



THE
LANGDON
GROUP



GATEWAY
MAPPING
INC.

OTHER J-U-B COMPANIES

HYDROLOGIC METHODS AND DESIGN STANDARDS

4.2.5.3. The Permittee's new development/redevelopment program must have requirements or standards to ensure that any storm water controls or management practices for new development and redevelopment will prevent or minimize impacts to water quality.

4.2.5.3.4 Each Permittee shall develop and define specific hydrologic method or methods for calculating runoff volumes and flow rates to ensure consistent sizing of structural BMPs in their jurisdiction and to facilitate plan review. Specific criteria which require that Best Management Practices (BMPs) are designed to treat the water from a specific design storm (e.g., the 2-year, 24-hour event) must be incorporated into the permittee's post-construction minimum control measure and documented in the SWMP. Permittees may allow other unique or complex methodologies.

DESIGN STANDARDS SHOULD INCLUDE:

In developing/revising standards you are encouraged (not required) to work with neighboring communities to develop consistency with analytical methods within the same watershed. The following subjects should be addressed.

1. Hydrology
 - a. Design storm (frequency and duration) for peak flows
 - b. Design storm for piping (____yr- ____hr event)
 - c. Design storm for storage (____yr- ____hr event)
 - d. Design storm for construction site BMPs (____yr- ____hr event)
 - e. Storm hydrograph (unit hydrograph, Farmer-Fletcher, etc...)
2. Hydrologic methods
 - a. See handouts for options and applications
3. Storage
 - a. Peak discharge allowances
 - i. 0.2 cfs per acre?? (should not be a standard)
 - ii. Match predevelopment runoff hydrograph
 - b. Minimum storage requirements
 - c. Freeboard requirements
 - d. Maximum depths
 - e. Dimensional requirements (length/width ratios)
 - f. Water quality requirements
4. System policies
 - a. No stormwater in irrigation ditches and canals
 - b. On-site detention required
 - c. Deal with storm water at the source
 - d. Underground Injection Wells (UIW)



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5. Permitting requirements

- a. Possible Storm Water Utility Credits
- b. Activity and Connection Permits
- c. Possible Permits from others: 404, Stream Alteration