

OFF-SITE STORMWATER ANALYSIS (Form SA)

The following information shall be provided only if the project is a category 3 project, as defined in Section 5.2.3.(1)c. using the methodologies described in Section 5.2.3 of the CMSPPM.

(3.a) CONVEYANCE ANALYSIS SUBMITTAL REQUIREMENTS

Site Statistics		Basin Statistics	
Total Area _____	Existing Imp. _____	Total Area _____	
Developed Area _____	Proposed Imp. _____	Percent Imp. _____	

Peak Pre/Post Site Runoff (cfs)

Analysis	FDOT 25 Year Design Storm				
	1 Hour	2 Hour	4 Hour	8 Hour	24 Hour
Pre-Development					
Post-Development					

Peak Pre/Post Basin Runoff (cfs)

Analysis	FDOT 25 Year Design Storm				
	1 Hour	2 Hour	4 Hour	8 Hour	24 Hour
Pre-Development					
Post-Development					

REQUIRED STORMWATER REPORT

- A) General Project Narrative** (relative to hydrologic characteristics)
- 1) Pre-Development Site Conditions
 - a) Describe site conditions including existing ground cover, impervious area, buildings, stormwater ponds, runoff flow path, 25 & 100 year floodplain, etc.
 - 2) Post-Development Site Conditions
 - a) Describe how the proposed project will physically impact the existing site topography, ground cover, floodplain, etc.
- B) Pre-Development Basin Analysis**
- 1) Narrative
 - a) Explain any unusual parameters, subcatchment delineations or channel descriptions used in the SWMM* model.
 - b) Identify areas that flood and indicate pre-development water surface elevation(s).
 - c) Report the critical duration 25 year design storm for the study area.
 - d) Verify peak discharge rates with other available information.
 - 2) Supporting Documentation
 - a) Link-node diagram drawn at 1"=200' or appropriate scale including catchment, junction and conduit numbers correlating to those used in the SWMM* model.
 - b) A soil map depicting soil types for all subcatchments in the study area.
 - c) The RUNOFF* and EXTRAN* models for the critical duration design storm. The critical storm is defined as the 25-year storm producing the peak flow at the limits of analysis. Provide both computer disks and printed copies of input and output data.
- C) Post-Development Analysis**
- 1) Narrative
 - a) Describe changes made to the model for the post-development analysis.
 - b) Compare problem areas to those identified in pre-development analysis.
 - c) Report the critical duration 25 year design storm for the study area.
 - d) Describe the configuration of any on-site stormwater management facilities.

*Alternative models must be approved in advance by the Director.

- 2) Supporting Documentation
 - a) Link-node diagram drawn at 1"=200' or appropriate scale including catchment, junction and conduit numbers correlating to those used in the SWMM model.
 - b) The RUNOFF and EXTRAN models for the critical duration design storm. The critical storm is defined as the 25-year storm producing the peak flow at the limits of analysis. Provide both computer disks and printed copies of input and output data.
 - c) Detailed information for the on-site SMF and any proposed off-site improvements. (Include a sketch of the proposed SMF outfall structure and stage/storage data)

D) Conclusion

- 1) Narrative
 - a) Discuss the impact of the project on the downstream stormwater conveyance.
 - b) If off-site improvements are proposed, describe the necessity, location and extent of work to be performed. Drawings, typical cross-sections and all pertinent information of the off-site improvement must be provided.

(3.b) RESTRICTED SURFACE DISCHARGE SUBMITTAL REQUIREMENTS

Site Statistics

Total Area _____
 Developed Area _____
 Existing Imp _____
 Proposed Imp _____

SMF Statistics

Total Volume _____
 Perc Rate Used _____
 Peak Elevation _____
 Bottom Elev _____

Peak Pre-Development Runoff (cfs)

Frequency	Duration				
	1 Hour	2 Hour	4 Hour	8 Hour	24 Hour
2-Year					

Peak Post-Development Runoff (cfs)

Frequency	Duration				
	1 Hour	2 Hour	4 Hour	8 Hour	24 Hour
2-Year					
5-Year					
10-Year					
25-Year					

REQUIRED INFORMATION

A) General Project Narrative (relative to hydrologic characteristics)

- 1) Pre-Development Site Conditions
 - a) Describe site conditions including existing ground cover, impervious area, buildings, stormwater ponds, runoff flow path, 25 & 100 year floodplain, etc.
- 2) Post-Development Site Conditions
 - a) Describe how the proposed project will physically impact the existing site topography, ground cover, floodplain, etc.
- 3) Supporting Documentation
 - a) Calculations supporting the data provided in the above tables.
 - b) Detailed information describing the on-site SMF including construction details and grading plan.

(3.c) CLOSED BASIN SUBMITTAL REQUIREMENTS [Circle (3.C) if this submittal is used]

* See Concurrency Management System Policy & Procedures Manual, Appendix D.

NOTE: BE SURE TO HAVE THE STORMWATER ANALYSIS FORM AND BOOKLET SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER and provide the name and phone number of the contact person for and questions and/or comments regarding this stormwater analysis.

ENGINEER'S NAME _____

PHONE NUMBER _____

* Alternative models must be approved by the Director.