



Ministry of  
Environment

# Symposium

## ON LAND BASED SPILL PREPAREDNESS AND RESPONSE

### IN BRITISH COLUMBIA

*“Achieving World Class Practices through  
Communications, Cooperation and Collaboration”*

Monday, March 25, 2013

**DAY ONE: WORLD LEADING SPILL PREPAREDNESS AND RESPONSE REGIMES**

7:30am – 8:30 am	Registration and Coffee – Stanley Park Ballroom Foyer
8:30am – 8:45am	Coast Salish Blessing Opening Remarks – The Honourable Terry Lake, Minister of Environment Stanley Park Ballroom
8:45am – 8:50am	Symposium Overview <i>Ellen Frisch, Facilitator: Review of the plan for the day and the full symposium</i>
8:50am – 10:00am	<b>PLENARY SESSION 1</b> <b>Response Standards and World Leading Spill Response: Understanding response organization roles and standards</b>
Introduction:	Lance Sundquist, Director, Environmental Protection Division, Ministry of Environment
Plenary Session Speakers:	<p>Brian Lamond (CSA Group) <i>Development of CSA spill preparedness and response standards for the petroleum and natural gas sectors;</i></p> <p>Linda Pilkey-Jarvis (Washington State Department of Ecology) <i>Best Available Technology legislation;</i></p> <p>Al McFadyen (Western Canadian Spill Service) <i>Spill preparedness and response in Alberta and NE British Columbia through a cooperative approach;</i></p> <p>Scott Wright (Western Canada Marine Response Corporation) <i>Role and response standards for a legislated marine response organization.</i></p>
10:00am – 10:20am	Plenary Session 1 Questions and Answers
10:20am – 10:40am	Coffee – Stanley Park Ballroom Foyer
10:40am – 11:45am	<b>PLENARY SESSION 2</b> <b>Spill Preparedness and Response Funding: Understanding Industry Funding Mechanisms and Government Spill Funds</b>
Introduction:	Jim Standen, Assistant Deputy Minister, Environmental Protection Division, Ministry of Environment
Plenary Session Speakers:	<p>Jim Donihee (Canadian Energy Pipeline Association) <i>Canadian Pipeline spill preparedness and response funding model;</i></p> <p>Ian Brown, (PriceWaterhouseCoopers) <i>Funding mechanisms and uses for spill funds;</i></p> <p>Captain Scott Schaefer (US Coast Guard (Ret)) <i>Establishing a terrestrial spill fund in California.</i></p>
11:45am – 12:00pm	Plenary Session 2 Questions and Answers
12:00pm – 1:15pm	Lunch – Stanley Park Ballroom Foyer
12:30pm – 1:00pm	Keynote Presentation – “Achieving World Class Performance Through Improved Practices” Al Richie, VP of Field Operations, Spectra Energy Hugh Harden, VP of Operations & Engineering, Kinder Morgan Canada

1:15pm – 4:00pm: **Discussion Groups**

**Spill Response:  
Response Standards and World Leading Spill  
Response**

Stanley Park Ballroom  
(Salon 2&3)

**SPEAKERS:**

Louis Laferriere (Chemistry Industry Association of Canada)  
*TEAPIII Transportation Emergency Response Standards;*  
Geoff Morrison (Canadian Association Petroleum Producer)  
*CAPP Response standards model;*  
John Skowronski (Canadian Fuels Association)  
*CFA response standards model.*

**KEY OUTCOMES:**

- Identify response standard principles, e.g. minimum vs. best available, voluntary vs. mandatory;
- Identify spill response capability and capacity factors, e.g.(worst case spill, most probable spill);
- Identify key response standard aspects (e.g. planning, training, equipment, exercises, bio-remediation, in-situ burning, chemical dispersants, oiled wildlife, sunken and submerged materials, and salvage, environmental restoration set points, dedicated vs. contracted responders, qualitative vs. quantitative performance measures);
- Identify key actions/questions for the Working Group.

**Spill Preparedness and Response Funding  
Principles and Models**

Presentations – Stanley Park Ballroom (Salon 1)  
Discussion Groups – Cypress Meeting Room

**SPEAKERS:**

Mark Johncox (Western Canada Marine Response Corporation)  
*Marine Response Organization Funding Model;*  
Dale Jensen (Washington State Department of Ecology)  
*Oil Spill Funding Mechanism;*  
Frank Holmes (Western States Petroleum Association)  
*Moving from a government to industry funded model.*

**KEY OUTCOMES:**

- Identify key principles for industry spill preparedness and response funding;
- Identify advantages/disadvantages to funding of an Integrated Response Organization model vs. individual company or sector response organizations;
- Identify principles for funding government’s spill preparedness, response and recovery programs;
- If an industry funded “Spill Trust Fund” was to be established, identify principles to guide government activities funded by the “Trust Fund”;
- Identify key actions/questions for the Working Group.

