

Weekly NEWS



An Information Service for Alberta's Environment Industry

The Week Ending May 10th, 2019



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**Comments & submissions
are welcome!**

Please submit your
announcement
via e-mail to:
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REMTECH 2019 CALL FOR ABSTRACTS NOW OPEN - *SUBMISSION DEADLINE EXTENDED TO JUNE 7TH, 2019*

ESAA invites you to submit technical abstracts focusing on technologies for the remediation of contaminated soil. Abstracts are encouraged in, but not limited to, the following areas:



- In-Situ and Ex-Situ Treatment
- Physical / Biological / Chemical Treatment
- Soil Washing and Scrubbing
- Thermal Desorption
- Incineration
- Stabilization / Solidification
- Immobilization
- Aeration
- Soil Venting
- Membranes
- Encapsulation
- Vitrification
- Natural Attenuation
- Oil Sands Remediation / Reclamation
- Oil Spills Management
- New Technology and Research
- Remote and Difficult Locations
- Reclamation
- Emerging Contaminants
- Superfund Projects
- Landfill Closure
- Phyto-remediation
- All other related topics will be considered

The preliminary selection of presentations will be based on submitted abstracts and reviewed by a panel of peers.

Abstracts should be no longer than 500 words (not including bio), should include a presenter biography and be submitted as a Word Document by no later than June 7th, 2019.

Before submitting your abstract, ensure that client approval has been obtained.

Send abstract submissions to Joe Chowaniec via email to: info@esaa.org

Notification of acceptance will be given by July 12, 2019.

Full presentations must be submitted by September 27, 2019.

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ESAA  **Golf Tournament**
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The ESAA Golf Tournament/Brian Winters Memorial will be held on Wednesday, July 17, 2019 at Alberta Springs Golf Resort just north and west of Red Deer. It is a perfect opportunity for ESAA members to invite clients to spend a great day on the links. We promise to provide a day of enjoyable golf, powercarts, lots of prizes, good food and great networking for up to 144 participants. For more details visit: <https://www.esaa.org/golf/>



ESAA INDUSTRY AWARDS - DEADLINE TO APPLY IS MAY 31ST!

The ESAA Industry Awards is an annual awards program that recognizes member excellence in the areas of environmental innovation and community service. The program is open to all ESAA member organizations with the winners announced and awarded each year at the *RemTech* Symposium held in October. As part of the recognition process, winners will be featured in a short promotional video showcasing their companies. The videos will then be available to the winning companies following *RemTech* to use for their own promotional material.

ESAA INDUSTRY AWARDS

There are two categories member organizations can apply for:

1) Environmental Industry Award

The **Environmental Industry Award** recognizes an individual or companies' innovative efforts designed and executed to support and contribute to the environmental industry. The award may be given in recognition of individuals or companies who implemented or completed an innovative technology, procedure or project that increased efficiencies; minimized waste or eliminated duplication of efforts, processes or systems; contributed to significant cost savings; and contributed to a positive environmental outcome.

2) Community Service Award

The **Community Service Award** recognizes a member organization that is an active community leader demonstrated through: volunteering significant time and corporate resources to work with charitable, educational, and/or environmental organization, or community service group; or may have participated in significant community project/program that increases awareness of the importance of the environmental industry among students and the general public or improves the quality of life in the community.

You can find all this information and how to apply online at:

<http://www.esaa.org/industryawards/>.

THE DEADLINE TO APPLY IS MAY 31st.

Any questions or concerns can be directed to dryden@esaa.org.

We look forward to your submissions.



CREW RIVER DAY! - WE NEED YOUR FEEDBACK!

CREW is planning its first-ever River Day and we need your feedback! Come join your fellow environment industry workers for an afternoon canoe trip down the North Saskatchewan River. All aspects of the event will be planned for you - just show up at the pick-up site! We are expecting a cost of approximately \$40 - \$50 per person (based on a canoe occupancy of three people).

We need your feedback to ensure we provide you a successful day. Please complete the short survey below.

<https://www.surveymonkey.com/r/VKNQLJS>

BIGHORN PARKS PROPOSAL WILL NOT GO AHEAD, SAYS ALBERTA'S ENVIRONMENT MINISTER

(Source: CBC News) The plan, introduced by Rachel Notley's NDP government, aimed to protect the eastern slopes of the Rocky Mountains near Nordegg, Alta. (Government of Alberta)

Alberta's new environment minister says he will scrap the previous government's proposed plan for protected areas in Bighorn Country.

Last November, the NDP government announced eight new parks covering 4,000 square kilometres along the eastern edges of Banff and Jasper national parks.

