250 574-0221

More from this Ministry

Factsheets & Opinion Editorials

Forest Enhancement Society of BC (FESBC) grants are supporting the Williams Lake First Nation (WLFN) as it creates jobs, fights climate change and reduces wildfire risk near its community.

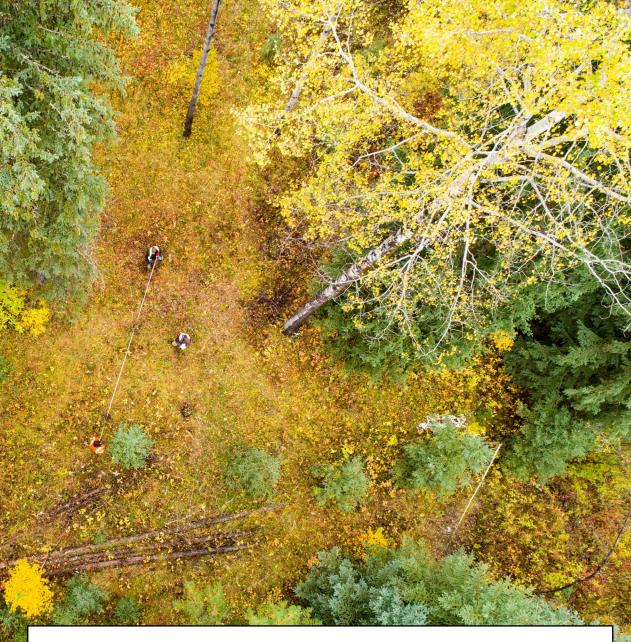
To date, grants have supported the removal of 64,000 cubic metres of slash (debris from forest fires) and over the next two years, the total will reach 200,000 cubic metres.

The ongoing project is also creating an estimated 26 jobs for both the WLFN and the Tŝideldel First Nation (TFN), which has partnered to grind the debris on site and ship it to local markets.

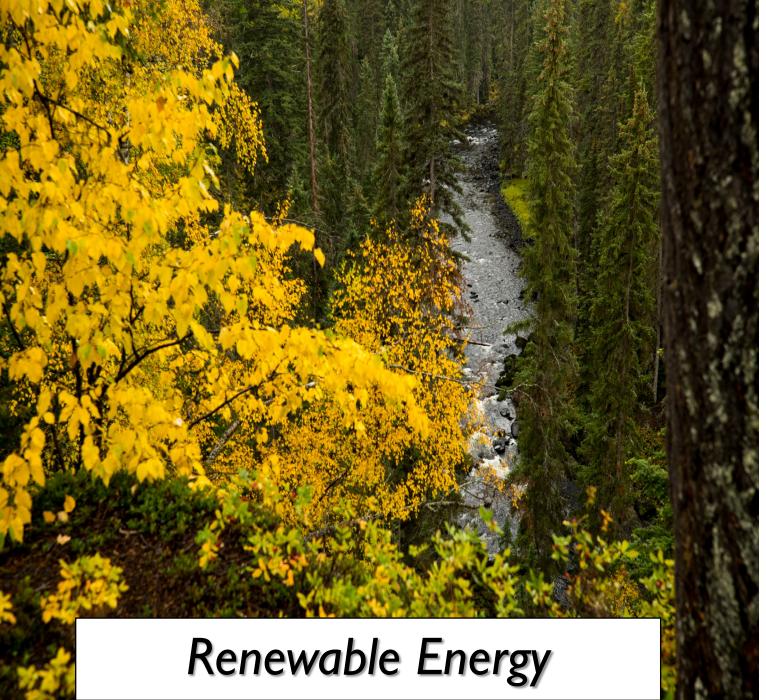
"The WLFN have partnered with the TFN on this unique ongoing project that is seeing slash piles turned into biomass fuel instead of burning them," said Doug Donaldson, Minister of Forests, Lands, Natural Resource Operations and Rural Development. "This green-energy project is reducing greenhouse gas emissions and building new economic opportunities for both communities while contributing to B.C.'s clean energy plan."

