

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- .1 Comply with requirements of this Section when performing following Work:
  - .1 Removal of lead-containing coatings with a chemical gel or paste or with non-powered hand tools (other than manual scraping and sanding) as deemed feasible by the Contractor and as approved by the Departmental Representative.

**1.2 SECTION INCLUDES**

- .1 Requirements and procedures for abatement of lead based paints.

**1.3 RELATED SECTIONS**

- .1 Section 02 83 11 – Lead-Based Paint Abatement – Intermediate Precautions
- .2 Section 02 83 12 – Lead-Based Paint Abatement – Maximum Precautions

**1.4 DEFINITIONS**

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with a filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Authorized Visitors: Departmental Representative or designated representative(s).
- .3 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects over cuts and tears, and elsewhere as required to provide protection and isolation. For protection of underlying surfaces from damage and to prevent lead dust entering in clean area.
- .4 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must be appropriate capacity for scope of work.
- .5 Action level: employee exposure, without regard to use of respirators, to airborne concentration of lead of 50 micrograms per cubic meter of air (50 ug/m<sup>3</sup>) calculated as 8-hour time-weighted average (TWA). Minimum precautions for lead abatement are based on airborne lead concentrations less than 0.05 milligrams per cubic meter of air for removal of lead based paint by methods noted in paragraph 1.1.
- .6 Competent person: Departmental Representative capable of identifying existing lead hazards in workplace taking corrective measures to eliminate them.
- .7 Lead dust: when wipe sampling on vertical surfaces and/or horizontal surfaces, dust and debris is considered to be lead contaminated if it contains more than 40

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micrograms of lead in dust per square foot.

- .8 Occupied Area: Areas of building or work site that is outside Work Area.

## **1.5 SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit written proof satisfactory to Departmental Representative that suitable arrangements have been made to dispose of lead based paint waste in accordance with requirements of Authority Having Jurisdiction.
- .3 Submit Federal/Provincial and/or local requirements for Notice of Project Form.
- .4 Provide proof of Contractor's General and Environmental Liability Insurance.
- .5 Quality Control:
- .1 Provide Departmental Representative necessary permits for transportation and disposal of lead based paint waste and proof that lead based paint waste has been received and properly disposed.
- .2 Provide proof satisfactory to Departmental Representative that employees have had instruction on hazards of lead exposure, respirator use, dress, and aspects of work procedures and protective measures.

## **1.6 QUALITY ASSURANCE**

- .1 Regulatory Requirements: comply with Federal, Provincial and local requirements pertaining to lead paint, provided that in case of conflict among those requirements or with these specifications more stringent requirement applies. Comply with regulations in effect at time work is performed.
- .2 Health and Safety:
- .1 Do construction occupational health and safety in accordance with Provincial OHS.
- .2 Safety Requirements: worker and visitor protection.
- .1 Protective equipment and clothing to be worn by workers and visitors in work Area include:
- .1 Respirator NIOSH approved and equipped with replaceable HEPA filter cartridges with an assigned protection factor of (10), acceptable to Authority Having Jurisdiction. Suitable for type of lead and level of lead dust exposure. Provide sufficient amount of filters.
- .2 Half mask respirator: half-mask particulate respirator with N,R or P -series filter, and 100 % efficiency could be provided.
- .2 Eating, drinking, chewing, and smoking are not permitted in work area.
- .3 Ensure workers wash hands and face when leaving work area.

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**.4 Visitor Protection:**

- .1** Provide approved respirators to Authorized Visitors to work areas.
- .2** Instruct Authorized Visitors procedures to be followed in entering and exiting work area.

**1.7 WASTE MANAGEMENT AND DISPOSAL**

- .1** Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Federal/Provincial and municipal regulations.
- .2** Disposal of lead waste generated by removal activities must comply with federal, provincial and municipal regulations. Dispose of lead waste in sealed double thickness 6 ml bags or leak proof drums. Label containers with appropriate warning labels.
- .3** Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

**1.8 EXISTING CONDITIONS**

- .1** Refer to Hazardous Material Assessment report appended to these specifications.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- .1** Polyethylene 0.15 mm thick unless otherwise specified; in sheet size to minimize joints.
- .2** Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under dry conditions and wet conditions using amended water.
- .3** Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual lead paint residue.
- .4** Lead waste containers: metal or fibre type acceptable to dump operator with tightly fitting covers and 0.15 mm thickness sealable polyethylene liners.
  - .1** Label containers with pre-printed bilingual cautionary Warning Lead clearly visible (in English and French) when ready for removal to disposal site.

**PART 3 - EXECUTION**

**3.1 SUPERVISION**

- .1** Approved Supervisor must remain within work area during disturbance, removal, or handling of lead based paints.

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### **3.2 PREPARATION**

- .1 Work Area:
  - .1 Shut off and isolate HVAC system to prevent dust dispersal into other building areas. Conduct smoke tests to ensure duct work is airtight.
  - .2 Pre-clean fixed casework and equipment within work area, using HEPA vacuum and cover and seal with polyethylene sheeting and tape.
  - .3 Clean work area using HEPA vacuum. If not practicable, use wet cleaning method. Do not raise airborne dust level.
  - .4 Seal off openings with polyethylene sheeting and seal with tape.
  - .5 Protect floor surfaces covered from wall to wall with polyethylene sheets.
  - .6 Maintain emergency fire exits or establish alternatives satisfactory to Authority Having Jurisdiction.
  - .7 Where water application is required for wetting lead containing materials, provide temporary water supply appropriately sized for application of water as required.
  - .8 Provide electrical power and shut off for operation of powered tools and equipment. Provide 24 volt safety lighting and ground fault interrupter (GCFI) circuits on power source for electrical tools, in accordance with applicable CSA Standard. Ensure safe installation of electrical cables and equipment.
- .2 Do not start work until:
  - .1 Arrangements have been made for disposal of waste.
  - .2 Tools, equipment, and materials waste containers are on site.
  - .3 Arrangements have been made for building security.
  - .4 Notifications have been completed and preparatory steps have been taken.

### **3.3 LEAD ABATEMENT**

- .1 Removal of lead-containing coatings with a chemical gel or paste and fibrous laminated cloth wrap; or removal equipped with HEPA filters; or removal with using power tools non-powered hand tool, other than manual scraping and sanding.
- .2 Remove lead based paint in small sections and pack as it is being removed in sealable 0.15 mm plastic bags and place in labelled containers for transport.
- .3 Seal filled containers. Clean external surfaces thoroughly by wet sponging. Remove from immediate working area to staging area. Clean external surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to outside. Ensure containers are removed by workers who have entered from uncontaminated areas dressed in clean coveralls.
- .4 After completion of stripping work, wire brush and wet sponge surface from which lead based paint has been removed to remove visible material. During this work keep surfaces wet.
- .5 After wire brushing and wet sponging to remove visible lead based paint, and after encapsulating lead containing material impossible to remove, wet clean entire work

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area, and equipment used in process. After inspection by Departmental Representative apply continuous coat of slow drying sealer to surfaces of work area. Do not disturb work area for eight (8) hours (no entry), activity, ventilation, or disturbance during this period.

### **3.4      INSPECTION**

- .1      Perform inspection to confirm compliance with specification and governing authority requirements. Deviations from these requirements not approved in writing by Departmental Representative will result in work stoppage, at no cost to Departmental Representative.
  
- .2      Departmental Representative will inspect work for:
  - .1      Adherence to specific procedures and materials.
  - .2      Final cleanliness and completion.
  - .3      No additional costs will be allowed by Contractor for additional labour or materials required to provide specified performance level.

**END OF SECTION**