

Weekly NEWS



An Information Service for Alberta's Environment Industry

The Week Ending November 30th, 2018



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Comments & submissions are welcome!

Please submit your announcement via e-mail to:
weeklynews@esaa.org

EnviroTech 2019

April 23-25, 2019

Hyatt Regency Calgary

Call for Abstracts

ESAA invites you to submit technical abstracts for the 2nd Annual *EnviroTech 2019*. 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

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 11th, 2019.

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

Sponsorship / Exhibitor Opportunities: Sponsorship and Exhibitor information is now available. Contact Lorraine Hamdon, lorrine@tl2.ca for more information.

Early Bird Registration: Early Bird Registration is now open. Register before January 31st, 2018 and **save 20%**. [Register Now](#)

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- BOREHOLE LOG ENTRY



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CREATING A BIGHORN COUNTRY FOR ALL ALBERTANS

Alberta is consulting on a proposal for Bighorn Country that would conserve natural landscapes while boosting economic development, tourism and recreation.

Located between Banff and Jasper national parks, Bighorn Country includes the headwaters of the North Saskatchewan River that provide clean drinking water to more than one million Albertans. Its rugged terrain, scenic vistas and array of rare plants and wildlife make it a popular recreation and tourism destination.

In the spirit of Kananaskis Country, the province is proposing a mix of parks and public lands that would preserve natural landscapes while supporting a wide range of world-class tourism and recreation opportunities. Albertans are invited to review the proposal and provide feedback by Jan. 31.

“Forty years ago, Premier Peter Lougheed created Kananaskis Country due to increased pressures on the eastern slopes. Now, Kananaskis provides amazing experiences and opportunities, showing that investments in Alberta today mean our children and grandchildren will have wild spaces to enjoy in the future. We are asking all Albertans to help us create a place for everyone.” - *Rachel Notley, Premier*

“This mix of parks, recreation areas and public land-use zones has the potential to be the greatest tourism development opportunity the area has ever seen. We know how much Albertans value nature and time spent outdoors. This proposal will create new jobs, enhance mountain recreation and preserve the wilds of the Bighorn backcountry for generations to come.” - *Shannon Phillips, Minister of Environment and Parks*

To ensure the right balance of Indigenous, economic, environmental and social values and goals, all interested parties can provide input on the future of the Bighorn Country through an online survey available from Nov. 23, 2018 to Jan. 31, 2019.

New land designations in Bighorn Country would better protect headwaters and biodiversity, support continued traditional land-use by Indigenous Peoples, and provide high-quality outdoor recreation and nature-based tourism opportunities.

The proposal supports all current recreation activities (such as camping, hunting, hiking, fishing, climbing, mountain biking, horseback riding and off-highway vehicle use) that have been enjoyed by local user groups for years, and would ensure these activities continue for generations to come.

"I take my Outdoor Education students to the Bighorn area every year. Through activities like camping, hiking, paddling and rock-climbing, these young Albertans develop their knowledge, skills and positive attitudes while connecting with their peers and their environment. By appreciating the natural beauty of the Bighorn, our students recognize the importance of environmental conservation and strong recreation opportunities for future generations. I want to thank the government for announcing this consultation and highlighting how important this area is to our province." - *Gord Thorpe, Outdoor Education teacher, Londonderry School*

"Preserving the Bighorn Country is a true gift to outdoor explorers who share a common love for the Rocky Mountains. Whether it's hiking, backpacking, scrambling, mountaineering or rock-climbing, our members revere the Bighorn for its natural beauty and mountain experiences. This amazing place is a major source of drinking water, a home for wildlife and a quiet place for everyday people to soak it all in. We welcome the opportunity to provide feedback on this park proposal and for investments in new mountain experiences that excite the mind and challenge the body." - *Neil Bosch, president, Alpine Club of Canada*

"Bighorn is one of Alberta's last pristine wilderness spaces, treasured by nature lovers, campers and RV users alike. By setting aside this jewel and expanding camping areas with modern, electrified sites, more Alberta families will be able to go enjoy this space for generations, which supports Alberta businesses and the provincial economy. I'm thrilled to see this government invest in new recreation spaces, and the RVDA is eager to take part in the consultation." - *Dan Merkowsky, executive vice-president, Recreation Vehicle Dealers Association of Alberta*

To conserve this landscape and manage growth of numerous activities in the area, the government is proposing new, expanded or amended parks, recreation areas and Public Land Use Zones.

