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**Washroom Buildings Recapitalization  
Buildings 32, 34 & 38  
Newman Sound Campground  
Terra Nova National Park, NL  
Proj. No.: R.079272.001**

Issued April 4, 2016

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## **1.1 Related Work**

- .1 Environment Protection: Section 01 35 43.

## **1.2 General**

- .1 Carry out work of this contract placing maximum emphasis on the areas of solid waste reduction, recyclability, the use of sustainable and environmentally friendly construction materials and practices that respond and are beneficial to the environment and to human health needs.
- .2 Within 14 days of contract award, prepare in writing an Environmental Protection Plan and a Waste Management Plan as specified below. Submit both plans to the Departmental Representative for review and approval. Make revisions to the plans as directed by Departmental Representative.
- .3 Implement both plans at start of Work. Manage and carryout all aspects of these plans for entire duration of Work.
- .4 Appoint person or persons responsible for managing, monitoring and ensuring compliance with Plans by subcontractors and workers.
- .5 Communicate the information contained in both plans and their intent to all subcontractors, suppliers and workers working on the construction project. Post a copy of both plans in a prominent location on site for viewing and review by workers.

## **1.3 Environmental Protection Plan**

- .1 Prepare an Environmental Protection Plan:
  - .1 Addressing the environmental responsibilities specified in the contract documents;
  - .2 Identifying specific materials, products and construction practices to be used that respond to and have a beneficial effect on the environment and to human health needs.
- .2 Develop plan in collaboration with the various subcontractors, including the electrical and mechanical subcontractors, to ensure that full advantage is taken of environmental protection opportunities.
- .3 To assist in developing the plan, become familiar with Environment Canada's Environmental Choice Program (ECP) and the ECP standards, as they apply to this project such as those relating to items such as adhesives, sealants, wallboards, solvent-borne paints, products made from recycled plastics and papers, etc...
- .4 In keeping with the intent of the Environmental Protection Plan, ensure that the following materials, where used in this project, are used to the maximum extent possible and acknowledge their use in the

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plan:

- .1 Paints: all paints used indoors shall be water based, low and preferably no VOC type.
  - .2 Flooring adhesives: shall be water dispersion, low toxicity type.
  - .3 Insulation: fibreglass insulation shall be a minimum 50% recycled. Mineral fibre shall contain a minimum 50% recycled fibre. Polystyrene insulations must be chlorofluorocarbon free.
  - .4 Drywall: gypsum board shall be manufactured with recycled gypsum and/or newsprint.
  - .5 Steel studs: shall contain a minimum 50% recycled steel.
  - .6 Plywood: all interior use plywood shall be exterior grade or certified formaldehyde free. Do not use exterior grade formaldehyde-containing plywood.
- .5 Review each section of the specifications to determine what other environmental considerations have been specified in regards to selection of materials and installation instructions to be followed.
- .6 Include in the plan, a list of all anticipated volatile and solvent based products to be used (ie: adhesives, sealants, solvents, paints, etc...) including those recognized and listed under the Workplace Hazardous Materials Information System (WHMIS).
- .1 Include actual product names, purpose of use and location or time within project where it will be used.
  - .2 Submit list to Departmental Representative prior to commencement of construction and make updates as work progresses including at major project milestones.
  - .3 Provide copies of WHMIS product data sheets as specified in section 01 35 28 Health and Safety.
- .7 Product Installations: Note that waterborne or low volatile content adhesives, sealers, sealants and finish coatings quite often require installation procedures, environmental temperatures and other application conditions which are different from those of conventional solvent based products used in the past. Longer set time (grab time) or curing period are sometimes required before other work can continue over the freshly applied material. Warmer temperatures and other environmental conditions may need to be provided on site for correct application.
- .1 None of the above conditions shall influence the Contractor and subcontractors into selecting, less environmentally friendly materials than those specified.
  - .2 Alternately, the Contractor and subcontractors shall, in their efforts to use good products and produce quality work, make all efforts to select materials which are considered "green" products containing:
    - .1 The lowest amount of toxic substances content available;
    - .2 Low VOC content;
    - .3 Least noxious odours possible;
    - .4 Core content from renewable resources;
    - .5 Considered most friendly to human health and to the environment.
- .3 Obtain all pertinent product data and installation instructions from manufacturers and provide suitable training to workers, as may be required, for any new products.
- .4 Make allowance in work schedule for longer installation periods, if so required.
- .5 Provide, by use of temporary devices as necessary, the correct temperature and environmental conditions as dictated by manufacturer for application of such "green" products.
- .6 Public Works and Government Services Canada shall not incur additional costs to the contract due to situations where Contractor must return a product which do not meet the environmental

