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| <p>CLEAR CREEK COUNTY<br/>Public and Environmental Health</p> | <p><b>Minimum Separation<br/>Distances</b></p> | <p><b>Section<br/>15</b></p> |
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**1. Setback Requirements**

- A. Horizontal distances from the various components of an OWTS to pertinent terrain features listed in Table A-1 of Appendix A shall be installed or located in accordance with the minimum distance requirements provided. The setback requirements are applicable for minimum system performance and treatment levels with specific modifications allowed for higher treatment levels as provided in Table E-1 of Appendix E. The minimum distances shall be maintained between the OWTS components and the pertinent terrain features described. Where soil, geological, or other conditions warrant, greater distances may be required by the Board of Health or by the Water Quality Control Commission pursuant to 25-8-206, C.R.S. and applicable regulations.
- B. For repairs to existing OWTS where the size of lot precludes adherence to these distances, the proposed STA shall not be closer to setback features than the existing OWTS, as reviewed and approved by the health officer per Section 18.13.B. Components that are not watertight should not extend into areas of the root system of nearby trees.
- C. Minimum vertical separation distance between the STA infiltrative surface and the restrictive layer or the required depth of soil comprising the STA shall be four (4) feet, except as provided for in Table A-2 of Appendix A.

**2. Modifications and Reductions**

- A. The designing professional engineer may select a higher level of treatment to be applied to the STA when necessary in order to accommodate the site conditions.
- B. If modified setback distances are required, rationale for the modified setbacks shall be provided and include the following at a minimum:
  - 1. An analysis of the intended uses of impacted surface and/or ground waters;
  - 2. An explanation of why the standard setback(s) cannot be met;
  - 3. Contacting adjacent property owners for potential conflicts with property line encroachments; and
  - 4. An analysis of potential impacts that the system location may have on building foundations and other potentially affected features.
- C. Reductions in separation distances with higher level treatment shall include provisions for operation and maintenance for the life of the system, as described in Section 6.

**3. Dry Gulches, Cut Banks, and Fill Areas**

- A. Separation distances to dry gulches, cut banks, and fill areas in Table A-1 of Appendix A shall apply unless the professional engineer or professional geologist determines by observation of the exposed slope of the dry gulch or cut bank or by profile holes or soil profile test pit excavations that a restrictive layer is present that will direct or allow the effluent from the soil treatment area to move laterally and surface.
- B. A lesser distance may be used if it can be demonstrated by a professional engineer or professional geologist that the use of a barrier, such as a minimum 30 mil PVC liner placed between the soil treatment area and the slope of the dry gulch, cut bank, or fill area will prevent effluent surfacing laterally.
- C. The separation distance between a component and the crest of a dry gulch or cut bank shall be evaluated for potential erosion or slope instability if the component and the slope are too close together. If there is potential for erosion or instability, the separation distance shall be increased until the risk is minimized.
- D. If the natural grade at or within 35 feet of the absorption system is greater than 30 percent, then the absorption system shall conform to the following specifications:
  - 1. A 30 mil PVC liner shall be placed on each end and on the down slope side of the absorption system excavation to a depth of a minimum of six (6) feet below grade unless otherwise approved by the health officer, in a manner such that all exposed soils are covered;
  - 2. A berm shall be constructed in accordance with the Clear Creek County Best Management Practice Manual upslope of the absorption system to divert surface water run-off from the absorption system; and
  - 3. All disturbed areas shall be seeded after completion of the absorption system installation.