Key proposals include

- A proposed investment of \$40 million over five years in operations and capital infrastructure.
- Establishing the Bighorn Wildland Provincial Park to conserve nature and allow low-impact backcountry recreation experiences provided by both the public and private sector.
- Creating three new provincial parks - The David Thompson Provincial Park, The North Saskatchewan River Provincial Park, and the Ya Ha Tinda Provincial Park - to offer front-country experiences that come with infrastructure investments such as campgrounds and staging areas for recreation activities like hiking, paddling, horseback riding, and more.
- Establishing three Provincial Recreation areas - Snow Creek, Bighorn Dam and Hummingbird - to accommodate future demand for commercial development while offering staging areas for off-highway vehicle (ATV and snowmobile) access to designated trails.
- Expanding and designating Shunda Provincial Recreation Area to offer a range of public and private-sector nature-based tourism and recreation development and investment opportunities.
- Amending the Kiska/Willson Public Land Use Zone and establishing a new West Country Public Land Use Zone east of the Bighorn that would continue to permit industrial development such as forestry and energy uses while supporting new and existing designated trails. Management planning in the new zone would be done with stakeholders over two years.
- The refurbishment of 240 existing campsites and the construction of more than 150 new campsites. This would also include investment in parking lots, trails and staging areas.
- Direct consultation on extending tourism leases beyond 25 years to bolster private investment in tourism infrastructure, providing greater certainty on long-term investment opportunities.
- Direct consultation with local off-highway vehicle organizations to engage on the investment model for sustainable trail development.

To find out more about the proposed Big Country Initiative and provide feedback online, please visit talkaep.alberta.ca.

Bighorn facts

- The Bighorn region extends from Banff National Park eastward towards Drayton Valley. It includes Clearwater County and most of Brazeau County.

- The region forms the headwaters of the North Saskatchewan River and Red Deer River, which supply clean drinking water to over 1.5 million Albertans.
- The Bighorn area encompasses beautiful mountain ranges, alpine lakes, foothills, massive river valleys and forests, which are home to numerous species at risk, including grizzly bears, harlequin ducks and bull trout.
- The proposed designations represent significant economic opportunity for local communities in the region. For example, tourism and recreation in Kananaskis Country generates \$141 million of Alberta's GDP annually and supports more than 2,400 jobs.
- The new and expanded parks and protected areas would add almost 400,000 hectares of protected land, increasing overall protection in Alberta from 14.6 per cent to 15.2 per cent.
- The Bighorn Country proposal presents further opportunities for cooperative management with local First Nations and Metis peoples to ensure traditional activities, sacred sites and treaty rights are part of parks planning, and celebrated in the visitor experience.
- Random camping would be supported through the creation of designated rustic camping spots with basic public safety and service amenities, as was done in the Castle area.
- Existing designated trails for off-highway vehicles would be maintained in Bighorn Country, as they have been responsibly developed by many local user groups. The proposal also outlines opportunities for future investment in designated trail systems.
- Existing grazing would be honoured throughout the Bighorn region.
- There would be no impact on active industrial leases within the proposed Public Land Use Zones and no forestry tenure within the parks and protected areas is being proposed.

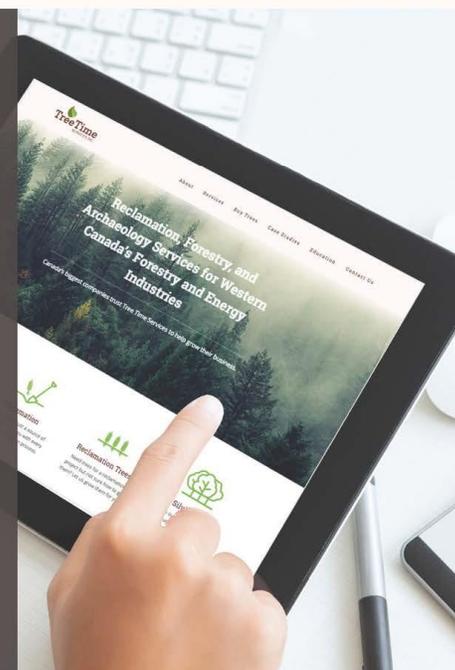
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Tree Time Services is excited to announce a new and more mobile friendly website!

Our website provides a more substantial overview of our products and services, with case studies providing context for their quality and effectiveness.

We added to our existing educational content, providing a lot of excellent information to inform on planning re-establishment of forest cover in the reclamation process.



Are you reclaiming a site next summer and require tree seedlings?

If there is a chance you do, please call us soon. We are still taking orders for 2019 summer seedlings, with greenhouse space is expected to fill by late November.

Related information

- [Bighorn Country Proposal](#)
- [Brochure and map](#) (PDF)
- [North Saskatchewan Regional Plan](#)

REVELSTOKE 6 PROJECT GRANTED AN ENVIRONMENTAL ASSESSMENT CERTIFICATE

An environmental assessment certificate has been issued to BC Hydro and Power Authority for the Revelstoke Generating Station Unit 6 project (Revelstoke 6 project), following a decision by George Heyman, Minister of Environment and Climate Change Strategy and Doug Donaldson, Minister of Forests, Lands, Natural Resource Operations and Rural Development.

