

CI Energy Group's

# Cumulative Effects ASSESSMENT & MANAGEMENT

*Ensure Compliance. Build Consensus. Strengthen Your Social License to Operate.*

Hear from a distinguished faculty of industry, government and Aboriginal experts from:

Alberta Environmental Monitoring Evaluation  
& Reporting Agency (AEMERA)

ENMAX

Alberta Ministry of Environment and Sustainable  
Resource Development

Fort McKay First Nation

Cumulative Environmental Management Association  
(CEMA)

Devon Canada Corporation

Stantec

Total E&P

- Benchmark with industry leaders as they share **case studies on wildlife monitoring programs, reclamation, airshed management plans** and much more
- Explore ways to **ensure effective engagement and collaboration** between all stakeholders involved
- Gain new insights from a wide array of perspectives as they discuss — and debate — **the future of cumulative effects management**
- Hear about the **progress made on Alberta's Land-Use Framework**, including timelines, targets and implementation plans

**PLUS! Enhance your learning by attending in-depth interactive workshops on:**

- A** Integrated Modeling for Cumulative Environmental Management & Planning
- B** An In-Depth Guide to Site Remediation and Restoration

Partner:



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# ENSURE COMPLIANCE. BUILD CONSENSUS. STRENGTHEN YOUR SOCIAL LICENSE TO OPERATE.

Pressure is mounting to manage the cumulative effects of resource projects. Indeed, there is growing awareness from project stakeholders that an integrated, comprehensive cumulative effects assessment process is needed to balance the social, economic and environmental impacts of project development.

Looking ahead, collaborative processes are instrumental for tackling cumulative effects. Conflicting priorities of industry, land-owners, government, Aboriginal communities and other stakeholders must be managed collectively and with a view to consensus-building in order to be successful. Cumulative effects assessments, if managed effectively, hold the potential to establish such a balance.

Along with offering important regulatory updates and a heightened understanding of evolving environmental monitoring requirements and practices, *CI Energy Group's Cumulative Effects Assessment and Management Conference* will provide a forum to encourage collaboration and dialogue surrounding the future of cumulative effects management.

- What progress has been made in Alberta's Land-Use Framework and how will it impact project development as the framework advances?
- Predicting the incremental consequences of a project — what are current best practices?
- What are industry leaders doing to create an effective reclamation strategy and plan?
- How can you ensure that all key stakeholders are on the same page early and collaborating to manage cumulative effects?

Join a diverse Faculty of Speakers including representatives from the **Government of Alberta, Fort McKay First Nation, Devon Canada, Total E&P, ENMAX, Stantec, the University of Saskatchewan** and many more for an in-depth look at all facets of cumulative effects management, including assessments, mitigation, monitoring and public engagement.

We look forward to seeing you in November!

CI Energy Group



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## Distinguished Faculty

**Germaine Conacher**  
Consultation Manager  
Calliou Group

**Cornel Yarmoloy**  
Project Manager  
Golder Associates Ltd.

**Ray Makowecki**  
Principal  
EnviroMak Inc.

**Lisa Marie Fox**  
Policy Analyst and Founder  
Sustainability Resources Ltd.

**Richard C. Secord**  
Partner  
Ackroyd LLP

**George Hegmann**  
Principal, Environmental Management  
Stantec

**Jennifer McKillop**  
Executive Director, Landscape  
Stewardship Branch  
Saskatchewan Ministry of Environment

**David Lawlor**  
Director, Environment Health  
and Safety (EHS) Policy  
ENMAX Corporation

**Confirmed Representative**  
BC Ministry of Forests, Lands and  
Natural Resource Operations

**Robert Mugo**  
Environment Manager  
Total E&P Canada Ltd.

**Dr. Bram Noble**  
Professor  
University of Saskatchewan

**Scott Milligan**  
Executive Director  
Land-use Framework Regional  
Planning Branch  
Alberta Ministry of Environment and  
Sustainable Resource Development