Three FESBC grants between 2017 and 2019, totalling more than \$3 million, allowed WLFN to develop an ongoing program and enabled it to build several partnerships to grind the debris at site and truck it to local markets. One of the most significant partnerships was with the TFN contractor, Tsi Del Biomass Ltd., which brought logging and grinding experience to the project.

Typically, slash from wildfire salvage logging is piled and burned at site because transportation is cost prohibitive. Burning slash piles increases smoke in local airsheds and increases greenhouse gas emissions.



Greenhouse Gas Reduction





Slash that would be normally be burned is being transported to local markets in Williams Lake through an ongoing project by the Williams Lake First Nation who has partnered with Tsideldel First Nation to grind the debris on site. "Not removing the piles of debris could contribute to a very intense fire - obviously undesirable adjacent to the community," said consulting forester Ken Day with KDay Forestry Ltd. (Monica Lamb Yorski photo)

First Nations project to remove biomass for markets in Williams Lake continues

The fibre will be used by Pinnacle Renewable Energy and Atlantic Power

REBECCA DYOK, LOCAL JOURNALISM INITIATIVE REPORTER / Jul. 16, 2020 11:25 a.m. / LOCAL NEWS / NEWS

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A forestry project by two B.C. First Nations in the Central Interior continues to fight climate change and reduce wildfire risk while creating jobs.

Grants to date by the Forest Enhancement Society of BC (FESBC) have supported the Williams Lake First Nation (WLFN) in partnering with the Tsideldel First Nation (TFN) to remove 64,000 cubic metres of slash (debris from forest fires) in the region.

NEWS QUESNEL WILLIAMS LAKE

Cariboo benefits from provincial wildfire prevention money

SHARE ON: 🕈 🍯 🖇 P

George Henderson, staff Monday, Mar. 9th, 2020



Photo: BC Wildfire Service

The City of Quesnel is getting more than 275 thousand dollars from the provincial government to help reduce the risk and impact of future wildfires in the community.

The money is broken down into two parts.

Lacy Scuffi is the City's Forestry Initiatives Coordinator...

"We've awarded 150 thousand dollars to advance Fire Smart, and we're going to use that or organize outreach events such as wildfire preparedness day, and support home and business owners to assess and treat their properties."



Fuel Management

Replanting Natural Stands



Emergency Preparedness



- \$250,000+ invested in increasing emergency response capacity
- \$50,000+ invested in new equipment
- \$50,000+ invested in Safety and Emergency Plan updates
- \$25,000+ invested in accredited emergency management training for EOC Staff
- Emergency Operations
 Department created in 2020





Williams Lake

COMMUNITY LED ACTIONS







Magnetawan First Nation Samantha Noganosh

T'Sou-ke First Nation Andrew Moore

Williams Lake First Nation Brittany Cleminson

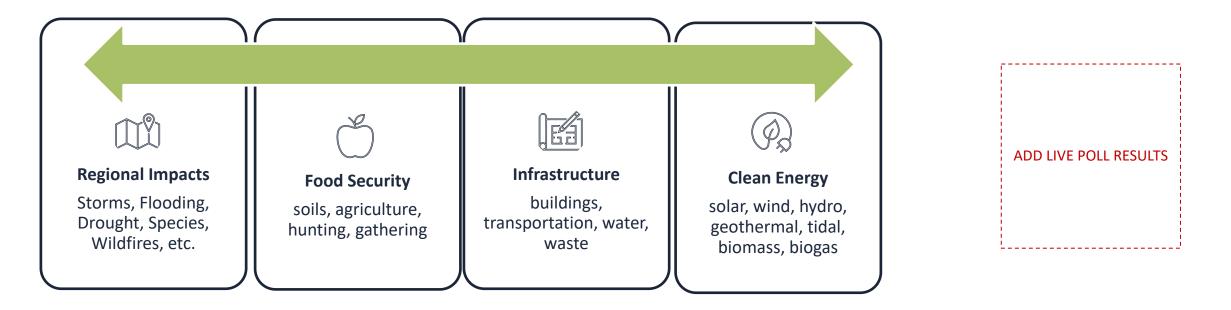




Group Discussion

Has your Land Code affected or influenced your climate change related activities and actions in any way?

