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**Decommissioning, Demolition and Site Restoration SSB HQ**  
**Southside Road, St. John's, NL**  
**Project No. R.111146.001**

2020/12/01

Section 02 81 00 – Hazardous Materials

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**PART 1      GENERAL**

**1.1      DESCRIPTION**

- .1      The Section specifies the requirements for the collection, containerization and disposal of Hazardous Waste Materials.
- .2      Refer to the hazardous material assessment report attached as an appendix to these specifications.
- .3      The summary of the hazardous materials present on site summarized below:
  - .1      Parging pipe insulation with chrysotile asbestos.
  - .2      Parging pipe elbow insulation with chrysotile asbestos.
  - .3      Actinolite asbestos in the rough coat parging finish on walls.
  - .4      Asbestos in the tar paper on interior walls.
  - .5      Asbestos in tar/fibre mesh between the foundation and brick exterior.
  - .6      Asbestos in tar paper from former exterior wall, now covered by renovations.
  - .7      Asbestos in tar paper behind the brick wall exterior.
  - .8      Asbestos in white caulking on interior walls.
  - .9      Asbestos in drywall joint compound on walls.
  - .10     Asbestos in select painted products on the ceiling (refer to hazardous material sampling report appended to specifications).
  - .11     Asbestos in fire rated doors/frames.
  - .12     Asbestos containing tar paper around the exterior of the building.
  - .13     Lead and mercury based paint (including leachable metal products). Refer to the Hazardous Building Material Assessment Report appended to the specifications.
  - .14     Lead-acid battery containing devices (i.e., emergency light fixtures), lead solder, mercury-containing thermostats, and suspected mercury-containing high intensity discharge (HID) and fluorescent light tubes and bulbs.
  - .15     PCB containing light ballasts.
  - .16     Potential sources of ozone depleting substances (ODS) including air conditioners, (HVAC) units, refrigerators, water bottle coolers and drink coolers. Refer to the attached Appendix for inventory and forms associated with halocarbons.
  - .17     Fuel storage tanks and chimney ash – refer to the hazardous material sampling report attached as an Appendix.
  - .18     PAHs in the oil fired boilers and chimney.
  - .19     Silica in the concrete, brick, drywall and mortar on site. A silica control plan is to be developed by the Contractor prior to starting demolition work.

**1.2      RELATED REQUIREMENTS**

- .1      Section 01 33 00 – Submittal Procedures.
- .2      Section 01 35 29.06 - Health and Safety Requirements
- .3      Section 02 82 00.01 - Asbestos Abatement Minimum Precautions

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- .4 Section 02 82 00.02 - Asbestos Abatement Intermediate Precautions
- .5 Section 02 82 00.03 - Asbestos Abatement Maximum Precautions
- .6 Section 02 83 10 – Lead-Based Paint Abatement Minimum Precautions
- .7 Section 02 83 11 - Lead-Based Paint Abatement Intermediate Precautions
- .8 Section 02 83 12 - Lead-Based Paint Abatement Maximum Precautions

### **1.3 SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide Hazardous Materials Management Plan to Departmental Representative that identifies hazardous materials, usage, location, personal protective equipment requirements, disposal procedures and arrangements.
- .3 Submit qualifications and training certificates for all Contractor's personnel performing Work as described under this Section prior to commencing Work.
- .4 Submit the hazardous materials disposal tracking information including final inventories of containers and disposal details to Departmental Representative prior to transportation off-site.
- .5 Submit waste transport manifests, chains of custody, and transportation documentation to the Departmental Representative and the Authority Having Jurisdiction, as required, prior to transportation off-site and in accordance with applicable regulations.
- .6 Submit destruction certificates to the Departmental Representative.
- .7 In the event of an environmental incident or damage to waste containers, notify the Departmental Representative and applicable Authority Having Jurisdiction.

### **1.4 QUALIFICATIONS AND PERSONNEL PROTECTION**

- .1 Contractor's worker must be thoroughly familiar with and knowledgeable about existing site conditions, scope of work, and requirements of the Specification.
- .2 Submit qualifications and training records prior to commencing Work under this Section, for all Contractor's personnel completing Work as described in this Section.
- .3 Provide suitable safety clothing and equipment as required during the course of the Work. Supply sufficient quantities of protection equipment to fit all site personnel including Departmental Representative, Departmental Representative's staff, and site visitors.
- .4 Provide workers with protection appropriate to the potential type and level of exposure. Establish specific safety protocols prior to commencing clean-up activities.

## **PART 2 - PRODUCTS**

## **2.1 MATERIALS**

- .1 Description:
  - .1 Bring only quantities of hazardous material required to perform Work on the sites.
  - .2 MSDS for suggested hazardous materials are to be approved by the Departmental Representative prior to transporting to the sites.
  - .3 Upon approval, maintain MSDS in proximity to where materials are being used. Communicate this location to personnel who may have contact with hazardous materials.
  
