

Weekly NEWS

esaa Environmental Services Association of Alberta

An Information Service for Alberta's Environment Industry

The Week Ending May 15th, 2020

**STAYS SAFE
AND STAY
POSITIVE**

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Comments & submissions are welcome!

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EnviroTech

Virtual EnviroTech 2020
June 11 & 12

ESAA is pleased to announce that the program for the virtual version of EnviroTech is now available online at: www.esaa.org/envirotech/agenda/. The program features 27 talks, spread over seven (7) webinars over the two (2) days.

ESAA has intentionally kept the registration fees low and are asking everyone to register, spread the word about the event and presentation. Approximately 90% of ESAA's revenues come from events, and now more than ever your Association needs your support!



Registration rates: (includes all seven webinars)

- Member: \$49
- Non-Member: \$79
- Registration Link: [Click Here](#)

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Sponsorship is only \$295 per webinar and includes recognition on the ESAA Webinar page, the registration page and during the webinar.

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Thank you again for your continued support during the time.

ESAA WEEKLY WEBINAR SERIES

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This week ESAA will offering three webinars. Additional webinars are being added each week. If you are looking for the archives of previous presentations, they can be found online at: www.esaa.org/webinars

Upcoming Webinar Schedule (updated May 14th, 2020)

Title	Date	Registration Link	Sponsored by:
An Update on Orphan Wells and the Alberta Site Rehabilitation Program Brad Gilmour, Keely Cameron, Stephanie Ridge, Bennett Jones LLP	Friday, May 15th 11 am – 12 pm	Register Now	
Recent Trends in In-Situ Hydrocarbon Remediation Andrew Punsoni, Regenesis Northwest District Manager Todd Herrington, Global PetroFix Product Manager	Tuesday, May 19th 11 am – 12 pm	Register Now	
What's in a Guideline: A Look Back at the History of Risk-Based Guidelines in Canada Janice Paslawski, SNC-Lavalin	Wednesday, May 20th 11 am – 12 pm	Register Now	
NEW – Shoreline Remediation of Petroleum Hydrocarbons Using an Oleophilic Bio Barrier for Sheen Control Jeff Gentry, Jacobs Engineering	Thursday May 21st 11 am – 12 pm	Register Now	

<p>NEW – Managing Environmental Risks & Liabilities: The Legal Perspective Jacquelyn Stevens, Anand Srivastava, Willms & Shier Environmental Lawyers LLP</p>	<p>Tuesday, May 26th 11 am – 12 pm</p>	<p>Register Now</p>	<p>Available</p>
<p>Hydrogen Sulphide: Limits, Detection and Treatment Bill Berzins, West Earth Sciences</p>	<p>Wednesday, May 27th 11 am – 12 pm</p>	<p>Register Now</p>	<p>Available</p>
<p>NEW – Cyber Security: Mitigating Risks and Protecting Data Ryan Duquette, RSM Canada</p>	<p>Thursday May 28th 11 am – 12 pm</p>	<p>Register Now</p>	<p>Available</p>
<p>Disruptive Energy Transition Kae Shummoogum, Gasonic</p>	<p>Wednesday, June 3rd 11 am – 12 pm</p>	<p>Register Now</p>	
<p>Effective In-Situ LNAPL and DNAPL Site Remediation Using Innovative Surfactant Enhanced Remediation Techniques George (Bud) Ivey, Ivey International</p>	<p>Wednesday, June 10th 11 am – 12 pm</p>	<p>Register Now</p>	
<p>How To Manage Remote Work Effectively and Reduce Cost During Critical Times Vincent Lam and Sean Huang, Matidor</p>	<p>Wednesday, June 17th 11 am – 12 pm</p>	<p>Register Now</p>	

AER: REQUIREMENTS AIMED AT REDUCING METHANE EMISSIONS AMENDED

Today we released new editions of [Directive 017: Measurement Requirements for Oil and Gas Operations](#) and [Directive 060: Upstream Petroleum Industry Flaring, Incinerating, and Venting](#), which are effective immediately. The following changes related to managing methane emissions were made:

Directive 017

Section 12.2.2.1: Lengthened the duration required to test gas production at heavy oil and crude bitumen batteries (not including thermal in situ facilities) from 24 hours to 72 hours starting in 2023.

Directive 060

- Section 2.9.1: Included reduced carbon levies in economic evaluations of gas conservation projects.
- Section 5.5: Revised measurement and reporting requirements to ensure consistency with the definitions in appendix 2 of the directive for fuel, flare, and vent gas.
- Section 8: Amended vent gas limits for crude bitumen batteries, pneumatic devices, compressor seals, and glycol dehydrators beginning in 2022. Also amended the exemptions for the overall vent gas limit and defined vent gas limit.

The *Directive 060* webpage on the AER website, www.aer.ca, contains a summary of the requirements for managing vent gas and fugitive emissions. It also shows the changes to the vent gas limits.

Directives 017 and 060 are available on our website. Printed copies of the directives 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.

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ALBERTA APPROVES EXPANDED ELECTRONICS RECYCLING PILOT

Government is kick-starting an expanded electronics recycling project that will support job creation, grow the economy and help municipalities divert more reusable material from landfills.

Through a two-year \$43 million pilot project, the Alberta government has approved the Alberta Recycling Management Authority (ARMA) to use reserve funds to recycle up to 24,600 tonnes of electronics products that were not accepted previously in the program.

“An expanded electronics program has the potential to inject \$30 million annually into Alberta’s economy and support 360 additional full-time jobs in the recycling sector. These new jobs will come from increased demand for electronics collection and transportation, as well as jobs associated with processing and manufacturing the recycled material into new goods. ARMA has a strong record already, and recently hit a major milestone of 10 million electronic products recycled in Alberta. This expansion will help us recycle even more.” - *Jason Nixon, Minister of Environment and Parks*

Municipalities will receive funding for collecting the additional electronics included in the recycling expansion. Currently, municipalities do not receive compensation to manage electronics that are outside ARMA’s existing program.

“The Alberta Urban Municipalities Association is encouraged to see the Government of Alberta moving forward with an expanded electronics recycling pilot project. This project will be a welcome opportunity for our urban municipalities. It allows our members to be part of the continuum of returning end-of-life products to the manufacturing process.” - *Cathy Heron, board member, Alberta Urban Municipalities Association*

“Municipalities play an important role in enabling and supporting recycling programs across Alberta. The electronics recycling pilot project will enable Albertans to continue to be good environmental stewards and is responsive to ongoing requests to effectively recycle more products. Municipalities look forward to playing a continued role in this pilot project and the long-term objective to permanently expand our electronics recycle program.” - *Al Kemmere, president, Rural Municipalities of Alberta*

The expanded electronics recycling products include: audio visual equipment, telecom, cell phone and wireless devices, electronic gaming equipment, small home appliances, portable power tools, toys, musical instruments and solar panels. There will be no cost to consumers to recycle the additional products during the pilot.

