Sample
Sewer Area Study

ESTU#
PC #

Project Site Address
TR #
PM #

Prepared by:
County of Los Angeles
Department of Public Work
Land Development Division

Signature, stamp or seal, and license expiration date of a licensed civil engineer.
I. Introduction
II. Site description
III. Project description
IV. Description of existing sewer system
V. Description of proposed sewer system
VI. Methodology used and list of references
VII. Sewer capacity analysis
VIII. Proposed mitigation if necessary
IX. Conclusion
X. Appendix or Reference
   a) Sewer Area Map
   b) Table of Sewer Capacity Analysis
   c) Will Serve Letter
   d) All Supporting Plans / Maps
      1. Tentative Map / Parcel Map / Site Plans
      2. SMD map
      3. As-built
Sewer Area Map
Table of Sewer Capacity Analysis
**Sewer Area Study Table**

* Calculated using Kutter’s Formula with n=0.013
** Design capacity keeps three decimal places at least
*** Based on current land use and coefficients per LA County, (Attach supporting calculations)
**** For pipes < 15”, design capacity of the sewer mainline is defined as 1/2 full = 100% capacity (d/D)
***** For pipes ≥ 15”, design capacity of the sewer mainline is defined as 3/4 full = 100% capacity (d/D)

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Segment</th>
<th>Pipe</th>
<th>M.H. #</th>
<th>M.H. #</th>
<th>Size (in.)</th>
<th>Slope (%)</th>
<th>* Design capacity 1/2 Full(&lt;15&quot;)</th>
<th>3/4 Full(≥15&quot;)</th>
<th>Area (Acres)</th>
<th>Zoning Coeff.</th>
<th>Calculated Flow (cfs)</th>
<th>***Cumulative Calculated Flow (cfs)</th>
<th>%Full Cumulative Flow / Capacity</th>
<th>PC or CI Construction Plan #</th>
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<td>LA County</td>
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**Kutter’s Formula**

\[
C = \frac{41.65 + \frac{0.00281}{s}}{1 + \frac{n}{\sqrt{R}} + \frac{1.811}{n}} + \frac{1.811}{n} \quad \forall = C\sqrt{RS}
\]

\[
Q = CA\sqrt{RS}
\]

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**Project Site Flow = 10 Condominiums x 0.001 cfs/unit = 0.01 cfs**
SMD Map
As-Built