

Weekly NEWS



An Information Service for Alberta's Environment Industry

The Week Ending December 13th, 2019



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**Comments & submissions
are welcome!**

Please submit your
announcement
via e-mail to:
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EnviroTech 2020

**April 27-29, 2020
Hyatt Regency Calgary**

Call for Abstracts

ESAA invites you to submit technical abstracts for the 3rd Annual *EnviroTech*. Abstracts are encouraged in, but not limited to, the following areas:

Water: modelling, monitoring, quality, hydraulic fracturing, emerging contaminants, oilsands issues, saline, contamination, industrial re-use, wastewater treatment, risk management, groundwater, surface water, water wells, wetlands, produced water

Climate Change: adaptation, alternative energy, carbon credits, energy efficiency, energy from waste, GHG monitoring and sampling, regulatory, sustainability, impacts of climate change, CleanTech

Air: monitoring, modelling, sampling, quality, regulatory, noise management

Waste: landfill design, landfill closure, hazardous waste management, emerging contaminants, resource recovery, regulatory

Testing: laboratory testing and sampling, field testing and sampling, monitoring, analysis

Decommissioning: management, safety, hidden dangers, technology

Indigenous: engagement, stewardship, traditional knowledge

Other: topics from areas not listed will also be considered

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 midnight on Friday, January 17th, 2020.

For full details, visit: <http://www.esaa.org/envirotech/agenda/call-for-abstracts/>

Sponsorship / Exhibitor Opportunities: Sponsorship and Exhibitor information will be released in early December. If you are interested in receiving the information, please contact: lorraine@tl2.ca

Early Bird Registration: Early Bird Registration is now open. Register before January 31st, 2020 and **save 20%**. [Register Now](#)

We look forward to your continued support of ESAA events and look forward to welcoming you to [EnviroTech 2020](#).

ALBERTA'S NEW APPROACH TO PRICING POLLUTION FOR HEAVY INDUSTRY MEETS FEDERAL BENCHMARK

Canadians see the costs of a changing climate all around them. Climate change is driving stronger storms, wildfires, and record-breaking heatwaves. Canadians also know that taking climate action is an enormous opportunity to create jobs and advance economic growth. A price on pollution is one of the best tools we have to fight climate change while keeping life affordable for Canadian families.

The Minister of Environment and Climate Change, the Honourable Jonathan Wilkinson, today announced that Alberta's *Technology Innovation and Emissions Reduction Regulation* meets the federal government's stringency benchmark criteria for carbon-pollution pricing systems, for 2020, for the emission sources they cover. The Regulation will go into effect on January 1, 2020, replacing Alberta's previous approach to pricing pollution from industry. As a result, the federal output-based carbon-pricing system, the large industry portion of the backstop, will not go into effect in Alberta.

The Regulation set a price of \$30 per tonne on emissions from industrial sectors such as oil and gas, electricity, cement, agriculture, and others.

As in all other provinces and territories that have adopted their own price on carbon pollution, Alberta's Technology Innovation and Emissions Reduction (TIER) system will be subject to annual reviews to ensure it remains in compliance with the federal benchmark. The benchmark price rises to \$40 per tonne in 2021 and \$50 per tonne in 2022.

The federal price on pollution has two components: a fuel charge across the economy and a pricing system for heavy industrial sectors that face international competition. Today's announcement relates to the pricing system for heavy industry. With regard to the fuel charge, Alberta's government made the decision to cancel the province's carbon levy last May. This means the federal fuel charge will go into effect in Alberta, on January 1, 2020.

All direct proceeds from the federal fuel charge will go back to Alberta, with the vast majority of those proceeds returned to people of the province through climate action incentive payments. A family of four will receive a climate action incentive payment of \$888 after they file their taxes next year, and most families will receive more back than the costs they see from the price on pollution. The remainder of the direct proceeds will support small and medium-sized businesses, municipalities, schools and hospitals, Indigenous communities, and others.

As part of the Pan-Canadian Framework, Canada's climate plan, governments are committed to reviewing the approach to pricing pollution by early 2022, with an interim review in 2020. The interim review of pollution pricing will focus on best practices to address the competitiveness of emissions-intensive trade-exposed sectors.

