

*** DRAFT – NOT FOR FILING ***

3745-511-210

Ground water control structures.

(A) Temporary and permanent ground water control structures shall be designed to meet the following criteria:

(1) Engineered components of the liner system shall not be used as ground water control structures.

(2) Maintenance of the ground water control structures is minimal.

(3) For permanent ground water control structures, control of ground water flow shall be through the use of non-mechanical means (such as impermeable barriers or permeable drainage structures) to prevent the following:

(a) Flow of ground water through the liner into the disposal limits.

(b) Damage to the liner system from seepage forces caused by high gradients.

(B) No permanent ground water control structures may be used to permanently dewater an aquifer system, except if the recharge and discharge zones of the aquifer system are located entirely within the facility boundary.

(C) Temporary ground water control structures using mechanical or non-mechanical means may be used to depress the phreatic or piezometric surface to address seepage or hydrostatic uplift below the liner system. Temporary ground water control structures may be in operation while the liner system is constructed and during operations of the facility. However, in accordance with rules 3745-511-20 and 3745-511-25 of the Administrative Code, the effects of depressing the phreatic or piezometric surface cannot be used in determining the factor of safety against hydrostatic uplift and seepage forces.