“We are excited for the many opportunities and benefits an expanded electronics recycling program could bring to Alberta’s burgeoning circular economy while continuing to contribute to the global effort to reuse and reduce waste. We’re confident we can do this because Albertans are our biggest champions and demonstrate on a daily basis a strong culture for recycling.” - *Ed Gugenheimer, chief executive officer, Alberta Recycling Management Authority*

An expanded program would also divert up to an additional 12,300 tonnes –the equivalent weight of 8,785 average cars – from landfills annually.

“Hi Tech Recyclers is eager and ready to ramp our facility operations to process what we expect to be nearly double the present volume of electronics recycling. This comes as welcome relief during uncertain times with COVID-19 and the impacts it has had on our economy and the many lives of Albertans who are now unemployed. Beyond our ability to provide more direct and indirect jobs through an expanded electronics recycling program is the fact that this announcement from the province means we are one step closer to keeping all electronics out of the local and global waste stream.” - *Mark Schell, president, Hi Tech Recyclers*

“At eCycle, we are very pleased to see Alberta take the necessary steps to protect the environment and keep more electronics out of landfills. We have a long history in Alberta and look forward to the future and working with the great Alberta municipalities to create new jobs and continue serving Albertans.” - *Scott Loughran, vice-president of operations, eCycle Solutions Inc.*

Recycling and waste management are essential services in Alberta during the pandemic. Municipal and collection sites remain open and Albertans are encouraged to practise physical distancing when bringing their recycling to collection sites.

Many collection sites have implemented COVID-19 mitigation measures and continue to manage electronics recyclables. In fact, the project could help offset other waste products currently destined for landfills as a result of the pandemic’s impact on reduced sorting capacity at some municipal sorting facilities.

The pilot will inform the possibility of a permanently expanded electronics program. ARMA will conduct community and stakeholder engagement prior to launching the two-year pilot.

Quick facts

- The current electronics program accepts display devices, desktop computers, portable computers, computer peripherals, desktop printers/multi-function devices, desktop and portable scanners, fax machines, floor-standing photocopiers/multi-function devices.
- ARMA operates provincial recycling programs for oil, tires, paint and electronics.
- In 2018, the Alberta recycling sector’s annual economic value was estimated at \$700 million in gross value add (GVA) and created more than 7,500 direct, indirect and induced jobs, from which \$180 million and 1,570 jobs are attributed to ARMA specific programs.
- Of the \$180 million in GVA the industry injects into Alberta’s economy, about \$50 million and 400 full-time equivalent jobs are attributed to ARMA’s current electronics recycling program.
- There are currently 365 municipal electronics collection sites throughout the province.
- 96 per cent of Albertans live no further than a 20-minute drive to an electronics collection site.
- Alberta set up Canada’s first end-of-life electronics recycling program in 2004.

SCRUBBED BIRDS READY TO TAKE FLIGHT AFTER TOUCHING DOWN ON ALBERTA OILSANDS TAILINGS POND
(Source: CBC News) A small flock of shorebirds contaminated with oil after touching down on a northern Alberta tailings pond is expected to be released back into the wild within a week.

The birds, most of which are eared grebes, are being scrubbed clean at the Edmonton-based WildNorth rehabilitation centre.

About 50 birds from the same flock died when they landed in tailings ponds at Imperial Oil's Kearl Lake mine, about 70 kilometres north of Fort McMurray.

Thirteen birds were transferred to the wildlife rehabilitation facility on Monday. At least two more birds are expected to arrive from the oilsands later this week.

Despite their ordeal, the birds in care are surprisingly scrappy, said Kim Blomme, WildNorth's director of wildlife services.

"We're lucky that the migratory birds that are coming through right now are generally birds that are in very good condition, good health, good body weight," Blomme said in an interview with CBC Radio's [Edmonton AM](#).

"That works in our favour when they get impacted like this because they still have a lot of energy.

"They're still trying to fight us a little bit so that's really good."

Shorebirds, most of which are eared grebes, are being scrubbed clean at the Edmonton-based WildNorth rehabilitation centre after landing on a northern Alberta tailings pond 1:44

Over several days since April 26, more than 100 birds per day have landed on the Kearl site tailings ponds, despite deterrents designed to keep them away from the toxic waters.

The birds are landing in an area with radar detection, noise cannons, eye-safe lasers, scarecrows and long-range acoustic devices, Imperial Oil spokesperson Jon Harding said on Tuesday.

Harding said most natural water bodies in the area are still mostly frozen as a result of the extended winter and abrupt migration.

"The landings were most likely influenced by near-freezing precipitation, which historically has resulted in migrating birds landing on such areas due to exhaustion," he said.

A mass migration on water

The grebe, a small water-bird with distinctive ear-tufts and red eyes, is a summer resident of Alberta's wetlands.

During migration from the south, the birds, also known as black-necked grebes, travel around 6,000 kilometres. Once the bird has arrived in Alberta, it becomes flightless for two months while it completes a moult of its winter feathers.

The birds are instinctively drawn to open water and driven to complete their journey in time for breeding season, Blomme said. Apart from migrating or nesting, it spends its entire life on the water, she said.

"This is one of the challenges. When they're flying, they look for water to land on. They're not the type of bird that's going to land on the ground.

"They need to run for a short distance on the water in order to get enough momentum to get up into the air."

When we let them go, they need to be able to be completely waterproof again.

- Kim Blomme

When the birds were transferred into care, their bellies, necks and feet were covered in oil, Blomme said.

Once the oil is removed, any leftover residue from the soap needs to be carefully rinsed.

"All of these things are contaminants," she said. "We have to make sure that we get absolutely everything off them so that they can restore their waterproofing again by preening and getting those feathers all back in place."

Blomme expects the birds will be ready to be released back into the wild within a few days.

Sooner is better, she said, since the birds do not thrive in captivity.

"The longer we keep them the more likely they can develop problems just by being in captivity," she said.

"They can develop lesions on their feet because they're not in the water. They don't like being handled, it's very stressful.

"Our goal is to try to get them out in as short a period of time as we can. And at this point, we're feeling relatively optimistic that we'll be able to do that."

Deadly landings

The incident recalls previous bird deaths at oilsands tailings ponds.

In January 2019, Syncrude was fined more than \$2.7 million after pleading guilty to environmental charges in the deaths of 31 great blue herons at one of its oilsands mines north of Fort McMurray in 2015.

