


Atlantic PIRI

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Halifax, Nova Scotia
January 25, 2007

January 2007





Atlantic PIRI = Partnership In RBCA Implementation

Atlantic RBCA = Risk Based Corrective Action

Atlantic PIRI is the people
Atlantic RBCA is the process.



Atlantic PIRI – Origins

Why – Conditions in 1997

- No contaminated site legislation
- 1,000s of petroleum contaminated sites
- Generic criteria – based on gut feel
- No Atlantic uniformity for criteria
- Limited site closure success
- Limited external TPH guidance



Atlantic PIRI – Origins

Multi-stakeholder committee formed in 1997 with an MOU between the four Atlantic provinces to develop a risk-based regulatory approach to the management of contaminated sites and Brownfields.

This MOU was renewed in 2002.

Committee generates synergy >> sum of parts



Atlantic RBCA – Technical Tool

- RBCA is a science-based, tiered approach.
- A process that takes into consideration the exposure to, and intake of, petroleum hydrocarbon that has the potential to cause human health effects.
- Numbers are scientifically derived and transparent.
- ***Includes a significant level of conservatism (protection).***



Atlantic RBCA – Technical Tool

Nation Wide recognition as scientific process/ methodology.

Consistent with CCME and international standards.

Applies to typical site conditions(re:Tier I and II) across the four Atlantic Provinces.



Atlantic RBCA – Technical Tool

Risk evaluation requires:

- Identification of Hazard, evaluation of the dose(response), and evaluation of the receptor exposure.
- Recognized property difference between residential and commercial.
- Allows the utilization of site specific clean-up - a Tiered approach.



Atlantic RBCA – Success Stories

Site Closures (since 1999)

- Closure rates = 10x Pre-RBCA
- Over 3,000 + closures in 4 provinces
- Proper level of documentation
- Responsibility on Site Professionals



Atlantic RBCA -Provincial Activities

Prince Edward Island

- Contaminated Sites Regulations formalizing and expanding the current guideline to include Record of Site Condition and closed landfills.

Newfoundland and Labrador

- 2004 Guideline for Management of Impacted Sites (using Atlantic RBCA for petroleum and CCME for non-petroleum).



Atlantic RBCA -Provincial Activities

Nova Scotia

- Amendments to Environmental Act to provide authority to develop Contaminated Site regulations.

New Brunswick

- Auditing of Contaminated Site documentation submitted by professionals.
- New Brunswick Liability Working Group



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Brownfield Issues and Challenges

What is a Brownfield?

An abandoned, idle or underutilized commercial or industrial property with known or suspected historical contamination, but where there is active potential for redevelopment.



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Brownfield Issues and Challenges

- Ongoing industry remediation has seen between 1000-2000 sites in urban Canada controlled by CPPI members cleaned up, out of a total 30,000 Brownfields.
- Numerous social benefits would result from cleanup.



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Brownfield Issues and Challenges

Deterrents to industry:

- Costs to remediate generally outweigh market value of the land
- Sites cleaned to generic criteria also retain liability – civil and regulatory
- Access to funding
- Property Stigma



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Brownfield Issues and Challenges

Deterrents to regulatory bodies:

- Until recently there was no legislation in the provinces that dealt specifically with 'contaminated site remediation' and Brownfields.



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Brownfields – Making it work

How can the Atlantic RBCA model help? It is a

- Solid
- Reliable
- Credible
- Technical Tool.



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Brownfields – Making it work

- Build capacity for Public Awareness of Brownfield redevelopment.
- Establish mechanisms for review of environmental liability and risk management.