3:00pm – 3:20pm Coffee – Stanley Park Ballroom Foyer

3:20pm – 4:00pm

**Spill Response: Response Standards and World  
Leading Spill Response continued**

**Spill Preparedness and Response Funding Principles  
and Models continued**

4:00pm – 4:30pm End of Day Hot Wash (Debrief) – Stanley Park Ballroom

5:00pm – 7:00pm Meet & Greet Reception hosted by the Canadian Energy Pipeline Association – Marine Room

Tuesday, March 26, 2013

**DAY TWO: EFFECTIVE AND EFFICIENT ENVIRONMENTAL RESTORATION**

7:30am – 8:00am	Coffee/Tea Service – Stanley Park Ballroom Foyer
8:00am – 8:05am	Welcome Back – Stanley Park Ballroom
8:05am – 8:30am	The Canadian Railway Approach to Spill Preparedness and Response Curtis Myson (Railway Association of Canada) Jim Kozey, (Director, Hazmat Programs, Canadian Pacific Railway) Normand Pellerin (Assistant Vice President, Environment & Sustainability, Canadian National)
8:30am – 9:40am	<b>PLENARY SESSION 3      Effective Planning: Risk Assessments, Spill Contingency Planning, and Geographic Response Plans</b>
Introduction:	Ian Sharpe, Regional Director, Environmental Protection Division, Ministry of Environment
Plenary Session Speakers:	Chip Boothe (Washington State Department of Ecology) <i>The Changing Risk Picture in the Pacific Northwest;</i> Josie Clark (US Environmental Protection Agency) <i>Spill Contingency Planning;</i> Mike Munger (Cook Inlet Regional Citizens Advisory Committee) <i>Community engagement in Geographic Response Planning;</i> Dr. Ziad Shawwash (University of BC, Civil Engineering) <i>Risk informed decision making for BC.</i>
9:40am – 10:00am	Plenary Session 3: Questions and Answers
10:00am – 10:20am	Coffee – Stanley Park Ballroom Foyer
10:20am – 11:40am	<b>PLENARY SESSION 4      Effective Environmental Remediation, Restoration and Monitoring: Understanding Natural Resource Damage Assessments (NRDA), Principles for Environmental Remediation and Restoration, and Environmental Assessment and Monitoring</b>
Introduction:	Graham Knox, Manager, Environmental Emergencies Program, Ministry of Environment
Plenary Session Speakers:	Ian Zelo (US National Oceanic and Atmospheric Administration) <i>Understanding Natural Resource Damage Assessment (NRDA);</i> Dave Byers (Washington State Department of Ecology) <i>Washington State Department of Ecology's approach to NRDA;</i> Gary Mauseth (Polaris Applied Sciences Inc.) <i>Yellowstone Spill Lessons Learned - Shoreline Clean Up Assessment.</i>
11:40am – 12:00pm	Plenary Session 4 - Questions and Answers
12:00 pm – 1:15pm	Lunch - Stanley Park Ballroom Foyer
12:30pm – 1:00pm	Keynote Speaker – Captain Scott D. Schaefer, USCG (Ret) <i>Deep Water Horizon – An Incident Commander's Perspective</i>

1:15pm – 4:00pm: **Discussion Groups**

**Risk Assessments, Spill Contingency Planning and Geographic Response Plans**

Presentations – Stanley Park Ballroom (Salon 1)  
 Discussion Groups – Cypress Meeting Room

**SPEAKERS:**

Todd Hass (Puget Sound Partnership) and Fred Felleman (Consultant for Makah Tribe) *Washington marine vessel risk assessment model*;  
 Elise DeCola (Nuka Research and Planning Group) *Integrated planning, testing and funding*;  
 Randall Scott (Priority Solutions and Training Group Inc.) *Self assessment for preparedness and response*.

**KEY OUTCOMES:**

- Identify objectives and principles for planning processes – from risk assessment through to geographic response plans;
- Identify who needs to be involved in the planning process;
- Define key considerations for the planning process flow – from development through to approval;
- Identify key factors to evaluate the effectiveness of the plans;
- Identify key actions/questions for the Working Group.

