

**LPH SOIL REMEDIATION  
FORMER LANDFILL AND  
ASPHALT PLANT  
OTTER CREEK  
HAPPY VALLEY-GOOSE BAY  
NEWFOUNDLAND AND LABRADOR  
PROJECT NO. R.082578.001**

---

## **1 GENERAL**

### **1.01 RELATED REQUIREMENTS**

- .1 Section 02 41 16 - Selective Site Demolition.
- .2 Section 31 23 10 - Excavation, Trenching and Backfilling.

### **1.02 REFERENCES**

- .1 ASTM International
  - .1 ASTM D 4791-10, Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate.
- .2 U.S. Environmental Protection Agency (EPA)/Office of Water
  - .1 EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

### **1.03 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Samples:
  - .1 Allow continual sampling by Departmental Representative during production.
  - .2 Provide Departmental Representative with access to source and processed material for sampling.
  - .3 Provide front end loader or other suitable equipment including trained operator for stockpile sampling as necessary. Move samples to storage place as directed by Departmental Representative.
  - .4 Supply new or clean sample bags or containers according appropriate to aggregate materials.
  - .5 Pay cost of sampling and testing of aggregates which fail to meet specified requirements.

### **1.04 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Transportation and Handling: handle and transport aggregates to avoid segregation, contamination and degradation.
- .3 Storage: store washed materials or materials excavated from underwater 24 hours minimum to allow free water to drain and for materials to attain uniform water content.

LPH SOIL REMEDIATION  
FORMER LANDFILL AND  
ASPHALT PLANT  
OTTER CREEK  
HAPPY VALLEY-GOOSE BAY  
NEWFOUNDLAND AND LABRADOR  
PROJECT NO. R.082578.001

---

## 2 PRODUCTS

### 2.01 MATERIALS

- .1 Aggregate quality: sound, hard, durable material free from soft, thin, elongated or laminated particles, organic material, clay lumps or minerals, free from adherent coatings and injurious amounts of disintegrated pieces or other deleterious substances.
- .2 Flat and elongated particles of coarse aggregate: to ASTM D 4791.
  - .1 Greatest dimension to exceed 5 times least dimension.
- .3 Coarse aggregates satisfying requirements of applicable section to be one of or blend of following:
  - .1 Crushed rock.
  - .2 Gravel and crushed gravel composed of naturally formed particles of stone.
  - .3 Light weight aggregate, including slag and expanded shale.
- .4 Filter Stone/Ballast/Armour Stone:
  - .1 To be blasted, quarried rock, well graded within size range indicated on the drawings.
  - .2 Greatest dimension of each stone not to exceed two (2) times the least dimensions.
  - .3 Hard, angular rock free from cracks, seams and other defects which may impair durability.
  - .4 Relative density, 2.65 minimum.
  - .5 Absorption: 1.5 to 2.0% maximum as determined by ASTM C127 test procedure.
  - .6 Durability: less than 35% abrasion wear, ASTM C535 test procedure.
  - .7 Sulphate Soundness Determination Maximum 12% by ASTM C88-05.

### 2.02 SOURCE QUALITY CONTROL

- .1 Inform Departmental Representative of proposed source of aggregates and provide access for sampling 1 week minimum before starting production.
- .2 If materials from proposed source do not meet, or cannot reasonably be processed to meet specified requirements, locate alternative source.
- .3 Advise Departmental Representative 1 week minimum in advance of proposed change of material source.
- .4 Acceptance of material at source does not preclude future rejection if it fails

**LPH SOIL REMEDIATION  
FORMER LANDFILL AND  
ASPHALT PLANT  
OTTER CREEK  
HAPPY VALLEY-GOOSE BAY  
NEWFOUNDLAND AND LABRADOR  
PROJECT NO. R.082578.001**

---

to conform to requirements specified, lacks uniformity, or if its field performance is found to be unsatisfactory.

### **3 EXECUTION**

#### **3.01 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning and leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Leave aggregate stockpile site in tidy, well drained condition, free of standing surface water.
- .4 Waste Management: separate waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
- .5 For temporary or permanent abandonment of aggregate source, restore source to condition meeting requirements of authority having jurisdiction.
- .6 Restrict public access to temporary or permanently abandoned stockpiles by means acceptable to Departmental Representative.

**END OF SECTION**