**Chris Powter**  
Executive Director  
Oil Sands Research  
and Information Network  
University of Alberta

**Amit Saxena**  
Supervisor –  
Biodiversity & Land Stewardship  
Devon Canada Corporation

**Glen Semenchuk**  
Executive Director  
Cumulative Effects Management  
Association

**Dr. Lorne Taylor**  
Chairman  
Alberta Environmental Monitoring  
Evaluation & Reporting Agency  
(AEMERA)

**Wayne Thorp**  
Independent Renewables &  
Environmental Professional  
Alberta/BC Regional Working  
Group Coordinator  
The Canadian Boreal Forest Agreement

## Who You Will Meet

Network and build relationships with a broad range of senior executives and management responsible for:

- Environmental impact assessments
- Environmental regulatory compliance
- Land management
- Resource development
- Project approvals and development
- Sustainability program management
- Stakeholder relations and community engagement
- Project approvals
- Air, water, land, and biodiversity research and policy
- Government relations and regulatory affairs

From Industry sectors including:

- Exploration and Production Companies
- Pipeline and Midstream Companies
- Gas Processors
- Oil Refineries and Upgraders
- Oil Sands Operators and Developers
- Mining
- Forestry, Pulp and Paper
- Aboriginal Communities
- Engineering and Environmental Service Firms
- Government and Regulatory Bodies
- Law Firms with environmental practices
- Resource sector industry associations

## Sponsorship & Exhibition Opportunities



### Daniel Gellman

Director of Business Development

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## Day 1 – Tuesday, November 18, 2014

8:00 Registration Opens and Coffee Served

9:00 **Opening Remarks from Conference Co-Chair**

### Cumulative Effects Defined

**George Hegmann**  
Principal, Environmental Services  
Stantec

## STRATEGY & FUTURE

9:20 **Hear Directly from the Newly Operational Alberta Environmental Monitoring, Evaluation & Reporting Agency (AEMERA)**

**Dr. Lorne Taylor**  
Chairman  
Alberta Environmental Monitoring Evaluation & Reporting Agency (AEMERA)

*The Alberta Environmental Monitoring, Evaluation and Reporting Agency (AEMERA) is the provincial organization established to monitor, evaluate and report on key air, water, land and biodiversity indicators to better inform decision-making by policy makers, regulators, planners, researchers, communities, industries and the public.*

- An in-depth overview of AEMERA's mandate, vision, strategy and structure
- How does AEMERA function in relation to other government bodies?
- Will the environmental monitoring process change under AEMERA?

10:00 **Progress Made on Alberta's Land-Use Framework — Examining Timelines, Targets and Implementation Plans**

**Scott Milligan**  
Executive Director  
Land-use Framework Regional Planning Branch  
Alberta Ministry of Environment and Sustainable Resource Development

- Key updates on the North Saskatchewan Regional Plan, South Saskatchewan Region and Lower Athabasca Regional Plan
- Examining timelines and targets for the implementation of all regional plans
- Effects to overcome the challenges of developing a framework that reconciles competing objectives
- How will regional land-use plans work in tandem with other government initiatives, such as the new Consultation Office?

10:45 **Networking Coffee Break**

11:00 **A Critical Update on the Latest Case Law Impacting Cumulative Effects**

**Richard C. Secord**  
Partner  
Ackroyd LLP

- How are "cumulative effects" being defined within the context of current litigation?
- How do the courts assess cumulative effects of past, present and future actions?
- A review of current court cases and how their outcomes could impact your project

11:45 **Networking Luncheon for Speakers and Delegates**

## ASSESSMENTS

1:00 **Looking into the Past, Present and Future — Defining the Scope, Thresholds and Time Horizons of Cumulative Effects**

**Cornel Yarmoloy**  
Project Manager  
Golder Associates Ltd.

- Clarifying the time horizons of a cumulative effects assessment: How far do you have to look back? How far do you look ahead?
- Exploring leading practices for cumulative effects modeling
- Identifying past, current and future projects to include in analysis and scenarios
- Understanding how thresholds impact the approval of a plan or project

