



Idaho Department of Water Resources Memo
For
Shallow Injection Well Criteria
Effective Date: 9/26/2008

The intent of this document is to detail the criteria necessary to classify a feature as a shallow injection well based on IDWR's interpretation of Federal and State rules.

Federal Definitions: (40 CFR, part 144.3 - Definitions)

1. Well: A bored, drilled, or driven shaft whose depth is greater than the largest surface dimension; or, a dug hole whose depth is greater than the largest surface dimension; or, an improved sinkhole; or, a subsurface fluid distribution system.
2. Improved Sinkhole: A naturally occurring karst depression or other natural crevice found in volcanic terrain and other geologic settings which have been modified by man for the purpose of directing and emplacing fluids into the subsurface.
3. Subsurface Fluid Distribution System: An assemblage of perforated pipes, drain tiles, or other similar mechanisms intended to distribute fluids below the surface of the ground.
4. Fluid: Any material or substance which flows or moves whether in a semisolid, liquid, sludge, gas, or any other form or state.
5. **Injection Well: A "well" into which "fluids" are being injected.**

State of Idaho Definitions: (Title 42, Chapter 39, 42-3902 - Waste Disposal and Injection Wells)

1. **Injection well: Any excavation or artificial opening into the ground which meets the following three (3) criteria:**
 - (a) **It is a bored, drilled or dug hole, or is a driven mine shaft or a driven well point; and**
 - (b) **It is deeper than its largest straight-line surface dimension; and**
 - (c) **It is used for or intended to be used for injection.**
2. Injection: The subsurface emplacement of fluids.
3. Shallow Injection Well: An injection well which is less than or equal to eighteen (18) feet in vertical depth below land surface.

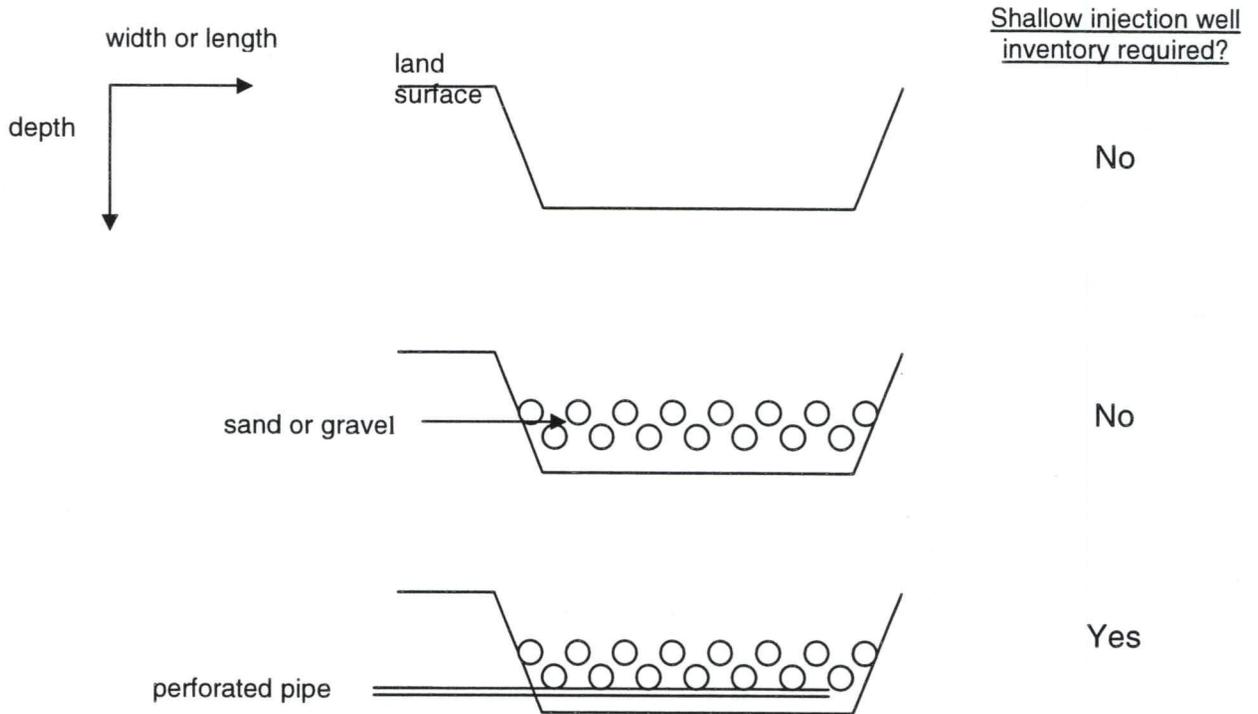
The State of Idaho uses the Federal definitions for fluid and subsurface fluid distribution system in IDAPA 37.03.03 - Rules for the Construction and Use of Injection Wells.