GRIZZLY OIL SANDS PROJECT GETS GO-AHEAD

The province has approved Grizzly's May River oil sands project in order to attract new investment and create jobs for Albertans.

Grizzly can now advance the project to the next stages of development, including making a final investment decision and applying for other environmental licences and local area development permits.

The proposed project would be located northwest of Conklin, between Fort McMurray and Lac La Biche, and produce approximately 12,000 barrels of bitumen per day. It would extract bitumen using steam-assisted gravity drainage technology, which minimizes a project's environmental footprint.

"This project is in the best interest of Alberta, and is another example of how we are responsibly developing our resources. Moving these projects forward shows that Alberta is open for business, and we are dedicated to encouraging investment in our province." - Sonya Savage, Minister of Energy

The Alberta Energy Regulator has done a stringent review of Grizzly's development plan, known as a scheme application, and recommended that it be approved by cabinet.

REVIEW OF AER INDUSTRY LEVY METHODOLOGY

The Alberta Energy Regulator (AER) is currently 100 per cent funded by industry and is authorized to collect funds through an administrative fee levied on energy development projects and activities. As a detailed review of the methodology used to calculate the levy has not occurred since 2006, we will be undertaking a review to examine how the levy is currently calculated.

To help inform this work, we will be soliciting stakeholder feedback to identify potential changes to the levy methodology. In early 2020, we will establish a joint committee with industry stakeholders to garner feedback.

The committee will examine a range of factors, including the types of facilities, activities, and sectors currently included in the levy calculation. The review will identify potential options for change in both the short and long terms. Further details of the levy methodology review will be announced in early 2020.

The levy methodology review will not affect the current administrative fee levy announced on November 29, 2019.

If you have any questions or comments about this bulletin, contact the Customer Contact Centre by telephone at 1-855-297-8311 or by email at inquiries@aer.ca.

AER: NEW SUBSURFACE ORDER INSTITUTES NEW MONITORING, SETBACK, AND RESPONSE REQUIREMENTS TO MANAGE THE RISK OF INDUCED SEISMICITY IN THE RED DEER REGION

Today we released [Subsurface Order No. 7](#), which establishes new monitoring, reporting, and setback requirements to manage the potential hazard of induced seismicity from hydraulic fracturing in the [Red Deer region](#).

The order prohibits hydraulic fracturing operations within five kilometres of the Dickson dam infrastructure if operations are targeting the Duvernay Formation or below.

The order also establishes a mandatory traffic light protocol for hydraulic fracturing operations targeting formations above the Duvernay within the five-kilometre exclusion zone around the Dickson dam and for operations that are targeting the Duvernay Formation or below it within the broader Red Deer region. Under the traffic light protocol, licensees must implement seismic monitoring and response procedures to manage the hazard of induced seismicity before, during, and after any hydraulic fracturing activity. Any seismic events of 1.0 M_L or greater within 5 kilometres of the hydraulically fractured well must be reported and mitigated (yellow light infraction). If an event 3.0 M_L or greater is detected (red light infraction), the fracturing operations at the well must cease until authorized by the AER to restart. Licensees are also required to share real-time seismic data with the AER.

We will continue to evaluate the risk of induced seismicity in the [Red Deer region](#) to ensure that the Dickson dam setback distances are protective of Albertans. The order may be updated in the future based on scientific evidence regarding the potential hazard.

For more information, contact our Customer Contact Centre by phone at 403-297-8311 (1-855-297-8311 toll free) or by email at inquiries@aer.ca.

NEIGHBOURS DEMAND ACTION OVER CONTAMINATION FROM FORMER SEARS GAS STATION

(Source: Calgary Herald) Hydrocarbons have leaked from an underground tank of a service station owned by Sears Canada at the North Hill mall.

Residents of a northwest community say they're being caught in the middle of a dispute over who is responsible for cleaning up fuel seeping from a former gas station site.