- What climate change impacts are being identified in your community?
- How is your community actively planning to address current and future impacts?

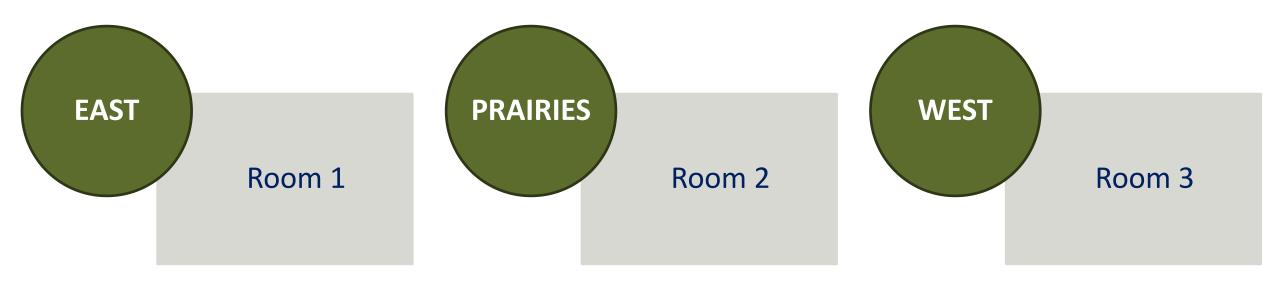








RC Regional Discussion Groups









Climate Change & First Nation Communities

RC presentation by

Stefanie Recollet

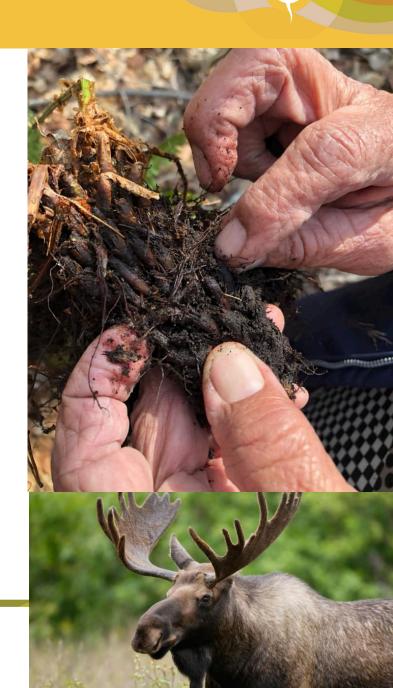




Impacts of Climate Change on First Nations

Key Points:

- Each community affected differently
- Unpredictability can make adaptation a challenge
- Land knowledge & Cultural Identity closely tied
- Harvesters & Land Users are noticing changes in Keystone Species
- Some Regional Impacts can be Mitigated
- Adaptation efforts will need to vary Region to Region