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requirements specified for that material or for instances where special installation procedures or a longer time period, inherent with that product, was not anticipated by the Contractor.

- .8 Maintain dust control features and provide continuous ventilation of construction spaces, to prevent contaminants, fumes and odours from accumulating and spreading beyond the construction work area and into the adjacent occupied areas of the Facility. Protect tenant employees, public and workers from all harmful conditions and contaminants.
- .9 The Environmental Protection Plan shall include, as part of the work, a scheduled "off-gassing" period to occur at completion of work. The off-gassing period shall last a minimum of two weeks, commencing only when all finish work including painting have been done and are fully completed. Continuous ventilation of the work space to remain in place and functional during the off-gassing period.
- .10 Once the plan has been reviewed and approved by the Departmental Representative, take the necessary steps to ensure its full implementation over the course of Work.
- .11 Submission of the Environmental Plan does not relieve Contractor's responsibilities for:
  - .1 Health and safety of workers, building tenants and the general public and;
  - .2 Environmental responsibilities in regards to use, storage and disposal of hazardous materials in accordance with governing Laws and Regulations.

#### **1.4 Solid Waste Management Plan**

- .1 Prepare a Solid Waste Management Plan to minimize construction waste on this project. Include in plan the following minimum requirements to be followed on site:
  - .1 Undertake construction practices which will minimize waste and optimize use of materials such as:
    - .1 Use of a central cutting area to allow for easy access to off-cuts;
    - .2 Use of off-cuts for blocking and bridging elsewhere.
    - .3 Use of effective and strategically placed facilities on site for storage and staging of left-over or partially cut materials (such as gypsum board, plywood, ceiling tiles, insulation etc...) to allow for easy incorporation into work whenever possible avoiding unnecessary waste.
  - .2 Also separate waste resulting from new materials installed, including cardboard, containers and other packaging into separate piles. Send for recycling or disposal in a non-mixed state similar to requirements specified above.
  - .3 Establish methods whereby hazardous and toxic waste materials, and their containers, encountered or used as part of the work are properly handled, stored on site, removed and disposed of in accordance with applicable laws and regulations from authorities having jurisdiction.

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- .4 Use only approved landfill sites and transfer stations for disposal of construction waste.
- .5 Contact the authority having jurisdiction prior to commencement of work, to determine what, if any, construction waste materials have been banned from disposal in landfills and at transfer stations. Take appropriate action to isolate such banned materials at site of work and dispose in strict accordance with provincial and municipal regulations.
- .6 Cooperate with landfill operators' recycling program in place at their facility. Obtain and abide by their rules and recommendations for separation and receipt of waste at the facility. Support their effort of reducing landfill disposal to maximum extent possible.
- .2 Worker Training and supervision:
  - .1 Provide adequate worker training, through meetings and demonstrations, to emphasize purpose and worker responsibilities in carrying out the Waste Management Plan.

### **1.5 Disposal of Wastes**

- .1 Burying or burning of rubbish and waste materials is prohibited.
- .2 Disposal of waste, volatile materials, mineral spirits, oil, or paint thinner into waterways, storm, or sanitary sewers is prohibited.