

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NUTRIENT-REDUCING WASTEWATER TREATMENT SYSTEM DESIGNATION FORM

DATE: February 16, 2011 (Revised April 23, 2012)

APPLICATION SUBMITTAL DATE(S): November 24, 2010; January 11, 2011

SYSTEM MANUFACTURER: SepticNET, Inc.

SYSTEM NAME(S): SepticNET

DESIGNATED TREATMENT LEVEL¹: Level 2 (Can use 7.5 mg/L for effluent total nitrogen concentration in nitrate sensitivity analysis for residential strength wastewater. A nitrate mixing zone analysis is not required for residential strength wastewater to comply with nondegradation requirements or water quality standards because the effluent does not exceed the applicable concentration limits.)

CONDITIONS:

- A. Due to start-up time lag associated with all biologically mediated nutrient reduction systems, the Septic NET system may not be suitable for commercial-type systems (for example, campgrounds, RV parks, etc) that are designed to be used seasonally. The applicability of these systems for nutrient reduction purposes at seasonal commercial-type systems should be based on a case-by-case analysis.
- B. This approval is valid for systems that pressure dose, siphon dose, or use gravity distribution to the final disposal location.
- C. Approval is valid for residential and non-residential facilities with residential strength wastewater (not high strength waste), with no limit on design flows if system design is same as those systems approved, and if all other applicable laws, rules and design circulars are met. If a multi-family or public system is proposed that is not required to obtain a ground-water discharge permit pursuant to ARM 17.30.1022, the Department may require monthly monitoring of the discharge for the first year of system operation to verify that the proper nitrogen reduction to below 7.5 mg/L is achieved. Monitoring would be for the same parameters as required in ARM 17.30.718(8).
- D. Each system installed will be required to designate a water supply protection setback envelope from the drainfield in the final Department approval. This setback envelope will be the same dimension and location as is used to designate a standard ground water mixing zone pursuant to ARM 17.30.517(1)(d)(iii). If a site is appropriate to allow a shorter than standard mixing zone as determined pursuant to ARM 17.30.518 and Department policy, then the setback envelope may be shortened by an equal amount. The length of the setback envelope will be 100 feet for residential individual and shared systems, and 500 feet for a multi-user or public system. The setback envelope will be used to maintain the zone of influence of any existing (or approved) drinking water supply well (typically estimated as a 100 foot radius around the well) outside of the setback envelope. Proposed drinking water supply wells need to be located outside of the setback envelope.

APPROVED BY: Eric Regensburger

NOTES:

1 The definitions of level 1a, level 1b, and level 2 are in ARM 17.30.702(9), (10) and (11), respectively.