Exemptions from Underground Injection Control inventory requirements: (40 CFR, part 144.81(9))

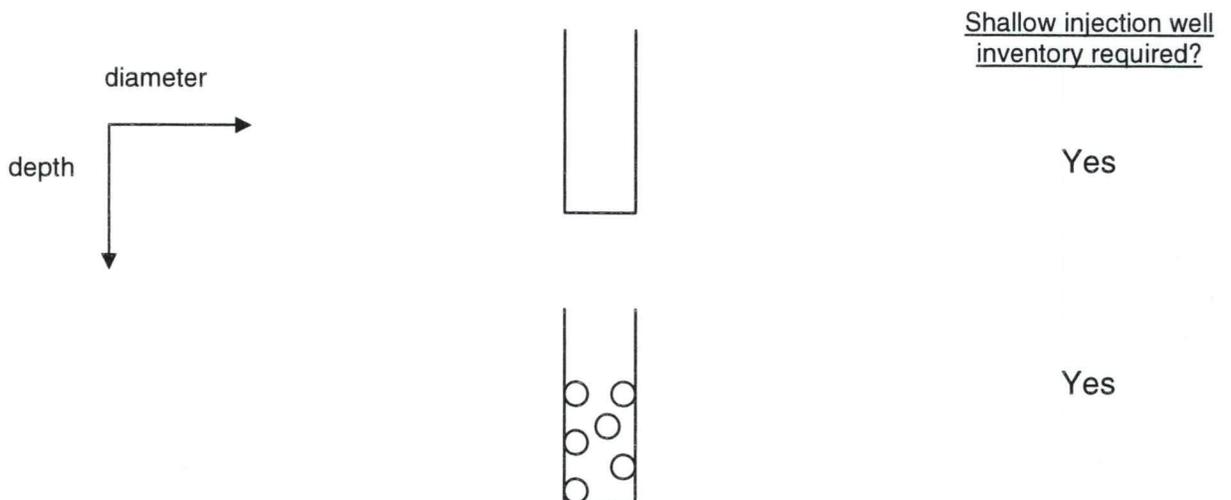
- Single family residential septic system wells
- Non-residential septic systems used solely for disposal of sanitary waste with a capacity to serve fewer than 20-persons per day

Both of these cases are, however, regulated by the Idaho department of Environmental Quality and/or State Health Departments.

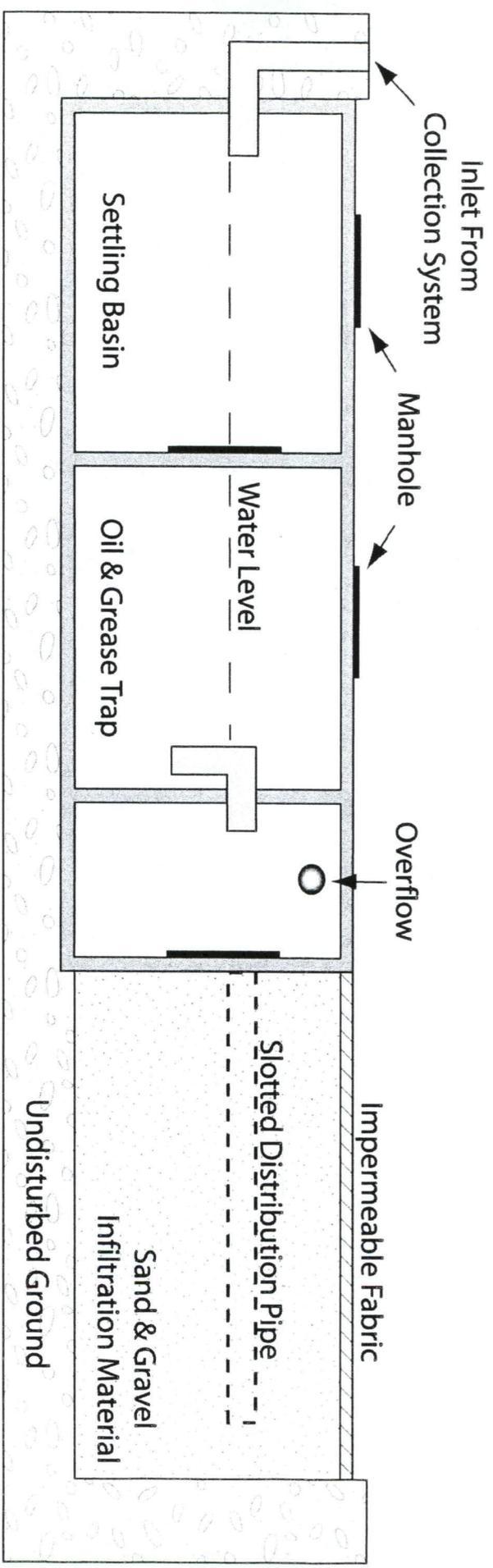
The following three scenarios represent trenches that are not deeper than their largest surface dimension. The first two scenarios do not use a subsurface fluid distribution system.