Three companies are appealing a provincial government environmental protection order mandating they monitor and clean up hydrocarbons that leaked from an underground tank of a service station owned by Sears Canada at the North Hill mall.

But at a three-day hearing of the Environmental Appeal Board that began Tuesday, residents of neighbouring Hounsfield Heights said they don't care who takes over that task as long as something is done soon, after decades of worrying about the contamination.

"The main thing is this has gone on a very long time," Allan Legge, who's lived in the area since 1978, told the appeal board panel.

"There's an associated fear and uneasiness about eventual exposure — a lot of it's psychological, and for those with children, there would be extreme stress."

An environmental consultant hired by the residents said modelling done from a series of test wells suggests it could take up to 75 years for the hydrocarbons seeping downhill toward the Bow River to naturally reduce to within provincial groundwater remediation guidelines.

To properly monitor and remove the contamination would likely require adding another \$6 million to the remaining budget of \$12 million, said consultant Marc Bowles.

The hydrocarbon plume, whose toxin level is well above provincial guidelines, has extended at least 350 metres south of the former gas station site, and some of its underground migration route is uncertain, he said.

"This is one of the longest plumes in North America," said Bowles.

"It has not yet reached a stable state and is still growing."

Said resident Lise Houle: "There's been a lot of talk about remediation plans but no concrete activities."

She said a vapour barrier was erected in 2010 but added, "we don't really know if it's had any effect . . . it's been a saga of vague assurances, inadequate information and moving targets."

The hearing heard the dispute is more fallout from the 2017 collapse of Sears Canada, which notified the province its bankruptcy meant it could no longer afford to monitor and clean up leaks from the gas station it began operating in 1958 and was shuttered in 1995.

An environmental assessment showed the original tank began to leak between the 1970s and early 1980s.

Suncor Energy, whose predecessor at the site, Sunoco, took over the gas station from Sears, is also named in the order, as is Concorde North Hill, which bought the property from Sears Canada in 2015.

Lawyers for all three companies said they shouldn't be part of the cleanup order.

"Concord did not act as a contributor to the contamination nor has it done anything to exacerbate it," said lawyer Daniel Collins.

He also questioned whether the leak had "an actual adverse effect." Suncor lawyer Paul Cassidy argued the leak occurred prior to the company's ownership of the service station.

"It was already there when Suncor took over the property," said Cassidy, adding the province was only seeking wider liability after Sears' bankruptcy, which has since led to the closure of its stores. "It was triggered only by the insolvency of Sears."

Both Sears and Suncor have been involved in remediation work in the area.

Under cross examination, Bowles said the leak hasn't affected residents' drinking water but could pose a longer-term risk to the city's aquifer and the Bow River, while producing toxic air vapours in nearby homes.

He said it's surprising that after 20 years of monitoring, the extent of the leak still isn't fully known. The appeal board will craft recommendations that will be handed to Alberta's environment minister, who can issue resulting orders.

FISHERIES ACT VIOLATION RESULTS IN \$150K FINE FOR NORTHWEST TERRITORIES BUSINESS

Canadians value a safe and clean environment. Environment and Climate Change Canada's enforcement officers strive to ensure that businesses and individuals comply with the laws and regulations administered by Environment and Climate Change Canada, which protect Canada's natural environment.

On November 27, 2019, a guilty plea was entered on behalf of Hay River Mobile Home Park Ltd., in Hay River Territorial Court, in response to a charge of violating subsection 36(3) of the *Fisheries Act*. The company was fined \$150,000, which will be directed to the Government of Canada's Environmental Damages Fund.

In October 2016, Environment and Climate Change Canada enforcement officers responded to a report from the Northwest Territories 24-Hour Spill Report Line that a fuel sheen had been observed on the Hay River. An investigation determined that a fuel truck parked on Hay River Mobile Home Park Ltd. property had released a diesel/water mixture, over a 20-hour period, onto land adjacent to the Hay River. An undetermined amount of the mixture then entered the Hay River, which is home to a variety of fish species, including walleye, whitefish, and northern pike.

As a result of this conviction, the company's name will be added to the Environmental Offenders Registry.