An agreed statement of facts said that Syncrude admitted that an abandoned sump pond in which the birds were found didn't have deterrents to keep waterfowl from landing on it, even though the pond met criteria for being high risk.

Fencing and bird deterrents were installed and the ponds were brought under Syncrude's plan to keep wildlife away from toxic materials at its mine.

In 2010, Syncrude was fined \$3 million after more than 1,600 ducks died when they landed on a tailings pond in 2008.

Investigation ongoing

Imperial said it regrets the incident and continues to work with researchers and regulators to better protect birds in its tailings areas.

In a statement to CBC News, the Alberta Energy Regulator said the recent landings will be investigated, noting that the recent environmental monitoring exemptions, adopted during the COVID-19 pandemic, does not extend to deterrents.

"Bird migration takes place each spring and the AER cannot speak to the incident's exact cause," reads the email.

"While some low-risk monitoring requirements in the oilsands have been suspended by the AER in light of the COVID-19 pandemic, requirements related to bird deterrents near tailings ponds and incident reporting have not changed.

"Our early indication shows that Imperial has complied with all AER requirements."

ALBERTA SUSPENDS AT LEAST 19 MONITORING REQUIREMENTS IN OILSANDS, CITING CORONAVIRUS CONCERNS

(Source: The Narwhal) The Alberta Energy Regulator has indefinitely suspended at least 19 environmental monitoring requirements for major oilsands producers, including Syncrude, Suncor, Imperial Oil and CNRL.

The decisions come one month after the Canadian Association of Petroleum Producers (CAPP) sent a long letter to the federal government outlining requests that environmental and pollution monitoring requirements be put on hold, requirements it described as "low-risk regulatory obligations."

Now the regulator has issued a series of decisions that include the suspension of some environmental monitoring in the oilsands.

"It's quite shocking and it is quite concerning," Mandy Olsgard, a risk assessment specialist and former senior environmental toxicologist with the Alberta Energy Regulator, told The Narwhal.

For some monitoring, "losing this data for a very short amount of time might not affect the overall datasets," she said. "But some of these clauses are there to understand potential acute risks to health or the environment."

For Olsgard and others, the regulator's decisions read like a "wish list" from CAPP.

In an email, regulator spokesperson Shawn Roth said "[the regulator] is in regular contact with industry, including industry groups such as, CAPP and [the Explorers and Producers Association of Canada], as we work together to navigate through

the current situation.” “Looks like CAPP got its way,” Shaun Fluker, an associate professor of law at the University of Calgary, told The Narwhal.

The regulator has granted suspensions to multiple major oilsands projects for requirements ranging from volatile organic compound monitoring to fugitive emissions leak detection to wetlands and wildlife monitoring to bird monitoring at tailings ponds.

Just days before bird monitoring programs were suspended, Imperial Oil found dozens of dead grebes and shorebirds in their tailings ponds, [according to CBC](#). While the regulator has required that scare cannons and other deterrents remain in place, an Imperial spokesperson said these were not effective in preventing birds from landing at the company’s tailings ponds.

Bird monitoring in the oilsands gained international attention when more than 1,600 ducks were found dead after landing on a Syncrude tailings pond in 2008. More recently, Syncrude was fined more than \$2.7 million last year after 31 great blue herons died in their tailings ponds in 2015. Those herons were initially discovered by a contractor working on a bird monitoring program for Syncrude.

As Olsgard notes, these current suspensions come during an important bird migration season.

The suspension of these requirements is effective immediately, which leaves some experts questioning how sites will be monitored.

“You don’t know what’s going on in groundwater or surface water or fugitive emissions,” Barry Robinson, a Calgary-based lawyer with Ecojustice, told The Narwhal.

“It really is stepping out into no man’s land by suspending the actual monitoring,” he added. “You just won’t know what’s happening.”

Olsgard is concerned that while temporarily stopping some monitoring may not pose a huge issue in the long run, other data is critically important to assessing risk to public health and the environment.

But companies like Syncrude and Suncor emphasized to The Narwhal that these suspensions were necessary for the protection of public health during the ongoing coronavirus pandemic.

“We understand and know the public expects us to responsibly develop the oilsands, which includes monitoring for potential impacts, but we also want people to recognize that we’re relying on the guidance of Alberta Health Services,” Will Gibson, spokesperson for Syncrude, said.

The Narwhal previously reported the Alberta government had suspended the requirement to *report* on some environmental monitoring as a result of COVID-19.

The latest decisions by the regulator put some monitoring itself on hold as well.

Roth said by email that companies must continue to collect the “majority of monitoring information” and make it available upon request.

But with the latest suspensions, experts are concerned some information will never be collected.

“There’s nothing to report if you don’t monitor,” Fluker said.

‘Unilateral’ decisions

Each decision is labelled as a “unilateral amendment to approval conditions regarding monitoring in response to COVID-19” and was posted on the regulator’s website. “We anticipate that the amendments will be in place as long as the public orders issued under the Public Health Act remain in effect,” Roth said in an email.

For some operations, such as Imperial Oil’s Kearl mine and Cold Lake in-situ project, the list of types of environmental monitoring programs suspended contains 19 items. (Imperial’s Kearl work camp is itself the site of a COVID-19 outbreak.)

According to the decisions issued by the regulator, the companies have “raised legitimate concerns about their ability to meet monitoring requirements” during the ongoing COVID-19 pandemic.

“We made a request to the Alberta Energy Regulator, along with other oilsands operators to suspend certain monitoring activities,” Gibson, the spokesperson for Syncrude, told The Narwhal.

“We made this request because the safety and wellbeing of our employees is a top priority,” he said. “We’re following, and expecting our employees to follow, recommended and mandated government measures.” Gibson said the company wants to “make sure physical distancing is maintained” whether on buses, on site or in work camps.

Erin Rees, a representative for Suncor, reiterated Gibson’s explanations. “Since mid-March Suncor has been focused on doing our part to flatten the curve of COVID-19. Reducing interactions between people on our sites and in our offices is critical in ensuring the health and safety of our workforce and we’ve limited people on site and in offices to essential staff only since the middle of March,” she said in an email.

“We made requests to the [regulator] to postpone some monitoring in order to protect workers and the public from COVID-19 and specifically to ensure public health guidance is respected.”

“To be clear — all requests for postponement of monitoring were due to the number of people required to perform the work, impacting our ability to ensure physical distancing.”

Gibson said Syncrude has dramatically reduced its workforce in other areas as well, noting staffing at its Aurora and Mildred Lake operations have been reduced by more than 1,000 workers.