**Environmental Monitoring, Natural Resource Damage Assessments, and Environmental Remediation and Restoration**

Stanley Park Ballroom (Salon 2&3)

**SPEAKERS:**

Cindy Ott (SLR Consulting (Canada) Ltd.) *Risk based approach to assessing acute health risks during and after a spill*;  
 Curtis Brock (Alberta Environment and Sustainable Development) *Outcome based remediation standards*;  
 David Campbell (CSA Group) *Water quality and environmental integrity standards*.

**KEY OUTCOMES:**

- Identify best practices to monitor impacts to human health and the environment during a spill event;
- Identify principles for the restoration of impacted environments/natural resources;
- Identify key factors to determine whether restoration is undertaken by the “responsible party” or government;
- If a NRDA process was adopted in BC, what factors need to be considered to determine if funds are to be managed by government or industry?;
- Identify key actions/questions for the Working Group.

3:00pm – 3:20pm Coffee – Stanley Park Ballroom Foyer

3:20pm – 4:00pm

**Risk Assessments, Spill Contingency Planning and Geographic Response Plans continued**

**Environmental Monitoring, Natural Resource Damage Assessments, and Environmental Remediation and Restoration continued**

4:00pm – 4:30pm End of Day Hot Wash (Debrief) Stanley Park Ballroom (Salon 2&3)

Wednesday, March 27, 2013

**DAY THREE: COMMUNICATIONS, COOPERATION AND COLLABORATION**

7:30am – 8:00am	Coffee/Tea Service – Stanley Park Ballroom Foyer
8:00am – 8:05am	Welcome Back – Stanley Park Ballroom
8:05am – 10:00am	<p><b>Plenary Session 5      Engagement and Communications: The Importance Of Building Relationships And Meaningful Dialogue</b></p> <p>Introduction:              Jim Hofweber, Executive Director, Environmental Protection Division, Ministry of Environment</p> <p>Plenary Session 5 Speakers</p> <p>Leah George-Wilson (Tsleil-Waututh First Nation) <i>Meaningful engagement of First Nation communities;</i></p> <p>Chad Bowe chop (Manager, Makah Marine Affairs) <i>The Makah Tribe’s perspective on engagement and communications;</i></p> <p>Chris Battaglia (Focus Wildlife) <i>Lessons learned from the Kalamazoo;</i></p> <p>Coleen Doucette (Oiled Wildlife Society of BC) <i>Wildlife Response Best Practices - addressing the challenges of public involvement;</i></p> <p>Nhi Irwin (Washington State Department of Ecology) <i>Involving volunteers in spill response.</i></p>
10:00am – 10:20am	Coffee – Stanley Park Ballroom Foyer
10:20 am – 11:30am	<b>Discussion: Engagement and Communication – Stanley Park Ballroom</b>
DISCUSSION GROUP TOPICS AND KEY OUTCOMES:	
<p><b>Spill Preparedness Collaboration – who needs to be involved to achieve the best planning results?</b></p> <p><b>KEY OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>• Identify best practices for collaboration and integration for planning processes;</li> <li>• Identify principles to guide the development and approval of planning documents.</li> </ul>	
<p><b>Strategic Direction to ensure an effective spill preparedness and response regime –how best to provide strategic direction to ensure a sustainable program?</b></p> <p><b>KEY OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>• Identify methods/approaches to provide strategic direction to spill preparedness and response regimes;</li> <li>• Identify factors to be considered to determine who needs to be involved in providing strategic direction.</li> </ul>	
<p><b>Communicating effectively during a spill event – what methods can be used to ensure timely notification and information to the affected community?</b></p> <p><b>KEY OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>• Identify communication methods/tools to support timely dissemination of information;</li> <li>• Identify key information needed to be disseminated during a spill event;</li> <li>• Identify best practices to engage and communicate during a spill event.</li> </ul>	
<p><b>Volunteers – how to make the best use of members of the public who want to get involved at the time of a spill?</b></p> <p><b>KEY OUTCOMES:</b></p> <ul style="list-style-type: none"> <li>• Identify key principles to be considered for public involvement in spill response.</li> </ul>	
11:30am – 12:00pm	Hot wash(debrief) and Next Steps
12:00am – 12:10pm	Closing Remarks - Honourable Terry Lake, Minister of Environment





## Symposium Objectives:

Determine world leading spill preparedness and response practices relevant for BC

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Identify communication, coordination and collaboration opportunities to achieve world class practices

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Determine key actions to support the development of world leading practices in BC.