

SECTION I

INTRODUCTION:

The *AMERICAN "PERC-RITE®" DRIP DISPERSAL SYSTEM* is a unique fluid handling system for dispersal of wastewater effluent into the soil. The system incorporates filtration, time, and level controlled application with ultra low rate drip distribution. Decentralized subsurface effluent dispersal system via Drip Distribution utilizing the patented American "Perc-Rite®" Drip Technology is ideal for communities, schools, churches, state parks and other commercial and large flow applications.

NOWRA DRIP STANDARD

NOWRA, the National Onsite Wastewater Recycling Association has developed a guidance that has the following scope. The entire document may be found in the Technical Information section of the American Engineering Catalog.

Recommended Guidance for Design of Wastewater Drip Dispersal Systems

1. SCOPE

- 1.1 Drip dispersal is a method used to distribute wastewater, which has received at least primary treatment, over an area of land for final polishing, reuse or recharge of groundwater. This method of dispersal is capable of uniformly distributing the wastewater effluent over large areas. It has been used in the U.S. for dispersal of preconditioned wastewater onto soil infiltrative surfaces since the late 1980's. Drip dispersal is frequently, but inappropriately, referred to as drip irrigation. Drip dispersal is seldom designed to meet the agronomic water requirements of a crop. Instead, it is usually designed to maximize infiltration of water into the soil throughout the year. Some of the dispersed water will evaporate or be transpired by vegetation during the growing season, but most will percolate into the soil and recharge the underlying groundwater. However, plant irrigation or other water reuse applications can be incorporated into the design.
- 1.2 This guidance describes the appropriate design, installation, operation, monitoring and maintenance practices that are necessary to assure the long-term performance of drip dispersal.
- 1.3 Site-specific engineered designs must be used. The owner may choose to specify a "pre-engineered" package that is appropriate for the site requirements; however using a pre-engineered package does not preclude the need for proper site-specific design.