

Sustainable Remediation SuRF Canada

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Stella Karnis
Sr Manager Environmental Affairs CN



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- ■Our beginnings and mission
- ■Drivers and barriers
- **■**Our Structure
- ■Where we stand
- ■Lessons Learned/Next Steps





Definition of Sustainable Remediation

Sustainable remediation considers the environmental, social and economic impacts of a project to ensure an optimal outcome, while being protective of human and environmental health, both at a local level and for the larger community (SuRF Canada, 2012).





SuRF Canada beginnings

- Discussions between government and industry began in December 2010 to set up a Canadian professional network to discuss and promote sustainable remediation
- The first workgroup meeting was held in Toronto in May 2011 with representatives from industry, provincial and federal government and academia
 - Introduction to sustainable remediation concepts
 - Defined the SuRF Canada mission statement
 - Discussed drivers/barriers to Sustainable Remediations in Canada
 - Defined short, medium and long term objectives





SuRF Canada beginnings Objectives

Short Term

- Define objectives for the group and definition of sustainable remediation
- Work within the existing regulatory framework to show benefits
- Evaluate existing frameworks that we can build upon
- Awareness and outreach

Medium Term

- Structure the group
- Beneficial Partnerships
- National Guidelines
- Awareness and outreach

Long Term

- Regulatory or policy changes if necessary
- "What is SuRF" document created





SuRF Canada - Mission

« To establish a Canadian network group to promote sustainable remediation that aims to give systematic consideration to the three dimensions of sustainability (society, economy and environment), in decision-making about rehabilitation management of contaminated sites. The network will bring together public and private organizations and launch an information and awareness initiative in Canada. »



Sustainable Remediation

Environment

- By-products of remediation activities
- •The finite availability of resources
- Permafrost zones

Social

- Knowledgeablestakeholders/shareholders
- Local sustainability plans/programs
- First Nations

Economic

- •Shareholder value of positive corporate <u>image</u>
- •Calculating the true cost of the remediation

Drivers for Sustainable Remediation



Regulatory / Policy

- -Variability of regulations
- -Current regulations
- -Lack of regulatory tools to make regulators comfortable
- -Regulators at Provincial Level

Procurement

- Tendering and sustainability policies

Communication / Awareness

- -Lack of a clear and defined goals
- -Lack of understanding
- -Perceptions

Financial

- -Real or perceived increase in \$
- -Lack of funding pgms
- -Govt and industry accounting preferences
- -Financial institutions





Barriers Example Subset of Provincial Regulations

Province	Regulations	Sustainable Remediation
	Prescriptive but risk assessment	
	accepted. Some case studies for this	
ВС	area for sustainable remediation	Amenable
Alberta	Rigid approach	Not amenable
	The tiered approach outlined in	
	RBCA, which considers risk and	
	allows for conditional closure, is	
Saskatchewan	amenable to SuR.	Amenable
	Although regulations do exist - defer	
Manitoba	much to federal standards	Potentially amenable
	Prescriptive but risk assessment	
Ontario	accepted.	Potentially amenable
	The requirement of the	
	Environmental Quality Act to	
	remove "all contaminated material"	
Quebec	is a challenge	Not amenable
	The tiered approach outlined in	
	RBCA, which considers risk and	
	allows for conditional closure, is	
Atlantic Provinces	amenable to SuR.	Amenable



Structure of SuRF Canada

- Adhocracy with no current formal structure although there is a leadership team.
- Committees created for Outreach, Planning, Technical Initiatives and Group Structure, and Website
 - Outreach
 - We have defined Provincial leads
 - Regular calls to ensure updates and consistency
 - Development of an outreach plan
 - Planning conference or sustainable remediation workshops and presentations.
 - Technical Initiatives
 - Working on a paper on "Sustainable Remediation in Canada"
 - Input on technical requests (nationally and internationally)
 - Website created www.surfcanada.org
- Membership up to over 100 members from industry, consultants, government and academia
- Regular calls initiated with group at large





Where we stand Objectives – 2012

Outreach and Planning

Technical Initiatives and Group Structure

Website

- Diversify membership through information sharing tools (website and social media) and conferences
- Partner for conferences, workshops and university programs
- Use Linked'in to communicate
- Continue with the monthly calls – more structured
- Develop provincial and regional leadership and increase provincial government and non-government membership and support

- Collaborate on the FCSAP
 project for the incorporation
 of sustainability in the
 FCSAP program
- Develop definition of sustainable remediation for use
- Formalize structure as a "non profit"
- "Sustainable Remediation in Canada" to document current context and current/proposed framework (2013)
- Collaborate on international initiatives

- Create a member only access
- Bilingual
- Post presentations from conferences, agenda for meetings, minutes of meetings, and other pertinent information
- Quick links to other sustainable remediation websites





Events Planning and participation

Planning and/or participation of SuRF Canada in the following Events:

- 2011 FCS Regional Workshop Sustainable Remediation in Canada, Kingston, May 31- June 1, 2011 http://www.rpic-ibic.ca/en/events/federal-contaminated-sites-fcs-regional-workshops/2011-fcs-regional-workshops
- Remediation Technologies symposium (Remtech), Banff, October 19-21, 2011 http://www.esaa-events.com/remtech/call2011.htm
- Salon des technologies environnementales du Québec 2012, Québec City, March 13-14, 2012 http://steq.reseau-environnement.com/tiki-index.php
- 2012 FCS National Workshop ,Toronto, April 30-May 3, 2012 http://www.rpic-ibic.ca/en/events/federal-contaminated-sites-fcs-national-workshop/2012-fcs-national-workshop
- EMA of BC 2012 Workshop , Vancouver , February 2012 http://www.emaofbc.com/wp-content/uploads/2012/01/Workshop-Outline-V10_mm.pdf
- 2012 37th National CLRA/ACRSD Conference, Sydney, September 26-27, 2012 http://arc2012.ca/
- CSAP Fall PD Workshop, Vancouver, Oct. 10, 2012 http://www.csapsociety.bc.ca/node/36
- Sustainable Remediation 2012 Environment Agency Austria, Vienna, Austria, November 14 16, 2012 http://www.umweltbundesamt.at/sustainable_remediation2012

Coming Events:

- SuRF US Meeting in Washington, D.C. December 12-13, 2012
- Americana 2013, Montréal, March 19-21, 2013 http://americana.org/fr/calendar
- 2013 FCS National Workshop detail to come

Events Planning





Lessons Learned and Next Steps

- Understand the drivers and barriers to sustainable remediation in Canada (technical initiative)
- Understand and continue to communicate the value of sustainable remediation
- Examine the policies and initiatives that promote sustainable remediation in Canada and make recommendations for further integration/synergies (technical initiative)
- Benefits of partnerships
- Perform, document and communicate case studies
- Network and collaborate nationally and internationally with wide range of professionals (industry, government, academia)





SuRF Canada

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And all our members...

Website - http://www.SuRFcanada.org/