Some “monitoring activities posed a challenge in terms of maintaining physical distancing,” he added. The company has also reduced its operations maintenance staff.

Olsgard, the toxicologist, noted that with decreased staff on site to run oilsands operations, the risk to public health and the environment may actually be increased. “We’re actually in kind of a high-risk operational state,” she said.

David Spink, a retired Government of Alberta employee and former director of air and water approvals, told The Narwhal by email that he questioned the assertion that monitoring work can’t be done safely.

“I find it somewhat hard to accept that we can have construction workers doing work on an expansion to our condo building but the oilsands industry can’t have contractors come in and do some of the monitoring that is required,” he said.

“Having done and seen some of this monitoring it can be done very safely in the context of social distancing and minimal interactions,” he added, noting that companies should be asked to provide much more specific detail about why each monitoring requirement can’t be met, or how the missed data could be mitigated.

Imperial Oil and CNRL did not respond to The Narwhal’s request for comment by publication time.

Concerns about work camps

Currently, Alberta’s public health rules restrict gatherings of more than 15 people, encourage physical distancing of two metres and restrict business activities to those considered to be essential services.

Essential services are still allowed to operate in the province, and the government has issued a long list to clarify what is considered essential.

“Petroleum, natural gas and coal” jobs are considered to be essential services in Alberta, as are “environmental services for agriculture, mining, oil and gas.”

Gibson, the spokesperson for Syncrude, emphasized the company was concerned about bringing in contractors from outside the region to complete environmental monitoring.

“Some of the monitoring activities involve bringing in people from outside the province,” he said, adding that he was “not sure if we have that capability right now” to have monitoring be completed in house.

“We understand and respect the need for monitoring,” he added. “We’re not asking for these activities to be altered or taken away.”

For people in the field like Charlotte Clarke, a consultant who works in the oil and gas industry, there are serious concerns about worker safety during the pandemic.

“Whenever we delay inspections, it always is concerning for me,” she told The Narwhal. “But when it came to the choice between that and my safety, it’s a hard one.”

For Clarke, an engineer who works with in-situ operations in the oilsands, staying in work camps is the real concern, more so than the daily work itself.

“You wouldn’t be able to maintain social distancing,” she says of the mess hall at camp. “It’s pretty much like a school cafeteria.”

“I’m just really glad that I didn’t have to go through that.”

What work is safe during a pandemic?

Minister of Environment and Parks Jason Nixon has previously said that it was his government’s goal to “keep people working ... in the oil and gas industry where safe and within the requirements the chief medical officer has set out.”

“We believe we can do that on lots of projects,” he added. He was referring to the cleanup of inactive and orphan oil and gas wells.

That leaves Robinson wondering why environmental monitoring in the oilsands can’t be done safely as well.

“If the operation is running, the monitoring should be running,” Robinson said.

Olsgard agrees. “They could have developed COVID-specific protocols to address worker safety,” she said.

Fluker points to other activities deemed essential and the hazards facing workers. “The province is OK with letting Cargill operate,” he said, pointing to the largest single outbreak of COVID-19 in Canada, in a meat-packing facility in High River, Alta.

Meanwhile, bird monitoring is suspended in tailings ponds at Alberta’s oilsands.

“There’s a real divergence there and it’s hard to reconcile.”

‘No end date, no public notice, no discussion at all’

Olsgard is concerned with how broad the regulator’s recent decisions appear to be. More detailed requirements, she said, “might be there in the background, but I don’t see it from this decision.”

Fluker points to the lack of public consultation and notice as concerning aspects of the regulator’s most recent decisions.

“If we’re going to relax or waive [requirements], at a bare minimum we have to at least give public notice,” he said. “In this case, the regulator has decided to even do away with that.”

These decisions, he said, amount to “unilateral amendments to a list of monitoring requirements which are easily associated with some pretty significant public interest concerns.”

“And they’re suspended for the foreseeable future with no end date, no public notice, no discussion at all.”

Without public consultation, he said, there’s no chance for input as to “whether or not the essential/non-essential line is being drawn in the right place.”

For Spink, the regulator's decisions reflect its priorities. "To my mind it is another blank check to industry and reflects a real lack of priority on/for the environment," he said in an email.

'You really don't know'

In April, The Narwhal reported on a series of ministerial orders stemming from Alberta Energy and Alberta Environment and Parks that effectively suspended much of companies' routine environmental reporting.

For Olsgard, the suspension of monitoring is far more concerning than what previous ministerial orders had laid out with regards to reporting. "As long as they were still collecting the monitoring data, they had a repository that could be requested by the regulator or stakeholders," she said.

"Then we had those assurances that we would understand what had happened in the environment during this time. But now that we've relaxed monitoring, you really don't know."

Fluker agrees. "This is clearly, I think, much more problematic from an environmental regulation perspective," he told The Narwhal.

"Monitoring is often how problems are obviously initially detected."

"Some of this certainly looks like it's more of a cost-saving measure than it is a health measure," he added.

BC TO ACCELERATE ORPHAN WELL RECLAMATION

(Source: BIV.com) The BC government will plow \$120 million in federal funding into a program to accelerate the reclamation of thousands of dormant and orphan oil and gas wells in B.C.

B.C. already has a dormant and orphan well reclamation plan. But the federal government announced in April that it will fund well reclamation in B.C. to the tune of \$120 million.

The money is already in hand, said Bruce Ralston, minister of Energy, Mines and Petroleum Resources.

"The program, over two years, will be able to clean up 2,000 wells, which is a pretty big number," Ralston said.

The accelerated program will create 1,200 jobs over the next two years, the B.C. government said Wednesday. Only B.C. contractors will be eligible for funding.

There are more than 7,000 dormant wells in B.C., 357 of which are orphan wells -- i.e. wells that have been abandoned by companies that went bankrupt, leaving taxpayers on the hook for their remediation.

"This is an environmental stain on British Columbia," Premier John Horgan said in a press conference Wednesday. "It's been reported on by the auditor general, repeatedly calling on British Columbia and the industry to clean up its act.

"The funding that's announced today will help us decommission, reclaim or restore more than 2,000 orphaned or inactive wells."

Companies that own existing dormant wells but had not planned to reclaim them anytime soon may be prompted to accelerate their reclamation, since the new federal funding will cover half the cost. Without the federal funding, they would have been responsible for the full cost of reclamation themselves.

In addition to well reclamation, there is \$5 million in federal funding for other related habitat restoration. Ralston explained that over a period of decades, oil and gas exploration companies cut hundreds of seismic lines -- corridors in which trees were cleared.

These corridors can act like highways for wolves preying on caribou. Part of the work that will take place is closing those corridors through tree planting.

