Overview

- Alberta’s Brownfield Coordination Office

- Risk Management Plan Guide

Note:
- This presentation is for demonstration and review purposes on the presentation dates only.
- Do not quote, cite, reference, share, link, or re-publish. Refer to the actual RMP Guide.
- In the event of discrepancy between existing Government of Alberta, Alberta Environment and Parks, and/or Alberta Energy Regulator documents, respectively, and what was presented or discussed, those documents shall take precedence. Thanks.
Contaminated Sites Policy Framework Overview

- Environmental Protection and Enhancement Act
  - Water Act
  - Reclamation and Remediation Regulations
  - Contaminated Sites Policy Framework (2014)
    - Alberta Tier 1 Guidelines (2016)
    - Alberta Tier 2 Guidelines (2016)
    - Exposure Control Guidelines (2016)
    - Environmental Site Assessment Standard (2016)
Brownfield Coordination Office

• A new Brownfield Coordination office was established in 2016.

• The Brownfield Program has three main components:
  1. Education
     – Developing a brownfield guide
  2. Incenting redevelopment
     – Economic analysis of investments in remediation
  3. Enhancing collaboration between interested parties
     – Cross-government contaminated sites steering committee
     – Review of Remediation Certificate Regulation
Brownfields and Municipal Affairs

- Modernized Municipal Government Act was amended to add the following definition:

  *Brownfield property means a commercial or industrial property which is, or possibly is, contaminated; is vacant, derelict or under-utilized; and is suitable for development or redevelopment for the general benefit of the municipality.*

- A council may pass a bylaw on a multiple-year basis to exempt or defer tax collection on brownfield properties, to encourage development or redevelopment for the general benefit of the municipality.

- The amendment was passed in the legislature as part of Bill 21 and came into force April 1, 2018.
Remediation Certificate Regulation

- Amendments are being considered to achieve the following objectives:
  1. Implement a voluntary site-based remediation certificate;
  2. Further describe reporting requirements and the duty to take remedial measures;
  3. Create a “no further action” letter for project closure on sites where no remediation is required to meet Alberta Tier 2 Soil and Groundwater Guidelines; and
  4. Describe how risk management options may be used to meet remedial objectives.
Contacts

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Municipal Government Act Fact Sheets:
https://open.alberta.ca/publications/mga-implementation-fact-sheets
Risk Management Plan Guide
Risk Management Plan Guide

Outline

• Risk Management Plan Guide
  – Published October 31st, 2017.
  – Related documents
  – Parts of the RMP Guide
Documents Related to RMP Guide

• Contaminated Sites Policy Framework
  – Released October 31, 2014.

• Environmental Site Assessment Standard
  – Released March 01, 2016.

• Exposure Control Guide
  – Released May 03, 2016.

• Risk Management Plan Guide
Promotes return of contaminated sites to productive use
- Ensures risks to human health and environment minimized
- Source removal and timely management of risks
- Manage residual contamination on sites while long-term remediation is being undertaken
Risk Management Plan Guide
Background (2 of 2)

- Guide and Checklist help explain what a RMP will look like
  - Outlines info contained in a complete RMP
- Many stages of development, review, and input
  - Committee of AEP provincial contaminated sites staff
  - All AEP and AER provincial contaminated sites and risk assessment staff
  - Public review of draft:
    - consultants,
    - operators,
    - municipalities,
    - professionals,
    - site managers
Risk Management Plan Guide

Basic Info

- Definitions
- Risk management for contaminated sites
  - Administrative controls
  - Exposure barriers
- Administrative Requirements for RMPs
  - Reviewer’s checklist
  - Site ID and location
- Proponent info
- Consultant info
- Record of Site Condition
- Legal requirements
Risk Management Plan Guide

Site Investigation Requirements (1 of 2)

- Background site info
- Conceptual Site Model
  - Site description
  - Investigations, contaminants, migration
  - Land use
  - Regional and site processes
- Contaminants of Potential Concern
- Current site condition and risks
- Land use and zoning
- Remediation guideline selection
- Complete delineation
  - of contaminants
Risk Management Plan Guide
Site Investigation Requirements (2 of 2)

- Source and heavily impacted material
  - Evaluation and management
  - Removal and control
  - NAPLs
  - Preferential flow paths

- Soil Vapours
  - Volatile and semi-volatile contaminants

- Adverse effects

- Acute, sub-chronic, and chronic exposure

- Exposure pathways
  - Human health, direct contact, ingestion

- Sufficient concentrations to alter
  - Physical and chemical properties
Risk Management Plan Guide
Implementation Requirements

• Summary
  – Like an executive summary
  – Requirements and conditions
• Risk evaluation
• Monitoring plan
• Contingency plan
  – Hitting the fan is not a plan
• Timelines and plan requirements
  – What will happen? When? How?
• Communication plan
• Long-term obligations
  – Care and control
Risk Management Plan Guide Checklist

• Parallels guide
  – Fillable version
  – They work together
• For RMP developers and reviewers
• Sections on types of requirements:
  – Administrative
    • Basic info
  – Site investigation
    • Technical info
  – Implementation
    • Plans
Risk Management Plan Guide
Follow Up

• RMPs are a combo of steps and smaller plans
  – Exposure barriers and admin controls that work
  – End goal(s) still remediation, clean-up, re-use, not “moth-balling”

• Info Sessions and/or Training
  – Site managers, professionals

• Follow up Info Letters, Fact Sheets
Questions?

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