Environment Minister Jason Nixon said the United Conservative Party government will not go ahead with that proposal.

"We were very clear that the NDP's plan for the Bighorn was flawed," Nixon said Tuesday in an interview.

"It was the worst consultation process that I've seen. Second, that there was a tremendous amount of economic concerns and questions that were not answered. There were also some environmental questions and concerns that were not answered.

"All of the First Nations communities in the area and all of the municipalities in the area have outright rejected the NDP's plan."

The UCP government will return to the North Saskatchewan regional planning process, Nixon says. (LoveyourHeadwaters)

Residents and municipal officials have raised concerns about how the proposal might affect oil and gas exploration, the forestry industry and off-road vehicle use.

The NDP's plan called for a variety of permitted activities and provided \$40 million over five years for campsites and other infrastructure.

Off-highway vehicles, horse packing and hunting would have continued, though with new restrictions. Grazing leases would have remained and no existing trails would have been closed.

Shannon Phillips, who was environment minister under the previous NDP government, called the news disappointing for Albertans.

"Clearly this new minister is not interested in conservation, which is not surprising considering his record," she said in a statement.

Phillips said a majority of Albertans supported protecting the headwaters of the North Saskatchewan River, which provides drinking water to more than a million people in central and northern Alberta — including Edmonton.

The Canadian Parks and Wilderness Society was also concerned by the UCP government's plan to cancel the proposal.

"It's a short-sighted decision," said Kecia Kerr of the organization's northern Alberta chapter.

"The idea for protection of this area has a very, very long history that goes back decades. The concept to protect the headwaters of the North Saskatchewan River is not something that just came out of the previous government."

Kerr said it's an important area for many species and also the source of drinking water for all communities along the river, including Edmonton.

"The protection of this area is really just long overdue," she said.

Nixon said the government will return to the regional planning process and move forward from that perspective.

"The headwaters portion of this — most of it exists in the national parks and in what's called public land use zones," he said. "It's important that we recognize there are some mechanisms in place, and those will continue."

Nixon pointed out that the region is massive compared to every other provincial wildland area, except Kananaskis. It encompasses numerous municipalities, counties and industrial activities and "is the backyard for Alberta recreation for much of Edmonton and Calgary."

Its operation involved a number of recreation and non-profit conservation organizations, partnerships that Nixon said weren't addressed in the previous plan and are critical to successful management of the area.

"The eastern slopes have been managed for decades, for a century in some cases, by some really great non-profit organizations who seem to have not been brought around the table," he said.

"We need to partner with people to manage these landscapes. This is not something that the government can do by themselves."

Nixon said he wants to see both an economic and environmental assessment of the proposal to better understand the challenges.

"We still have to make the right environmental decision but we should understand all of the factors that are taking place and be able to answer those questions for the community," he said.

As an example, he said, there were concerns for some of the developments within the NDP plan and whether they would have negative effects on wildlife.

Overall, Nixon said, they need to have better consultation.

Kerr said she hopes that includes a careful review of the previous work and incorporating it into the new plan.

"A lot of resources have already gone into this, and it would be a shame for all that time and financial investment to be wasted," she said.

"We look forward to working with the government on the development of a North Saskatchewan Regional Plan that includes appropriate legislative protection of the headwaters of this important watershed."

TAKING ACTION TO BUILD THE SPRINGBANK RESERVOIR

The Government of Alberta is appointing lawyer Martin Ignasiak to assess opportunities to expedite construction of the Springbank Off-Stream Reservoir.

Ignasiak, a partner at the law firm of Osler, Hoskin & Harcourt LLP, has extensive experience developing and executing strategies to obtain regulatory approvals for large-scale projects.

As an independent expert, Ignasiak will work swiftly to assess the project's status and advise the government about immediate action to move the project forward, while respecting the regulatory approval processes and the ongoing consultations required with important stakeholders.

"We need an independent expert to evaluate the Springbank Reservoir project and determine what can be done to move this project forward. We are confident that Mr. Ignasiak will help us move quickly to protect the safety and economic security of Calgary and those living in other communities downstream of the Elbow River." - *ic McIver, Minister of Transportation*

The Springbank Reservoir is part of the government's overall flood-mitigation strategy for southern Alberta. Ineffective flood mitigation risks billions of dollars in lost economic activity and property damage.

Once constructed, the Springbank Off-Stream Reservoir will work in tandem with the Glenmore Reservoir in Calgary to accommodate water volumes equivalent to the southern Alberta floods of 2013. The project is under review by the Canadian Environmental Assessment Agency, Alberta Environment and Parks and the Natural Resources Conservation Board.

