

**Part 1 General**

**1.1 SECTION INCLUDES**

- .1 Hazardous materials identification, removal, handling, and disposal.

**1.2 RELATED SECTIONS**

- .1 Section 01 10 10 – General Instructions.
- .2 Section 01 35 29 – Health and Safety Requirements.

**1.3 REFERENCES**

- .1 Province of Nova Scotia Acts and Regulations.
- .2 Clean Air Act (97 C-S.2):
  - .1 Regulation 97-132, Ozone Depleting Substances.
  - .2 Transportation of Dangerous Goods Act (TDG Act) (2011), (C.232).
  - .3 Transportation of Dangerous Goods Regulations (TDGR), (SOR/89-67, SOR/90-63, 2002-64).

**1.4 DEFINITIONS**

- .1 Dangerous Goods: Product, substance, or organism that is specifically listed or meets the hazard criteria established in Transportation of Dangerous Goods Regulations.
- .2 Ozone Depleting Substance (ODS): means a substance that, after being released into the environment, can, alone or in combination with other substances, deplete the ozone in the stratosphere.
- .3 Hazardous Material: Product, substance, or organism that is used for its original purpose; and that is either dangerous goods or a material that may cause adverse impact to the environment or adversely affect health of persons, animals, or plant life when released into the environment.
- .4 Hazardous Waste: Any hazardous material that is no longer used for its original purpose and that is intended for recycling, treatment or disposal.
- .5 Workplace Hazardous Materials Information System (WHMIS):
  - .1 A Canada-wide system designed to give employers and workers information about hazardous materials used in the workplace.
  - .2 Under WHMIS, information on hazardous materials is to be provided on container labels, material safety data sheets (MSDS), and worker education programs.
  - .3 WHMIS is a combination of federal and provincial jurisdictions with regulations.

**1.5 REGULATORY REQUIREMENTS**

- .1 Comply with Federal, Provincial, and local requirements pertaining to hazardous materials, provided that in case of conflict among those requirements or with these specifications the more stringent requirement applies.

- .2 Comply with regulations in effect at the time the Work is performed.
- .3 Contractor to employ persons licensed or certified by the Province of Nova Scotia for Work of this Section where required by legislation:
  - .1 Submit proof of certification to handle ozone depleting substances (ODS).

## **1.6 SEQUENCE OF WORK**

- .1 Removal and disposal of hazardous materials to be done prior to start of demolition procedures.

## **1.7 SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit to Consultant current Material Safety Data Sheet (MSDS) for each hazardous material required prior to bringing hazardous material on site.
- .3 Submit hazardous materials management plan to Consultant that identifies all hazardous materials, their use, their location, personal protective equipment requirements, and disposal arrangements.
- .4 Submit certified weigh bills, bills of lading and/or receipts from authorized disposal sites and/or reuse and recycling facilities for all hazardous materials removed from site upon request of Engineer-Architect.

## **1.8 STORAGE AND HANDLING**

- .1 Coordinate storage of hazardous materials with Consultant and abide by internal requirements for labelling and storage of materials and wastes.
- .2 Store and handle hazardous materials and wastes in accordance with applicable federal and provincial laws, regulations, codes, and guidelines.
- .3 Store and handle flammable and combustible materials in accordance with current National Fire Code of Canada requirements.
- .4 Observe smoking regulations at all times. Smoking is prohibited in any area where hazardous materials are stored, used, or handled.
- .5 Ensure personnel have been trained in accordance with Workplace Hazardous Materials Information System (WHMIS) requirements.

## **1.9 TRANSPORTATION**

- .1 Transport hazardous materials and wastes in accordance with federal Transportation of Dangerous Goods Act, Transportation of Dangerous Goods Regulations, and applicable provincial and municipal regulations.

**1.10 EXISTING CONDITIONS**

- .1 Hazardous material shall include all materials remaining on site that are without proper labelling, residual fluids in tanks, barrels and other containers, and plumbing, heating and other service lines not used for potable water.

**Part 2 Products**

**2.1 EQUIPMENT**

- .1 Provide tools, materials and equipment required to execute the Work of this Section.
- .2 Verify that persons performing the Work of this Section are wearing personnel protective equipment when working with hazardous materials.

**Part 3 Execution**

**3.1 STORAGE ENCLOSURE**

- .1 Designate a room with lockable entrance within the building for storage of hazardous materials until removed from site.
- .2 Store and identify hazardous materials in accordance with applicable Provincial regulations.
- .3 Provide portable fire extinguishers selected, installed, maintained, inspected and tested to National Fire Code of Canada.
- .4 Store materials and equipment to permit easy access for inspection.

**3.2 ODS ABATEMENT**

- .1 Refer to the Hazardous Material Survey for sources of ODSs. Verify actual sources by site review.
- .2 Before dismantling or disposing of equipment containing ODSs, the ODS must be recovered and handled in accordance with NB Regulation 97-132.

**3.3 DISPOSAL**

- .1 Drain and flush piping into tanks and other holding containers.
  - .1 Pump out all liquid from tank.
  - .2 Remove sludge from tank bottom.
- .2 Dispose of product and sludge in accordance with Local and Provincial regulations using a waste disposal carrier licensed by Provincial Environmental Agency having jurisdiction.
- .3 Dispose of hazardous waste materials in accordance with applicable federal and provincial acts, regulations, and guidelines.
- .4 Send hazardous wastes only to authorized hazardous waste disposal or treatment facilities.

- .5 Burning, diluting, or mixing hazardous wastes for purpose of disposal is prohibited.
- .6 Disposal of hazardous materials in waterways, storm or sanitary sewers, or in municipal solid waste landfills is prohibited.
- .7 Dispose of hazardous wastes in a timely fashion in accordance with applicable provincial regulations.

END OF SECTION