

**\*\*\* DRAFT – NOT FOR FILING \*\*\***

3745-511-410

**Leachate collection system drainage layer.**

(A) The leachate collection system drainage layer shall consist of one or more of the following engineered components:

(1) A granular drainage layer that conforms to paragraph (E) of this rule.

(2) A shredded tire layer that conforms to paragraph (F) of this rule.

(3) A geocomposite drainage layer, which shall also include an overlying permeable material layer. A leachate collection system drainage layer comprised of geocomposite shall be covered by not less than twelve inches of permeable material.

(4) Leachate collection system pipes that conform to rule 3745-511-432 of the Administrative Code. If leachate collection system pipes are not a component of the leachate drainage layer, another means to measure temperature at the base of the leachate drainage layer shall be provided.

(B) In addition to the engineered components listed in paragraph (A) of this rule, the leachate collection system drainage layer may include a filter layer. If included, the filter layer shall conform to rule 3745-511-440 of the Administrative Code.

(C) The basal elevation of the leachate collection system drainage layer shall have the following slopes:

(1) A slope not less than 0.5 per cent beneath leachate collection system pipes.

(2) A slope not less than 2.0 per cent in all other areas.

(D) The leachate collection system drainage layer shall conform to the requirements to meet the stability standards in rules 3745-511-20 to 3745-511-72 of the Administrative Code.

(E) A leachate collection system drainage layer comprised of granular materials shall be designed to have a thickness of not less than one foot. The permitting authority may approve use of an alternative thickness provided the applicant demonstrates that the depth of leachate above the basal elevations of the drainage layer will not exceed one foot at all times prior to the end of the post-closure care period in all areas other than in a sump.

(F) A leachate collection system drainage layer comprised of tire shreds shall be designed to meet the following criteria:

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- (1) Have a thickness not less than twelve inches and not more than twenty-four inches, accounting for compression due to the weight of waste or C&DD.
- (2) If the drainage layer is placed above a flexible membrane liner, a cushion layer shall be placed between the flexible membrane liner and the drainage layer. The cushion layer shall consist of either of the following:

  - (a) A drainage layer comprised of granular material designed to have a thickness not less than ten inches.
  - (b) A geotextile or geocomposite.