Related information

- [Springbank Off-Stream Reservoir Project](#)

AER: NEW MANUAL FOR COAL MINE PIT WALL ABANDONMENT

Today we released [Manual 017: Coal Mine Pit Wall Abandonment](#). No requirements have changed. The manual details the application process, submission requirements, and evaluation methodologies for coal mine pit wall abandonment under section 12 of the *Coal Conservation Rules*.

The manual does not address conservation, closure, or reclamation requirements that are regulated under the *Environmental Protection and Enhancement Act (EPEA)* or the *Public Lands Act (PLA)*.

Manual 017 is available on the AER website, www.aer.ca. Printed copies of the manual can be purchased from AER Order Fulfillment, Suite 1000, 250 – 5 Street SW, Calgary, Alberta T2P 0R4; telephone: 403-297-8311 or 1-855-297-8311 (toll free; option 0); fax: 403-297-7040; email: [InformationRequest@aer.ca](mailto:InformationRequest@ aer.ca).

GOVERNMENT OF CANADA'S RESPONSE TO SASKATCHEWAN COURT DECISION

What is the hearing about?

Carbon pollution knows no borders. Establishing minimum national price stringency standards for greenhouse gas emissions is a matter of national concern. Greenhouse gases in the atmosphere are causing climate change. Failure by one province to reduce greenhouse gas emissions will harm the rest of the country.

In June 2018, the *Greenhouse Gas Pollution Pricing Act* became law, ensuring that it will no longer be free to pollute anywhere in Canada. The purpose of carbon pricing is to encourage the changes and innovation needed to reduce greenhouse gas emissions, which cause climate change.

The Province of Saskatchewan has asked the Court of Appeal for Saskatchewan for its opinion on whether the Parliament of Canada has the constitutional authority to pass the Act.

Canada's position is that the Act is constitutional. Parliament has authority to pass the Act for the peace, order, and good government of Canada, under section 91 of the *Constitution Act, 1867* to address the cumulative dimensions of greenhouse gas emissions.

What does the Greenhouse Gas Pollution Pricing Act do?

The Act implements a central component of Canada's climate plan, the Pan-Canadian Framework on Clean Growth and Climate Change. The Pan-Canadian Framework includes a federal-provincial-territorial commitment to ensure carbon pricing applies in every province and territory in Canada. The Act fulfills Canada's commitment to put in place a pricing mechanism on greenhouse gas emissions.

Canada worked with provinces and territories for two years to put a price on carbon pollution across the country. The Act implements a carbon pollution pricing system that will apply as a backstop in all provinces and territories that do not have a carbon pricing system of their own or that have a system that does not meet the federal benchmark.

More information about the federal carbon pollution pricing system is available on the [Putting a price on pollution](#) page.

What are the impacts of climate change in Canada?

The science is clear: Human activity is driving unprecedented changes in the earth's climate, posing significant risks to the health and well-being of Canadians and communities and to the economy.

A recently published assessment—[Canada's Changing Climate Report](#)—confirms that the effects of widespread warming are already evident in many parts of Canada and are projected to increase in the near future. A warmer climate will intensify some weather extremes, particularly in Western Canada. Extreme hot temperatures will become more frequent and more intense. This occurrence will increase the severity of heatwaves and contribute to increased drought and wildfire risks. The seasonal availability of fresh water is also changing, with a higher risk of water-supply shortages in summer.

In many Prairie rivers, annual peak streamflow will be earlier in the spring due to earlier seasonal snowmelt. In rivers beginning in the mountains, summer streamflow is projected to decrease due to decreasing snow and ice cover in headwater regions.

Across the Prairies, growing seasons for warm-season crops could lengthen by weeks, by mid-century, and potentially by more than a month, by late century. However, summer droughts and low soil moisture are also projected to be more frequent and intense across the southern Prairies during summer.

What is the Pan-Canadian Framework on Clean Growth and Climate Change?

The Pan-Canadian Framework on Clean Growth and Climate Change is Canada's climate plan. It is the country's overarching framework to reduce greenhouse gas emissions across all sectors of the economy, grow the economy, and build climate resilience. It includes commitments by federal, provincial, and territorial governments. All provinces and territories have joined Canada's climate plan, except Saskatchewan.

More information on the plan is available on the [Pan-Canadian Framework on Clean Growth and Climate Change](#) page.

Jobs in Canada's low-carbon economy are expected to grow in number. Already, more than 270,000 Canadians work in environmental and clean technology activities (2016). These activities also contributed around \$60 billion (3 percent) to Canada's gross domestic product (GDP) in 2016.

