

R18-9-E306.4.06 General Permit: Natural Seal Evapotranspiration Bed, Less Than 3000 Gallons Per Day Design Flow

- A. A 4.06 General Permit allows a natural seal evapotranspiration bed receiving wastewater treated to a level equal to or better than that provided by a 4.02 General Permit septic tank. This general permit authorizes the discharge of wastewater from a septic tank that meets the requirements of R18-9-E314 to the general permitted disposal feature described in this Section.
1. Definition. For purposes of this Section, a “natural seal evapotranspiration bed” means a disposal technology characterized by a bed of sand or other durable media with an internal wastewater distribution system, contained on the bottom and sidewalls by an engineered liner consisting of natural soil and clay materials.
 2. An applicant may use a natural seal evapotranspiration bed if site conditions restrict soil infiltration or require reduction of the volume or nitrogen content of wastewater discharged to the native soil underlying the natural seal liner.
- B. Restrictions. Unless a person provides design documentation to show that a natural seal evapotranspiration bed will properly function, the person shall not install this technology if:
1. Average minimum temperature in any month is 20E° F or less,
 2. Over 1/3 of the average annual precipitation falls in a 30-day period, or
 3. Design flow exceeds net evaporation.
- C. Performance. An applicant shall ensure that a natural seal evapotranspiration bed:
1. Minimizes discharge to the native soil through the natural seal liner,
 2. Maximizes wastewater disposed to the atmosphere by evapotranspiration, and
 3. Prevents ponding of wastewater on the bed surface and maintains an interval of unsaturated media directly beneath the bed surface.
- D. Reference design.
1. An applicant may design and install a natural seal evapotranspiration bed with the performance required in subsection (C), following a reference design on file with the Department.
 2. The applicant shall file a form provided by the Department for supplemental information about the proposed system with the applicant’s Notice of Intent to Discharge.
- E. Alternative design. An applicant may submit an alternative to the reference design for a natural seal evapotranspiration bed that achieves the performance requirements specified in subsection (C) by following requirements specified in R18-9-A312(G).
1. The Department shall consider the submittal of an alternative design as one design change to establish the applicable fee under 18 A.A.C. 14.
 2. The applicant shall file a form provided by the Department for supplemental information about the proposed system with the applicant’s Notice of Intent to Discharge.

Historical Note

New Section adopted by final rulemaking at 7 A.A.R. 235, effective January 1, 2001 (Supp. 00-4).