

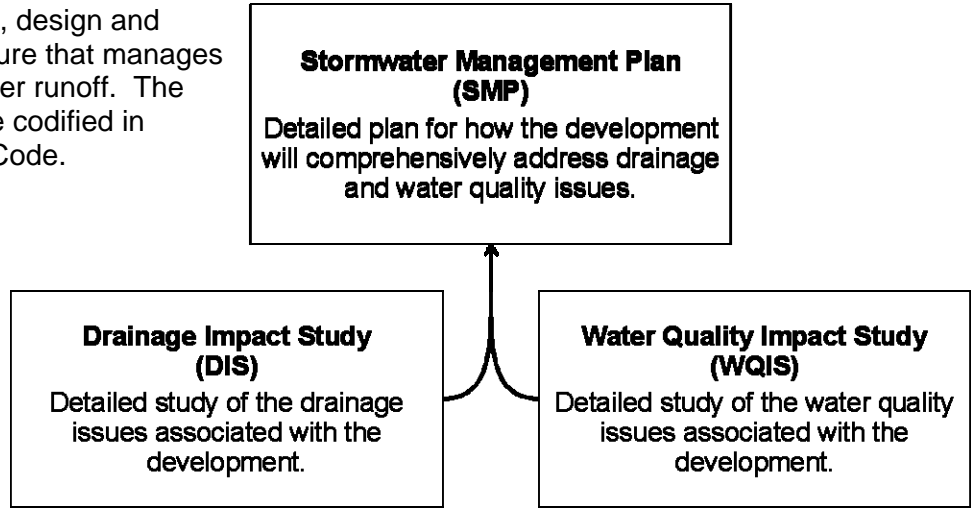
Stormwater Management

Stormwater management is the planning, design and implementation of stormwater infrastructure that manages both the quantity and quality of stormwater runoff. The requirements described on this sheet are codified in Chapter 15 of the Unified Development Code.

Performance criteria

Stormwater infrastructure must be designed and constructed in accordance with the following criteria:

- Provide capacity for a 10-year storm
- Treat or retain on-site all stormwater pollutants that originate from the site during the first inch of an event



Stormwater Management Plan

A Stormwater Management Plan (SMP) must recommend specific drainage and stormwater runoff quality improvements and be consistent with the issues and recommendations presented in the DIS and/or WQIS, when either or both of these are required.

The SMP must include the following, at a minimum:

- Location of development
- Existing Conditions: land cover, contours, soil types, estimated pollutant load
- Proposed Development: land cover, contours, empirically expected pollutant load, proposed drainage and stormwater BMPs
- Plan Implementation: detailed description of the specific proposed drainage and stormwater BMPs
- Maintenance: how the proposed improvements will be maintained, including a maintenance schedule

A SMP is required for all development applications, with the following exemptions:

- Residential lots of less than 1/2 acre within subdivisions approved on or before Dec. 5, 2007
- All lots in duly authorized subdivisions created with an SMP (Individual lots must comply with SMP for the subdivision)

When to submit the SMP, DIS and/or WQIS

No development application shall be approved until two copies of a SMP, DIS, and/or WQIS, when these are required, have been submitted to, reviewed and approved by DPW.

Development Application Type	Stages in the development process		
	CPPC application	Construction plan submittal	Building Permit application
PUD Concept & TND General	<ul style="list-style-type: none"> • Concept DIS • Concept WQIS 		
PUD Final, TND Specific, & others subject to PC approval	<ul style="list-style-type: none"> • Prelim. SMP • DIS • WQIS 	<ul style="list-style-type: none"> • Final SMP 	
Other subject to DPW approval			<ul style="list-style-type: none"> • SMP • DIS • WQIS

Drainage Impact Study

A Drainage Impact Study (DIS) must include the following, at a minimum:

- Location and description: Existing and future land use, existing physical conditions; estimate of pre- and post-development percent impervious area; photos of existing drainage features
- Watershed map: Drainage boundaries; slope of basins; location of existing drainage features
- Hydrologic design: Existing and future condition peak 10-year flow rates at entry and exit points
- Hydraulic capacities: capacity of existing on-site drainage facilities; required type, size and capacity of proposed outfall facilities; inventory of existing off-site downstream outfall facilities, including capacity, size, type, and invert and cover-topping elevations
- Identification and description of special conditions
- Conclusions and recommendations

A DIS is required for all development applications, with the following exemptions:

- Area of impervious surface does not exceed 20% of the development area at the point of discharge from the site.
- Additions or modifications to existing developments which result in no more than a 10% increase in existing impervious area and which have existing public storm drainage facilities designed to accommodate runoff from the existing site.

Development applications meeting the following criteria may request, in writing to the Planning Commission, a waiver of the DIS:

- No more than a 10% increase in the 10-year pre-development peak discharge at the point of discharge from the development site.
- Located within an existing developed area served by a network of public storm drainage facilities which were designed to accommodate runoff from the site.

Water Quality Impact Study

A Water Quality Impact Study (WQIS) must include the following, at a minimum:

- Existing Site Conditions and Location: watersheds and subwatersheds, on-site and off-site; soils and topography; land cover
- Proposed Development Conditions: watersheds and subwatersheds, on-site and off-site; land cover and pre- and post-development comparison table; empirically expected pollutants
- Proposed Water Quality Treatment: stormwater treatment train; water flows per subwatershed
- Study Conclusions & Recommendations: empirically expected pollutant removal

A WQIS is required for all development applications, with the following exemptions:

- Sites with a developed area <1 acre
- Farming or agricultural activities

Waiver of specific pollutant treatment

A waiver to treat a specific pollutant may be obtained if the applicant can provide documentation showing that the specific pollutant does not exist on-site and will not be generated by proposed development.

Stormwater management during construction

A Storm Water Pollution Prevention Plan is required for construction activities on sites greater than one acre in size. Contact the DPW Environmental Division (225-389-5456) for more information.

For more information

- Drainage Engineering: Jim Ferguson, PE (225) 389-3189; jferguson@brgov.com
- Infrastructure Planning: Melissa Guilbeau, AICP (225) 389-3158; mguilbeau@brgov.com
- Operations: Tom Stephens, PE (225) 389-3158; tstephens@brgov.com
- Permit & Inspection: Carey Chauvin (225) 389-3205; cchauvin@brgov.com
- Subdivision Engineering: Alison Ford, EI (225) 389-3198; aford@brgov.com