CCME: AMBIENT AIR MONITORING AND QA/QC GUIDELINES

CCME has posted the Ambient Air Monitoring and Quality Assurance/Quality Control Guidelines: National Air Pollution Surveillance Program.

This document contains guidance related to air quality monitoring procedures at National Air Pollution Surveillance (NAPS) sites across the country and replaces the Ambient Air Monitoring Protocol for PM_{2.5} and Ozone: Canada-wide Standards for Particulate Matter and Ozone (CCME 2011) and the manual titled National Air Pollution Surveillance Network Quality Assurance and Quality Control Guidelines (EC 2004). It provides recommendations and establishes minimum requirements to ensure that data collected by the NAPS Program are of known quality, defensible, and comparable across Canada.

The NAPS Program is managed by provincial and territorial governments across Canada in cooperation with Environment and Climate Change Canada.

Please click [here](#) for details.

CCME: NEW PUBLICATION ON CONSTRUCTION, RENOVATION AND DEMOLITION WASTE MANAGEMENT

CCME has posted a *Guide for Identifying, Evaluating and Selecting Policies for Influencing Construction, Renovation and Demolition Waste Management*.

This guide provides decision-makers with high-level guidance for identifying, evaluating and selecting effective policies for influencing construction, renovation and demolition (CRD) waste management. This includes reducing the amount of waste generated by CRD activities, decreasing the amount of CRD waste that is disposed, lessening the environmental impacts of the CRD waste that is disposed, and strengthening the markets for, and value of, diverted CRD materials.

Construction, renovation and demolition (CRD) wastes make up one of the largest solid waste streams in Canada. This waste comes at a significant cost: it is expensive to manage, poses risks to human health and the environment, and represents a missed opportunity to recover value from discarded materials.

Please click [here](#) for details.

ALBERTA EXPORT PROGRAM REFRESH HELPS CUT RED TAPE

The newly streamlined Alberta Export Expansion Program reduces red tape for local businesses looking to expand around the world.

Starting Dec. 2, small and medium-sized enterprises, municipalities, First Nations and Metis Settlements, industry associations and economic development organizations can apply for funding through a single application stream to:

- Promote Alberta exports through international business travel, or
- Bring international buyers to Alberta.

“We received a lot of feedback from Alberta businesses and organizations on their experience with the former program, and we listened. We cut unnecessary processes and requirements, creating a more streamlined approach for businesses to get the support they need to grow, succeed and create jobs. These efficiencies also ensure we’re getting the best bang for Alberta taxpayers’ buck.” - *Tanya Fir, Minister of Economic Development, Trade and Tourism*

The Alberta Export Expansion Program has a continuous intake with an annual budget of up to \$1.2 million.

Key program improvements include:

- Replaced two program streams (former SME Export Support Fund and Global Buyers and Investors Program) with a new single program and application process that covers both outbound and inbound travel.
- Increased annual funding limit per application from \$20,000 to \$25,000.
- Removed the percentage sales cap for target countries to help broaden the list of eligible markets.
- Removed the eligibility requirement that for-profit businesses meet a minimum incorporation length.
- Reduced the length of follow-up reporting requirements from three years to one.
- Harmonized eligibility criteria to provide more direct support to Alberta small and medium-sized enterprises and non-profit organizations, including municipalities, First Nations and Metis Settlements.
- Introduced caps on some eligible expenses to ensure responsible use of taxpayer dollars.

The former SME Export Support Fund will not be accepting new applications. Applications that were submitted before the program was paused in March 2019 will be retroactively processed and approved in the order that they were received. Going forward, Alberta businesses are encouraged to apply to the Alberta Export Expansion Program through the new online application process.

Information on eligibility criteria, funding, and how to apply is available on the [Alberta Export Expansion Program web page](#).

The Alberta Export Expansion Program refresh is another step in our government’s commitment to reduce red tape by one-third and get Albertans back to work. By working together, we can continue to cut the unnecessary red tape that is holding back Alberta’s economy. Suggestions about where government can cut even more red tape can be submitted at [CutRedTape.Alberta.ca](#).

