



**Federal Contaminated Sites
Action Plan (FCSAP)**

Federal Contaminated Sites Action Plan (FCSAP) Updates

*Science Advisory Board for Contaminated Sites in BC
Fall 2020 Virtual Workshop
Thursday, October 8 2020*

Lindsey Wilson (ECCC)

Martine Lalande (PSPC)



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Overview

- Federal Contaminated Sites Action Plan (FCSAP) 101
- Northern Abandoned Mines Reclamation Program (NAMRP) 101
- FCSAP Guidance Publications and Tools
- Forecasts – National & Pacific
- Interactive Map Tool
- Contact Information
- Access to GCcollab



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Federal Contaminated Sites Action Plan (FCSAP) 101

What are federal contaminated sites?



On lands owned or leased by the federal government



On non-federal lands for which the gov't has accepted responsibility

FCSAP was established in 2005 with the following objectives



Reducing risks to human health and the environment



Reducing associated environmental liabilities from sites



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Achievements

- After 15 years of FCSAP (2005-2020)

\$4.5 billion investment

- World-class contaminated sites management industry in Canada

2,200 sites with remediation

- 1,700 fully remediated

Skills development and job training

- 22,800 direct jobs; \$2.4 billion spent in Canada's North

Science development

- 88 environmental quality guidelines, technical guidance, tools

Source: FCSAP Secretariat (September 2020)

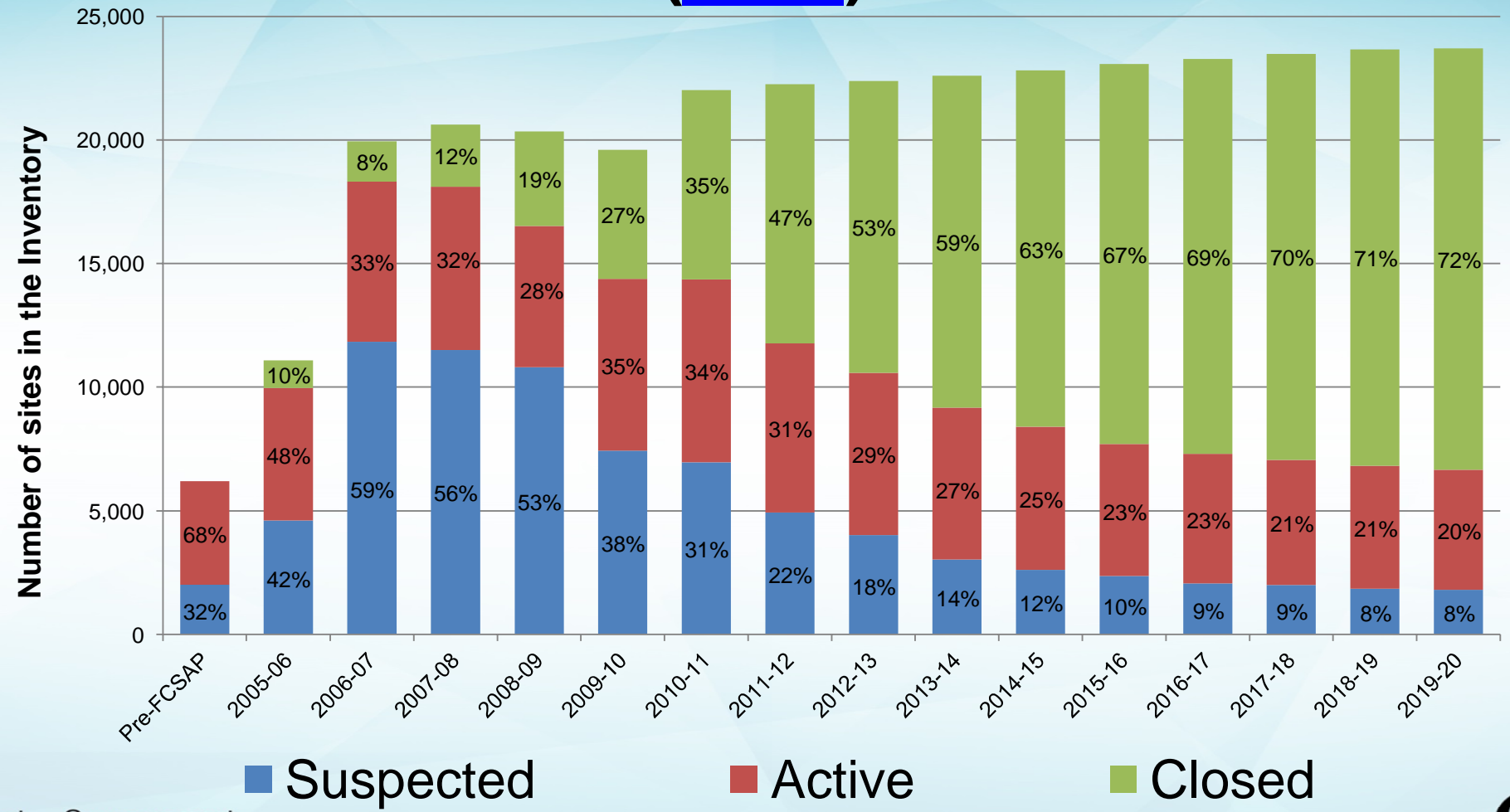


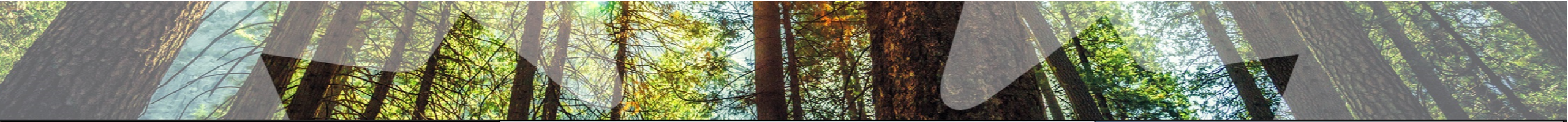
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Status of Sites in the Federal Contaminated Sites Inventory (FCSI)





Esquimalt Harbour (BC)

5 Wing Goose Bay (NFLD)

Former Canadian Air Force Radar (QC)



Minor Navigational Aid Site (NFLD)

DEW Line Site (NU)

Columbia National Wildlife Area (BC)

Mathis Colomb Cree Nation Community (MB)



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Sources: FCSAP Annual Reports

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FCSAP Beyond 2020

- Program renewed until FY2034-35, with funding renewed in 5 year increments
- Phase IV (2020-2025):
 - \$35.1M for assessment
 - \$1.2B for remediation, risk management and long term monitoring
- 17 custodians
- Secretariat: ECCC and TBS



