

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1        Removal and disposal of impacted soil present in the vicinity of the existing inground bus lift hoists.

**1.2                RELATED REQUIREMENTS**

- .1        Section 31 23 33 – Excavation, Trenching, and Backfilling

**1.3                ADMINISTRATIVE REQUIREMENTS**

- .1        Comply with all applicable legislation and by-laws, including, but not limited to:
  - .1        Treatment and Disposal of Petroleum Contaminated Soil, June 2016
  - .2        Contaminated Sites Remediation Act (CSRA), April 2014.
- .2        Coordination
  - .1        The Contractor shall coordinate with all regulatory agencies having authority and scheduling for delivery of materials to the Provincial approved treatment/disposal facility.
  - .2        The Contractor shall notify the Contract Administrator within two (2) hours upon discovery of any petroleum contaminated materials.
  - .3        The Contractor shall provide at least two (2) working days' notice to the Project Administrator prior to the removal of any contaminated soil.

**1.4                GENERAL**

- .1        Excavation, transportation, and disposal, at a Manitoba Sustainable Development approved facility, of contaminated soil, debris, concrete, and stone, containing gasoline, fuel oil, and lube oil range hydrocarbons as confirmed by on-site inspection and testing.
- .2        Segregation and stockpiling of clean overburden material, if present, for potential re-use as backfill.
- .3        Containment, transportation, and disposal, by a licensed disposal contractor, of any free phase petroleum product, as directed by the Contract Administrator.
- .4        Containment, treatment, and disposal of all groundwater in excavations, all run-off entering the excavations and wash water generated during the excavation of soils as agreed to by the Contract Administrator and regulatory authorities.
- .5        Coordination with all regulatory agencies having authority and scheduling for delivery of materials to the Provincial approved treatment/disposal facility.

**1.5                REMOVAL**

- .1        The Contract Administrator or his representative will oversee contaminated material removal activities and will make decisions as to the extent of contaminated material removed.

- .2 The Contract Administrator will provide instructions as to the method and type of record keeping required for documenting quantities of contaminated soil to be transported off-site for disposal.
  - .1 Make submittals of documents in accordance with Section 01 33 00 - Submittal Procedures.
- .3 Locate and protect adjacent structures and foundations, trees, lawns, fencing, service poles, wires, utilities, paving, survey benchmarks, monitoring wells, and monuments not intended for removal which may be affected by the Work.
- .4 Notify all regulatory agencies having authority, as required.
- .5 All excavations are to remain within the established site property boundaries.
- .6 The vertical and lateral limits of the excavations will be based on area required for the completion of work.

## **1.6 CONTAINMENT OF MATERIAL ON SITE**

- .1 All groundwater in excavations, all run-off entering the excavations of impacted soil and wash water generated during the excavation of impacted soils, will be temporarily stored on-site in spill-proof and leak-proof containers, as approved by the Contract Administrator, prior to their disposal. All waters will be disposed based upon the Contractor's method, as approved by the Contract Administrator, following receipt of analytical results. The Contractor shall be prepared to demonstrate that the treatment method is the most cost efficient. In addition, the Contract Administrator shall demonstrate that the methodology chosen has minimized the amount of impacted materials on the site.
- .2 Contractor shall cover contaminated soil stockpiles temporarily staged on the site at all times with PVC plastic or equivalent to prevent loss or erosion.
- .3 All free phase petroleum products will be contained in spill and leak proof containers, as approved by the Contract Administrator, prior to removal off-site for disposal.
- .4 All storage vessels for soils, product or groundwater must be readily accessible for sampling by the Contract Administrator. These vessels must have a means of securing access to prevent unauthorized and/or accidental entry into the vessels by trespassers.
- .5 All storage vessels for soils, product and groundwater must be readily accessible for clean-out prior to their removal from the site.

## **1.7 TESTING**

- .1 All contaminant sampling and testing of soils and water will be carried out by the Contract Administrator. All other sampling and testing will be conducted by the Contractor at their expense.
- .2 Following completion of final soil testing, documentation shall be prepared by the Contract Administrator. Samples may require up to five (5) working days to receive analytical results; Contractor to schedule work to conform to this timing.
- .3 The Contract Administrator shall contact Regulatory Agency for agreement that contamination has been cleaned up.

**1.8 PROTECTION**

- .1 Prevent debris from blocking roads, ditches, and drains.
- .2 Ensure safe passage of persons around the excavation area.
- .3 Suppress dust and odours during excavation activities.

**END OF SECTION**