Quick facts

- Last year, the program supported export development trips to 48 countries.
- Since the program’s launch in 2016, participating companies have reported that every \$1 disbursed through the initiative generated approximately \$65.51 in new export sales.

Related information

- [Alberta Export Expansion Program](#)

FUNDING COMPETITION FOR CLEAN TECHNOLOGIES FOR NATURAL GAS PRODUCTION

On behalf of the Natural Gas Innovation Fund (NGIF), we would like to invite you to apply to our [Round 5 – Cleantech Innovations for Natural Gas Production](#) funding call advertised at [www.ngif.ca](#).

NGIF is a first of its kind industry-led, industry-funded, granting organization, created by the Canadian Gas Association (CGA). It seeks to accelerate targeted cleantech innovation in the upstream, midstream, and downstream sectors of the natural gas industry through funding support to emerging technology, start-ups, and small to medium-sized enterprises.

NGIF represents energy leadership throughout the natural gas sector. Our upstream investors include seven natural gas producers: Birchcliff Energy Ltd., Canadian Natural Resources Limited, Chevron Canada Limited, Perpetual Energy Inc., PETRONAS Energy Canada Ltd., Shell Canada Energy, and Tourmaline Oil Corp.

This is a \$3M (CAD) funding competition for clean technologies for natural gas production with up to \$1M (CAD) available per project. NGIF is seeking clean technologies in natural gas production that creates value, advance operational excellence, and mitigate environmental impacts.

For any questions on our application process, please feel free to reach us out at info@ngif.ca. The deadline for submitting your application is **December 19, 2019**.

REMEDIATION TECHNOLOGY NEWS AND RESOURCES

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

New Documents and Web Resources

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:

- Interim Measures Final Report for Soil-Vapor Extraction of Volatile Organic Compounds from Material Disposal Area L, Technical Area 54
- Advances in Managing Contaminated Groundwater Using High Resolution Site Characterization and Contaminant Mass Flux Reduction (webinar)
- Final Report Otsego Township Dam Area Time Critical Removal Action Operable Unit 5, Area 3, Allied Paper, Inc./Portage Creek/Kalamzoo River Superfund Site
- Year 1 Monitoring Report: Enhanced Natural Recovery/Activated Carbon Pilot Study Lower Duwamish Waterway
- Molecular Design of Effective and Versatile Adsorbents for Ex Situ Treatment of AFFF-Impacted Groundwater
- Managing AFFF Impacts to Subsurface Environments and Assessment of Commercially Available Fluorine-Free Foams (webinar)
- Cost-effective Treatment Technologies for Removing CECs (webinar)

Upcoming Events

Registration is now open to attend the 2020 AGAT Tech Talks in Alberta!

Join us on January 24 in [Calgary](#) and on January 31 in [Edmonton](#) to explore the issues that will shape the future of our industry. Technical programs for these Tech Talk sessions are included below.

Hot Breakfast, Networking Breaks and Lunch are included in the registration. Please contact **Mélissa Hohenberger** at AGAT Laboratories for all inquiries and any special dietary requirements at hohenberger@agatlabs.com or **403.736.2062**.

Registrants may be eligible for Professional Development Credits with **AIA, APEGA, ACPA, ASPB & Eco Canada**.

Registration Fee: \$180.00 (includes GST)

[Calgary Registration](#)



[Edmonton Registration](#)



SMART Remediation Seminar Series 2020 Speakers and Topics

We are very excited to announce the SMART speaker line up for 2020!

Registration is now open, sign up and take advantage of the Early Bird pricing.

