An Update on the Federal Contaminated Sites Action Plan (FCSAP)
Report on Progress & Plans for the Future

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Overview

• The FCSAP Program
• Canada’s Economic Action Plan
• Program Renewal
• FCSAP Phase 2 (2011-16) Opportunities
Federal Contaminated Sites

Definition

- Sites on lands owned or leased by the GoC, or on non-federal lands where GoC has accepted full responsibility for the contamination.
- Result of poor past practices in government operations
  - Leaking fuel storage tanks, PCB spills, heavy metal contamination, etc.
  - Typical locations: military bases, federal harbours, airports, lighthouses, firing ranges, FN lands
- Result of poor past management of 3rd party operations on federal Crown land
  - North of 60: e.g. abandoned mines
The Federal Contaminated Sites Action Plan (FCSAP)

- $3.5 billion, 15-year program established in 2005
- Reduce and manage risks to human health and the environment
- Manage federal financial liabilities
- Secondary benefits
FCSAP Framework

• Cost share program between FCSAP funding and custodial departments
• Program ran jointly by Treasury Board and EC (collectively referred to as the FCSAP Secretariat)
• ADM-level steering committee
• Contaminated Sites Management Working Group – interdepartmental HQ-level meetings
• 17 federal custodial departments
• 3 federal technical “Expert Support” departments: EC, DFO, HC
  – PWGSC – expert support for contracting
Federal Contaminated Sites: 2005 to 2009-10

Federal Contaminated Sites Progress
Pre-FCSAP - 2009/10

- Known: 5,310 Closed, 6,723 Active
- Suspected: 4,200, 2,000, 7,822

Total: 12,033

Canada
Federal Contaminated Sites

Assessments

Assessment Progress

- # of suspected sites
- # of sites partially assessed
- # of sites where assessment has been completed

![Bar chart showing assessment progress from 2005-06 to 2009-10](chart.png)
Approved projects

**Priority Projects and Sites**

- **FY 10/11**  520 Projects (~760 sites)
- **FY 09/10**  407 Projects (~850 sites)
- **FY 08/09**  343 Projects (~740 sites)
- **FY 07/08**  279 Projects (~520 sites)
- **FY 06/07**  197 Projects (~370 sites)
- **FY 05/06**  98 Projects (~140 sites)

• Note: Not all assessment projects lead to priority projects
Progress to date

**Program development / implementation**
- over 5000 site assessments and >500 remediation projects since inception

**Successful Horizontal Implementation**
- Over 20 participating partners in various roles
- Effective committee-based decision making
- Active interdepartmental governance

**Benefits beyond program objectives**
- Job creation and skills development
- Technology advancement - Innovative Remediation Workshops

**Program-wide assessments have been positive**
- 2008 OAG Report, 2008 Formative Evaluation
- Program accelerated under Economic Action Plan (CEAP)
Canada’s Economic Action Plan

• Sixth Report to Canadians released Sept 2010

• FCSAP results from CEAP:
  • over 1,900 site assessments
  • 195 remediation / risk management projects
  • $88 million spent in 2009-10
  • $150M committed in 2010-11
    • 97% spending of commitments

Information reported on Public CEAP website

Activities in 2010/11

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Assessment</th>
<th>Remediation/ Risk Management</th>
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</thead>
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<tr>
<td>New Projects</td>
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<td>120</td>
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<tr>
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<td>520</td>
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<tr>
<td>Funding</td>
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<td>$282 M</td>
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Federal Contaminated Sites

Picture to be added
Program Renewal

- 2011-2016 – Phase 2 of FCSAP
- Entering major remediation phase of FCSAP Program
- Proposal under development to seek policy and financial approval for next 5 years
FCSAP Phase 2 (2011-16) Opportunities

- Performance Measurement Tools
  - Risk Reduction and Site Closure
- Technology Transfer
  - Demonstration Sites
- Sustainability tools for the program
Risk Reduction and Site Closure

Risk Reduction Indicator Tool

- A set of summary questions and supporting worksheets filled-in by the custodian which lead to one of two outcomes:
  1. risk at site is acceptable – noting any restrictions
  2. risk at site may not be acceptable and further work is required

- Questions will follow risk assessment paradigm; questions to be answered depend on whether custodian is using a risk-based or Tier 1 criteria/guidelines approach to manage site

- Status: Tool yet to be approved by program partners

Proposed Site closure tool (PWGSC)

- Rationale for selecting R/RM options
- Objectives and description of chosen remedy
- O&M and LTM requirements
- Obligations for administrative controls
- Aim to have closure tool in place by beginning of renewed program
Demonstration Sites

- Showcase innovative solutions and approaches
- Demonstrate federal gov’t performance at projects to inform public
- Knowledge transfer of applications for innovative technologies
- Extend benefits of the program to the public at large (aboriginal people, local communities, consulting industry etc.)
Sustainability

- FCSAP mapped to Federal Sustainable Development Strategy
- To strengthen sustainable development practices within the federal government.
  - Reduction of fossil fuel consumption and GHG emissions,
  - Better conservation of water and other natural resources,
  - Cost savings associated with increased use of optimized renewable energy treatment systems,
  - Improve air quality,
  - Increase property value,
  - Opportunities to support and increase biodiversity,
  - Supports local jobs creation and other employment opportunities related to local renewable energy businesses
  - Capacity building/Educational opportunities regarding sustainable approaches and environmental stewardship,
  - Supports greener and innovative technology development
Sustainable Decision Support Tool (SDST)

- Development of the Sustainable Decision Support Tool (2010) for renewed program
  - A multi-criteria-assessment (MCA) tool to assist with remedial decisions
  - Golder & Associates, based on GoldSET
  - Currently in phase 2 of tool development; beta-testing underway
  - Modules for hydrocarbons well defined, metals and other contaminants will be added to the tool in the future.
Next Steps

• Continue implementation
• Develop consistent tools to demonstrate results, progress and performance
• Continue to improve state of contaminated sites science and management
  – Advance science via linkages with academia and consulting
  – Make training more efficient so it reaches a broader audience.
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