

1.1 DEFINITIONS

- .1 Hazardous Material: Product, substance, or organism that, when used for its original purpose, 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.
- .2 Watercourse: Refers to the bed and shore of a river, stream, lake, pond, marsh, estuary or salt-water body that contains water for at least part of the year.

1.2 FIRES

- .1 Fires and burning of rubbish on site not permitted.

1.3 DISPOSAL OF WASTES AND HAZARDOUS MATERIALS

- .1 Do not bury rubbish and waste materials on site. Dispose at approved landfill sites as specified in Section 01 74 21.
- .2 Do not dispose of hazardous waste or volatile materials, such as mineral spirits, paints, thinners, oil or fuel into waterways, storm or sanitary sewers or waste landfill sites.
- .3 Store, handle and dispose of hazardous materials and hazardous waste in accordance with applicable federal and provincial laws, regulations, codes and guidelines.
- .4 Dispose of construction waste materials and demolition debris, resulting from work, at approved landfill sites only. Carryout such disposal in strict accordance with provincial and municipal rules and

regulations. Separate out and prevent improper disposal of items banned from landfills.

- .5 Establish methods and undertake construction practices which will minimize waste and optimize use of construction materials. Separate at source all construction waste materials, demolition debris and product packaging and delivery containers into various waste categories in order to maximize recycling abilities of various materials and avoid disposal of debris at landfill site(s) in a "mixed state". Where recycling firms, specializing in recycling of specific materials exist, transport such materials to the recycling facility and avoid disposal at landfill sites.
- .6 Communicate with landfill operator prior to commencement of work, to determine what specific construction, demolition and renovation waste materials have been banned from disposal at the landfill and at transfer stations.

1.4 DRAINAGE

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
- .2 Do not pump water containing suspended materials into waterways, sewer or drainage systems.
- .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with governing regulations and requirements.

- .4 Pumped water must meet applicable federal, provincial, and municipal standards before it can be discharged to a surface water body. If regulatory guidelines exceedances are noted, the Departmental Representative has the right to issue stop pumping instructions to the Contractor. Contractor will not be compensated for any delays associated with retrofitting equipment to meet guidelines.
- .5 Provide control devices such as filter fabrics, sediment traps and settling ponds to control drainage and prevent erosion of adjacent lands. Maintain in good order for duration of work.

1.5 PERMITS

- .1 All guidelines and instructions stated on permits must be strictly followed. Refer to Appendix 'A'.
- .2 0.4 meter yellow spar buoys complete with flashing yellow lights having a Flash Characteristic of Fl 0.5 sec; Eclipse 3.5 sec and retro reflective tape are to be placed and maintained to delineate the outer seaward leading limits of the work during construction. When construction is completed these are to be removed.
- .3 Equipment utilized in dredging including any cables or mooring points must be marked at all times so as to be visible to boaters in the area.
- .4 If a containment device is placed in the water it must be marked at 15-meter intervals by 0.4 meter yellow cautionary floats.

1.6 WORK ADJACENT TO
WATERWAYS

- .1 Do not operate construction equipment in waterways.
- .2 Do not use waterway beds for borrow material.
- .3 Do not dump excavated fill, waste material or debris in waterways.
- .4 At borrow sites, design and construct temporary crossings to minimize erosion to waterways in strict conformance with provincial and federal environmental regulations.
- .5 Do not skid logs or construction materials across waterways.
- .6 Do not refuel any type of equipment within 100 m of a water body. Maintain equipment in good working condition with no fluid leaks, loose hoses or fittings.

1.7 POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local authorities emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads and around entire construction site.

- .5 Maintain inventory of hazardous materials and hazardous waste stored on site. List items by product name, quantity and date when storage began.
- .6 Have emergency spill response equipment and rapid clean-up kit, appropriate to work, at site. Locate adjacent to work and where hazardous materials are stored. Provide personal protective equipment as required for clean-up.
- .7 Report, to Federal and Provincial Department of the Environment, spills of petroleum and other hazardous materials as well as accidents having potential of polluting the environment. Also notify Departmental Representative and submit a written spill report to Departmental Representative within 24 hours of occurrence.
- .8 Provide a floating debris containment boom whenever any of the Contractors methods of work allow for the potential of floating debris.

1.8 WILDLIFE PROTECTION

- .1 Should nests of migratory birds in wetlands be encountered during work, immediately notify Departmental Representative for directives to be followed.
 - .1 Do not disturb nest site and neighboring vegetation until nesting is completed.
 - .2 Minimize work immediately adjacent to such areas until nesting is completed.
 - .3 Protect these areas by following recommendations of Canadian Wildlife Service.

1.9 TRANSPORTATION

- .1 Transport hazardous materials and hazardous wastes in compliance with the Federal Transportation of Dangerous Goods Act.
- .2 Do not overload trucks when hauling material. Secure contents against spillage.
- .3 Maintain equipment clean and free of mud, dirt, and other foreign matter.
- .4 Avoid potential release of contents and of any foreign matter onto highway, roads and access routes used for the Work. Take extra care when hauling dredged material and hazardous materials. Immediately clean any spillage and spoils.

1.10 DISPOSAL OF DREDGE SPOILS

- .1 Dredge spoils are to be placed within infill area as noted on the drawings. Any excess dredge spoils are to be transported to the Norris Arm Regional Waste Management Facility, with prior permission from the facility (contact Mr. Edward Evans at 709-653-2900). Disposal of spoils at any other location is not permitted.

1.11 WATER QUALITY

- .1 Conduct dredging of watercourse in such a manner to limit turbidity and reduce sediment suspension in the water to an absolute minimum at all times.
- .2 Where work may affect water intake lines and/or lobster holding facilities, schedule work in cooperation with the DFO SCH Harbour Authority Representative to minimize interference and impact to harbour users.

- .3 Visually monitor turbidity of the surrounding areas adjacent to the work and up to the established dredge limits of 200 metres.
 - .4 Should excessive change occur in the turbidity beyond the dredge limits which differs from existing conditions of surrounding water bodies, such as a distinct colour difference, please contact the departmental representative immediately.
- 1.12 FISH AND FISH HABITAT
- .1 No material toxic to fish or aquatic life shall be permitted to enter the watercourse. This includes, but is not limited to lubricants, fluids, cement, lime, or sediment.
 - .2 Consultation with local fishers should be conducted prior to start of the project and if necessary work completed outside of the lobster fishing season in Lobster Fishing Area 4B (i.e. May 12 to July 6), to avoid conflict.
 - .3 The operation of heavy equipment should be confined to dry stable areas

END OF SECTION