

BROWNFIELDS 2012 WORKSHOP

SOIL MANAGEMENT UPDATE

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Excess Soil Management

PRESENTATION OUTLINE

- Backgrounder
- Excess Soils Regulatory Framework in Ontario
- Technology Opportunities and Applications
- Excess Soils Managing Framework

Excess Soil Management

BACKGROUND

- Reuse of Excess Soils and Materials is a Complex Issue
- Successfully Addressing Issues and Challenges Can Draw Much from Previous Environmental Learning's
- Successful Environmental Evolution Requires Regulatory and Industry Cooperation for Real World "Workability" Solutions
- Health > Safety > Environmental > Sustainability (three pillars)
- Sustainable Solutions Require Regulatory Role to Go Beyond Historical Enforcement Role
- Industry Sustainable Business Policies and Practices

Excess Soil Management

Excess Soils Regulatory Framework in Ontario

- Ministry of Environment
 - Environmental Protection Act
 - Waste Management Act
 - Brownfield Regulation
 - Practices
- Ministry of Natural Resources
- Conservation Authorities
- Regional Governments
- Local Municipal Government
- Other Considerations – Federal, Aboriginal

Excess Soil Management

Technology Opportunities and Applications

- Liability Concerns Have Historically Driven “Dig & Dump” Technology Applications
- Sustainable and Beneficial Reuse of Excess Soils and Materials Must Drive Technology
- Risk Based Technological Applications and Modeling Approaches
- No Single Silver Bullet Solution
- Combination of Technology and Process Application Tailored to Specific Situation/Opportunity
- Pilot Testing a Major Consideration Component for Success (Fundamental Complexities/Scale)

Excess Soil Management

Excess Soils Managing Framework

- Requires More Than Just Sustainability Drivers (CCME)
- Leadership – Policy, Strategies, Goals , Programs
- Compliance with Existing Provincial Regulatory Frameworks (Inter/Intra)
 - Different Levels of Government (Expertise)
- Legally Defensible – Due Diligence
- Pragmatic and Practical – Fit with Existing Industry Best Management Practices and Codes of Practices (Timeliness, Procurement, Contracts, Audit)
- Consistency of Process
- Requires Continuous Improvement Element (Metrics)
- Communication, Education and Training
- Local Community Engagement