BC Hydro proposes the installation of a sixth generating unit into an existing empty turbine bay of the Revelstoke Dam and the construction of a capacitor station. The generating station is situated on the Columbia River, five kilometres upstream from the City of Revelstoke, and on the asserted traditional territories of the *Syilx* Okanagan Nation, Ktunaxa Nation, Lakes Tribe and Secwepemc Nation. The capacitor station is proposed near Summerland and overlaps the traditional territory of the *Syilx* Okanagan Nation.

The Revelstoke 6 project would add an additional 500 megawatts (MW) of power generation to the dam, bringing the station's total peak output power to 2,980 MW.

Having considered the Environmental Assessment Office's (EAO) assessment report and the recommendation of the executive director of the EAO to issue a certificate, the ministers are confident that the project will be constructed and operated in a way that ensures no significant adverse effects are likely to occur. A record of the factors that the ministers considered in making their decision can be found in the Reasons for Ministers' Decision document at: <https://projects.eao.gov.bc.ca/api/document/5bfc5c88688ac80024bc8550/fetch>

In addition to the 20 conditions that are part of the Revelstoke 6 project's environmental assessment certificate, design requirements are specified in the certified project description. Each of the conditions and the certified project description are legally binding requirements that BC Hydro must meet to maintain compliance with the certificate. BC Hydro is also required to obtain other federal and provincial permits to proceed with construction of the project. The plans required by the conditions must be developed in consultation with key government agencies and Indigenous groups.

Key provincial conditions for the project require BC Hydro to:

- develop a plan for the mitigation of impacts of the project on archeological and historical heritage resources in accordance with the Heritage Conservation Act for the life of the project;
- develop a fish habitat monitoring and management plan and a wildlife protection plan to mitigate, monitor and address impacts to fish and wildlife for the life of the project;
- develop a water-monitoring plan to monitor and mitigate impacts from the dam to water levels in the mid-Columbia River and Revelstoke and Arrow Lake reservoirs, channel and bank erosion, and discharge from the Revelstoke Dam to Arrow Lakes Reservoir; and
- support three Indigenous stewardship monitors during construction and the first five years of operations, represented by the Ktunaxa Nation Council, *Syilx* Okanagan Nation and Secwepemc.

In their reasons, the ministers acknowledged the EAO has taken extra efforts to understand broader issues that extend beyond Revelstoke 6's specific impacts, to facilitate Indigenous reconciliation — notably the concerns of Indigenous groups with respect to the historical development of energy infrastructure on the Columbia River.

The EAO examined potential impacts of the project on Aboriginal rights and title (Aboriginal interests), and consulted deeply with the *Syilx* Okanagan Nation, Ktunaxa Nation and Secwepemc. An Indigenous consultation report is included in the decision materials for ministers and details the issues raised by Indigenous groups, the relevant mitigation and accommodation measures, and the EAO's assessment of the seriousness of potential impacts on each Indigenous group's Aboriginal interests.

The EAO also consulted with the U.S.-based Lakes Tribe through the Colville Confederated Tribes (CCT). Consultation with the CCT started in early 2018 following a B.C. Supreme Court decision that found the Lakes Tribe to hold Aboriginal rights within Canada.

The public was consulted throughout the environmental assessment process, which included holding four open houses with approximately 34 attendees and two public comment periods with five comments submitted. Following each public comment period, the EAO required BC Hydro to provide responses to key public issues and a report on how BC Hydro was addressing public concerns.

According to BC Hydro, construction of the generating station and capacitor station is expected to create 472 person years of direct employment for B.C. residents, with 403 person years of employment expected to come directly from the Revelstoke area over the 40-month construction period.

British Columbia's environmental assessment process offers significant opportunities for Indigenous groups, government agencies and the public to influence the outcome of environmental assessments by providing input on the potential for environmental, economic, social, heritage and health effects from a proposed project.

Learn More:

For more information on the environmental assessment process, visit: www.gov.bc.ca/eao

CANADIAN ENVIRONMENT MINISTERS AIM FOR ZERO PLASTIC WASTE

Ottawa, ON – November 23, 2018 – Today, federal, provincial and territorial environment ministers agreed to work collectively toward a common goal of zero plastic waste. To this end, they approved in principle a [Canada-wide strategy on zero plastic waste](#), which outlines a vision to keep all plastics in the economy and out of the environment.



“Plastics play an important role in our economy and in the daily lives of Canadians, but over 89% end up in landfill or the environment,” said Catherine McKenna, federal Minister of Environment and Climate Change Canada, who hosted her colleagues via teleconference. “This strategy aims to contribute to changing that and stimulate innovation in plastics. Canadians want action now to address plastic pollution and waste.”

The strategy aligns with the Ocean Plastics Charter—a key outcome of Canada's G7 Presidency—and was developed with input from industry, non-governmental organizations and Canadians. It outlines areas where changes are needed across the plastic lifecycle, from design to collection, clean-up and value recovery, and underscores the economic and business opportunities resulting from long-lasting and durable plastics.

