COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION

PRIVATE WASTEWATER DISPOSAL SYSTEM REQUIREMENTS

The Geotechnical Development Review Units shall evaluate the geotechnical impact of a private wastewater disposal system as follows:

1. Evaluate whether effluent from proposed private wastewater disposal systems could:

   - Daylight or exit the ground surface,
   - Be closer than 15 horizontal feet from any sloping ground surface, or
   - Be closer than 15 horizontal feet from a perforated subdrain pipe, or
   - Adversely affect long term stability of on-site and off-site properties.

2. If there is a potential for any of the above conditions, an engineering geology and/or soils engineering reports shall be required to address potential instability and daylighting of effluent. The geotechnical consult(s) report and proposed plans shall provide the following:

   - Geologic/geotechnical cross section(s) that include hydrogeology/geology and anticipated effluent phreatic surface.
   - Gross and pseudostatic slope stability analyses that include all proposed conditions and loadings, existing subsurface conditions that will remain, and all appropriate phreatic surfaces.
   - Location of the proposed wastewater disposal system shall be shown only on the geologic map and the building/grading plans.

3. A regional hydrogeologic study may be necessary to determine feasibility of the wastewater disposal systems. The study should consider cumulative effects of adjacent developments, irrigation, and geotechnical conditions.

4. For remodels and/or additions with existing private wastewater disposal systems, the geotechnical consultants shall <u>not</u> be required to address the systems unless the system will be enlarged or relocated <u>and</u> this change in conditions could result in daylighting of effluent and/or adversely impact slope stability.

5. The setback from a road cut or other construction cut should be such that the effluent phreatic line does not intersect the cut. In uniform soils with moderate permeability, the location of the field/pit can be determined by projecting a 20% slope (5:1) up from the base of the road cut, and provide for at least 15 feet of horizontal distance between the invert of the closest leach line/pit and this projected line (reference: *Geology for Individual Sewage Disposal Systems*, California Geology, pp. 195-203, September 1972 edition).

6. The geotechnical consultants should be required to inspect and approve any excavation for sewage disposal prior to the placement of any rock, gravel, pipe etc. (This requirement gives the consultant the opportunity to confirm wastewater disposal system location and to examine the leaching medium). The following example condition shall be included on the review sheet recommending approval of the permit application:

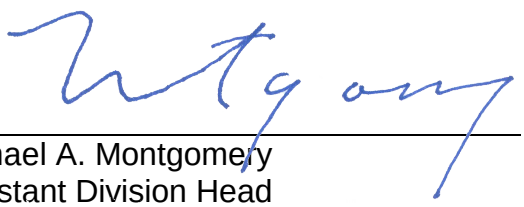
> "A private onsite wastewater disposal system will be utilized. The report(s) referenced above contain specific design and location recommendations. These recommendations must be shown on the grading/building plans. Revisions must be approved by the geotechnical consultant(s). Any excavation for sewage disposal must be inspected and approved by the geotechnical consultant(s) prior to the placing of brick, gravel, or pipe."

When it has been concluded that daylighting of a wastewater disposal system will occur and adequate mitigation methods have not been incorporated into the plans, the use of a private wastewater disposal system will not be permitted to be part of the plans that are recommended for approval. The project will be referred to the Department of Health Services.

If it is unclear as to whether or not an existing system will be utilized, or an additional system will be installed, the reviewer shall request clarification or place the following condition on the review sheet recommending approval of the permit application:

> "If the existing sewage disposal system is proposed to be abandoned, enlarged, added to and/or relocated, it is recommended that a/the geotechnical consultant address the proposed system and potential path of effluent."

Approved By:



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