"The idea is to revegetate those so that they disappear," Ralston said. "So that will also enhance caribou populations as well."

Horgan said communities in northeastern B.C. will have input on which wells or regions should get first priority.

A little over a year ago, the BC Oil and Gas Commission introduced a new levy on the oil and gas industry to raise \$15 million a year for dormant well reclamation. The plan was to reclaim all orphan wells in B.C. over the next 10 years.

That will be accelerated with the federal funding. The bulk of the \$120 million in federal funding will be used to accelerate the reclamation process, with \$100 million earmarked for dormant wells owned by companies that are still solvent.

Another \$15 million will go to orphan wells. Those are wells that were owned by companies that are insolvent.

When an oil or gas well runs dry, it typically is decommissioned. This involves filling the well bore with cement, cutting off the steel well bore a few feet below ground, and then covering it up.

Full reclamation is more extensive. It requires removing all infrastructure that may have been left behind, including piping and wellheads. Soil sampling must be done, and any contaminated soils must be removed and replaced with clean soil.

Finally, the area is replanted with trees. In some cases, access roads must also be decommissioned and restored to a natural state.

AER: RELIEF FOR INDUSTRY DURING COVID-19 PANDEMIC RESPONSE

Physical distancing and other safety protocols that have been put in place to support the COVID-19 response may impact the availability of industry staff and limit capacity to comply with reporting requirements. Alberta Environment and Parks and Alberta Energy have temporarily suspended a number of reporting requirements that affect Alberta's energy industry. This direction does not affect monitoring requirements, which must continue to be met.

On April 9, 2020, we issued *Bulletin 2020-10: Relief for Industry During COVID-19 Pandemic Response*, which explained how two ministerial orders apply to parties regulated by the Alberta Energy Regulator (AER). Section 6 of [Alberta Energy ministerial order 219/2020](#) modifies the operation of the acts, to the extent it's necessary, to enable reasonable compliance with the COVID-19 orders issued under the *Public Health Act*, including guidelines issued by the Chief Medical Officer of Health.

Industry must continue to report as directed in compliance and enforcement orders. They must also continue to report emergencies, including incidents, notifications, contraventions, and releases that have or may have the potential to impact the environment or public safety to the Energy and Environmental Emergency 24-Hour Response Line at 1-800-222-6514 or 780-422-4505. In addition, volumetric reporting, and reporting related to very high and extreme consequence dams is still required.

During the period of temporary suspensions, parties must continue to record and retain complete documentation and make it available upon request.

We cannot list all requirements contained within approvals issued under each piece of legislation. If you have questions not answered here, please contact Industry.Relief@aer.ca. These suspensions and modifications will apply for so long as ministerial orders [17/2020](#) and [219/2020](#) are in effect.

WHAT'S NEW INDUSTRY RELIEF UPDATE – MAY 1, 2020 @ 9:30 AM

In our ongoing effort to provide relief and further clarity to industry, the AER considers the following requirements suspended:

- Requirements to conduct spring 2020 groundwater or soil monitoring events and analysis for all oilfield waste management facilities (including landfills), as per oilfield waste management facility approvals and section 2 of

appendix 4.4 of *Directive 058: Oilfield Waste Management Requirements for the Upstream Oil and Gas Industry* and section 8.150(3) of the *Oil and Gas Conservation Rules*.

- The requirement for laboratory analysis of leachate collection system sampling and leak detection system sampling for oilfield waste management facilities according to approval conditions and section 5.9 of the Standards for Landfill in Alberta as enacted under *Directive 058: Oilfield Waste Management Requirements for the Upstream Petroleum Industry*.
- The requirement for annual testing as specified in section 2.3.1 of *Interim Directive 2003-01* after a non-serious surface casing vent flow has been reported is deferred for the 2020 calendar year unless specified otherwise by the AER. Licensees are required to comply with all other requirements in sections 2 and 3 of the interim directive. Licensees are expected to practise due diligence to establish processes that help confirm public safety, environmental protection, and responsible energy development.
- Requirements to hold emergency response exercises and submit updates to emergency response plans, as per *Directive 071: Emergency Preparedness and Response Requirements for the Petroleum Industry* and section 8.006 of the *Oil and Gas Conservation Rules*. Companies must continue to comply with other *Directive 071* requirements to ensure required information is available in the event of an emergency.

AMENDMENT TO APPROVAL CONDITIONS - APRIL 29, 2020

The AER is working directly with approval holders to understand their unique challenges and to support compliance with the public health orders. We will post decisions on approval-specific modifications to monitoring requirements to our [website](#), as they are determined.

MINES AND MINERALS ACT (PART 8) UPDATE - APRIL 16, 2020 @ 6:45 AM

Limited industry capacity may affect their ability to complete exploration programs by the expiry date set forth in an exploration approval. Industry can request term extensions for approved geophysical exploration programs by following requirements under exploration directive [ED2006-08: Extension to an Exploration Approval](#). To request an extension, a written request must be sent to the AER at exploration@aer.ca. Program extensions will be granted on a case by case basis.

LEVY UPDATES- APRIL 14, 2020 @ 9:30 AM

2020/2021 Orphan Fund Levy

Licensees remain responsible to pay any remaining balances for the [2019/2020 orphan levy](#). The timing for collection of the 2020/2021 orphan fund levy is under review. An update is expected in June.

The Government of Alberta's [loan to the Orphan Well Association](#) is not being applied to the orphan fund levy.

2020 Industry Levy

In March 2020, the Government of Alberta [announced](#) that it will provide \$113 million in relief to industry by covering six months of the 2020 AER industry levy.

The AER is working with the Government of Alberta to determine implications to the industry levy for the remainder of the fiscal year and will provide updates when more details are available. Paid by industry, the industry levy funds AER operations and is separate from the orphan fund levy.

ILLEGAL DUMPING HAS FARMER PUSHING FOR CHANGE

(Source: Cochrane Now) Farmers are fed up with illegal dumping around and on their land and one farmer is taking a stand. Janna Lantz-Kolbuc is a fifth-generation farmer is located 10 Kilometres east of Calgary, her family has farmed on that piece of land since 1905 and over the past 20 years, illegal dumping has been increasing.

"For the past two decades if not longer with have seen an exponential amount of illegal dumping, anything from contractor waste to household waste, furniture, pretty much everything you would see in a landfill and a little bit more."

Lantz- Kolbuc sees a number of contributing factors as to why this is happening, one of the main factors is there are no real repercussions for anyone who is illegally dumping outside of Calgary. Lantz-Kolbuc has noted an alarming amount of contractor waste and is asking people to hold their contractors accountable, especially if people are hiring help off of Kijiji

or social media, one way she suggests is by withholding payment until the contractor has provided a dump slip proving that they have disposed of the material safely and properly.