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Northern Abandoned Mines Reclamation Program (NAMRP) 101

- \$2.2 billion over 15 years starting in 2020-2021 to address Crown-Indigenous Relations and Northern Affairs' (CIRNA) 8 largest abandoned mine remediation projects:

Yukon:

- Faro Mine
- United Keno Hill Mine Project
- Ketz River Mine Project
- Clinton Creek Mine Project
- Mount Nansen Mine Project

NWT:

- Giant Mine
- Cantung Mine Project
- Great Bear Lake Project



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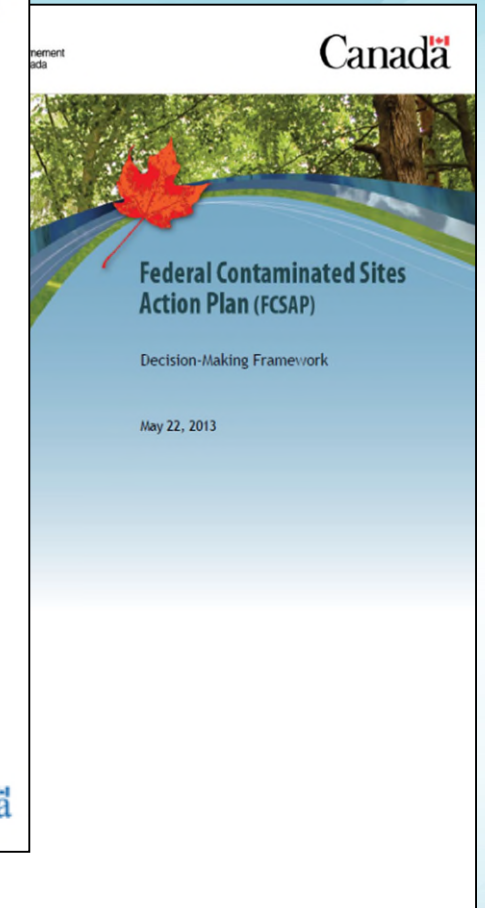
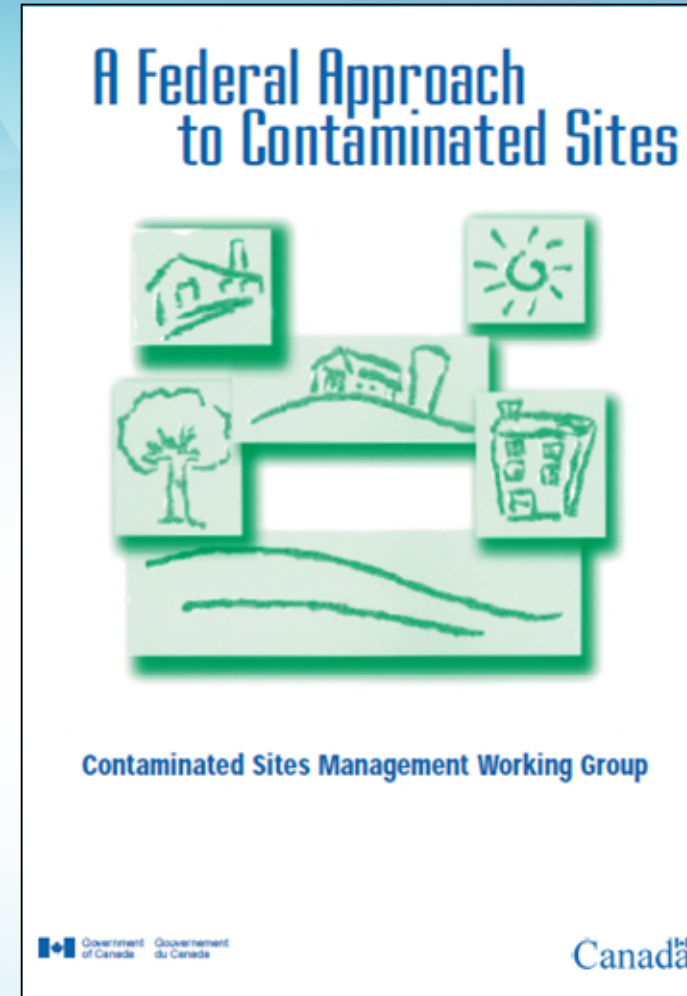
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FCSAP Guidance Publications: Updates

FCSAP Decision Making Framework

- Road-map on how federal contaminated sites are managed within the Federal Contaminated Sites Action Plan
- References and links to guidance for all stages of contaminated sites management



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Upcoming FCSAP Guidance - ERA

- Ecological risk assessment on federal contaminated sites – Comprehensive Guidance (update from 2012)
- ERA Module 5: Defining Background Conditions and Using Background Concentrations **(Published in 2020)**
- ERA Module 6: Ecological Risk Assessment for Amphibians on Federal Contaminated Sites **(Published in 2020)**
- ERA Module 7: Default Wildlife Toxicity Reference Values (TRVs) Recommended for use at FCSAP Sites
- TRVs and toxicity data for Fish (tbd - lead by DFO)
- Compilation of reptile toxicity data



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Upcoming FCSAP Guidance

- Management of LNAPL on Federal Contaminated Sites Guidance Document
- Monitored Natural Attenuation in Soil and Groundwater Guidance Document
- Supplemental Guidance on Implementation of Canada-Wide Standard for Petroleum Hydrocarbons in Soil on Federal Contaminated Sites
- Guidance on the management and treatment of non detect data on the Federal Contaminated Sites
- Management and Treatment of Values Below the Detection or Quantification Limit
- Management of Ecological Risk at Federal Contaminated Sites
- Use of Real Time Technologies at Federal Contaminated Sites



