

STORMWATER OIL & SEDIMENT SEPERATOR CONSTRUCTION

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2.8 Mortar

- 2.8.1 Shall consist of one (1) part Type S Sulphate Resistant Portland Cement to three (3) parts clean sharp sand, mixed dry. Sufficient water shall be added after mixing to give optimum consistency for placement. No additives shall be used.

2.9 Approved Separators

- 2.9.1 Approved stormwater oil and sediment separators are "Stormceptor", "CDS Technologies", and "ADS". Other manufacturers will require review and approval by the City.

2.10 Access

- 2.10.1 The final constructed separator shall provide for adequate clean-out and inspection access.

3.0 PERFORMANCE

3.1 General

- 3.1.1 Separators shall be sized as per manufacture's specifications according to maximum anticipated flow rates, volumes, and contaminant loads determined by current engineering standards and methods.
- 3.1.2 Separators shall be designed to prevent contaminant re-suspension.
- 3.1.3 Separators shall be so designed that they will not become air bound.

3.2 Total Suspended Solids

- 3.2.1 The separator shall be capable of removing 80 percent of the peak flow total suspended solids (TSS) load without scouring previously captured pollutants.

- 3.2.2 The separator shall be capable of trapping fine sand, silt, clay, and organic particles in addition to larger sand, gravel particles and small floatables.

3.3 Free Oil

- 3.3.1 The separator shall be capable of removing 95 percent of the floatable free oil from stormwater.

- 3.3.2 The first 400mm of hydrocarbon storage in concrete separators shall be lined with fibreglass to provide a double wall containment of the hydrocarbon materials.