Canada's commitment to clean growth will not only support our communities and create good jobs for the middle class, it will accelerate the shift to the low-carbon economy and protect our planet.

How will the Climate Action Incentive impact residents of Saskatchewan?

The Government of Canada has committed to return all direct proceeds collected in Saskatchewan under the federal pollution pricing backstop system through direct payments to individuals and families and investments to reduce emissions, save money, and create jobs.

Individuals in Saskatchewan will receive a Climate Action Incentive payment after filing their 2018 income tax and benefits return starting in early 2019. Climate Action Incentive payments in Saskatchewan will be calculated as follows for 2019:

- \$305 for a single adult or the first adult in a couple.
- \$152 for the second adult in a couple. Single parents will receive this amount for their first child.
- \$76 for each child in the family (starting with the second child for single parents).

Under this approach, a Saskatchewan family of four will receive \$609 in 2019. For residents of rural and small communities, the Climate Action Incentive payment will be supplemented by 10 percent in recognition of their increased energy needs and reduced access to alternative transportation options.

What are the next steps?

Depending on the outcome, within thirty days of the decision, Saskatchewan or Canada may appeal the Saskatchewan Court of Appeal's decision with the Supreme Court of Canada.

In a separate proceeding, the Ontario Court of Appeal is also considering whether the Parliament of Canada has the constitutional authority to pass the Act.

The Ontario Court of Appeal heard the Ontario Reference on April 15 to 18, 2019.

QUESTIONS SURROUND MOUNTAINOUS WASTE PILE NEAR PENTICTON AS COMPANY'S FINANCES TRASHED

(Source: Global News) The mountains of construction and demolition waste towering high over Green Mountain Road on the Penticton Indian Reserve has been an eyesore for years.

Neighbours have complained about the potential fire hazard and claimed it's a risk to public health.

Last spring, operator Appleton Waste Services — which leases the land from a band member — promised to clean up its act.

But that was then and this is now.

The dump piles remain, and the business's finances are also in the trash.

Court documents obtained by Global News show Appleton Waste has declared itself insolvent and cut a deal with creditors.

Appleton filed a Division I proposal under the Canada Bankruptcy and Insolvency Act. It is an option available to businesses to restructure debts and operations instead of filing for bankruptcy.

The company is \$2.5 million in debt. The proposal will allow creditors to recover \$765,000 to \$790,000 over three years.



Insolvency trustee Gregory Moroso, hired by Appleton, claims it's a much better deal than if the business were to pursue bankruptcy proceedings.

"The proposal contemplates a recovery to creditors in the range of 45% to 57%, while bankruptcy proceeding results in little to no recovery to unsecured creditors," Moroso writes in the report.

The court filings note that management has eliminated its Alberta operations "which has reduced payroll significantly."

The documents say the B.C. operation will retain its nine employees but there are five outstanding wage claims from Alberta employees totaling approximately \$10,000.

Moroso says in an email to Global News that the proposal was accepted by the required majority of creditors at a meeting on April 5.

An application for the court to approve the proposal has been submitted.

So what does the company's financial woes mean for the on site clean-up efforts?

The landlord, Adam Eneas, and Appleton are still working out a plan.

"We are in the process of restructuring our operations and will continue to do everything we can to remove the material from the Green Mountain Road site," owner David Appleton said in an email.

Eneas declined to comment but says on Facebook that "we are looking at alternatives to get rid of the waste."

Last spring, Appleton blamed the mess on equipment failures and assured the public all on-site material is non-hazardous. He added that 90 per cent of the material is recyclable.

"As far as the appearance of it, absolutely we are making it a priority to get waste sorted, recycled where we can, and the residual out to landfill to get this pile down," he told Global Okanagan in April of last year.

Appleton declined an on-camera interview on Wednesday, but blamed his company's financial hardships on the Regional District of Okanagan-Similkameen (RDOS).

"We have continued to struggle with our transfer operation in Penticton, mostly as a result of the RDOS reducing their disposal rates by around half since we started up as a competitor," he said in an email.

"They set out to eliminate their only competitor, and unfortunately it's hard to compete with a government body wanting to eliminate any competition."

Appleton is embroiled in a lawsuit with the RDOS over alleged unpaid dumping fees at local landfills totaling \$147,000.

"The RDOS claim for unpaid disposal fees is for surcharges related to supposed mixed waste being disposed of. We paid all their posted gate rates for everything we have ever delivered to them," he said.

Global Okanagan has reached out to the RDOS for comment.

Appleton Waste Services was incorporated in June 1993 and was purchased by the current ownership in May 2013. It primarily acts as a transporter and processor in the waste and recycling industry, according to court documents.