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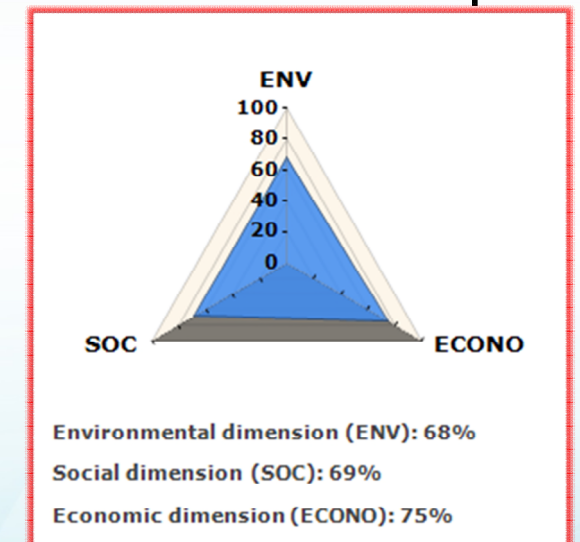
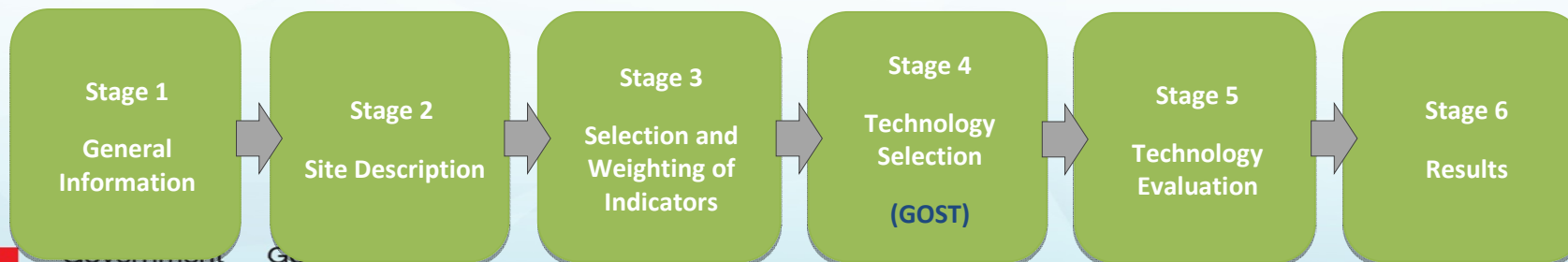
Upcoming FCSAP Advisory Bulletins (FABs)

- Use of Atlantic PIRI's petroleum hydrocarbon sediment criteria at federal sites (**Published in 2019**)
- What guidelines can be used if a CCME soil quality guideline is based only on human health protection or only on environmental protection?
- What guidelines apply to a federal site with multiple land uses?
- Applying the statistical approach in CCME (2016) to identify COCs at federal contaminated sites
- How are field duplicates assessed?
- How, when and why do I decommission a groundwater monitoring well? (update)
- Can Provincial/Territorial Guidelines be applied in lieu of existing Federal Guidelines? (update)



Sustainable Development Analysis Tool (SDAT)

- Web-based and open access: <https://oadd-sdat.tpsgc-pwgsc.gc.ca>
- To be used to compare Remediation/Risk Management (R/RM) Options *after* identifying potential R/RM options with the Guidance and Orientation for the Selection of Technologies ([GOST](#)) Tool (i.e. Step 7 of the Federal CS 10-Step Process)
- Supports a better understanding and communication of SD related issues
- Pre-recorded webinars available





Federal CS Demand Forecast 2020-2025 - Caveats

1. The analysis contained herewith is the best information currently available and provides a “big picture” perspective on FCSAP and NAMRP investments
2. The data is extracted from the latest National Workplan and Federal Contaminated Site Inventory (FCSI) and is a **snapshot** of funding submissions and contaminated sites data and is subject to possible revisions.
3. Custodians sometimes experience project delays due to weather conditions or other unforeseen circumstances (e.g. pandemic), which can affect their work plans. Although projects may be approved, they may not proceed for logistical reasons.
4. Annual updates will improve future year estimates in terms of quality – from a cost objective to a budget estimate, and quantity – both number of sites and value.

Complete list of caveats are available on Federal CS Demand Forecasts GcCollab group:

<https://gccollab.ca/file/view/3716266/fcsap-phase-iv-cs-demand-forecast-analysis-january-2020-final-enpdf>

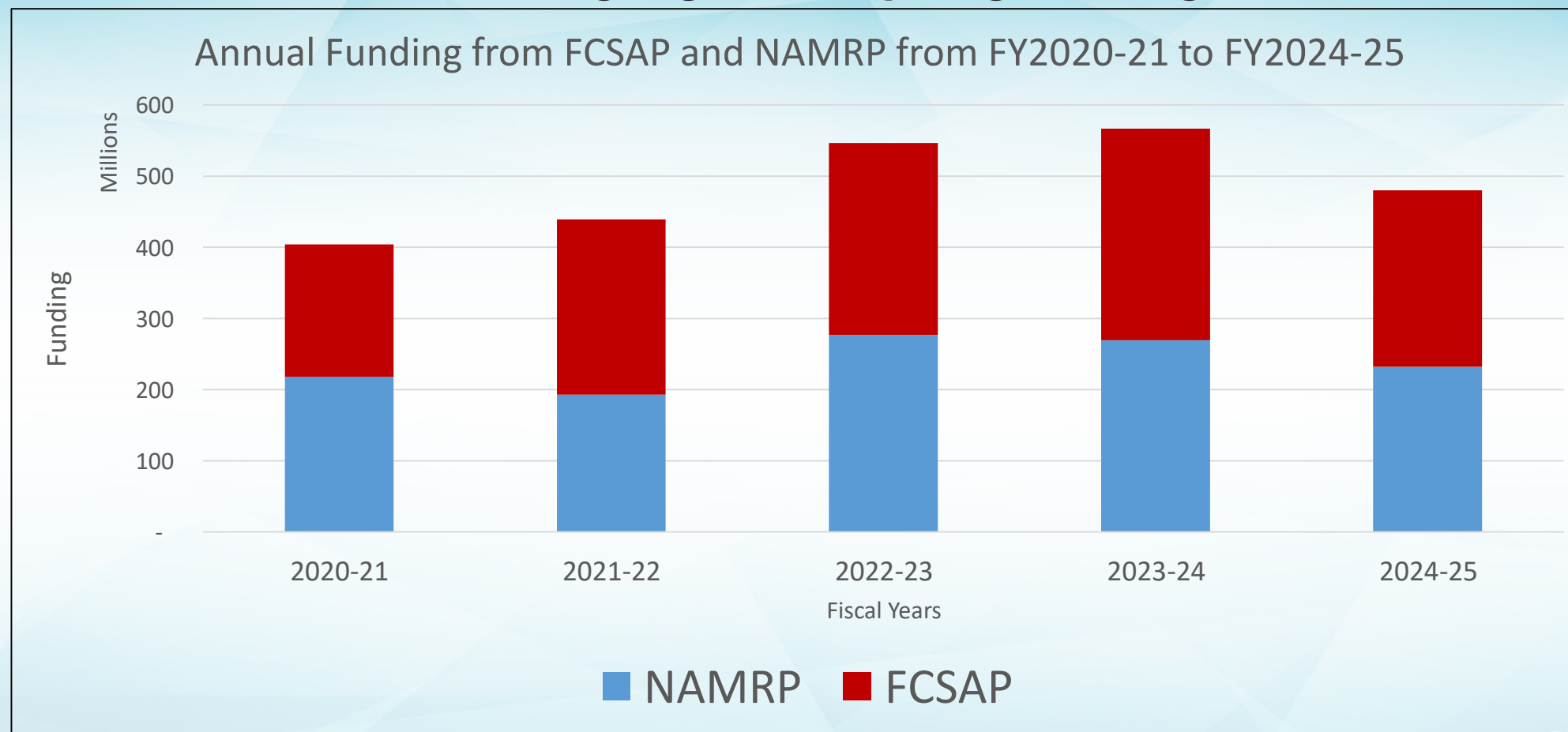


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Federal Contaminated Sites Demand Forecast – FY2020-21 to 2024-25