- .2 Hazardous Materials Containers:
  - .1 Containers must satisfy the requirements of the most recent edition of the TDGA and all applicable regulations, and in particular, the requirements for intermediate bulk containers for transport of hazardous materials.
  - .2 Submit specifications of the containers to Departmental Representative for review prior to mobilization. These details are to include written confirmation from Transport Canada that Contractor's proposed containers satisfy TDGA regulatory requirements for transport.
  - .3 Containers are to include all necessary liners to satisfy the TDGA requirements for transport.
  - .4 Provide access for Departmental Representative to inspect all Hazardous Waste Material Packaging as directed by Departmental Representative.

## **PART 3 – EXECUTION**

### **3.1 GENERAL REQUIREMENTS**

- .1 Conduct all Work in accordance with all appropriate provincial, municipal and federal legislation.
- .2 Temporary storage areas not permitted on site, unless confined to the footprint of the building being demolished.

### **3.2 PROTECTION**

- .1 Perform all work in an environmentally acceptable manner.
- .2 Avoid releasing any petroleum and allied petroleum products and hazardous materials into the environment during handling and storage.
- .3 In the event of a spill, implement the St. John's Base emergency response plan and take appropriate action.

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- .4 Provide a full range of clean-up and protective equipment at the site to contain and clean-up spills, and protect personnel. The clean-up equipment is to include booms (sorbent and containment), sorbents for clean-up, fire extinguishers for A-B-C fires, overpacks for contaminated soils, pumps, hand shovels, picks and containment barriers, such as plastic sheeting. Personal protective equipment is to include clothing, protective suits, respirators, etc. to comply with potential emergency conditions and in accordance with NIOSH guidelines.

### **3.3 REMOVAL AND SORTING OF HAZARDOUS MATERIALS**

- .1 Continually monitor remediation operations to identify potentially hazardous material.
- .2 Remove all hazardous materials derived from demolition work and dispose in accordance with governing regulations.
- .3 Remove asbestos in accordance with Section 02 82 00.01 – Asbestos Abatement – Minimum Precautions or Section 02 82.00 02 – Asbestos Abatement – Intermediate Precautions and Section 02 82 00.03 – Asbestos Abatement – Maximum Precautions.
- .4 Handle materials containing PCB/lead paint or suspected to contain PCB/lead paint in accordance with Section 02 83 12 – Lead Based Paint Abatement-Maximum Precautions, Section 02 83 11 – Lead Based Paint Abatement-Intermediate Precautions and Section 02 83 10 – Lead Based Paint Abatement-Minimum Precautions.
- .5 Submit specifications of the containers for handling and disposal of hazardous materials to Departmental Representative for review and approval prior to commencement of site remediation activities. Include all required approvals, as well as a description of the type and volume of containers.

### **3.4 CLEANING OF FUEL TANKS/ASTS/PIPELINES**

- .1 Debris at the sites may consist of fuel tanks, ASTs and pipelines which may contain fuel. Fuel tanks and waste tanks to be purged and cleaned in accordance with governing regulations and as outlined in Appendix F.
- .2 Prior to the demolition and removal of fuel tanks, ASTs and pipelines:
  - .1 Drain and flush all products in connected piping in a manner as to prevent spillage.
  - .2 Remove all residual fuel and isolate the line to prevent the passage of vapours.

### **3.5 CLEANING**

- .1 Leave Work area clean at end of each day.
- .2 Upon completion remove surplus materials, rubbish, tools and equipment.

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- .3 Waste Management: separate waste materials for transport off-site
  - .1 Dispose of hazardous waste materials in accordance with applicable federal and territorial acts, regulations, and guidelines.
  - .2 Recycle hazardous wastes for which there is approved, cost effective recycling process available.
  - .3 Send hazardous wastes to authorized hazardous waste disposal or treatment facilities.
  - .4 Burning, diluting, or mixing hazardous wastes for purpose of disposal is prohibited.
  - .5 Disposal of hazardous materials in waterways, storm or sanitary sewers, or in municipal solid waste landfills is prohibited.
  - .6 Dispose of hazardous wastes in timely fashion in accordance with applicable regulations.
  - .7 Minimize generation of hazardous waste to maximum extent practicable. Take necessary precautions to avoid mixing clean and contaminated wastes.
  - .8 Identify and evaluate recycling and reclamation options as alternatives to land disposal, such as:
    - .1 Hazardous wastes recycled in manner constituting disposal.
    - .2 Hazardous waste burned for energy recovery.
    - .3 Lead-acid battery recycling.
    - .4 Hazardous wastes with economically recoverable precious metals.

**END OF SECTION**