Its three main operations includes processing of recyclables, roll off collection and long-haul transportation of waste and other materials.

Appleton says while it shut down its Alberta operations, it plans to continue running the transfer station on the Pentiction reserve.

COURT APPROVES THE SALE OF CONTAMINATED MOUNT NANSEN MINE SITE

(Source: Yukon News) The sale to Alexco and JDS has been approved as long as certain conditions are met

Yukon Supreme Court has approved the sale of the contaminated Mount Nansen mine site near Carmacks to a partnership between Alexco and JDS Group.

The May 6 approval means work can get underway to prepare a water licence application for the site.

As Brad Thrall, president of Alexco Environmental, said in a May 7 interview, for the final sale to go through a number of conditions must be met and that will take some time.

The conditions include the water licence requirement for Alexco/JDS to take over care and maintenance of the site, and that has to happen before anything else can.

He expects it will be towards the end of the year by the time the water licence is approved.

The purchase price has not been made public.

Under the sale agreement, the federal government will oversee and pay for cleanup work to be done by Alexco/JDS over the course of about a decade. Alexco and JDS will then own the site and the claims associated with it.

"It fits perfectly with our business model," Thrall said.

As he explained, the arrangement is similar to the work Alexco has done in the Keno Hill silver district in efforts to remediate older mining sites along with doing exploration work and moving towards production.

Thrall said it's too early to say just yet what the future will hold for Mount Nansen after the reclamation work is done, but there's no exploration plans for Mount Nansen at this point.

B.Y.G. Natural Resources, which eventually went bankrupt, abandoned the mine site near Carmacks in the late 1990s. The federal government took over responsibility for it in 2004 with a clean up plan approved by Yukon Supreme Court in 2016.

In a 2016 written decision approving the clean-up plan, Yukon Supreme Court Justice Ron Veale did not mince words about the situation.

"It is an embarrassment to Canada, Yukon and the responsible mining community," he wrote at the time.

Thrall said it would likely be three to four years to get through all the planning and regulatory approval processes before work will begin on Mount Nansen.

Included in the work outlined by the court is a dewatering of the mine pit before it is filled with waste rock, tailings and contaminated soil. The pit will then be sealed off with a permanent liner.

Thrall said the company is pleased with the agreement it has with the Little Salmon/Carmacks First Nation, highlighting the important role members of the First Nation will play in the cleanup efforts.

"After almost three decades of concern and constant pressure and monitoring from Little Salmon/Carmacks First Nation government, the citizens of the Little Salmon/Carmacks First Nation will be pleased to see the finalization of the agreements that will lead to the remediation of the abandoned BYG mine site at Mt. Nansen," said Chief Russell Blackjack in a statement.

"Little Salmon/Carmacks First Nation's Council, our development corporation and our senior staff have worked to ensure our future generations will be able to utilize this site once again for their traditional pursuits and values."

Jeff Mackay, director of program management with the federal northern contaminated sites program, said there has been close collaboration between the federal, territorial and First Nation governments on the deal for the past couple of years.

The Yukon government will continue to act as the regulating body for environmental approvals and will be responsible for care and maintenance as Alexco/JDS continue to work towards meeting the sale conditions to then take over the site.

The current contract for the care of the site ends March 31, 2020, though there is a possibility of extending it if need be.

"The Government of Yukon is committed to the successful remediation of the abandoned Mount Nansen mine site," Energy, Mines and Resources Minister Ran Pillai said in a press release. "We will work with the Government of Canada, the Little Salmon/Carmacks First Nation, and Alexco/JDS Group on achieving a timely and responsible clean-up and on delivering economic opportunities to the Little Salmon/Carmacks First Nation and our local business community. As the regulator, we will ensure remediation activities recognize local needs, local interests and lead to local solutions."

FIVE THINGS WE'VE LEARNED FROM NATURE CRISIS STUDY

(Source: CBC News) The most comprehensive and detailed review of the state of nature has been published in Paris. Our environment correspondent Matt McGrath extracts the key messages.

1 - "Boy, we are in trouble"

This phrase was uttered by Prof Sir Bob Watson who has chaired this report from the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES).

While Sir Bob went on to explain that there is still hope and much we can do to save nature, I think it's worth dwelling for a moment on just how much trouble we are in.

Globally, two billion people rely on wood to meet their primary energy needs. Around 70% of cancer drugs are natural, or are synthetic products inspired by nature.

Then there's all that water that nature cleans, all the food it provides, all the CO2 it absorbs, all the storms that it blocks.

