



GUIDELINES FOR WATER/WASTEWATER USE STUDIES

Water and Wastewater Use Studies may be utilized to meet the City of Calistoga's objective of developing sound and realistic estimates of the water and wastewater system resources required for a project or development. In order to develop such water and wastewater use estimates, applicants must either: 1) utilize the resource usage rates provided by the City of Calistoga's adopted Standardized-Use Table, or 2) prepare and submit an engineered Water/Wastewater Use Study.

The City of Calistoga strongly suggests that applicants utilize the resource usage rates provided by the adopted Standardized-Use Table to the greatest extent possible. For development projects that only contain occupancies/uses that are included in the Standardized-Use Table, such as apartments, single family homes, second dwelling units, transient lodging, offices, retail spaces, and restaurants, applicants should use the adopted Standardized-Use Table rates and will not be required to submit an engineered Water/ Wastewater Use Study.

For developments consisting of the occupancy categories that are listed in the Standardized-Use Table, the City of Calistoga will only approve changes to the standard resource usage rates in exceptional cases. Such cases will only be considered as part of engineered Water/ Wastewater Use Studies, and only if the applicant provides clear and compelling information which demonstrates that other usage rates are appropriate. The mere submittal of alternative standard-usage rates from other jurisdictions will not be considered clear and compelling information in this regard.

For categories of use that are not included in the Standardized-Use Table, such as spas or other special occupancy categories, or if the applicant has a firm and demonstrable belief that a proposed project will use water or wastewater resources at a substantially different rate than shown in the Standardized-Use Table, an engineered Water/Wastewater Use Study must be prepared and submitted with the development application. An engineered Water/Wastewater Use Study (Study), if submitted, must present analyses and conclusions that are fair, clear, accurate, and fully documented. The Study, at a minimum, must meet the following criteria:

1. The Study must be prepared, signed, and sealed by a Registered Professional Civil Engineer.
2. The Study must be clearly and legibly produced.
3. All sources of information and data used should be fully documented. Clear and complete excerpts from other referenced, published information must be provided.
4. All assumptions should be clearly stated and explained as appropriate.
5. All calculations should be fully documented, including detailed sample calculations.
6. All calculations should include the units of measure throughout the calculations.
7. Consistent units of measure, for volumes and/or flow rates on both a daily and annual basis (ac-ft/year, gallons/day) should be used throughout all calculations.
8. Water/wastewater use that will vary over time (such as through project phasing) should be clearly identified and explained.

It is recommended that applicants have their engineer contact the Public Works Dept. to discuss the Study requirements prior to preparing the Study. Please contact Senior Civil Engineer Derek Rayner at (707) 942-2828.