Lantz-Kolbuc, unfortunately, says that they are not alone in having to deal with this issue, "Since posting everything I have gotten messages from people all over the province and even the country and a lot of surrounding areas around Calgary so it's every one it's not just us."

Moving forward Lantz-Kolbuc is working on helping to resolve this issue, she says creating awareness is her first step, not just one to complain about something she is hoping that by raising the awareness and presenting ideas for possible solutions and sharing with people to provide the education on what to do when they find illegal dumping will get the conversation started and from there see change.

Living in Rocky View County if there is illegal dumping there are a couple of ways to deal with it, "If it's in the ditch you can report it to the county they have a form on their website, you can phone them as well and send them an email and the county will help you clean it up." However, waste on someone's private land is a different story Lantz-Kolbuc explained, "If it's in your field it's kind of your problem because it is on your property," this leaves the cost of the cleanup in the hands of the property owner.

The mess is not the only issue for farmers and landowners Lantz-Kolbuc has read stories from vets and seen other posts about the loss of animals who have eaten a plastic bag, some have even ingested construction waste or have been hurt by material scattered on their land, this is a becoming a bigger issue that is affecting the land, the livelihood of local farmers and their animals.

Lantz-Kolbuc wants people to be aware that dumping waste for the people who are doing it may be out of sight out of mind for them, but for the people who live in these areas someone has to deal with the mess they have left behind.

She has sent a letter to the City of Calgary and will be sending a letter to Rocky View County in hopes that she can help to make some changes and hold those who need to be accountable for this illegal dumping.

During the current situations surrounding COVID-19, the city landfills are still open as well the East Calgary site is open seven days a week, see rates and hours of operation [here](#).

Wheatland County operates several waste transfer sites and there is no cost to residents, see hours of operation and current restrictions [here](#) due to COVID-19.

OZONE LAYER: CONCERN GROWS OVER THREAT FROM REPLACEMENT CHEMICALS

(Source: BBC News) Substances used for air conditioning in almost all new cars are building up in the environment and may pose a threat to human health, researchers say.

These "ozone friendly" chemicals have been introduced to replace products that were damaging the ozone layer.

Now widely used across industry, these alternatives do not break down in the environment.

Scientists have now found [increasing levels of these chemicals](#) in Arctic ice samples dating back to the 1990s.

The [Montreal Protocol](#) is regarded as one of the most successful environmental treaties ever adopted.

Signed back in 1987, it committed countries to regulate their use of chlorofluorocarbon chemicals (CFCs) that had recently been found to be depleting the ozone layer.

A [growing hole in the ozone over Antarctica](#) had been detected in the mid-1980s and there was serious concern about the threat it posed to human health.

CFCs were then widely used in refrigeration, in air conditioning, as solvents and in aerosol sprays.

In the intervening decades, alternative products that are less harmful to the ozone layer were introduced.

As a result, researchers [have reported progress in reducing the size of the hole](#).

However, there are now concerns that the solution may be inadvertently damaging the environment and threatening human health.

Canadian researchers, studying ice samples from the Arctic dating back to the 1990s, have found "dramatically" increasing levels of ozone replacements called short chain perfluoroalkyl carboxylic acids (scPFCA's).

"We're seeing much, much larger levels, on the order of 10 times higher now than we saw before the Montreal Protocol," said Prof Cora Young, from York University in Toronto, the study's corresponding author.

"We don't know a lot about them and their potential toxicity, but we do know that we are committing the environment to a great deal of contamination."

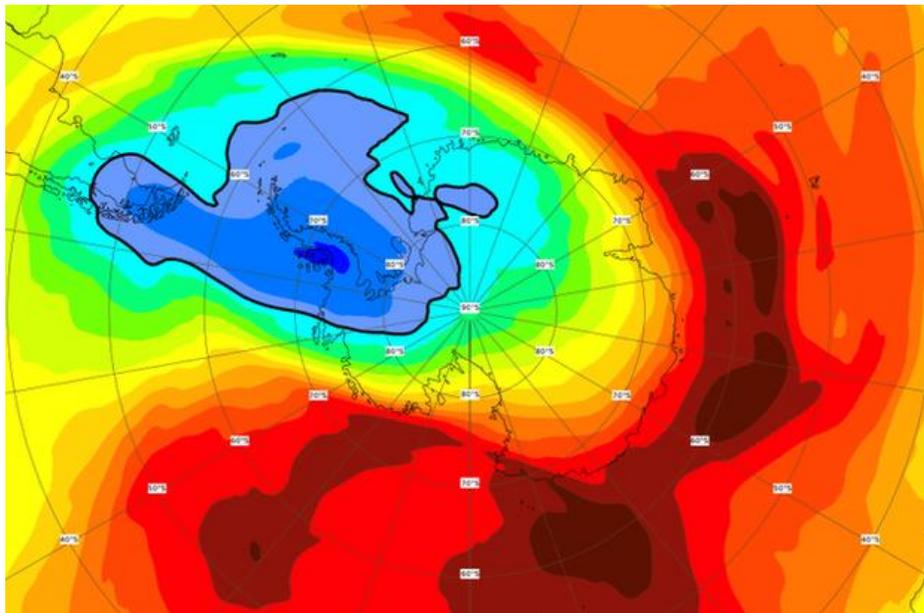


Image copyright CAMS/COPERNICUS/ECMWF A satellite image of the ozone hole from late last year. The thinning (blue) is greatest in the region towards South America

The compounds being detected in the Arctic are in the same class as perfluoroalkyl substances, or PFAS, sometimes called the "forever chemicals".

These [long-lasting chemicals](#) are found in everything, from furniture to clothing to food wrapping to drinking water.

There is [growing concern about the role of PFAS](#) in serious health conditions including cancer, liver damage and decreased fertility.

The related products, found in the Arctic ice samples, do not break down in the environment and current water filtration technology is unable to remove them.

The scientists expect levels of scPFCA's to increase markedly in the future.

Car trouble ahead?

As part of the efforts to replace CFCs, car manufacturers around the world agreed to use a different coolant in air conditioning called HFC-134a which was introduced in 1992.

While HFC-134a was less damaging to the ozone layer, it was unfortunately a very powerful greenhouse gas, around 1,400 times more warming that CO₂.

Image copyright Getty Images

So manufacturers in the US and Europe agreed to phase out HFC-134a and by 2017 all new cars had to use a different coolant for air conditioning called HFO-1234yf.

While this chemical doesn't damage ozone, and is not a greenhouse gas, it does unfortunately break down to produce short chain PFCAs.