1:45 **Ensuring Parties are on the Same Page Early — Effective Stakeholder Engagement and Collaboration on Managing Cumulative Effects**

**Daniel Stuckless (tentatively confirmed)**  
Manager, Environment & Regulatory  
Fort McKay First Nation

- Understanding how stakeholders, government and industry share responsibility for engagement
- Why your social license to operate is crucial to project success and how CEAM can strengthen it
- Championing capacity building to strengthen your cumulative effects management program

2:30 **Networking Coffee Break**

2:45 **Examining How to Incorporate Traditional Knowledge and Land Use Studies in Consultation and Environmental Impact Assessments**

**Germaine Conacher**  
Consultation Manager  
Calliou Group

- An overview of successful Traditional Knowledge collection methodology
- Analysis of ways for including Traditional Knowledge and Traditional Land Use Studies in Environmental Impact Assessments
- Developing a framework for including traditional knowledge and traditional land use studies in Environmental Impact Assessments and other regulatory processes

3:30 **A Comparative Study of Cumulative Effects — Multi-Provincial Perspectives and Policies**

**Jennifer McKillop**  
Executive Director, Landscape Stewardship Branch  
Saskatchewan Ministry of Environment

**Confirmed Representative**  
BC Ministry of Forests, Lands and Natural Resource Operations

**Scott Milligan**  
Executive Director  
Land-use Framework Regional Planning Branch  
Alberta Ministry of Environment and Sustainable Resource Development

- Latest regulatory updates from Alberta: what are the main challenges impacting cumulative effects assessment and management
- Examining Saskatchewan's regulatory framework: how is Saskatchewan expanding environmental monitoring into a Results-Based Regulatory Model and Environmental Code?
- An update on cumulative effects management from BC, including:
  - How does BC work toward reaching consensus across multiple stakeholders that have to participate in the planning process?

4:45 **Closing Remarks from Conference Chair  
Conference Adjourns**

KEYNOTE



8:30 **Coffee Served**

9:00 **Opening Remarks from Conference Co-Chair**

**Glen Semenchuk**  
Executive Director  
Cumulative Effects Management Association

## PUBLIC PARTICIPATION

9:15 **How First Nations, Government and Industry Can Act as Partners to Measure and Monitor Cumulative Effects — Recommendations from the Cumulative Environmental Management Association (CEMA)**

**Glen Semenchuk**  
Executive Director  
Cumulative Effects Management Association

- An in-depth overview of recommendations and cumulative effects framework proposed by CEMA
- Leading approaches for reaching out to stakeholder groups for input
- Realizing the importance of engaging early
- Exploring ways to broaden environmental studies to include traditional land-use

10:00 **Accommodating Multiple Users and Managing Overlapping Tenures — How to Coordinate and Communicate Your Way to Meaningful Agreements**

**Wayne Thorp**  
Independent Renewables & Environmental Professional  
Alberta/BC Regional Working Group Coordinator  
The Canadian Boreal Forest Agreement

- Conducting effective due diligence to gain knowledge of other land-use plans and tenures
- Best practices for reducing conflict between parties
- Ensuring proactive communication between parties while being mindful of proprietary issues

10:45 **Networking Coffee Break**

## MITIGATION

11:00 **Mitigating Adverse Cumulative Effects — Progressive, Interim and Final Reclamation of Disturbed Areas**

- Exploring the benefits of acting in concert with other companies and/or government to minimize cumulative effects
- Creating an effective reclamation strategy and plan: defining objectives, contingency plans and project schedule
- Forming an effective reclamation working group with key stakeholders to ensure mutual objectives are met

11:45 **Devon Energy's Award-Winning Wildlife Mitigation and Monitoring Program**