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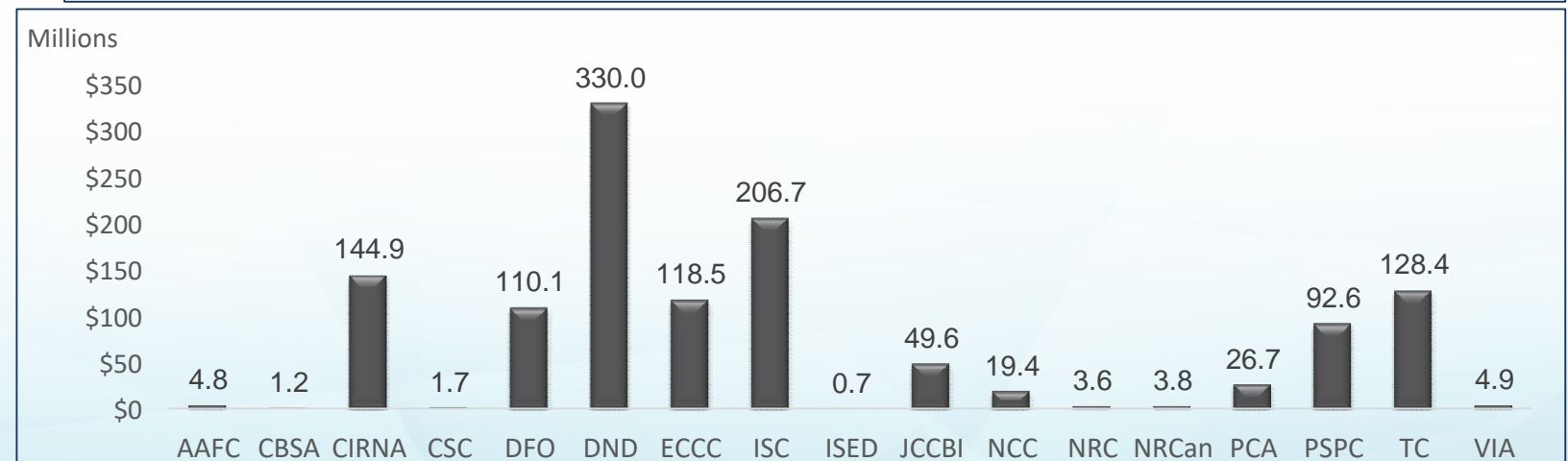
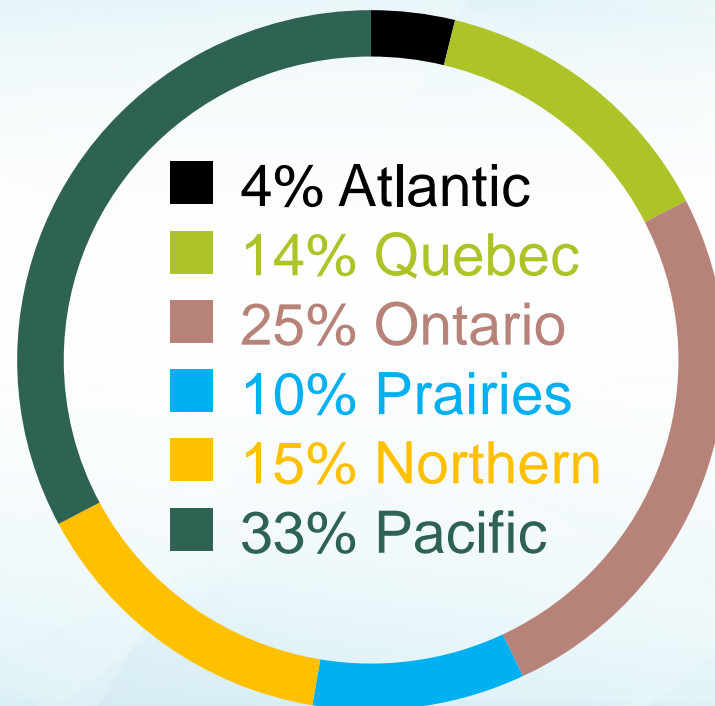
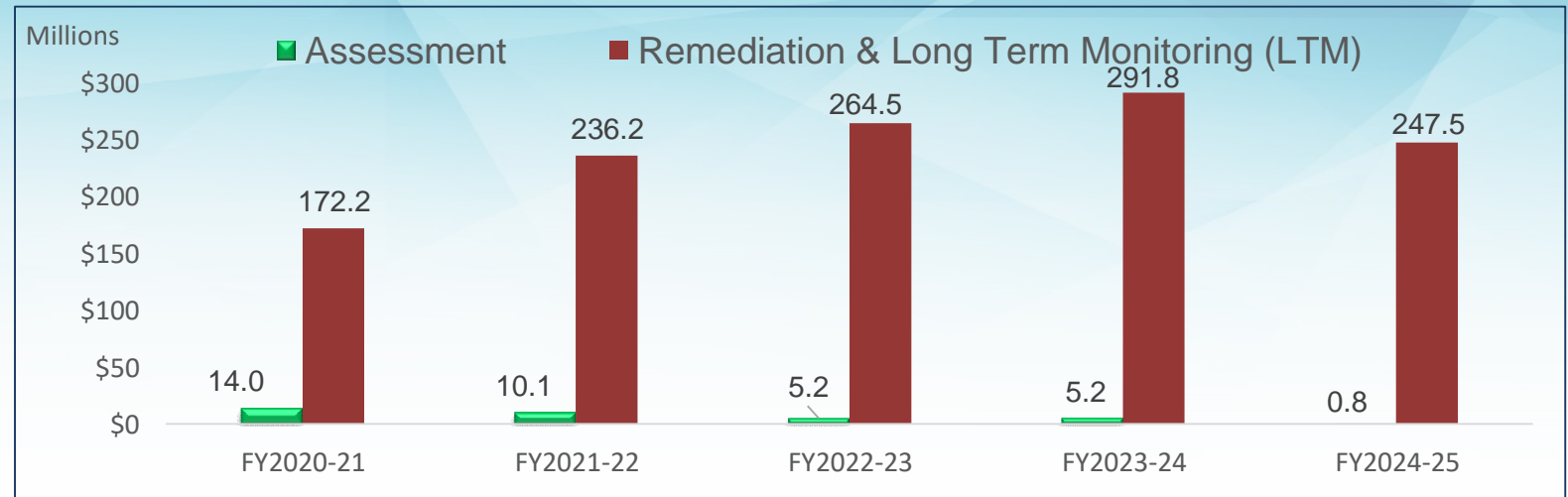
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Source: FCSAP Secretariat (April 2020) & CIRNA (June 2020)