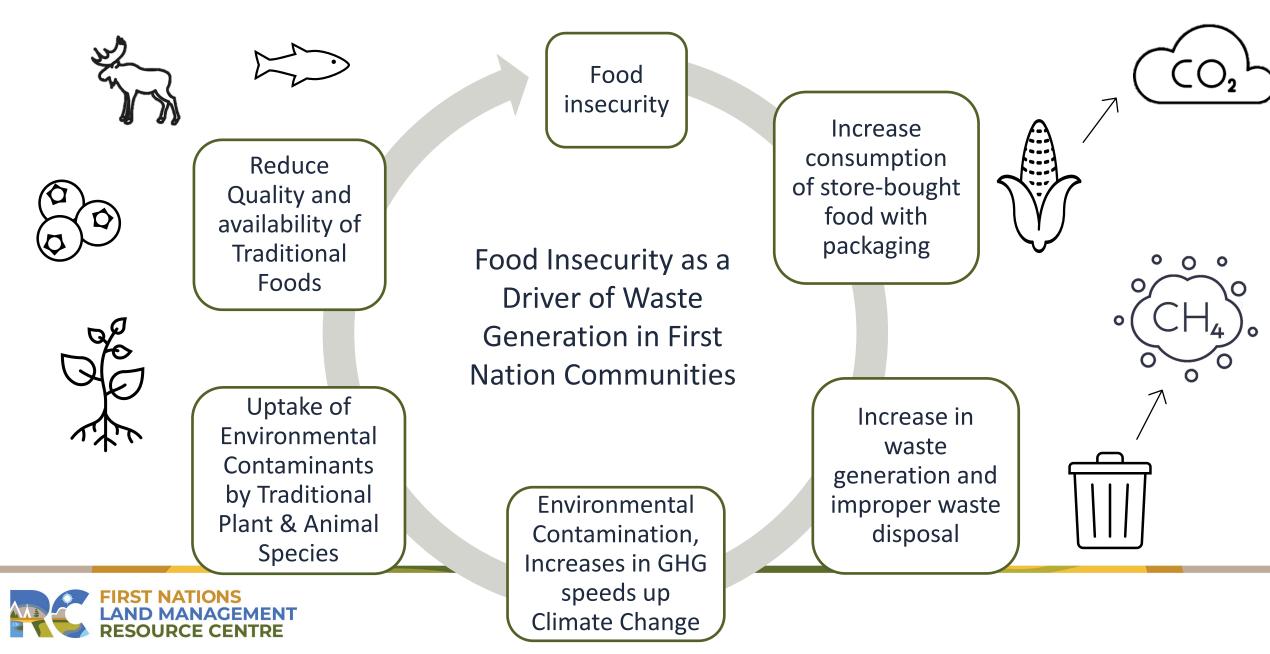
Traditional Ecological Knowledge (TEK) in Land Governance & Climate Change

- Indigenous Knowledge can (& should) inform decision-making
- Protect Indigenous Rights & Interests
 - Traditional Harvesting (Hunting, Fishing and Gathering)
 - Ceremonial Sites & Cultural Assets
- Helps to understand the value of land
- Ensure Resource Development activities carried out respectfully with the least impact