I could go on, but the picture is very plain.

Humans are more dependent on nature now than at any time in our history.

Over the past 50 years, as the world's population has doubled, we have pulled more people out of poverty than ever before.

Image copyright Getty Images Image caption Humans have chopped and burned their environment in the name of economic development

And how have we done it?

By burning, poisoning and trashing large sections of the most biodiversity-rich lands and oceans.

This has killed off thousands of species and now threatens a million more.

"Nature is changing in part because there's more of us and we are consuming more," said one of the IPBES co-ordinating lead authors, Dr Kate Brauman.

"As people become more affluent they have bigger footprints, they eat more they drive more and they fly more."

2 - "We need to change the stories in our heads..."

One key message from the assessment is that we need to re-evaluate what we mean by the idea of a "good life".

For centuries, in western culture, this has all been about accumulating wealth, working hard, making sacrifices for the benefits of our children.

Progress, as defined in many families, has meant children earning more than their parents. More money, more things.

"We need to change the way we think about what a good life is, we need to change the social narrative that puts an emphasis on a good life depending on a high consumption and quick disposal," said Prof Sandra Diaz, one of the co-chairs of the IPBES report.

Image copyright Getty Images Image caption In the Americas, the iconic Baltimore oriole is threatened by deforestation

"We need to shift it to an idea of a fulfilling life that is more aligned with a good relationship with nature, and a good relationship with other people, with the public good.

"We need to change the stories in our heads, because they are the ones that are now enacted in decisions all the way from the individual up to government."

She added: "Changing that is not easy but this is what it would take to reach the better future for the children that are born this year."

3 - The value of nature or the nature of value?

One of the major themes of this assessment is the term "nature's contribution to people".

This is a central concept that the authors really want to drive home.

While it looks like a bland bit of bureaucratese, it actually carries a lot of weight.

For a long time economists have tried to encourage the idea that the value of nature was best expressed in monetary terms.

They have argued that this makes it easier to explain to politicians and citizens that wetlands or pollinators matter because they have value and contribute to the economy in a real financial sense.

The phrase they have used to capture this sense of the value of nature is "ecosystems services".

But some ecologists argue that a financial definition is very damaging for nature, allowing it to be commodified and treated as just another good.

Image copyright Getty Images Image caption The human population is increasing and we are consuming more all the time

This new assessment wants the world to move on from measuring nature's value in pounds, dollars or yen. It wants to ensure that the full value of natural resources are taken into account.

"If you have a natural forest it doesn't appear at all in your account books at national level, your wealth is not affected at all," said Ina Porras, from the International Institute for Environment and Development.

"The moment you allow the extraction of timber then your GDP will increase - it's only by allowing the destruction of this resource that the economy seems to be growing."

"What we need to do is change that because that forest is providing many other services that are simply not accounted, if you destroy it, looks as if you are increasing your wealth but you are not."

4 - Local is good for global...

One of the key differences in this report is that the authors have worked hard to include a broader range of knowledge than in many typically "western" scientific studies.

They have sought out indigenous and local knowledge and given it due weight in the report.

One key finding is that while nature is declining in lands managed by local communities, it is declining less rapidly than in other areas.

The authors say that local knowledge and understanding on how to manage nature should be given more weight by governments. We can all learn from them.

The Yucatan peninsula of Mexico, has seen evidence of this power of local knowledge in action.

Media caption "Species are going extinct at a faster rate than we've seen for millions of years" - Laura Foster reports

After the NAFTA (North American Free Trade Agreement) treaty was signed in 1994, there were expectations that hybrid varieties of maize from the US would swamp local, native breeds.

"The farmers there tell me that the locally adapted traditional varieties of maize do better under climate change with increasing droughts," says Dr Rinku Roy Chowdhury, from Clark University in Worcester, Massachusetts, who has worked in the region.

"But they are not sure, so they are hedging their bets and investing in several different varieties.

"It is a really interesting process of decision-making under uncertainty which is we are all trying to do as scientists focused on global change. It is humbling and illuminating to see that we have different types of scientists in these local farmers, thinking and dealing with climate change."

5 - 12 months to save the Earth? Not quite...

One key takeaway from this report is that political efforts to enshrine protection of nature have fallen desperately flat.

Back in 2010, at a meeting of the Convention on Biological Diversity in Aichi, Japan, delegates set themselves a series of targets for conservation for 2020.

According to the new assessment, good progress has only been made on four of the 20 goals.

The negative trends in species loss will also make the Sustainable Development Goals - the UN blueprint for addressing global challenges such as poverty, environmental degradation and peace - harder to achieve.