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National Overview of FCSAP Phase IV

\$1.2B	306	1275
Funding	Assessment Sites	Remediation & LTM Sites



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Source: FCSAP Secretariat (April 2020)

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Pacific – FCSAP Phase IV Overview

\$407.9M

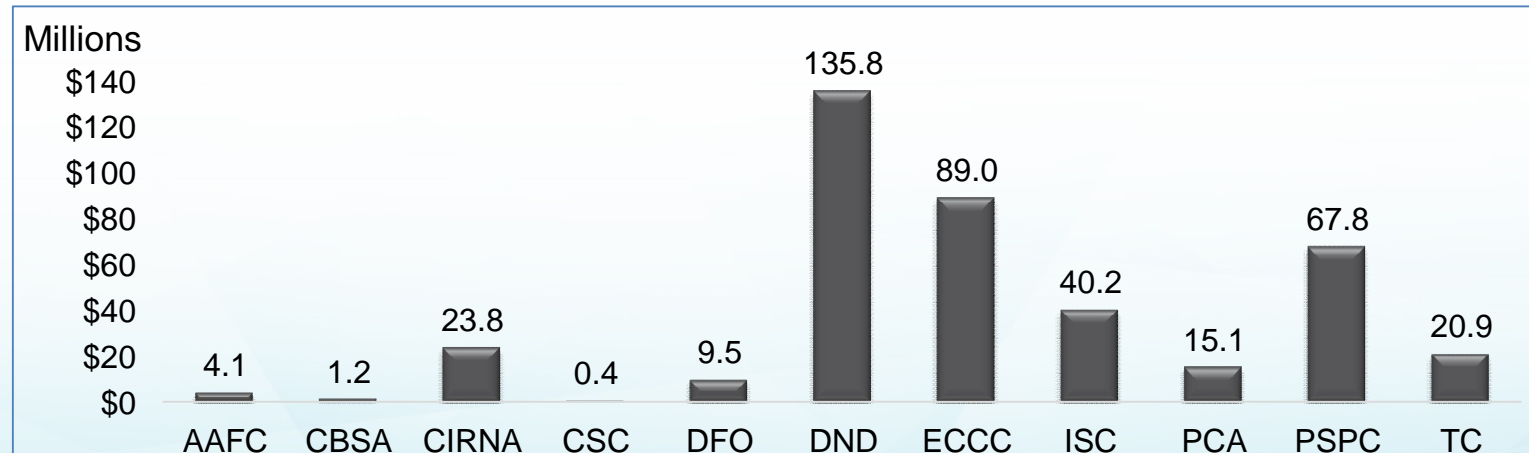
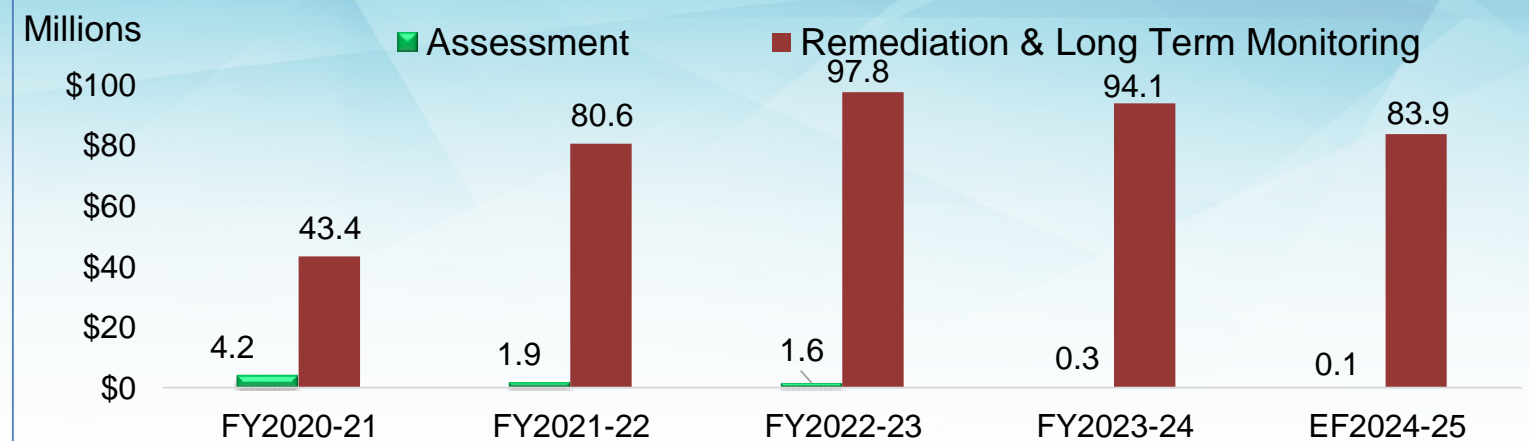
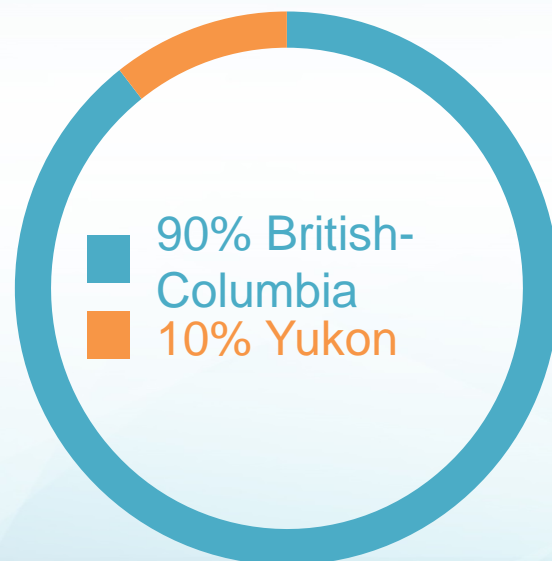
Funding