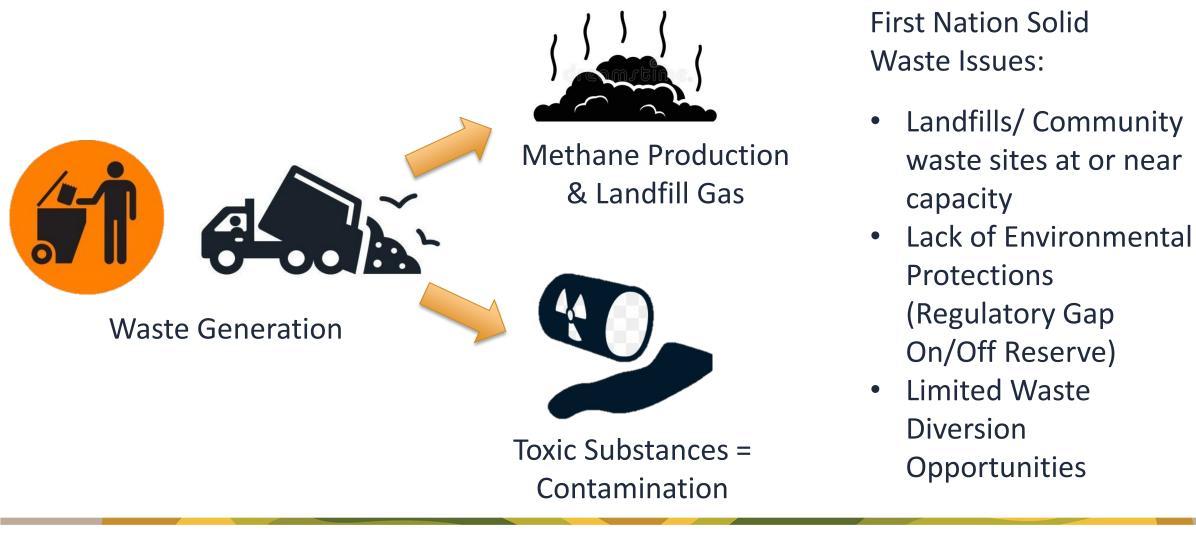




Climate Change, First Nation Food Insecurity & Waste Generation

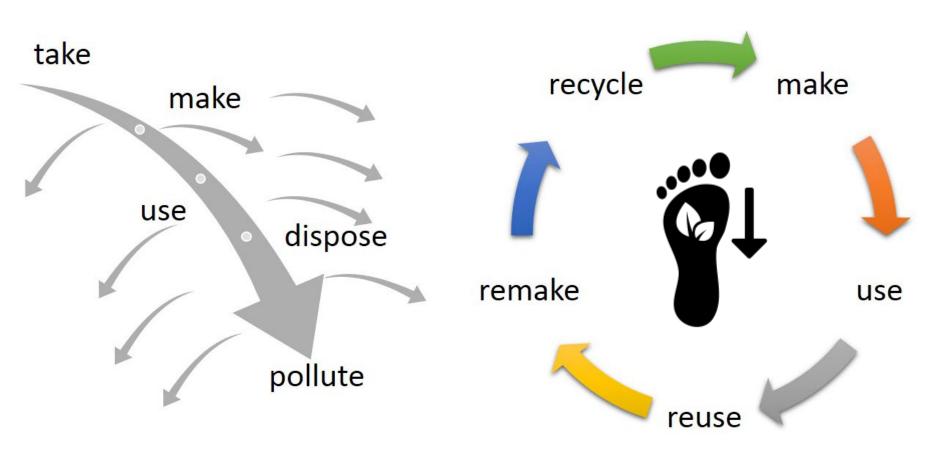


Climate Change & First Nation Issues in Solid Waste





Building Resilience: Circular Economy & Indigenous Brilliance

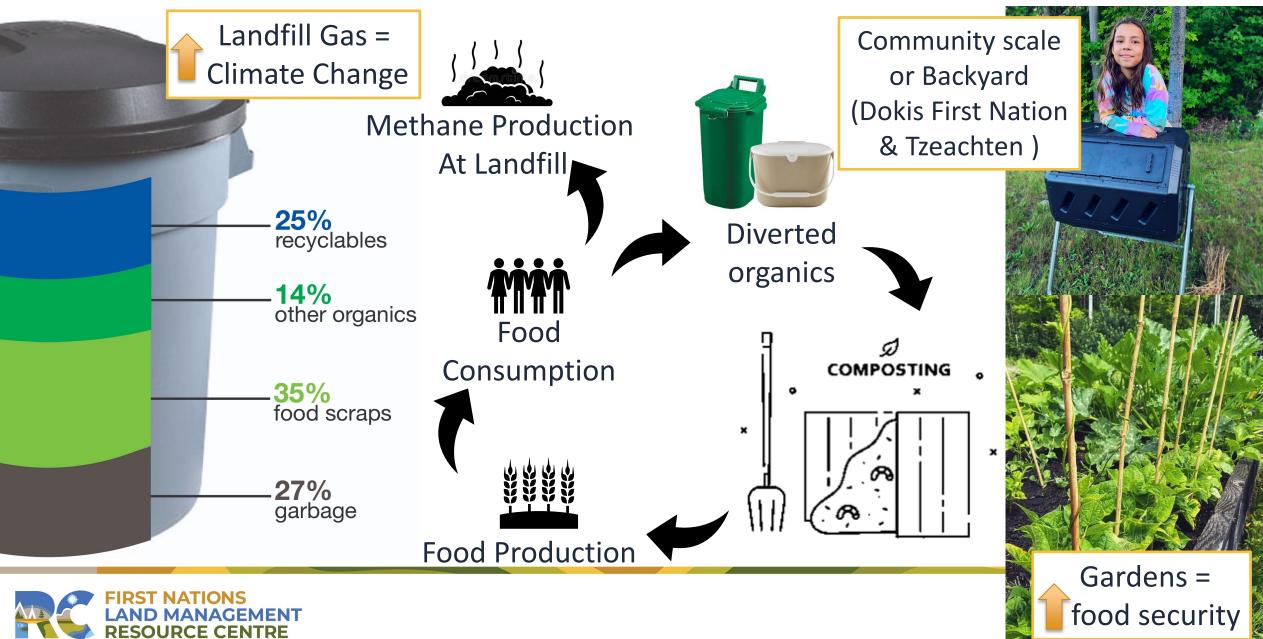


First Nation Innovation in Resource Recovery:

- Canupawakpa
 Dakota Nation's
 Plastic Reuse Pilot
 Project
- Construction Waste Reuse
- Old Boat Demolition& Recovery
- Fish Waste



Building Resilience: Organic Waste Diversion & Food Security



Planning Tools to Address Climate Change

RC presentation by

Adam Wright Chantal Kitamura Jennifer Predie





- Climate change has a growing impact on First Nations Communities in Canada, depleting food sources and affecting health.
 - Canada as a whole is contributing to the climate crisis, but First Nations peoples feel these impacts acutely resulting from their reliance on and connection to the land.