“We all have a role to play in eliminating plastic waste. Canadians want to do more. We want to come up with new solutions and we want to change how we use plastics,” said Margaret Miller, Nova Scotia Minister of Environment and incoming CCME President. “This strategy recognizes the role we all must play to encourage new solutions.”

Ministers recognized the importance plastics continue to play in the economy and of supporting innovation for more sustainable solutions and technologies in waste management. Zero plastic waste does not mean eliminating the use of plastic products. Instead, the strategy calls for actions that lead to the prevention of plastic waste, as well as improved collection and cleanup. This would result in greater capacity to recover plastics' value and keep them in the economy and out of our oceans, lakes, including the Great Lakes, and other waterways and the natural environment. Protecting our terrestrial and aquatic environment from plastic pollution is imperative for the health of freshwater ecosystems, and is also important as the water and litter flow directly into oceans.

Ministers directed officials to develop an action plan that sets out the measures and actions needed to implement the strategy for their consideration at the 2019 ministers meeting. The plan will be developed in collaboration with stakeholders from across the plastics value chain and with a range of other interested parties. It will be implemented within the jurisdictional authority of each order of government and recognize the shared responsibility between jurisdictions for preventing plastic waste, providing for flexibility for jurisdictions to implement actions that meet their unique individual needs. The plan will also recognize the roles of industry, communities and consumers, and will support the innovation and behavioural changes that are also required.

Today ministers endorsed a [Canada-wide aspirational waste reduction goal](#), meant to encourage and highlight waste reduction progress in Canada. In 2014, each Canadian threw away an average of 706 kg of all types of waste (as per Statistics Canada). The Canada-wide target is to reduce this number to 490 kg per person (a 30% reduction) by 2030, and to 350 kg per person (a 50% reduction) by 2040.

This Canada-wide aspirational waste reduction goal does not set a specific jurisdiction-by-jurisdiction target. It will complement waste reduction efforts within each jurisdiction. Canada is on its way to meeting the 2030 goal, as some jurisdictions have adopted ambitious policies and programs to prevent and divert major waste streams such as organics and packaging. Meeting the aspirational goal will require significant effort and investment to support end-markets for waste, a transformational shift in culture and behavior, and the need to address unique challenges in some geographic areas and sectors.

Today ministers also approved in principle a Memorandum of Understanding (MOU) for Mutual Aid for Environmental Emergencies. The MOU enhances the ability of jurisdictions to respond to environmental emergencies by facilitating the voluntary provision of aid across jurisdictional boundaries, including, but not limited to personnel, equipment, and expertise. It will strengthen cooperation between participating parties in order to minimize environmental impacts. The MOU will come into force when it is approved and signed by governments through their own procedures.

Ministers discussed the importance of ensuring that the implementation of proposed changes to how major projects are assessed respect provincial and federal jurisdiction and strive for “one project, one assessment.” Ministers agreed that continued collaboration and meaningful engagement was important, including on supporting regulations and policies, to ensure that good projects go forward in a clear, timely and transparent process.

Finally, ministers were provided with an update on the collaborative work by jurisdictions on international mitigation and received the report and recommendations on guidance for greenhouse gas offset design elements, contributing to a potential future voluntary pan-Canadian offsets framework that jurisdictions may apply as appropriate to their programs.

Moving forward, Nova Scotia has assumed the presidency of CCME and will host the 2019 CCME meeting in Halifax.

About CCME CCME is the primary minister-led intergovernmental forum for collective action on environmental issues of national and international concern. CCME is comprised of the environment ministers from the federal, provincial, and territorial governments. It was founded in 1964. www.ccme.ca

ESAA Member News

AUPRF Call for Applications

The Alberta Upstream Petroleum Research Fund (AUPRF) is seeking applications for the 2019 funding cycle for projects that are of focused interest to industry. The priority focus areas include: Ecological, Remediation and Reclamation and Well Abandonment knowledge gaps. Please note the Air and Water technical knowledge gaps will be issued in January.

The AUPRF Program supports practical science-based studies that develop credible and relevant information to address knowledge gaps in the understanding and management of high priority environmental and social matters related to conventional oil and gas exploration and development in Alberta. Research results are shared with the oil and gas industry as well as regulators, government agencies, and other stakeholders.

The AUPRF application process utilizes a staged approach. Interested applicants should submit a Letter of Intent (LOI) no later than January 4th, 2019. Please note that selected applicants will be asked to submit a more detailed proposal in early February with a proposal deadline of early March 2019. Selected projects to proceed will be announced between February and June 2019.

- Soil and Groundwater - Ecological -

APPLICATION PROCESS

Step 1 – [Letter of Intent \(LOI\)](#)

This application process is a staged approach. The intent of the LOI is to provide a high-level overview of the project in non-technical terms. This is a short online application, please do not submit any confidential information. Note that a typical award amount ranges from \$5,000 to \$200,000 CDN.

Step 2

Successful applicants will be asked to submit a detailed proposal.