130 sites

Assessment

428 sites

Remediation & LTM



Source: FCSAP Secretariat (April 2020)



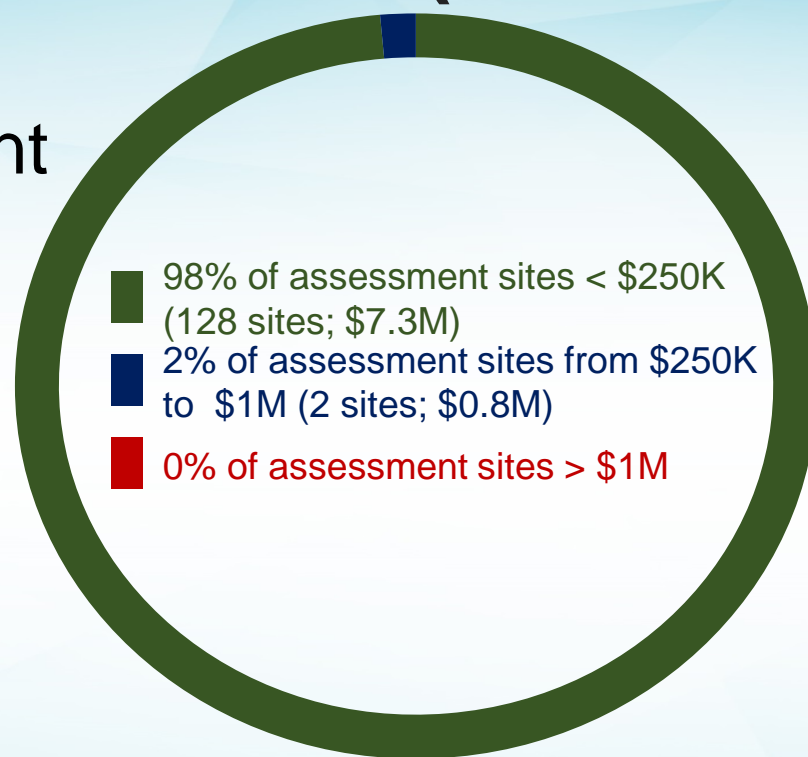
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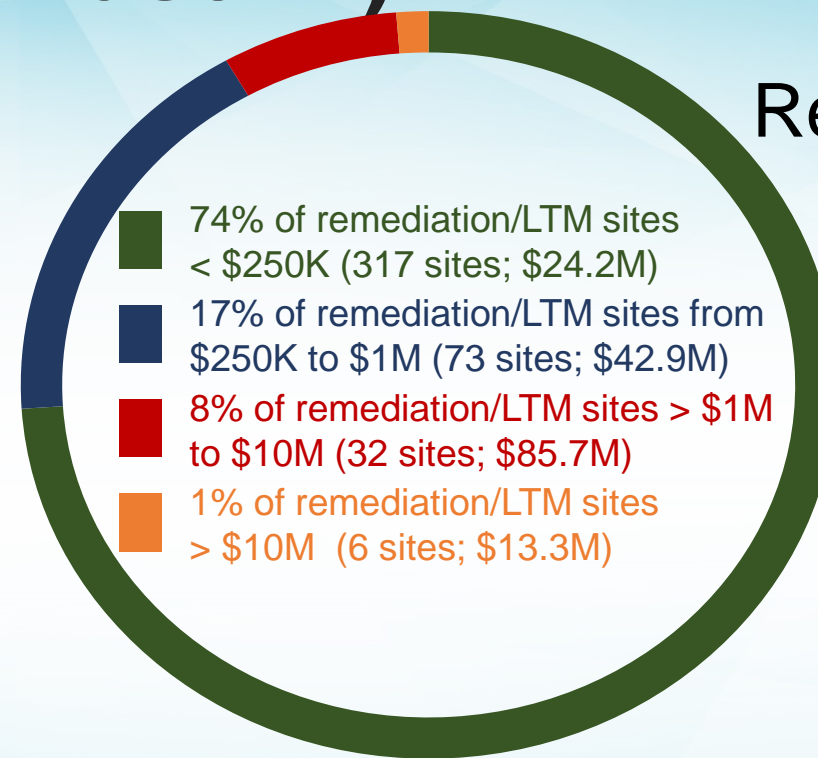
Pacific – Distribution of the Value of Sites (FCSAP Phase IV)