- Land Use Planning, Environmental Management Planning and other planning tools can help prepare for and respond to impacts from Climate Change through the creation and continuance of resilient Communities.

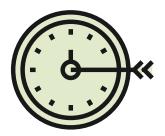




PLANNING TOOLS & THE FRAMEWORK AGREEMENT

- Land Code First Nations are well positioned to respond to Climate Change:
 - Create enforceable guidelines in direct response to climate change related issues for your Community
 - E.g., design guidelines to support green design, resilient infrastructure, active transportation, etc.
 - Opportunities for collaboration with regional partners and First Nations in the development of guidelines (e.g., Guardianship Governance).
 - Lands Governance enables a timely response
 - Although Climate Change is typically viewed as a 'Long-Term' issue, there are various efforts that can be taken immediately to begin addressing impacts relating to climate change (e.g., protection of wetlands, forests and cultural lands, reduction in energy consumption, recycling, Community gardens).







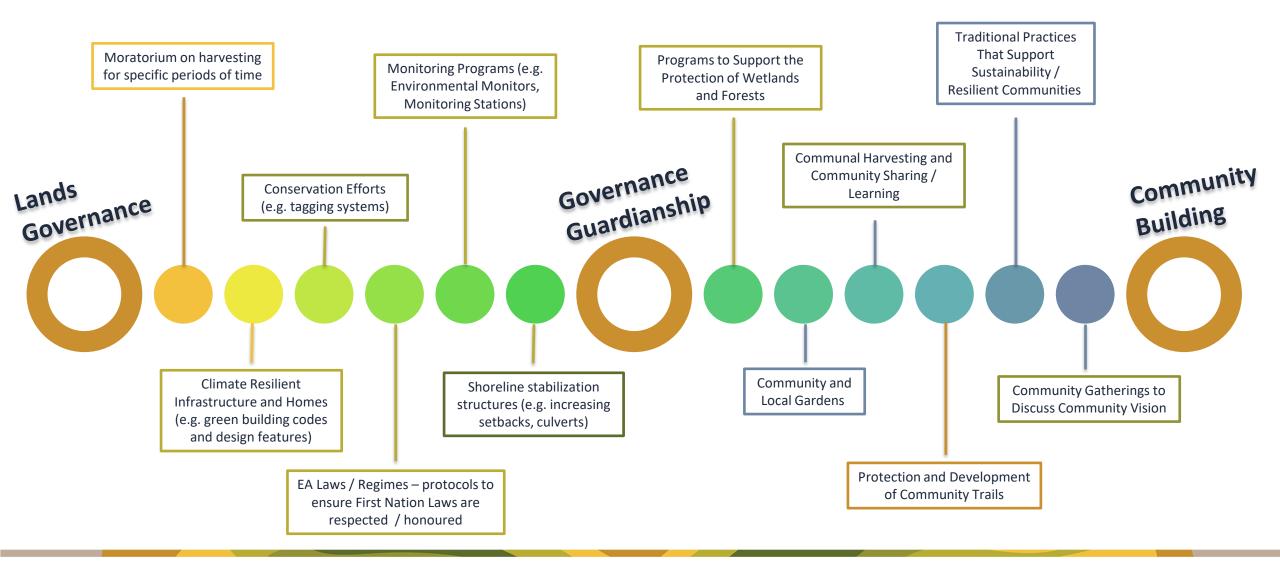
PLANNING TOOLS & THE FRAMEWORK AGREEMENT