This will have real consequences for real people as they experience hunger, health issues, water scarcity and poverty in general.

So is there any political progress on the horizon?

Well, just as the Intergovernmental Panel on Climate Change (IPCC) informed the Paris agreement on global warming in 2015, this IPBES report will inform the talks on a "new deal for nature and people".

This is due to be negotiated at a key meeting in China next year. If a new global deal on nature is to be struck, then it will probably need the participation of heads of state. Right now, despite the evidence from the IPBES report, that seems a very big ask.

Upcoming Events

 <p>CE3C Canadian Environmental & Engineering Executives Conference</p>	<p>OCTOBER 2-4, 2019 Terminal City Club Vancouver, B.C.</p>
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Industry Positions Openings

For more information visit ESAA's Job Board under the news section of www.esaa.org

Junior Biologist/Ecologist

Term: Full-Time

Number of Positions: 1

Application Deadline: May 15, 2019

Job Start Date: ASAP

Job Location: Calgary



NORTH SHORE
Environmental Consultants

North Shore Environmental Consultants Inc. (North Shore) is an employee-owned, progressive environmental company that specializes in providing environmental management and consulting services to the energy industry throughout western Canada. Since our inception in 2002, North Shore has offered cost-efficient and effective solutions to the complex environmental challenges faced by today's industries. We offer our employees exceptional career development opportunities and an excellent team-oriented working environment.

North Shore is currently seeking a **Junior Biologist/Ecologist** for our **Biophysical Team**, based out of our **Calgary, Alberta** office. North Shore's Biophysical division provides an overall environmental planning and management approach for client development and operational programs and supports key projects by offering integrated services on Environmental Impact Assessments, Biophysical Impact Assessments, regulatory approvals and construction programs. Although this position is based out of Calgary, some travel throughout Alberta is anticipated.

Key Responsibilities:

- Under the supervision of Senior staff, conduct desktop and field assessments.
- Assessments would mainly include identification of potential environmental concerns in relation to proposed developments (i.e., wetlands, watercourses, wildlife, vegetation, soils).
- Prepare technical reports and regulatory applications.

- Stay current on the applicable provincial and federal legislation and general trends in the technical field.
- Promote our company's vision, mission and principles.

Qualifications:

- 1 – 2 years of consulting experience related to biology, ecology, or environmental science.
- Sc. degree in biology, hydrology, environmental science or a related field.
- Eligibility to obtain professional designation with an organization such as the Alberta Society of Professional Biologists or Alberta Institute of Agrologists
- Working knowledge of wetland classification systems and ecological land systems.
- Ability to identify many different types of vegetation species in upland and wetland areas.
- Familiarity with the Alberta Water Act, Alberta Wetland Policy, and Public Lands Act.
- Willingness to work in the field for extended periods.
- Experience with satellite and air photo interpretation.
- Experience with spatial data software programs such as ArcView (GIS).
- Detail oriented with strong time management and leadership skills.
- Highly organized and have the ability to prioritize multiple tasks.

Preference will be given to candidates with experience with wetland delineation and Wetland Assessment Impact reporting under the Alberta Wetland Policy. Experience with the Environmental Approvals System (EAS) OneStop system will also be considered an asset. Compensation will be based upon candidate experience.

North Shore Environmental Consultants Inc. supports a shared commitment to a Representative Workforce that is respectful and reflective of all staff and clients. North Shore strives to build diversity among our staff to increase our ability to provide high-quality service to our diverse client base.

How to Apply: Please submit your resume via email to careers@northshoreenv.com. We thank all applicants for their interest; however, only those considered for an interview will be contacted. For more information about North Shore, please visit our website at www.northshoreenv.com. *This position will remain open until a suitable candidate is found.*

Business Development Representative

Term: Full-Time

Number of Positions: 1

Application Deadline: June 1, 2019

Job Location: Calgary, AB

We are currently recruiting for a full time **Business Development Representative** to join in our head office in Calgary, AB. This position requires strong interpersonal and communication skills, a focus on organization, and enhanced multitasking abilities. The ideal candidate has experience in researching market trends, targeting market sectors and clientele and assisting in development of corporate business strategies. Applications should be made to info@triuminc.com. Please send a detailed resume and cover letter.



Responsibilities include:

- Promote the company's technologies/services addressing or predicting clients' objectives;
- Maintain relationships with current clients and identify new opportunities;
- Research prospective clients in targeted markets, pursue leads and follow through to project opportunities;
- Understand the target markets, including industry/company/project/company contacts and which market strategies can be used to attract clients;
- Collaborate with technical teams to prepare proposals and/or tendering documents and ensure the requirements are met;
- Maintain marketing and social media initiatives;
- Follow the latest industry developments and stay up-to-date on corporate competitors; and
- Participate in development of corporate growth strategies and plans.

