

## Liquid Waste Field Guide County Code - Title 6 Chapter 6

| Perc rate conversion to sq. ft per bedroom |                   |          |                   |
|--|-------------------|----------|-------------------|
| Min/Inch                                   | Sq Ft/bed         | 33 =     | 260               |
| < 5  | Engineered design | 34 =     | 265               |
| 5 =  | 125               | 35 =     | 270               |
| 6 =  | 130               | 36 =     | 275               |
| 7 =  | 140               | 37 =     | 275               |
| 8 =  | 150               | 38 =     | 280               |
| 9 =  | 160               | 39 =     | 280               |
| 10 =                                       | 165               | 40 =     | 285               |
| 11 =                                       | 170               | 41 =     | 285               |
| 12 =                                       | 175               | 42 =     | 290               |
| 13 =                                       | 180               | 43 =     | 290               |
| 14 =                                       | 185               | 44 =     | 300               |
| 15 =                                       | 190               | 45 =     | 300               |
| 16 =                                       | 195               | 46 =     | 300               |
| 17 =                                       | 200               | 47 =     | 305               |
| 18 =                                       | 205               | 48 =     | 305               |
| 19 =                                       | 210               | 49 =     | 310               |
| 20 =                                       | 215               | 50 =     | 315               |
| 21 =                                       | 220               | 51 =     | 315               |
| 22 =                                       | 220               | 52 =     | 320               |
| 23 =                                       | 225               | 53 =     | 320               |
| 24 =                                       | 230               | 54 =     | 320               |
| 25 =                                       | 230               | 55 =     | 325               |
| 26 =                                       | 235               | 56 =     | 325               |
| 27 =                                       | 240               | 57 =     | 325               |
| 28 =                                       | 245               | 58 =     | 330               |
| 29 =                                       | 245               | 59 =     | 330               |
| 30 =                                       | 250               | 60 =     | 330               |
| 31 =                                       | 255               | 61-120 = | Engineered design |
| 32 =                                       | 255               | > 120 =  | unacceptable      |

### Map 6-6.08

- (a) Owners Name
- (b) APN
- (c) Scale
- (d) true north arrow
- (e) property boundary lines showing accurate configuration and dimension of parcel, inc. property monuments and how boundaries can be found by EH
- (f) Perc test loc and soil profiles
- (g) locations(s) of proposed OWTS and any existing systems
- (h) Any of the following w/in 200' of OWTS: wells (E and proposed), geothermal wells, public water mains, water features (year-round and seasonal)
- (i) Any of the following w/in 100': cut of fill banks (E or proposed), natural escarpments in excess of 50% slope
- (j) Show area(s) of current and/or future development

**As built** follows map requirements - " must contain sufficient information in order to accurately locate the sewage disposal system once it has been backfilled"

| Septic Tank Construction |                | Sewer Line Slope |                                  |
|--------------------------|----------------|------------------|----------------------------------|
| 1, 2 or 3 bedrooms       | 1,000 gal tank | House to tank    | 1/4" per foot reg. by building D |
| 4 bedrooms               | 1,200 gal tank | Tank to D        | <b>1/8" per foot</b>             |
| 5 or 6 bedrooms          | 1,500 gal tank | Leach            | ~level                           |

| Separation Distances                          |                       |                          |                 |                         |                     |
|---|-----------------------|--------------------------|-----------------|-------------------------|---------------------|
|   | impermeable layer bgs | Bottom of leach and Imp. | Highest GW bgs  | Bottom of leach and HGW | Natural Grade Slope |
| Standard                                      | ≥ 5" (60")            | 4 ft (48")               | ≥ 6 ft (72")    | 5' (60")                | < 30%               |
| Engineered                                    | 3-5' (36-60")         | 4 ft (48")               | 3-6 ft (36-72") | 5' grav<br>4' pressure  | > 30%               |
| Advanced Treatment                            | 2-3' (24-36")         | 3 ft (36")               | 1.5-3' (18-36") | 3'                      |                     |
| Impermeable = perc >120 defined in CH11       |                       |                          |                 |                         |                     |
| Slopes -- 10°=17.6% 15°=26.8% 17°=30% 20°=36% |                       |                          |                 |                         |                     |

| Set backs                          |              |                                    |
|------------------------------------|--------------|------------------------------------|
|                                    | Tank & Lines | Leach Field                        |
| Private water well                 | 50'          | 100'                               |
| Public water well                  | 100'         | 150'                               |
| Perennial Streams/springs          | 50'          | 100' (10 yr high water)            |
| Seasonal streams/springs           | 25'          | 50'                                |
| Meadows, wet marshy areas          | 25'          | 50'                                |
| Lakes/resevoirs/pond               | 50'          | 200' (Almanor 100')*               |
| Surface H2O public supply          | 50'          | 400' see reg                       |
| Cut or fill bank                   | 10'          | 4xvertical bank height or max 100' |
| Natural slope >50%                 | 25'          |                                    |
| Private property lines             | 5'           | 5' (50' well loc not known)        |
| Buildings or structures            | 5'           | 8'                                 |
| Public water supply main           | 25'          | 25'                                |
| Individual water line              | 10'          | 10'                                |
| Sewage drain system                | 3'           | 6' (deep trench 15')               |
| Vehicular traffic ways (easements) | clear        | clear                              |
| Geothermal Wells                   | 25'          | 50'                                |
| Electric poles                     | 15'          | 15' (SOP not in code)              |

\* - Almanor Lake Level = 4495' msl

### No leach fields can be longer than 100'

Average Single Family Dwelling uses 150 gal/bedroom/day ≈ 68 gal/person/day

**Percolation testing:** must be conducted at depth of proposed OWTS system, noted on map, use most conservative (largest #) from last run for sizing calculations

**Soil Profile:** required at discretion of EHD, if GW encountered <7' bgs gw monitoring required

**Piezometer:** required when elevated seasonal gw expected <7' bgs. Measurements: At 2 week intervals during Nov1-May31, unless gw encountered <8' bgs weekly measurements required, after seasonal high gw starts to recede reduce measurements to 4 week intervals.