- Land Code First Nations are well positioned to respond to Climate Change based on the following:
 - Ability to create LUPs and EMPs and associated Laws in response to direct issues
 - Create plans and associated laws to address Climate Change issues
 - E.g., Active Transportation Plans, Community Energy Plans, Forest Management Plan, Disaster Mgmt. Plans / Policy
 - Create plans and associated laws on special topics that are relevant to your Community
 - E.g., Storm Water Management Plan, Wetland Protection Plan, Invasive Species Response Plan, Cultural Heritage Plans, Development Permits / Policy





Lands Governance and Community Building





Key Planning Tools to Address Climate Change



Monitoring and Conservation

- Water quality & quantity
 - (E.g., temperature, sea level rise)
- Fisheries assessments
- Air quality
- Shoreline erosion
- Species population & distribution
 - (E.g., Culturally significant species, medicines, species at risk, invasive species)
- Seasonal timing of plants and animals
 - (E.g., breeding, migration)
- Conservation of resources
 - (E.g., Sustainable Forest Mgmt., Wetland Protection / Enhancement)



- Incorporating climate change into Land Use Plans (LUP), Zoning and Environmental Management Plans (EMP)
 - (E.g., Tsleil-Waututh Nation LUP, Shawanaga EMP)
- Incorporation of climate change into special topic plans
 - (E.g., Forest Management Plan)
- Land Laws
 - (E.g., EA Regimes, Development Permits, Building Codes to support Green Infrastructure/Design)



Education Programs

- Build Community awareness of Climate Change and what it looks like "on the ground" (E.g., invasive species, variable weather, water quality).
- Share Traditional Knowledge and practices with Community
- Discuss personal choices and the actions that your Community can do "on the ground". (E.g., reduce energy consumption, reduce waste, grow our own food, etc.).