"It has a very low global warming potential, but has a much higher propensity to form these persistent products," said Prof Young.

"It will be again another shift, where we see an even more dramatic increase."

According to the researchers, these chemicals can travel a long distance in the atmosphere and often end up in lakes and rivers. They cause "irreversible contamination" and can impact the health of freshwater creatures including crustaceans and worms.

Image copyright University of Alberta Image caption Scientists handling ice core samples

There is growing concern that these compounds may impact human health as well.

"They've been found in the bodies of people in China, so it is likely to be found in the bodies of people around the world," said Prof Young.

"We have done a good job in trying to save the ozone layer but the unintended consequences are the release of these other chemicals, which have some concerns."

"They're toxic, and then they don't get filtered out in various ways."

The [study has been published](#) in the journal Geophysical Research Letters.

REMEDIATION TECHNOLOGY NEWS AND RESOURCES

(The following are selected items from the US EPA's Tech Direct - <http://clu-in.org/techdirect/>)

Upcoming Live Internet Seminars

ITRC Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment - May 19, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). The basis for this training course is the ITRC guidance: Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment (BCS-1). This guidance describes the general concepts of the bioavailability of contaminants in soil, reviews the state of the science, and discusses how to incorporate bioavailability into the human health risk assessment process. The target audience for this guidance and training course are: project managers interested in decreasing uncertainty in the risk assessment which may lead to reduced remedial action costs, and risk assessors new to bioavailability or those who want additional confidence and training in the current methods and common practices for using bioavailability assessment to more accurately determine human health risk at a contaminated site. As a participant in this training you should learn to: apply the decision process to determine when a site-specific bioavailability assessment may be appropriate, use the ITRC Review Checklist to develop or review a risk assessment that includes soil bioavailability, consider factors that affect arsenic, lead and PAH bioavailability, select appropriate methods to evaluate soil bioavailability, and use tools to develop site-specific soil bioavailability estimates and incorporate them into human health risk assessment. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

ITRC Optimizing Injection Strategies and In situ Remediation Performance - May 21, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). ITRC developed the guidance: Optimizing Injection Strategies and In Situ Remediation Performance (OIS-ISRP-1) and this associated training course to identify challenges that may impede or limit remedy effectiveness and discuss the potential optimization strategies, and specific actions that can be pursued, to improve the performance of in situ remediation by: refining and evaluating remedial design site characterization data; selecting the correct amendment; choosing delivery methods for site-specific conditions; creating design specifications; conducting performance evaluations, and optimizing

underperforming in situ remedies. The target audience for this guidance and training course is: environmental consultants, responsible parties, federal and state regulators, as well as community and tribal stakeholders. This training will support users in efficiently and confidently applying the guidance at their remediation sites. An optimization case study is shared to illustrate the use of the associated guidance document. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

Analysis of Defense Related Ecosystem Services - May 21, 2020. Join SERDP and ESTCP for a webinar on innovative modeling tools to analyze ecosystem services on Department of DoD lands and installations. First, Dr. Nate McDowell (Pacific Northwest National Laboratory) will discuss his work to develop a framework for evaluating management alternatives for different ecosystem services and predicting their impacts on climate and the environment. Second, Dr. Mark Borsuk (Duke University) will provide an overview of his research on applying a computational assessment tool called MoTIVES (Model-based Tracking and Integrated Valuation of Ecosystem Services) to document the value that military bases provide to local communities in the form of ecosystem services. For more information and to register, see <https://serdp-estcp.org/Tools-and-Training/Webinar-Series/05-21-2020>.

FRTR Spring 2020 Meeting: Bioremediation Advances - New Strategies, Optimization, and Performance Monitoring - May 29 and June 5, 2020. The Spring 2020 meeting of the Federal Remediation Technologies Roundtable (FRTR) will be held as a two-part webinar on Friday, May 29 and Friday, June 5, 2020. As always, FRTR meetings are open to the public. FRTR's objectives for this meeting are to: review the state of the practice of bioremediation: Broad overview of where it is commonly applied, where it is still experimental, and what are the challenges; discuss advances in bioremediation for organic and inorganic contaminants, including new approaches, optimization, and tools for monitoring technologies to determine successful performance; and review brief case studies to demonstrate how new technologies are being applied and optimized. For more information and to register, see <https://clu-in.org/live>.

New Documents and Web Resources

ITRC Technical Resources for Addressing Environmental Releases of 1,4 Dioxane. This series of fact sheets summarizes the latest science and emerging technologies for 1,4-Dioxane. The fact sheets are tailored to the needs of state regulatory program personnel who are tasked with making informed and timely decisions regarding 1,4-Dioxane sites. The content is also useful to consultants and parties responsible for the release of these contaminants, as well as public and tribal stakeholders. View or download at <https://14dx-1.itrcweb.org>.

ITRC Per- and Polyfluoroalkyl Substances (PFAS) Technical and Regulatory Guidance Document. This document is designed specifically to support state and federal environmental staff, as well as others (including stakeholders, project managers, and decision makers), to gain a working knowledge of the current state of PFAS science and practice. Developed by a team of over 400 environmental practitioners drawn from state and federal government, academia, industry, environmental consulting, and public interest groups, it also provides a summary of the current understanding of all aspects of PFAS from a broad perspective. While every effort was made to keep the information accessible to a wide audience, it is assumed the reader has some basic technical background in chemistry, environmental sciences, and risk assessment. View or download at <https://pfas-1.itrcweb.org>.

Passive Sampling of Groundwater Wells for Determination of Water Chemistry. This report describes the differences between purging and passive sampling methods in groundwater and explains how and why passive samplers work. The report points out the advantages and limitations of passive samplers in general and for each particular type of passive sampler. Important considerations to be taken into account prior to the use of passive samplers are discussed, such as defining the data-quality objectives, the water-quality constituents to be sampled, sample volumes required for analysis, well construction of the sampling network, and the geologic formations that will be sampled. Potential applications of passive samplers also are discussed, such as chemical-vertical profiling of wells. A general field protocol for the deployment, recovery, and sample collection using these devices is described, and some overall guidance for the practitioner with application examples is given (April 2020, 94 pages). View or download at <https://pubs.er.usgs.gov/publication/tm1D8>.