We have a strong line up this year, based upon a record number of abstracts submitted, and we are pleased to announce the following speakers:

Legal, Insurance

- **Buying, Selling and/or Redeveloping Commercial Real Estate** *by George Boire, Marsh*
- **You Have Been Retained as an Expert Witness in Environmental Litigation – Now What?** *by Jacquelyn Stevens, Willms & Shier Environmental Lawyers LLP*
- **Science on Trial: What Environmental Consultants Need to Know About Giving Evidence in Court** *by Jessica Boily, Gowling WLG (Canada) LLP*
- **The New Reliance on Criminal Prosecutions to Enforce Environmental Compliance** *by Mark Youden, Josh Jantzi and Wally Brault, Gowling WLG (Canada) LLP*
- **Current Environmental / Legal Intersections To Be Aware Of** *by Michael Hebert, Beament Hebert Nicholson LLP*
- **Environmental Consultants do Get Prosecuted and Sued!** *by Richard Butler, Willms & Shier Environmental Lawyers LLP*

Vapour Intrusion

- **Waterloo Membrane Sampler: Passive Sampling in Remediation Projects; Soil Gas, Outdoor Air and Implications for Vapor Intrusion Studies** *by Brent Pautler, SiREM, Geosyntec, SepSolve, MECP*
- **A New Model for Sub-Slab Mitigation for Vapour Intrusion** *by Paul Nicholson, Geosyntec Consultants*

Remediation Technologies and Approaches

- **In Situ Chemical Reduction for Remediation of Soil Containing Chlorinated Pesticides and Herbicides** by *Alan Seech or Brant Smith*, Peroxychem, Chemco
- **Surfactant Enhanced Extraction (SEE) at LNAPL and DNAPL Impacted Sites Pilot to Full Scale** by *George Ivey*, Ivey International Inc.
- **Benefits of Combining In Situ Chemical Oxidation with In Situ Stabilization: Synergies and Solutions for Complex Sites** by *Jean Paré*, Peroxychem, Chemco
- **Case Study: When In-Situ Technologies Fail** by *Kevin French*, Vertex Environmental Inc.
- **Case Study: New Delivery Method to Inject Remedial Amendments into a Difficult Aquifer** by *Gerren Feeney and Nathan Lichti*, Premier Environmental Services and Vertex Environmental Inc.
- **Enhanced Anaerobic Bioremediation Achieves Cost Effective Closure for a PHC impacted Site** by *Ryan Riess, Pinter & Associates Ltd*
- **High value added to waste product: Hydrochar as a novel bio-augmenting amendment for bio- and phytoremediation applications** by *Victoria Collins*, NAIT Industry Solutions

Government

- **Sterilants Program** by *Bonnie Drozdowski*, InnoTech Alberta
- **Federal Contaminated Sites Action Plan (FCSAP) and the separate Northern Abandoned Mines Reclamation Program (NAMRP)** by *Clayton Truax*, Public Services and Procurement Canada

Real Estate

- **Environmental Risk Management in Real Estate** by *Albert Ho*, FCR Management Services

Waterfront Toronto

- **Waterfront Toronto – Risk Management Measures for the New River Valley** by *David Bertrand*, Geosyntec Consultants International Inc. and Waterfront Toronto
- **Approach Applied and Lessons Learned in Optimizing Soil Reuse for Large Redevelopment Projects** by *Krista Barfoot*, Stantec and Waterfront Toronto

Abstract summaries for the presentations are being posted to the SMART website. Be sure to check them out at www.smartremediation.com.

To view which presentations will be delivered at each location and to register, click the city below:

[Toronto](#) - January 23, 2020
[Ottawa](#) - February 6, 2020
[Edmonton](#) - March 11, 2020
[Calgary](#) - March 12, 2020

CANADIAN CLEAN TECH INNOVATION DAYS IN TEXAS February 9-12, 2020, Houston, TX

The Consulate of Canada in Houston is organizing a 3-day program to showcase innovative Canadian Clean Technologies applicable to the Oil and Gas sector February 9-12. Selected applicants will have the opportunity to present their proven solutions to executives from ExxonMobil, BP and Schlumberger.

The event is geared towards scale-up companies or above which are looking for partners/clients interested in integrating innovative technologies into their value chain. Full details can be found at: <https://twitter.com/ABintheUSA/status/1202967216850952192>.

The application deadline is January 2, 2020.