The preferred candidate will possess the following skills and attributes:

- University Degree or College Diploma (in relevant discipline) is preferred.
- Minimum of three (3) year experience related to technical sales, marketing and/or business development in environmental industries and/or relevant industries.
- Knowledge with standard environmental assessment and/or remediation practices for soil and groundwater.
- Ability to lead business development and project opportunities as well as coordination with technical teams, as directed by the Project Managers and/ or Corporate Executives.
- Strong interpersonal, communication and sound business judgment skills.
- Understanding of routine business financial structures and concepts (i.e. cashflow, etc).

Thank you for your interest and we look forward to discussing this exciting opportunity with you.

How To Apply: Email - info@triuminc.com

Field Services Professional/Technician

Term: Full-Time

Number of Positions: 2

Application Deadline: June 1, 2019

Job Location: Calgary, AB

TRIUM Environmental Inc. (TRIUM) is recruiting for full time and part time **Field Services Professionals and Technicians** to join our field teams in conducting our site remediation services linked primarily to our Ex-Situ and In-situ Chemical Oxidation process. Applications should be made to info@triuminc.com or via fax 403.932.5016. Please send a detailed resume and cover letter.



Responsibilities include:

- Support activities and develop skills that contribute to the implementation of contaminated site remediation projects, mainly consisting of in-situ and ex-situ chemical remediation approaches.
- Conduct soil and groundwater sampling programs related to the remediation programs.
- Prepare and manage field supplies, equipment and third party sub-contractors.
- Conduct fieldwork and operate specialized chemical handling equipment at remediation sites to ensure project continuity, quality and general field duties necessary for completion of remediation projects.
- Implement established project quality management and health and safety systems.

The preferred candidate will possess the following skills and attributes:

- Good understanding or applied experience with pumps and piping/flow process, and familiarity with various hand tools.
- Ambitious and self-motivated. Diligent toward maintaining a clean and safe working environment.
- Experience in the environmental/agricultural industries is preferred, but consideration will be granted to strong candidates with other and/or no industry experience.
- Health and safety is an imperative component of our success, and TRIUM maintains an industry-leading program. The successful candidate must be able to integrate and contribute to the team in the execution of health and safety processes on-site.
- Experience and operators license for Class 3 or higher vehicles would be an asset.

Thank you for your interest and we look forward to discussing this exciting opportunity with you.

How To Apply: info@triuminc.com



Intermediate Vegetation Ecologist

Trace Associates Inc. (Trace) is a 100% employee-owned environmental consulting firm advising all market sectors in Western Canada. We provide services in environmental site assessment, remediation, risk assessment, reclamation, spill response, liability assessment, environmental auditing, GIS, regulatory advisory, biological services, and facility decommissioning.

Our Vision is to be the most respected specialized environmental consulting firm in Western Canada. Our Mission is to be safe and be the best, and our Core Values are safety, excellence, and balance.

THE OPPORTUNITY
Due to continued growth,
we are seeking
Intermediate Vegetation
Ecologists based out of our
Calgary and Edmonton
offices.

YOUR RESPONSIBILITY

- Manage and implement projects related to vegetation inventories, wetlands, environmental assessments, and regulatory approvals.
- Provide technical advisory relating to plant identification, wetland assessments, and ecosite classification.
- Sign off of regulatory documents submitted under the Alberta Wetland Policy.
- Liaise and foster relationships with industry colleagues and regulators.
- Present results to clients and regulators.
- Coach and mentor junior technical staff.

YOUR PROFILE

- Active member of Alberta Society of Professional Biologists and/or Alberta Institute of Agrologists and/or Registered Professional Forester.
- You embrace being a key member of integrated and interdisciplinary teams.
- You love what you do and are a leader in your field.
- You are excited about coaching and mentoring technical staff.
- Excellent project management, written, and verbal communication skills.
- Minimum of 7-10 years of technical experience in biological sciences, wetlands, and ecology.
- Passion for fieldwork (60/40 split).
- Proficient using ESRI ArcGIS for desktop assessments, mapping, and development of field programs.

For further information or to apply, quote position no. CAN-AB-0300-03 and email your resume to info@traceassociates.ca or visit TraceAssociates.ca

We thank all those who apply; however, only those selected for interviews will be contacted.

environmental consulting scientists

Calgary | Edmonton (St. Albert) | Lethbridge | Stettler | Davidson | Saskatoon | Regina