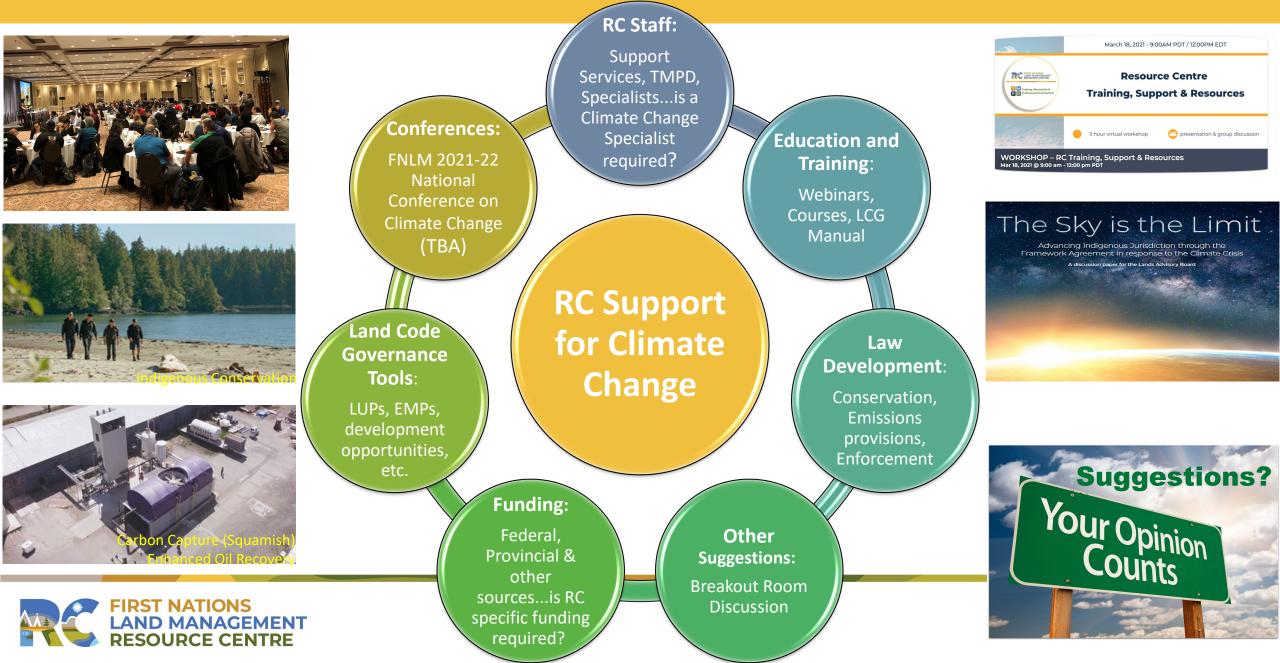


Involving Your Community in Planning Processes





How can the RC better support First Nations' Climate Change Initiatives?



Group Discussion

How do you view the RC as a resource for addressing climate related actions in your community?

2

Do you see a need for stronger linkages between lands and infrastructure management to address climate change?

3

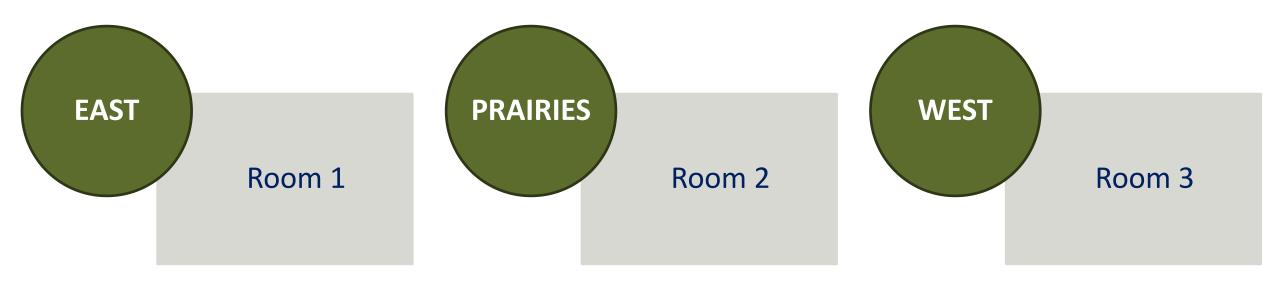
What suggestions do you have on networking, partnerships and what the RC can assist with?







RC Regional Discussion Groups







Questions & Discussion







Explore the range of climate change challenges and opportunities that may affect Framework Agreement First Nations

Share stories and experiences in community led action in response to climate change Discuss how the Resource Centre as an organization can support Framework Agreement First Nation communities with climate change related issues

RC Climate Change Resources:

Climate Change Courses, Workshops, Virtual Networking

The Sky is the Limit: Advancing Indigenous Jurisdiction through the Framework Agreement in response to the Climate Crisis

Climate Change & Our Youth: A Toolkit for Communities



Workshops	MAY 6	LABRC National Land Registry Workshop
	JUN 10	Land Development, Public Works & Infrastructure

Save the Date	JUL 8	AUG 12	SEP 9
	OCT 7	NOV 4	DEC 9



3 hour virtual workshops



Registration opening soon!







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