Assessment



\$8.1M

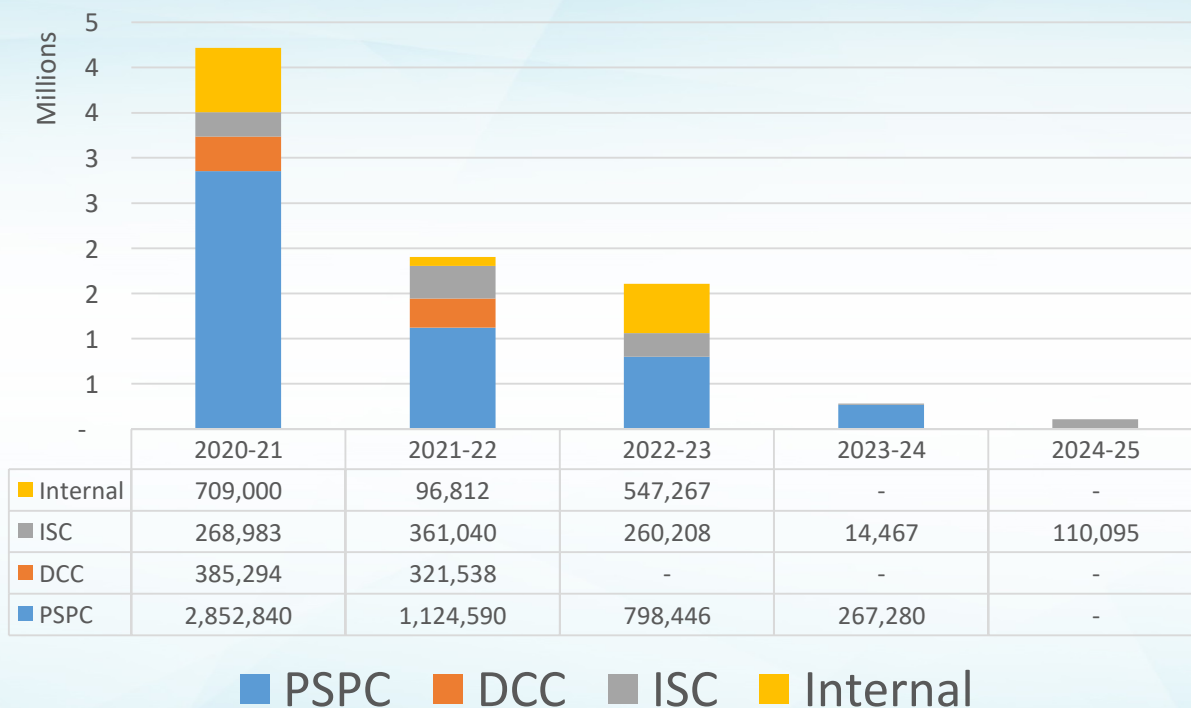
Remediation and Long Term Monitoring



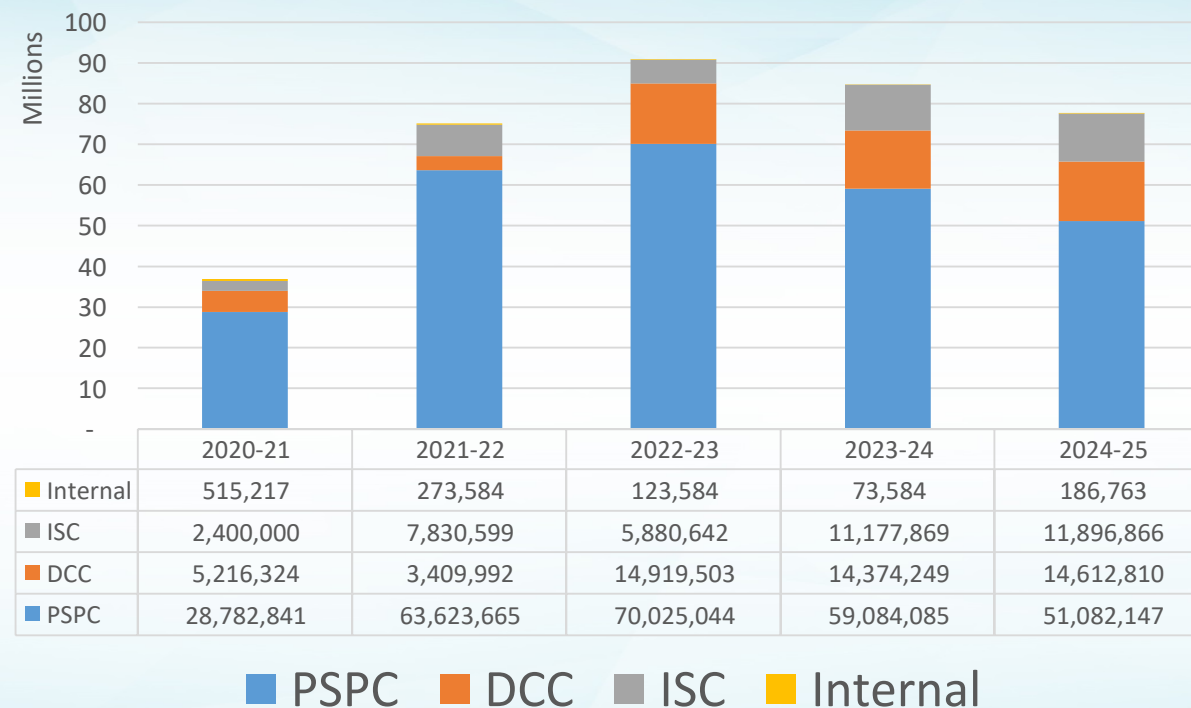
\$399.8M

Pacific – FCSAP Phase IV Funding by Procurement Provider

Assessment



Remediation & Long Term Monitoring



PSPC: Public Services and Procurement Canada; DCC: Defence Construction Canada; ISC: Indigenous Services Canada

Source: FCSAP Secretariat (April 2020)



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Interactive Map Tool

- Live interactive tool: <https://arcg.is/18aG19>
- Available on Federal Contaminated Sites Demand Forecasts GcCollab group:
 - [User Manual](#)
 - Complete [Federal CS Demand Forecast Analysis Report](#)



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FCSAP Phase IV Federal Contaminated Sites Action Plan / Northern Abandoned Mine Reclamation Program

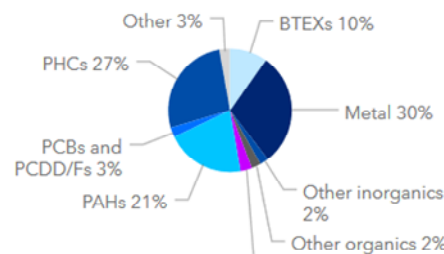
Geomatic Application Dashboard to represent FCSAP Sites and

Disclaimer:
January 2020: The data contained herewith is the best information currently available and provides a "big picture" overview of the FCSAP Sites.

Orange 1 - High Priority for Action
Blue 2 - Medium Priority for Action
Green 3 - Low Priority for Action

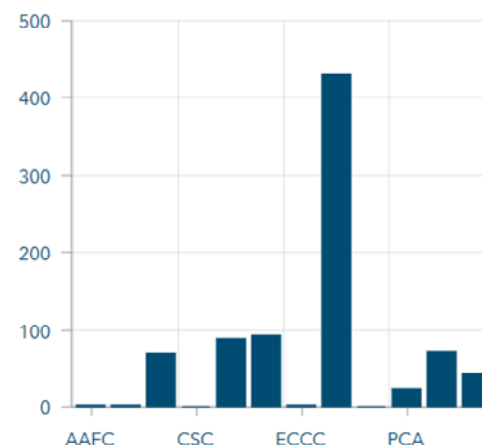
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Contaminant Type

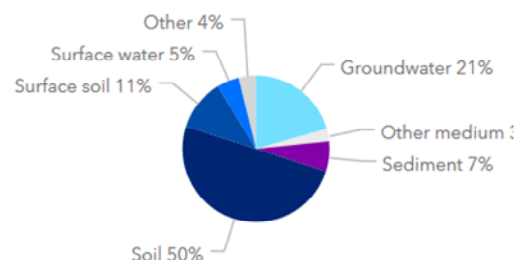


BTEXs benzene, toluene, ethylbenzene, and
Metals metal, metalloid, and organometallic
PAHs polycyclic aromatic hydrocarbon
PCBs polychlorinated biphenyl
PCDD/Fs polychlorinated dibenzo-p-dioxin/c