**Amit Saxena**  
Supervisor – Biodiversity & Land Stewardship  
Devon Canada Corporation

- Ensuring your program is inclusive — collaborating with stakeholders to enhance the quality of your assessments
- An overview of the key components necessary for a successful monitoring program
- Wildlife inventory techniques for remote areas and hard-to-detect species
- Choosing measurable — and meaningful — indicators to evaluate performance

12:30 **Networking Luncheon for Speakers and Delegates**

## MONITORING

1:30 **An A-Z Guide to Environmental Monitoring: Assessing and Managing Cumulative Effects for Air, Water, Land and Biodiversity — Latest Advancements and Leading Practices from the Ground Up**

**Ray Makowecki**  
Principal  
EnviroMak Inc.

- Choosing measurable and meaningful indicators to evaluate performance
- Departing from conventional assessment methodologies — outlining novel ways to measure cumulative effects
- Ways to document predicted changes from the proposed activity combined with other activities that could be reasonably anticipated
- Designing mitigation strategies to remedy or prevent adverse impacts and to ensure compliance

2:15 **Effective Air Emission and Airshed Management: Collaboration with Regulators and Non-Governmental Organization**

**David Lawlor**  
Director, Environment Health and Safety (EHS) Policy  
ENMAX Corporation

- How to manage air quality in partnership with regulators, industry requirements and non-governmental organization — power generation perspective
- Effectively managing multi-stakeholder input by consensus
  - Identifying key stakeholders needed at the table in an evolving monitoring environment
- Key emissions policy — both federal and provincial
- Effective methods for estimating emission and considering cumulative effects — from a regional perspective

3:00 **Networking Coffee Break**

3:15 **Multi-Stakeholder Perspectives on the Future of Cumulative Effects Assessment and Management**

**Robert Mugo**  
Environment Manager  
Total E&P Canada Ltd.

**Lisa Marie Fox**  
Policy Analyst and Founder  
Sustainability Resources Ltd.

**George Hegmann**  
Principal, Environmental Management  
Stantec

**Dr. Bram Noble**  
Professor  
University of Saskatchewan

**Chris Powter**  
Executive Director  
Oil Sands Research and Information Network  
University of Alberta

- What is the current state of cumulative effects management? Are companies executing cumulative effects assessments properly?
- Who owns cumulative effects? Who *should* be responsible for CEAM and why?
- What are some alternatives to cumulative effects assessments?
- How do cumulative effects influence what projects move forward?
- What are some of the challenges involved in reconciling science with policy — and politics? Can the two be reconciled?
- Who needs to come to the table in order for cumulative effects to be effective?

4:30 **Closing Remarks from Co-Chair  
Conference Concludes**

KEYNOTE

CASE STUDY

THOUGHT-LEADER'S ROUNDTABLE



# Pre-Conference Workshops – Monday, November 17, 2014

## Workshop A

9:00 am – 12:00 pm (Registration Opens at 8:30 am)

### Integrated Modeling for Cumulative Environmental Management & Planning

Moving from a conceptual framework to real cumulative effects assessments requires an agreement on a basic modeling approach. This interactive workshop will outline leading ways to model land uses and cumulative effects, including:

- Examining existing models and how they manage risk and assess consequences
- Employing modeling toolkits to achieve balance and sustainability on a project and region basis
- Applying modeling results to strategically manage various scenarios
- Overcoming uncertainties and imperfect knowledge to develop reasonable assessments of baseline conditions
- Overcoming the challenge of integrating separate air, water, land and biodiversity monitoring frameworks into one system
- Creating transparency within the process and ensuring results have a credible scientific base

## Workshop B

1:00 pm – 4:00 pm (Registration opens at 12:30 pm)

### An In-Depth Guide to Site Remediation & Restoration

Still in its early stages, reclamation activity is constantly evolving as new operational strategies and technologies are put in place to minimize a project's environmental footprint. This interactive workshop will walk you through leading developments and latest techniques for reclamation and remediation of affected lands.

