

*** DRAFT – NOT FOR FILING ***

3745-512-221 In situ foundation.

(A) The in situ foundation shall conform to the following:

- (1) Be free of foreign material and deleterious material.
- (2) Be free of industrial waste, solid waste, and C&DD.
- (3) If a flexible membrane liner is to be placed upon the in situ foundation, the in situ foundation shall meet the following criteria to provide direct and uniform contact:
 - (a) The surface shall have no particles with a maximum dimension greater than 0.5 inches.
 - (b) If the in situ foundation is comprised of unconsolidated material, the surface shall be proof rolled to locate soft areas that are to be either compacted or replaced with added geologic material meeting the requirements of rule 3745-512-222 of the Administrative.

(B) For any stratigraphic unit in the in situ foundation that may be a critical layer that was not tested and reported in the application for the authorizing document, the owner or operator shall perform pre-construction testing on representative samples to determine shear strength in accordance with rule 3745-512-10 of the Administrative Code.

[Comment: If in situ foundation material is removed and the replacement material does not meet the standards of added geologic material in rule 3745-512-222 of the Administrative Code, the reconstructed area of in situ foundation could become part of the uppermost aquifer system. If the uppermost aquifer system is extended, then the separation distance between the uppermost aquifer system and liner system is reduced. Possible consequences of the reduction are that the facility no longer meets siting criteria or the design is no longer appropriate for waste or C&DD to be disposed.]

(C) The location and final elevation of the in situ foundation shall be surveyed prior to constructing any engineered component on the in situ foundation.

(D) Certification of in situ foundation preparation by the owner or operator shall include the following:

- (1) Record drawings showing the location and plan views with topographic representation of the elevations of the in situ foundation as it existed after preparation was completed.

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(2) The results of all testing and verification that the in situ foundation preparation meets the standards in paragraph (A) of this rule and the specifications in the authorizing document.