Custodians



Medium Type



AAFC Agriculture and Agri-Food Canada
CBSA Canada Border Services Agency
CIRNAC Crown-Indigenous Relations and Northern Affairs Canada
CSC Correctional Service Canada
DFO Department of Fisheries and Oceans
DND Department of National Defence
ECCC Environment and Climate Change Canada
ISC Indigenous Services Canada
ISED Innovation, Science and Economic Development Canada
JCCBI Jacques Cartier and Champlain Bridges
NCC National Capital Commission
NRC National Research Council
NRCan Natural Resources Canada
PCA Parks Canada Agency

Federal Contaminated Sites Action Plan

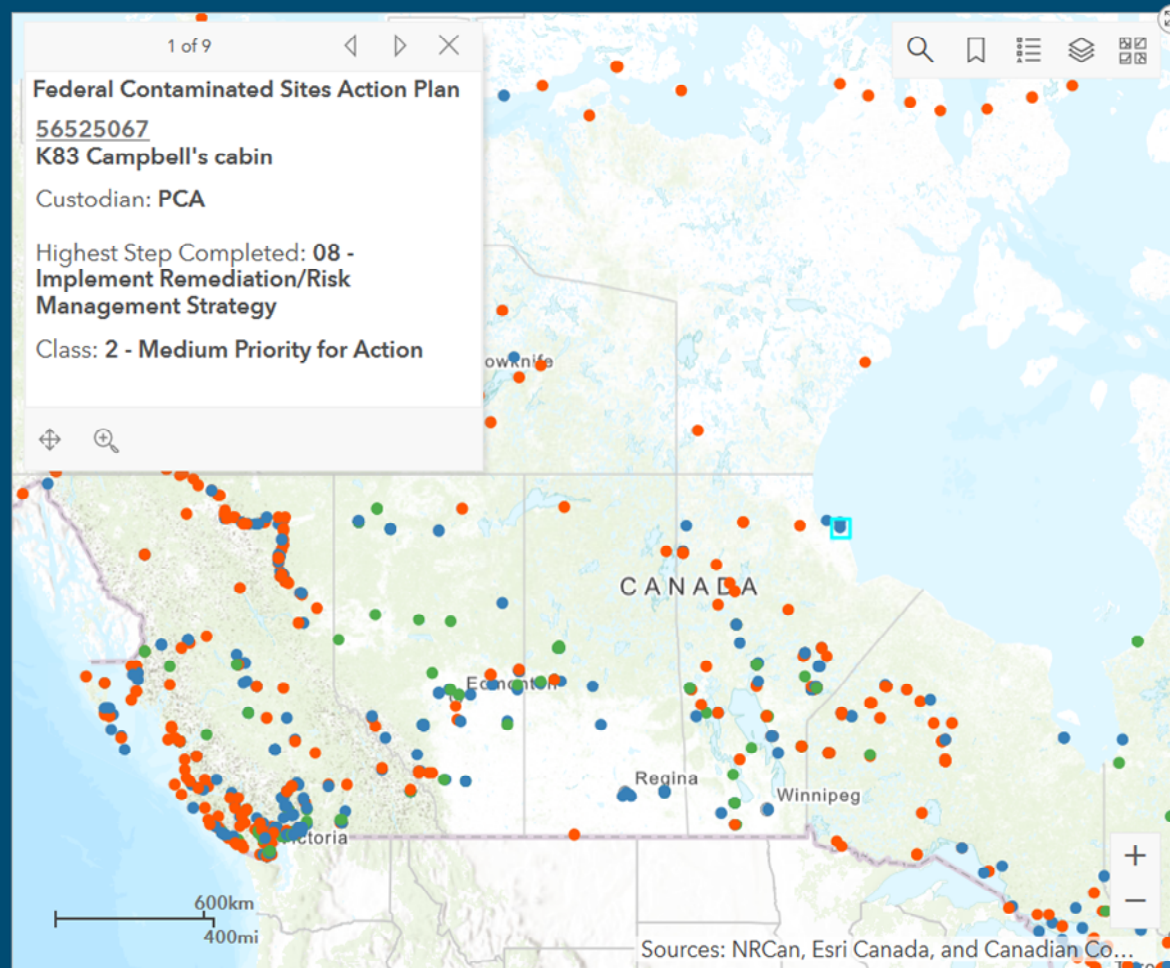
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K83 Campbell's cabin

Custodian: PCA

Highest Step Completed: 08 - Implement Remediation/Risk Management Strategy

Class: 2 - Medium Priority for Action



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Contact Information

ECCC – FCSAP Expert Support

Lindsey Wilson, Regional Coordinator BC/Yukon

Email: lindsey.wilson@canada.ca

General Inquiries: ec.pascf-fcsap.ec@canada.ca

Federal Contaminated Sites Website:

<https://www.canada.ca/en/environment-climate-change/services/federal-contaminated-sites.html>

CIRNA

Jeffrey Mackey, Director, Program Management

Email: jeffrey.mackey@canada.ca

DCC

Maria Drake, Regional Service Line Leader, Environmental Services

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PSPC

Regional Contact

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National Contact

Martine Lalande, Environmental Specialist

Email: martine.lalande@pwgsc.gc.ca

Office of Small and Medium Enterprise

Toll free: 1-866-602-0403

Email: OSME-BPME-Pac@tpsgc-pwgsc.gc.ca

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Access to GCcollab

- ❖ Step 1: Create an GCcollab account (<https://gccollab.ca/splash>).

If you have a non-federal government email address, there are 2 options:

- 1) Submit a ticket to the GCcollab Help Desk (<https://support.gccollab.ca/en/support/tickets/new>) requesting an account
- 2) Contact a Gccollab user for this person to invite you. e.g. Martine Lalande (martine.lalande@pwgsc.gc.ca)

- ❖ Step 2: Request Membership to join this group: **Federal Contaminated Sites Demand Forecasts / Prévisions de la demande reliée aux sites contaminés fédéraux** using this link:

<https://gccollab.ca/groups/profile/3625736/enfederal-contaminated-sites-demand-forecasts-pru00e9visions-de-la-demande-reliu00e9e-aux-sites-contaminu00e9s-fu00e9du00e9rauxfr>

- ❖ Step 3: When your membership request has been processed, you will be to access the files using this link: <https://gccollab.ca/file/group/3625736/all#>

If you have any questions/problems, please consult the FAQ GCcollab page:

<https://gccollab.ca/help/knowledgebase> or contact Martine Lalande (martine.lalande@pwgsc.gc.ca).



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