For more information or if you have questions please contact:

Lorie Mayes

Environmental Research Coordinator

403-218-7707

lmayes@ptac.org

NSERC FUNDING OPPORTUNITY

Researchers who are NSERC-eligible and who wish to apply to AUPRF and NSERC for matching project funding must complete both the AUPRF application and NSERC Collaborative Research and Development application. The following is a link to NSERC website: http://www.nserc-crsng.gc.ca/Professors-Professeurs/RPP-PP/CRD-RDC_eng.asp
For more information on NSERC Funding opportunities please contact: rpp@nserc-crsng.gc.ca

Upcoming Events

SCIENCE AND TECHNOLOGY TALKS 2019

CALGARY • JANUARY 25TH, 2019 | EDMONTON • FEBRUARY 6TH, 2019

AGAT Laboratories' **Science and Technology Talks 2019** offer the opportunity for industry professionals to join together to learn and discuss relevant topics in the Energy, Environmental, Industrial and Health and Safety Sectors. Additionally, it offers an opportunity to present their unique challenges and questions to our industry leaders from a variety of backgrounds such as governmental, laboratory, energy and environmental consulting professions. Calgary/Edmonton - FULL DAY Seminar registration opens at 7:15 AM on each day and will include a number of presentations, breakfast, lunch and networking breaks throughout the day. Registration deadline is January 18th (Calgary) and February 1st (Edmonton), and delegate passes are \$175.00 (includes GST). Lloydminster/Grande Prairie - Information Coming Soon.

WHO SHOULD ATTEND

This event is highly recommended for all industry professionals who have an interest in environmental, energy, and health and safety. This includes, engineers, producers, operators, environmental managers, environmental consulting firms, property developers, governmental/regulatory bodies, engineering firms and more.

PRESENTATIONS INCLUDE

- **End of Life Abandonment and Reclamation in the Upstream Oil and Gas Sector - The Redwater Decision / Status and Implications of Bill C-69 - An Act to Enact the Impact Assessment Act and the Canadian Energy Regulator Act, to Amend the Navigation Protection Act**, Ken Lenz, Partner, and Brad Gilmour, Partner, Bennet Jones LLP
- **Update on Liability Initiatives**, Robert Wadsworth, Vice President, Closure & Liability, Alberta Energy Regulator
- **Update from the Orphan Well Association**, Lars De Pauw, M.Sc., P.Eng., Executive Director, Orphan Well Association
- **Area-Based Closure**, Bryan Yu, P.Eng., Staff Well Abandonment Engineer, Husky Energy
- **Hydrovac Material Management**, Dalene Meier, Environment Technical Specialist, Alberta Energy Regulator
- **Augmenting Traditional Analysis of Plume Chemistry with Advanced Geostatistics**, John Banks, P.Chem., Principal Chemist, and Parker J. Banks, [B.A.Sc.](#), SWAT Consulting Inc.
- **Considerations in a Changing Climate**, Lisa Neville, Ph.D., Director, Technical Sciences., AGAT Laboratories
- **Analytical Decision Trees: An Adaptive Management Approach to Analytical Testing for the Identification and Delineation of an Oil Spill**, Tara Murfitt, P.Geo., Hydrogeologist, and Shaun Toner, Senior Aquatic Biologist, Marix Solutions Inc.
- **Wetland Policy Field Perspective**, Kristen Andersersen, PWS., P.Biol., CPESC., Senior Environmental Scientist, Associated Environmental Consultants Inc.
- **Interpretation is More than Tabulation**, Court Sandau, PhD, P.Chem, Principal, Chemistry Matters and Tom Knapik, P.Eng., Manager, Environment, Plain Midstream Canada

- **Alberta Environment and Parks Regulatory Update**, Gordon Dinwoodie, Land Reclamation Specialist, Alberta Environment and Parks

For the complete event schedule, and to register, visit: www.agatlabs.com/seminars/techtalks-2019.cfm

AGAT Laboratories

ENVIRONMENTAL FORENSICS SYMPOSIUM

Calgary, Alberta
Environmental Stream
January 24th, 2019
7:30 a.m. - 3:05 p.m.
Fairmont Palliser
133 - 9th Avenue SW

SYMPOSIUM OVERVIEW

AGAT Laboratories' **Environmental Forensics Symposium** offers the opportunity for industry professionals to join together to learn and discuss relevant topics in the Energy, Environmental, Industrial and Health and Safety Sectors. Additionally, it offers an opportunity to present their unique challenges and questions to our industry leaders from a variety of backgrounds such as governmental, laboratory, energy and environmental consulting professions.

FULL DAY Symposium registration opens at 7:30 AM on January 24th and will include a number of presentations, breakfast, lunch and networking breaks throughout the day. Registration deadline is January 22nd, and delegate passes are \$125.00 (includes GST).