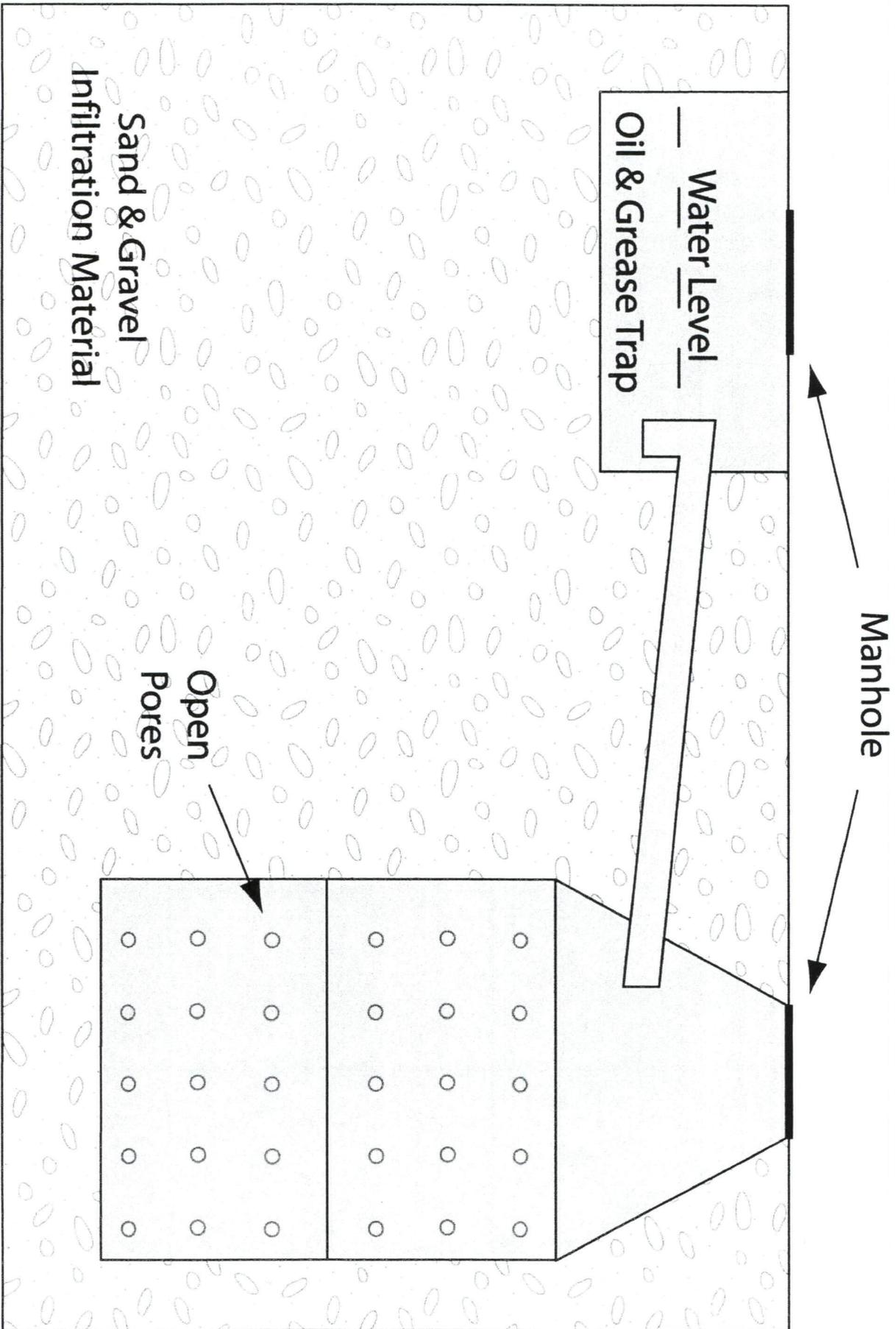
The following two scenarios depict boreholes that are deeper than their largest surface dimension, that may or may not be filled with sand or gravel, and do not utilize a subsurface fluid distribution system.



Infiltration Gallery



Pre-Cast Dry Well



French Drain

Inlet From
Collection System