SELECTED COMPANIES WILL BE NOTIFIED BY: January 10, 2020

CONTACT: Maria.Bofill@international.gc.ca for an application form or more information

Industry Positions Openings

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

Junior Environmental Consultant



Term: Full-Time

Number of Positions: 1

Application Deadline: December 27, 2019

Job Start Date: ASAP

Job Location: Sherwood Park

North Shore Environmental Consultants Inc. is a progressive environmental company that specializes in providing environmental management and consulting services. 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 Environmental Consultant** for our **Reclamation and Remediation Team**, based out of **Sherwood Park, Alberta**.

Key Responsibilities:

- Assist with the coordination and execution of Phase 1, Phase 2, and Phase 3 Environmental Site Assessments through to reclamation certification
- Assist with the development and execution of reclamation, and remediation projects in central and northern Alberta as well as northeastern British Columbia
- Complete vegetation assessments and weed management activities in forested, tame pasture, and cropland settings
- Assist with the coordination and execution of Detailed Site Assessments
- Assist during initial spill response projects as required
- Prepare technical reports
- Provide assistance to senior staff in the office, as required
- Promote our company's vision, mission, and principles

Qualifications:

- 1 – 3 years of consulting experience related to remediation, reclamation, or environmental science
- Good understanding of upstream oil and gas regulatory requirements, particularly reclamation criteria
- Experience with vegetation and weed identification
- Willingness to travel and be in the field for extended periods of time
- Technical Diploma or University Degree in environmental science or related discipline
- Eligibility, to obtain professional designation with an organization such as the Alberta Institute of Agrologists

- Proficient with Microsoft Office Suite and database entry
- Valid driver's license
- Good physical health and ability to work outdoors in varying conditions
- Willingness to work within a team environment
- Highly organized and have the ability to prioritize multiple tasks

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 Details:

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.

Intermediate Environmental Consultant



Term: Full-Time

Number of Positions: 1

Application Deadline: December 27, 2019

Job Start Date: ASAP

Job Location: Sherwood Park

North Shore Environmental Consultants Inc. is an employee-owned, progressive environmental company that specializes in providing environmental management and consulting services. Since our inception in 2002, North Shore has grown and succeeded throughout western and northern Canada by providing cost-efficient and effective solutions to the complex environmental challenges faced by today's industries. By keeping in line with our core values as well as maintaining focus on both our employee and industry relationships, North Shore will continue to be a leader amongst its peers.

We offer our employees a team-based working environment with flexible working arrangements, attractive compensation and field work incentives, performance-based bonus programs, a comprehensive health benefit package, numerous paid perks, and the opportunity to participate in our Employee Share Ownership Program (ESOP). North Shore promotes and encourages its employees to continue their career advancement through continuous education, competency development, and memberships within recognized professional organizations. Therefore, North Shore provides generous support to its employees through paid training and educational programs, reimbursement of annual professional fees, and ensuring regular attendance opportunities at various conferences and industry events.

North Shore is currently seeking an **Intermediate Environmental Consultant** for our **Reclamation and Remediation Team**, based out of **Sherwood Park, Alberta**.

Key Responsibilities:

- Developing and implementing reclamation and remediation plans on abandoned upstream oil and gas wellsites
- Overseeing the completion of remediation and reclamation projects. Coordinating and supervising heavy equipment and other third party contractors as required
- Assisting with the oversight of client budgets, tracking project statuses, and making recommendations to progress sites towards regulatory closure
- Coordinate and execute Phase 1 Environmental Site Assessment (ESA) site visits, vegetation assessments, Phase 2 ESA's, and Detailed Site Assessments (DSA's)
- Collaborate with members of the Technical Resource Group to develop site-specific remediation guidelines
- Develop and maintain relationships with landowners and other stakeholders
- Work closely with interdisciplinary groups (Technical Resource Group, Data Management Group, Spill Group, Biophysical Group, and Vegetation Group) to successfully execute client projects and programs
- Compiling various technical documents including DSA reports, Phase 2 ESA reports, remediation reports, and regulatory closure applications
- Provide mentorship and training to junior staff

- Provide support to senior staff as required

Qualifications:

- 3 – 5 years of consulting experience related to remediation, reclamation, or environmental science
- Proficient at completing Detailed Site Assessments using the 2010 Reclamation Criteria for Wellsites and Associated Facilities
- Familiar with the Alberta Tier 1 and 2 Soil and Groundwater Remediation Guidelines
- Good understanding of upstream oil and gas regulatory requirements in Alberta, as well as British Columbia and Saskatchewan, will be considered an asset
- Knowledge and experience working with various types of farming and heavy equipment
- Excellent vegetation and weed identification skills in both forested and cultivated landscapes
- Willingness to travel and be in the field as dictated by project requirements
- Technical Diploma or University Degree in environmental science or related discipline
- Eligibility, to obtain professional designation with an organization such as the Alberta Institute of Agrologists
- Excellent communication, writing, and problem-solving skills
- Proficient with Microsoft Office Suite and database entry
- Valid driver's license
- Good physical health and ability to work outdoors in varying conditions
- Willingness to work within a team environment
- Highly organized and have the ability to prioritize multiple tasks

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 Details:

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.

Senior Project Manager

Term: Full-Time

Number of Positions: 1

Application Deadline: December 23, 2019

Job Location: Calgary



Company Overview: TerraLogix Solutions Inc. (Terralogix) was founded in 2002 and since its inception has specialized in Environmental Management in the Upstream Oil and Gas Industry. TerraLogix is built on providing excellent environmental management services while still providing cost effective environmental solutions for the Upstream Oil and Gas Industry. We are experienced in the development and coordination of environmental assessment programs, environmental project management and on-site project supervision. Currently TerraLogix's offices are located in Calgary, Alberta and Edmonton, Alberta.

Job Description: An exciting opportunity exists for a Senior Environmental Project Manager in our Calgary office.

The successful candidate will oversee specific client's remediation projects and be involved in various aspects of a variety of projects.

Reporting to the Calgary Operations Manager and/or a Program Manager, the Senior Project Manager will:

- Oversee and provide mentorship of junior to intermediate staff with respect to the completion of field work and reports for specific Soil and Groundwater Monitoring Programs, Phase I, II and III ESAs for the oil & gas industry. Minimal field work maybe required for specialty projects, safety audits and staff training.
- Complete data gap analysis of internal or third party reporting to determine applicable remedial options.
- The ability to evaluate and complete Tier 2 assessments with respect to pathway exclusions and modifications is a requirement. Experience with the Subsoil Salinity Tool is an asset.
- Experience working with Saskatchewan and British Columbia regulations and criteria is an asset.
- Both preparation and/or technical review of reports related to Upstream Oil and Gas remedial projects.
- Budget development for specific projects, tracking of project status and cost control for clients.
- Contractor Management.
- Liaise with clients, regulatory and environmental agencies.
- Communicate regulatory changes or updates to staff and employees.
- Understand and provide leadership with respect to TerraLogix's and client's Health and Safety Policies and OH&S procedures.

Qualifications:

The successful candidate will possess the following skills and attributes:

- Bachelor of Science degree or Masters of Science Degree in Environmental Science, Environmental Engineering, Geology or other relevant Environmental Program along with a minimum of 10 years of experience. In addition, candidate should have applicable professional designation.
- Experience in soil and groundwater contaminated sites monitoring and remediation programs.
- Strong familiarity with ERCB Directives 50 and 58, Alberta Environment Reclamation Criteria (Green, White and Federal lands), Alberta Tier 1 and 2 Guidelines, CCME guidelines, Saskatchewan Environmental Quality Guidelines, and BC Contaminated Sites Regulations.
- Possess strong interpersonal skills, communication skills and technical writing skills and be able to work as a member of a multi-disciplinary team and provide leadership.

Compensation:

An attractive compensation package, consisting of an hourly wage with overtime, full health and dental benefits, RRSP contribution plan and bonus incentives, awaits the successful candidate.

To find out more about Terralogix Solutions Inc. please visit our website at www.terralogix.ca

How to Apply Details:

To apply for this position, please email your cover letter and resume to resumes@terralogix.ca and clearly indicate which position you are applying for in the title bar of the email. Only candidates selected for an interview will be contacted.

resumes@terralogix.ca.