WHO SHOULD ATTEND

This event is highly recommended for all industry professionals who have an interest in environmental, energy, and health and safety. This includes, engineers, producers, operators, environmental managers, environmental consulting firms, property developers, governmental/regulatory bodies, engineering firms and more.

January 24th - Calgary

- **Recent Trends in Environmental Prosecutions**, Brad Gilmour, Partner, Bennett Jones LLP
- **New AEP and AER Regulatory Requirements When Using the BIC Scale for Site Closures in Alberta**, Francine Kelly-Hooper, Ph.D., Environmental Contaminant Scientist, Stantec, and Gordon Dinwoodie, P.Ag., Reclamation Policy Specialist, Alberta Environment and Parks
- **Two-Dimensional Gas Chromatography Analytical Methods for Environmental Sampling Canada**, Matthew Endsin, M.Sc., Forensic Science, AGAT Laboratories
- **Environmental Forensics of Persistent Organic Pollutants: Source & Age Dating**, Gwen O'Sullivan, Ph.D., Associate Professor, Mount Royal University
- **Applications of Conventional and Comprehensive Two-Dimensional Gas Chromatography in Oil Spill Forensics**, Jagos R. Radovic., Owner/Manager, Avantise Consulting
- **A Review of Oil Spill Forensics with Personal Experiences**, Merv Fingas, Ph.D., Scientist, Spill Science
- **Environmental Forensics Case Studies Using Reliable Chemistry and Big Data**, Court Sandau, PhD, P.Chem, Principal, Chemistry Matters
- **Ask The Expert: Open round Table Discussion with Panel**

[**CLICK HERE TO REGISTER**](#)



CLRA Alberta Chapter Lunch and Learn Series presents

Application of GC x GC Analytical Packages to Environmental Petroleum Forensics

Edmonton, AB, December 12

Speaker(s): Matthew Endsin, M. Sc., Manager, Forensic Science, AGAT Laboratories

Doors Open: 11:15 am

Lunch: 11:45 am

Presentation: 12:15 pm - 1:15 pm

For more details or to register, visit:

<https://clra.member365.com/public/event/details/02701b2110ae3bac9ca62d5fe57d13d21a207b80/1>

Industry Positions Openings

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

Environmental Professional

Term: Full-Time

Number of Positions: 1

Application Deadline: December 8, 2018

Job Location: Calgary



Dillon is a well-established, employee-owned professional consulting firm operating across Canada and internationally. We provide a wide range of consulting and design services related to the infrastructure, real estate, resource, industrial and government sectors in Canada and abroad.

We are currently seeking candidates for the position of Intermediate **Environmental Professional** in our **Calgary, Alberta office**.

Responsibilities:

- Coordinate contaminated sites projects in Western Canada, including: Phase I, II & III ESAs, hydrogeological investigations, soil and groundwater sampling programs, surface water and sediment sampling programs, soil vapour sampling, and contaminated site remediation projects.
- Assist with Requests for Proposal related to contaminated sites work.
- Prepare health and safety plans for field projects, coordinate field programs, prepare project contracts/agreements, complete sub-contractor selection and organize/manage field teams.
- Coordinate, manage and build business relationships with service providers (e.g., laboratories, sub-contractor) and third-party stakeholders.
- Understand environmental regulations related to contaminated sites and waste management work in Alberta.
- Contribute to the design of sampling programs for the collection of soil, groundwater, surface water and sediments.

- Complete reporting requirements (database updates, , borehole logs, summary tables, groundwater contour plots and figures.
- Work with technical teams on site remediation options and/or contaminant site management options.
- Actively participate in the career development of junior field staff including providing technical direction, training recommendations, coaching and mentoring
- Contribute to Dillon's corporate profile through active participation in professional associations and committees.
- Business travel and field work may be required.

Qualifications:

- Committed to a culture of quality including a keen attention to detail.
- Strong geoscience field based experience and commitment to health and safety.
- Exposure and understanding of Alberta Environment and Parks regulatory framework for contaminated sites.
- Strong interpersonal, oral and written communication, and organizational skills.
- Demonstrated capabilities in multidisciplinary teamwork as well as the ability to work independently.
- Problem solving and critical thinking skills.
- A degree in geology, civil or environmental engineering, hydrogeology, or another relevant environmental science or engineering discipline.
- Licensed or eligible for licensure within two years to practice as an environmental professional as recognized by Alberta Environment and Parks.
- Recognized technical leadership
- Valid Driver's License

Experience:

- More than four years of experience in the geosciences (consulting or related industrial experience)
- Experience on projects in remote and urban locations
- Technical exposure to several of the following: geology, hydrogeology, field procedures, environmental chemistry, contracting/construction, geotechnical concerns, environmental and remediation engineering, site characterization, waste management, landfill monitoring, and health and safety.
- Experience working around heavy equipment, including drill rigs and excavators
- Ground disturbance training would be consider an asset
- Strong working knowledge of the Microsoft Office family of products
- Proficiency in several of the following: CAD, GIS, Surfer, GINT, ESdat or database abilities will be considered an asset

Dillon offers competitive salaries, health benefits and a generous retirement savings plan.

