

*** DRAFT – NOT FOR FILING ***

3745-512-432 Leachate collection system pipes.

(A) Leachate collection system pipes and sump risers shall meet the following criteria:

- (1) Be permanently fused together.
- (2) If perforated, shall not be wrapped with filter fabric.

(B) The owner or operator shall surround leachate collection system pipes with material to protect the pipes from crushing, deflection, and deformation. The surrounding material shall not be wrapped with filter fabric.

(C) All leachate collection system pipe cleanout access, sample access, and sump risers shall have removable covers that are designed to prevent foreign materials from entering the leachate management system and to prevent odors and gas from being released.

(D) Materials used by the owner or operator for leachate collection system pipes, surrounding pipes, cleanout access, sample access, and sump risers shall meet the following criteria:

- (1) Be resistant to crushing and deformation under the expected maximum loads and settlement.
- (2) Material used by the owner or operator to surround pipes shall meet the following criteria:
 - (a) Have a permeability not less than the permeability of the leachate drainage layer.
 - (b) Have a uniformity coefficient less than 5.0.
 - (c) Contain particles with dimensions that will not clog any pipe perforations.
 - (d) Have not more than five per cent carbonate content by weight using ASTM D3042, as described in rule 3745-500-03 of the Administrative Code, at a pH of 4.0.

(3) Pipes and risers shall be composed of high density polyethylene (HDPE), unless an alternative material, other than corrugated metal, is approved in accordance with rule 3745-512-17 of the Administrative Code.

(E) Pre-construction testing of material used to surround leachate collection system pipes shall be performed by the owner or operator on representative samples in accordance with rule 3745-512-15 of the Administrative Code.

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(F) Certification of the leachate collection system pipes by the owner or operator shall include the following:

- (1) Record drawings of the pipes showing the location of the pipes in plan view, the slope of the pipes, and the elevation of the pipe invert at the ends of each run of pipe, as constructed.
- (2) The table of survey information described in rule 3745-512-50 of the Administrative Code and a comparison of the survey data to the elevations in the authorizing document.
- (3) Record drawings showing the location, plan views, and elevations of the sumps.
- (4) Drawings showing the details of the cleanout access, sample access, sumps, and sump risers, as constructed.
- (5) Results of all testing and verification that the pipes meet the standards in paragraphs (A) to (D) of this rule and the specifications in the authorizing document. If an alternative material is used, the evaluation conducted pursuant to rule 3745-512-17 of the Administrative Code was submitted prior to use of the alternative material and therefore verification is not required to be submitted with the construction certification report under this rule. However, results of all testing to verify that the alternative material meets material specifications are required in the construction certification report.