

REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS

<u>System Components</u>	<u>Well (f) or Suction Line</u>	<u>To Stream, Lake Watercourse (b), or Wetland</u>	<u>Dwelling</u>	<u>Property Line</u>	<u>Drainage Ditch(b),(g)</u>
House Sewer (watertight joints)	25' if cast iron or PVC with O-ring joints, 50' otherwise	25'	3'	10'	---
Septic tank	50'	50'	10'	10'	10'
Effluent line to distribution box	50'	50'	10'	10'	10'
Distribution box	100'	100'	20'	10'	20'
Absorption field	100' (a)	100'	20'	10'	20'
Seepage pit	150' (a)	100'	20'	10'	20'
Dry well (roof and footing)	50'	25'	20'	10'	10'
Raised or Mound System (c)	100'(a)	100'	20'	10'	20'
Intermittent Sand Filter (c)	100'(a)	100'	20'	10'	20'
Evapotranspiration-absorption system (c)	100'(a)	50'	20'	10'	20'
Composter	50'	50'	20'	10'	10'
Sanitary Privy Pit	100'	50'	20'	10'	20'
Privy, Watertight Vault	50'	50'	20'	10'	10'

**Table 1
Required Minimum Separation Distances to Protect Water Wells
From Contamination**

Contaminant Source	Distance (Feet) ¹
Chemical storage sites not protected from the elements (e.g., salt and sand/salt storage) ²	300
Landfill waste disposal area, or hazardous or radiological waste disposal area ²	300
Land surface application or subsurface injection of effluent or digested sludge from a Municipal or public wastewater treatment facility	200
Land surface application or subsurface injection of septage waste	200
Land surface spreading or subsurface injection of liquid or solid manure ³	200
Storage Areas for Manure piles ⁴	200
Barnyard, silo, barn gutters and animal pens ^{5, 6}	100
Cesspools (i.e. pits with no septic tank pretreatment)	200
Wastewater treatment absorption systems located in coarse gravel or in the Direct path of drainage to a well	200
Fertilizer and/or pesticide mixing and/or clean up areas	150
Seepage pit (following septic tank) ⁵	150
Underground single walled chemical or petroleum storage vessels	150
Absorption field or bed ⁵	100
Contained chemical storage sites protected from the elements (e.g. salt and sand/salt storage within covered structures) ⁷	100
Septic system components (non-watertight) ⁵	100
Intermittent sand filter without a watertight liner ⁵	100
Sanitary Privy pit ⁵	100
Surface wastewater recharge absorption system constructed to discharge storm water from parking lots, roadways or driveways ⁵	100
Cemeteries	100
Sanitary privy with a watertight vault	50
Septic tank, aerobic unit, watertight effluent line to distribution box	50
Sanitary sewer or combined sewer	50
Surface water recharge absorption system with no automotive-related Wastes (e.g., clear-water basin, clear-water dry well)	50
Stream, lake, watercourse, drainage ditch, or wetland	25
All known sources of contamination otherwise not shown above	100

Notes for Table 1:

1. The listed water well separation distances from contaminant sources shall be increased by 50% whenever aquifer water enters the water well at less than 50 feet below grade. If a 50% increase in separation distances can not be achieved, then the greatest possible increase in separation distance shall be provided with such additional measures as needed to prevent contamination. See also Note 6 to Table 2.
2. Water wells shall not be located in a direct line of flow from these items, nor in any contaminant plume created by these items, except with such additional measures (e.g., sentinel groundwater monitoring, hydraulic containment, source water treatment) as needed to prevent contamination.
3. Based upon on-site evaluations of agricultural properties done per agricultural environmental management (AEM) or comprehensive nutrient management plan (CNMP) programs by a certified nutrient management planner or soil and water conservation district (SWCD) official, water wells may be located a minimum of 100 feet from areas subject to land spreading of manure.
4. Water wells may be located 100 feet from temporary (30 days or less) manure piles/staging areas that are controlled to preclude contamination of surface or groundwater or 100 feet from otherwise managed manure piles that are controlled pursuant to regulation in a manner that prevents contamination of surface or groundwater.
5. When these contamination sources are located in coarse gravel or are located upgrate and in the direct path of drainage to a water well, the water well shall be located at least 200 feet away from the closest part of these sources.
6. Animal pen does not include small pet shelters or kennels housing 3 or fewer adult pets.
7. Chemical storage sites as used in this entry do not include properly maintained storage areas of chemicals used for water treatment nor areas of household quantities of commonly used domestic chemicals.