How to Apply:

Please reply providing a resume of education and experience to:

Recruitment Manager
 Dillon Consulting Limited
 800-235 Yorkland Blvd.,
 Toronto, ON, M2J 4Y8
 Fax: 416-229-4692
careers@dillon.ca

Senior Remediation Specialist



Term: Full-Time

Number of Positions: 1

Application Deadline: December 29, 2018

Job Location: Alberta

SLR is a leading global consulting firm providing environmental and advisory solutions. We provide our clients with advice and support from a network of dynamic, responsive and fast growing offices in North America, Europe, Asia-Pacific, Australia and Africa. SLR teams provide consulting and advisory services to various sectors including oil & gas, industry, infrastructure, mining & minerals, power, and planning & development. For a complete list of services provided please visit <https://slrconsulting.com/na/services>

SLR provides challenging and rewarding opportunities for personal and professional growth and wants to attract and retain the best people in our industry. If your ambition is to join a growing company with an exciting future that will help you shape and realize your ambitions, we want to hear from you.

Whether you are an industry professional or a recent graduate, SLR provides a healthy and dynamic work environment, challenging career opportunities, and competitive compensation and benefits packages.

For exciting opportunities, please visit: <https://slrcanada.applicantpro.com/jobs/>

Role:

Senior Remediation Specialist

SLR has an immediate requirement for a highly motivated individual with excellent technical and client service skills to join our operations in Alberta (Calgary, Edmonton, or Grande Prairie).

The primary function of the role will be to serve as the regional technical leader in the assessment and remediation of complex contaminated sites (unique project challenges/constraints or a variety of contaminants). Depending on the candidate's qualifications, they will provide direct technical support on impact delineation, remedial options analysis, remedial system/program design and implementation, and risk assessment and management. The successful individual will focus on the development of these services to Alberta and Saskatchewan Upstream Oil and Gas based clients, but the role could include the potential for managing projects, business development and other staff. Some travel may be required.

Preference will be given to applicants with significant remediation experience in the upstream oil and gas industry.

Responsibilities:

- Senior assessment and remediation guidance to team members.
- Management of projects or scopes of work, preparation and senior review of technical reports.
- Liaison with clients, subcontractors and regulatory agencies
- Support proposal development to achieve business development and financial goals.

Technical Skills / Abilities / Experience:

- Minimum 15 years of experience in environmental consulting, including significant remediation and site assessment experience in the upstream oil and gas industry, with at least 10 recent years based in Alberta or Saskatchewan
- Demonstrated environmental assessment and remediation experience (i.e. salinity impacts, hydrocarbons, NAPL, and metals).
- Experience with various remedial techniques including excavation, in-situ treatment (permeable reactive barriers, VES, IAS, VEMPE systems, Chemox), NAPL management and recovery, ex-situ treatment, risk management and risk assessment, particularly in the upstream oil and gas industry.
- Solid, current working knowledge of provincial, local and industry specific regulations and guidelines, particularly in the upstream oil and gas industry

- Excellent leadership, technical writing and strong verbal presentation skills are essential.
- Familiar with reviewing or writing construction contracts/tenders or can produce design drawings.

Education / Qualifications / Memberships:

- Engineering, geoscience or environmental science degree.
- Professional status or eligibility for professional status in Alberta and Saskatchewan; credentials in other provinces an asset.
- Experience in the use of the Subsoil Salinity Tool (SST).

Personal Attributes:

- Excellent communication and interpersonal skills.
- Ability to work with, supervise and direct employees and contractors.
- Strong attention to detail and accuracy, commitment to technical excellence, client care and safe work practices.
- Strong leadership abilities.
- Reliable, hardworking and committed to succeed.
- Team player.

How to Apply:

Please email your application and resume to canadacareers@slrconsulting.com

Please indicate that you are applying to competition number 221133 in your application.

Example: Subject: 221133 – Senior Remediation Specialist

Intermediate Environmental Scientist / Engineer / Technologist

Term: Full-Time

Number of Positions: 1

Application Deadline: December 29, 2018



SLR is a leading global consulting firm providing environmental and advisory solutions. We provide our clients with advice and support from a network of dynamic, responsive and fast growing offices in North America, Europe, Asia-Pacific, Australia and Africa. SLR teams provide consulting and advisory services to various sectors including oil & gas, industry, infrastructure, mining & minerals, power, and planning & development. For a complete list of services provided please visit <https://slrconsulting.com/na/services>

SLR provides challenging and rewarding opportunities for personal and professional growth and wants to attract and retain the best people in our industry. If your ambition is to join a growing company with an exciting future that will help you shape and realize your ambitions, we want to hear from you.

Whether you are an industry professional or a recent graduate, SLR provides a healthy and dynamic work environment, challenging career opportunities, and competitive compensation and benefits packages.

