

***** DRAFT – NOT FOR FILING *****

3745-520-249

Leachate recirculation system design.

(A) The leachate recirculation system shall be designed to conform to the following:

(1) Be located in a phase that has a liner system that conforms to paragraph (C)(1), (C)(2), or (C)(4)(b) of rule 3745-520-230 of the Administrative Code.

[Comment: This requirement means that leachate recirculation systems may only be located in a phase that has a liner system containing a flexible membrane liner component.]

(2) Be located in a phase that has a leachate management system that conforms to rule 3745-520-240 of the Administrative Code.

(3) Be located in a phase that has a gas management system that conforms to rule 3745-520-275 of the Administrative Code.

(4) Release leachate back into disposed material in a manner that uniformly distributes the leachate within the disposed material and maximizes the contact of leachate with the disposed material, except that leachate shall not be recirculated within fifty feet of a horizontal boundary of disposed material.

(5) Not use surface application, open pits, or open excavations as methods for distributing leachate into the disposed material.

(6) Prevent the release of leachate to surface water control structures and minimize leachate outbreaks.

(B) The leachate management system shall have the capacity to handle the additional leachate. The facility design plan shall include a demonstration that the following criteria are met:

(1) The depth of leachate above the basal elevations of the leachate collection system will not exceed one foot, except in sumps, during and after the period when leachate is recirculated.

(2) The leachate pipes, conveyance structures, pumps, and holding tanks have adequate capacity to manage the amount of leachate to be recirculated.

(3) The leachate drainage layer, filter layer, and pipes will not be damaged by the increased vertical compressive stress.

(C) The design of the C&DD facility shall conform to the long-term deep-seated translational and rotational stability standards in rule 3745-511-40 of the

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Administrative Code while accounting for the increased pore water pressure during and after the period when leachate is recirculated.