- Exploring how to develop reclamation plans
- Setting benchmarks and ensuring your plan stays on track
- Timing of reclamation — when is the right time to start reclamation activities?
- Latest technological innovations, modeling techniques and methods for site mediation
- Implementing a reclamation strategy at various stages of your project

A light lunch will be served to those delegates participating in both Workshop A and B.

#### Partner:



The Cumulative Environmental Management Association (CEMA) is the leading multi-stakeholder group operating in the heart of Canada's Boreal Forest – the Regional Municipality of Wood Buffalo, Alberta. CEMA is a key advisor to the provincial and federal governments committed to respectful, inclusive dialogue to make recommendations to manage the cumulative environmental effects of regional development on air, land, water and biodiversity. [www.cemaonline.ca](http://www.cemaonline.ca)

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CALL, EMAIL, VISIT OUR WEBSITE, OR REGISTER BY MAILING/FAXING FORM BELOW:

### 1 YES! Register the following delegate for Cumulative Effects Assessment & Management

SEE PER DELEGATE	SAVE \$200 Register & Pay by October 17, 2014	Register & Pay after October 17, 2014
PLEASE ADD 5% GST TO ALL ORDERS		
<input type="checkbox"/> Program (on site)	<b>\$2095</b>	<b>\$2295</b>
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\*ELITEPASS is recommended for maximum learning and networking value.

† This special pricing offer cannot be combined with group rates or any other special offers. CI reserves the right to review eligibility for the Aboriginal Communities rate.

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#### Hotel Reservations

A limited number of rooms have been set aside at the Sutton Place Hotel for conference participants. Rooms start at \$159 per night and are on a first come, first served basis. Make arrangements early to ensure Group rate is still available. To make reservations, please follow these instructions; 1) Go to [www.suttonplace.com](http://www.suttonplace.com), 2) On the left hand side, select the appropriate destination, 3) Enter your arrival & departure dates, 4) Under Special Rates, select 'Group Code' 5) Enter code #ED141117THE, 6) Click 'Check Availability'. Should you require additional assistance, please call 1-866-378-8866 and reference, Group code #ED141117THE.

#### Registration Fee

The fee includes the program, all program materials, coffee breaks and lunches.

#### Payment Policy

Payment must be received in full by the program date to ensure admittance. All discounts will be applied to the Program Only fee (excluding add-ons), cannot be combined with any other offer, and must be paid in full at time of order. **Group discounts available to 4 or more individuals employed by the same organization, who register at the same time. For more information on group rates, please call 1-877-927-7936.**

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You must notify us by email at least 48 hrs in advance if you wish to send a substitute participant. Delegates may not "share" a pass between multiple attendees without prior authorization. If you are unable to find a substitute, please notify **The Canadian Institute** in writing no later than 10 days prior to the program date and a credit voucher will be issued to you for the full amount paid. Credit Vouchers are valid for 1 year and are redeemable against any other program by **The Canadian Institute**. If you prefer, you may request a refund of fees paid less a 25% service charge. No credits or refunds will be given for cancellations received after 10 days prior to the program date. **The Canadian Institute** reserves the right to cancel any program it deems necessary and will, in such event, make a full refund of any registration fee, but will not be responsible for airfare, hotel or other costs incurred by registrants. No liability is assumed by **The Canadian Institute** for changes in program date, content, speakers or venue.



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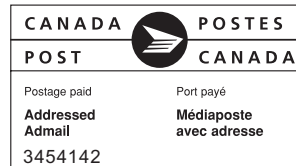
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# Cumulative Effects ASSESSMENT & MANAGEMENT

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## Top Reasons to Attend

- ✓ Get a clear vision of where cumulative effects management is heading
- ✓ Take back knowledge to assess and manage your cumulative impacts
- ✓ Network with key players in the environmental assessment field
- ✓ Discover how your project plans are affected by the Land-Use Framework
- ✓ Learn about the implementation of cumulative thresholds