

TABLES & GRAPHICS

Graphic images included in rules are published separately in this tables and graphics section. Graphic images are arranged in this section in the following order: Title Number, Part Number, Chapter Number and Section Number.

Graphic images are indicated in the text of the emergency, proposed, and adopted rules by the following tag: the word "Figure" followed by the TAC citation, rule number, and the appropriate subsection, paragraph, subparagraph, and so on.

Figure: 30 TAC §285.91(2)

SEPTIC TANK MINIMUM LIQUID CAPACITY

A. Determine the applicable wastewater usage rate (Q) in TABLE III of 30 TAC Chapter 285.

B. Calculate the minimum septic tank volume (V) as follows:

1. For Q equal to or less than 250 gal/day:

$$V = 750 \text{ gallons}$$

2. For Q greater than or equal to 251 gal/day but less than or equal to 350 gal/day:

$$V = 1000 \text{ gallons}$$

3. For Q greater than or equal to 351 gal/day but less than or equal to 500 gal/day:

$$V = 1250 \text{ gallons}$$

4. For Q greater than or equal to 501 gal/day but less than or equal to 1000 gal/day:

$$V = 2.5 Q$$

5. For Q greater than or equal to 1001 gal/day:

$$V = 1,750 + 0.75Q$$

AEROBIC TREATMENT UNIT SIZING FOR SINGLE FAMILY RESIDENCES, COMBINED FLOWS FROM SINGLE FAMILY RESIDENCES, OR MULTI-UNIT RESIDENTIAL DEVELOPMENTS

Number of bedrooms/living area of home	Minimum Aerobic Tank Treatment Capacity (gallons per day per residential unit)
One and two bedrooms and < 1,501 sq. ft.	360
Three bedrooms and < 2,501 sq. ft. or Less than three bedrooms and 1,500 < sq. ft. < 2,501	360
Four bedrooms and < 3,501 sq. ft. or Less than four bedrooms and 2,500 < sq. ft. < 3,501	480
Five bedrooms and < 4,501 sq. ft. or Less than five bedrooms and 3,500 < sq. ft. < 4,501	600
Six bedrooms and < 5,501 sq. ft. or Less than six bedrooms and 4,500 < sq. ft. < 5,501	720

Seven bedrooms and < 7,001 sq. ft. or Less than seven bedrooms and 5,500 < sq. ft. < 7,001	840
Eight bedrooms and < 8,501 sq. ft. or Less than eight bedrooms and 7,000 < sq. ft. < 8501	960
Nine bedrooms and < 10,001 sq. ft. or Less than nine bedrooms and 8,500 < sq. ft. < 10,001	1,080
Ten bedrooms and < 11,501 sq. ft. or Less than ten bedrooms and 10,000 < sq. ft. < 11,501	1,200
For each additional bedroom above ten or 1,500 additional square feet of living area above 11,500	120

Figure: 30 TAC §285.91(10)

Table X. Minimum Required Separation Distances for On-Site Sewage Facilities.						
FROM	TO					
	Tanks	Soil Absorption Systems, & Unlined ET Beds	Lined Evapotranspiration Beds	Sewer Pipe With Watertight Joints	Surface Application (Edge of Spray Area)	Drip Irrigation
Public Water Wells ²	50	150	150	50	150	150
Public Water Supply Lines ²	10	10	10	10	10	10
Wells and Underground Cisterns	50	100	50	20	100	100
Private Water Line	10	10	5	10 ⁵ except at connection to structure	No separation distances	10
Wells Completed in accordance with 16 TAC §76.100(a)(1)	50	50	50	20	50	50

Streams, Ponds, Lakes, Rivers, Creeks (Measured From Normal Pool Elevation and Water Level); Salt Water Bodies (High Tide Only); Retention Ponds/Basin (Spillway elevation)	50	75 LPD with secondary treatment & disinfection - 50	50	20	50	25 when $R_a = 0.1$ 75 when $R_a > 0.1$ (With Secondary Treatment & Disinfection - 50)
Foundations, Buildings, Surface Improvements, Property Lines, Swimming Pools, and Other Structures	5	5	5	5 Pipe may run beneath driveways and sidewalks or up to surface improvements if it is Schedule 80 pipe or sleeved in Schedule 40 pipe Pipe containing secondary effluent has no setbacks from building	No Separation Distances Except: Property lines - 20' Swimming Pools - 25	No Separation Distances Except: Property Lines - 5

				foundations		
Underground Easements	1	1	1	1	May spray to edge of easement, but not into. Sprinkler heads must be 1 foot from easement edge	1
Overhead Easements	1 No setbacks if permission is granted by easement holder	1 No setbacks if permission is granted by easement holder	1 No setbacks if permission is granted by easement holder	1 No setbacks if permission is granted by easement holder	1 No setbacks if permission is granted by easement holder	1 No setbacks if permission is granted by easement holder
Slopes Where Seeps may Occur and detention ponds	5	25	5	10	10	10 when $R_a = 0.1$ 25 when $R_a > 0.1$
Edwards Aquifer Recharge Features (See Chapter 213 of	50	150	50	50	150	100 when $R_a = 0.1$ 150 when $R_a > 0.1$

this title relating to Edwards Aquifer) ³						
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1. All distances measured in feet, unless otherwise indicated
2. For additional information or revisions to these separation distances, see Chapter 290 of this title (relating to Public Drinking Water)
3. No on-site sewage facility may be installed closer than 75 feet from the banks of the Nueces, Dry Frio, Frio, or Sabinal Rivers downstream from the northern Uvalde County line to the recharge zone.
4. Drip irrigation lines may not be placed under foundations.
5. Private water line/wastewater line crossings should be treated as public water line crossings, see Chapter 290 of this title.
6. Separation distance may be reduced to 10 feet when sprinkler operation is controlled by [commercial] a timer. See §285.33(d)(2)(G)(i) of this title (relating to Criteria for Effluent Disposal systems)