For exciting opportunities, please visit: <https://slrcanada.applicantpro.com/jobs/>

Role:

SLR has an immediate opportunity for an Intermediate Environmental Engineer / Scientist / Technologist in our growing Grande Prairie, AB office.

We are looking for a highly-organized individual to perform a variety of duties in a fast paced, deadline-driven environment.

Responsibilities:

- Participation in a team environment, working closely with Project Managers and co-workers to complete work programs
- Completion of field programs safely and as directed, including soil sampling, groundwater sampling and monitoring, soil vapour sampling, and site reconnaissance
- Project coordination including scheduling, budgeting, invoicing, client liaison, and working with subcontractors

Technical Skills / Abilities / Experience:

- Minimum two years of experience in contaminated site assessment including preliminary and detail environmental site assessments, soil and groundwater sampling, and remediation programs
- Demonstrated proficiency in fieldwork supervision and effective delegation and oversight of project tasks
- Excellent written and verbal communication skills are essential with demonstrated skill in technical report writing
- Knowledge and practical application of health & safety requirements unique to subsurface investigations and contaminated sites
- Willingness and ability to travel and conduct fieldwork
- Ability to work alone in remote locations and adapt to conditions/resources

Education/Qualifications/Memberships:

- Degree or diploma in environmental engineering (e.g., environmental, geological, civil), science, hydrogeology or geology.
- Professional status or eligibility for professional status with a professional organization (i.e. P.Eng, P.Geo, P.Ag, R.P.Bio, C.E.T., A.Sc.T).
- Valid driver's license

Personal Attributes:

- Excellent communication and interpersonal skills
- Optimistic and positive attitude
- Excellent organizational and prioritization skills
- Cooperative spirit with colleagues and management

How to Apply:

Please send all applications to canadacareers@slrconsulting.com and reference competition number 2211111 in your application.

Example:Subject: 2211111 – Intermediate Environmental Scientist / Engineer / Technologist

***INTERMEDIATE ENVIRONMENTAL PROJECT MANAGERS –
Edmonton and Calgary***

Term: Full-Time

Number of Positions: 2

Application Deadline: December 19, 2018

Job Location: Calgary & Edmonton



Terralogix Solutions Inc., an environmental consulting organization, is recruiting Environmental Project Managers for our Edmonton and Calgary, AB locations. The successful candidates will be involved in various aspects of a variety of projects and will participate in both office and on site field work. The amount of field work will depend on the candidates various skill sets.

Qualifications:

- Bachelor of Science degree or Masters of Science Degree in Environmental Science, Environmental Engineering or other relevant Environmental Program along with 3 plus years of experience
- Experience with environmental site assessments, soil sampling, groundwater monitoring, site remediation and reclamation
- Registration with a professional organization as either a professional or in-training
- Possess strong interpersonal skills, communication skills and technical writing skills and be able to work as a member of a multi-disciplinary team and independently.

Duties and Responsibilities:

- Conducting Phase I Environmental Site Assessments (ESA) and associated reporting
- Planning and conducting Phase II ESAs, including:
 - drilling and soil sampling activities
 - conducting groundwater monitoring and sampling programs
 - interpreting analytical laboratory results
 - analyzing and interpreting collected environmental data and writing technical reports
 - contractor management and cost tracking
- Assist with the design and implementation of remediation systems
- Planning and completion of reclamation activities
- Coordinate and complete vegetation management activities
- Reclamation Application and Onestop processes
- Comply with Health and Safety policies and principles

Compensation:

- Competitive Hourly and Overtime wage
- Competitive Benefit Package

Application Details: To apply for these positions, 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.

**SENIOR ENVIRONMENTAL CONSULTANT – PROGRAM MANAGER –
CALGARY**

Term: Full-Time

Number of Positions: 1

Application Deadline: December 19, 2018

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 Senior Environmental Consultant as a Program Manager in our Calgary office.

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

Reporting to the Calgary Operations Managers, the Program Manager will:

- Coordinate, oversee and provide mentorship of junior to intermediate staff with respect to the completion of field work and reports for Pre-Disturbance Assessments, Detailed Site Assessments, Soil and Groundwater Monitoring Programs, Phase I, II and III ESAs for the oil & gas industry and commercial property transactions. Minimal field work maybe required for specialty projects, safety audits and staff training.
- Prepare and submit Reclamation Certificate Applications.
- Budget development for annual reclamation and remediation programs, tracking of project status and cost control for clients.
- Review contractor invoices.
- 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 5 years of experience. In addition, candidate should have applicable professional designation. Candidates who are not designated, but who are eligible, will also be considered.
- Competent in the field components of soil and vegetation assessments as well as reclamation procedures within the Oil and Gas Industry.
- 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 and CCME guidelines.
- 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.

Application Details: Please submit resumes by E-mail to resumes@terralogix.ca