Technology Innovation News Survey Corner. The Technology Innovation News Survey contains market/commercialization information; reports on demonstrations, feasibility studies and research; and other news relevant to the hazardous waste community interested in technology development. Recent issues, complete archives, and subscription information is available at <https://clu-in.org/products/tins/>. The following resources were included in recent issues:

- Legal and Regulatory Status of Abandoned Mine Methane in Selected Countries: Considerations for Decision Makers
- Community Actions that Drive Brownfields Redevelopment
- Brownfields: Properties with New Purpose ? Improving Local Economies in Communities with Brownfield Sites
- Alternative Treatment Technologies to Open Burn and Open Detonation of Energetic Hazardous Wastes
- Record of Decision: CPS Madison Superfund Site Operable Units One and Two, Old Bridge Township, Middlesex County, New Jersey
- The Development of Anaerobic Bioremediation Approaches for Chlorinated Solvent and 1,4-Dioxane Co-contaminated Sites
- Ecological Risk Assessment Approaches at PFAS-Impacted Sites

ESAA MEMBER NEWS

CORONA VIRUS WORKPLACE SURFACE TESTING

If you are reopening your offices and are worried about Corona Virus Contamination , Western Site Technologies can provide surface testing for Corona Virus prior to allowing staff back into the workspace



Call Courtney in Edmonton 780-868-6913 or our main number in Calgary 403-520-0101 for details.

ECO CANADA - 2020 HR PULSE SURVEY FOR EMPLOYERS

ECO Canada has put together a survey for employers to gauge how recent events are impacting businesses and work forces. Employers are invited to take the 2020 HR Pulse Survey for Employers. The goal of the survey is to gather the following insights:

- To what extent individual businesses have been impacted
- How business is adapting to market changes
- Environmental work force needs and challenges

The survey should take approximately 10 minutes to complete and participants are encouraged to repeat the survey as their situation evolves. The survey will remain open through June 30, 2020.

Participants will have the option of receiving the survey results firsthand. Real-time data could help you navigate the uncertainties within the current environment and support decision-making. **Take the Survey**

NEW ESAA MEMBERS

ESAA's Board of Directors and staff would like to welcome the following new members:

Full Members:



Canadian Erosion and Containment

201,6923 Farrell Road SE

Calgary, AB T2H 0T3

Phone: (403) 804-2576

Web: www.cerosion.com/

James Wilkinson, President

e-mail: james.wilkinson@cerosion.com

CEC is your premier land reclamation, environmental containment and erosion company. Canadian Erosion and Containment has an extensive history in the land reclamation, environmental containment and erosion industry. Expertise include site reclamation, hydroseeding, radon mitigation systems, environmental containment, erosion and sediment control, reinforced earth structures and geosynthetic access solutions. With over 50 years of installation and technical

knowledge we have had the pleasure of working alongside successful contractors in multitude of fields. These include oil and gas sites, pipeline right-of-ways, civil projects, large warehouses, property development and private properties. We pride ourselves on working with our clients and maintaining a strong working relationships for years to come. CEC provides a wide range of installation services and technical advice on many types of reclamation & environmental containment control solutions, including: Land Reclamation, Environmental Containment, Hydro Mulching, Drill Seeding , Re-vegetation Solutions , Soil Testing, Water Storage Ponds, MSE Walls, Gabion Walls, Turbidity Curtains - Erosion Control Measures Turf Reinforcement Mats, ESC Plans, TSS Monitoring, Cellular Confinement Systems, radon mitigation systems



Salix Resource Management Ltd.

Box 269

Sundre, AB T0M 1X0

Phone: (403) 638-6048

Web: www.salix.ca

Stacy Lunde, Vice President

e-mail: slunde@salix.ca

Salix resource Management Ltd. (Salix) is an Alberta based, environmental consulting company that provides “cradle to grave” environmental services primarily associated with the assessment and decommissioning of upstream oil and gas sites and facilities. Salix also works with natural resource sectors throughout Alberta, Saskatchewan and British Columbia. We have a passion and commitment to the environment and are dedicated to doing the job right the first time. We are focused on being a recognized source of qualified and experienced professionals who provide quality and cost-effective environmental consulting services to commercial and oil and gas companies. We work closely with our clients to meet their specific needs and determine the best option for the environment, while complying with client and regulatory protocols. We utilize the expertise of our staff and have alliances with a network of qualified peers and contractors which enables us to provide a variety of services.

Featured ESAA Member

ESAA is starting a new feature in the newsletter. Each week will shine the light on one ESAA member. If you are interested in being profiled, contact Joe at the ESAA office (chowaniec@esaa.org)



MCLENNAN ROSS LLP

LEGAL COUNSEL

McLennan Ross takes pride in serving Albertans and Northern clients for over a century. Having grown to more than 115 lawyers and an extensive support staff with offices in Edmonton, Calgary and Yellowknife, a hallmark of our firm is strategic thinking, grounded in a solid understanding of the realities of the business world, and basic common sense.

Why was the company founded: With an interesting timeline of how our firm became “McLennan Ross LLP”, our company was founded to assist companies with their legal matters. Our philosophy of understanding our clients’ business and providing them with strategic advice is instilled in each lawyer and staff member at the firm today. From our early years located in Alberta’s Capital City, we have since grown to have offices in Calgary and Yellowknife, and serve national and international clients.

Unique product or service: McLennan Ross clients are organizations of all sizes, from virtually every sector of the economy, including local, provincial and federal governments, and not-for-profit entities. Our clients operate throughout Western Canada, the North, and around the world. We are happy to provide legal services to the Environmental, Energy, Construction, and Insurance industries in several areas of law including Regulatory, Labour & Employment, Corporate Commercial Securities, and Litigation.

How does your company give back to the community: As a firm, we are committed to giving back to the communities where we work. Each of our offices is involved in a number of local charities such as Soup Sisters, Hope Mission, The Mustard Seed, Edmonton Community Legal Centre, Calgary Legal Guidance Advice-A-Thon to name a few. We are always happy to support the organizations our clients are passionate about, and we also have a number of lawyers and staff who are involved in their own personal causes. In the environmental sphere, we have members sitting on the Boards and involved in several non-profit organizations including the Environmental Law Centre and Emerald Awards.

Website: www.mross.com

Industry Positions Openings



As a benefit of ESAA Membership, ESAA Members can now post position openings on our website at no charge. Position opening ads also will appear in the newsletter at no charge. For full details visit: <https://www.esaa.org/news/job-board/>

Note: You must still complete the advertising form. After completing the order form, you will receive an email with a link to post your position.

Non-Members are welcome to advertise as well for a nominal charge. Visit [advertising form](#) to place your order.

Job Title	Organization	Application Deadline	Term	Details
Intermediate/Senior Vegetation Ecologist	Trace Associates Inc.	2020-06-27	Full-Time	more
Reclamation Specialists	EARTHMASTER ENVIRONMENTAL STRATEGIES INC	2020-06-13	Full-Time	more
Department Manager I	Element Materials Technology	2020-03-16	Full-Time	more