Virginia Erosion and Stormwater Management Program (VESMP)

STORMWATER MANAGEMENT PLAN PAGE(S):

YES	NO	N/A	DESCRIPTION	PAGE #
			Narrative:	
☐	☐	☐	Contact information including the name, address and telephone number of the owner and the tax reference number and parcel number of the property or properties affected	
☐	☐	☐	Description of current site conditions and final site conditions	
☐	☐	☐	Information on type and location of stormwater discharges	
☐	☐	☐	Information on the features to which stormwater is being discharged, including water bodies classified as impaired in the Virginia DEQ 305(b)/303(d) Water Quality Assessment Integrated Report and whether the waterbody is identified as an exceptional water in 9VAC25-260-30 A 3,	
☐	☐	☐	Information on any additional control measures to be implemented to address an approved local TMDL for which a wasteload has been allocated for sediment or sediment related parameters, nutrients, or polychlorinated biphenyls (PCB)	
☐	☐	☐	A general description of the proposed stormwater management facilities and the mechanism through which the facilities will be operated and maintained after construction is complete	
			Site Information:	
☐	☐	☐	Existing drainage facilities and creeks and channels, including all streams, ponds, culverts, ditches, wetlands, other water bodies and floodplains	
☐	☐	☐	Soil types, geologic formations if karst features are present in the area, forest cover and other vegetative areas	
☐	☐	☐	Current land use including existing structures, roads and locations of known utilities and easements	
☐	☐	☐	Sufficient information on adjoining parcels to assess the impacts of stormwater from the site on these parcels	
☐	☐	☐	The limits of clearing and grading and the proposed drainage patterns on the site	
☐	☐	☐	Proposed buildings, roads, parking areas, utilities and stormwater management facilities	
☐	☐	☐	Proposed land use with tabulation of the percentage of surface area to be adapted to various uses, including but not limited to, planned locations of utilities, roads and easements	

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			Hydrologic Analysis:	
☐	☐	☐	*Pre-development and post-development contributing drainage areas	
☐	☐	☐	Pre-development and post-development runoff rates, volumes and velocities, and methodologies used	
☐	☐	☐	Pollution load and reduction requirements and calculations including a completed Virginia Runoff Reduction Method spreadsheet, when required.	
			Hydraulic Analysis:	
☐	☐	☐	Sizing calculations for stormwater control measures	
☐	☐	☐	Existing and proposed structural elevations (pipe inverts, manholes, etc.)	
☐	☐	☐	Stage-storage or outlet rating curves and inflow and outflow hydrographs for storage facilities	
☐	☐	☐	Design water surface elevations	
☐	☐	☐	Analysis of potential downstream impacts/effects of the project	
☐	☐	☐	Location and elevation of the lowest floor in all proposed and existing buildings adjacent to the floodplain	
☐	☐	☐	Dam safety and breach analysis	
			Best Management Practices (BMPs):	
☐	☐	☐	Type of BMPs proposed (use SWM Handbook names)	
☐	☐	☐	Location, including geographic coordinates (Lat/Long including decimal up to six units)	
☐	☐	☐	Total acres treated	
☐	☐	☐	Acres impervious treated	
☐	☐	☐	Acres pervious treated	
☐	☐	☐	Documentation and calculations verifying compliance with water quality and quantity requirements	
☐	☐	☐	Applicable supporting documents and studies (e.g. infiltration tests, geotechnical investigations)	
☐	☐	☐	Landscaping plan for any BMPs or site reforestation	

*Denotes items that are required in digital format "dxf" for purpose of updating the City's GIS data.

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Piped Systems:

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	Analyzed and designed for 2/10-yr/25-yr/100-yr Storm Primary road crossings designed for 25-yr flows and 10-yr under secondary roads and other locations	
☐	☐	☐	Culverts checked for the effects of 100-yr Storm No flooding of building Structures shall result from 100-yr design	
☐	☐	☐	Energy dissipater calculations	
☐	☐	☐	Capacity of receiving channel downstream of channel or pipe system	
☐	☐	☐	Gutter spread limited to 10ft from the face of the curb	
☐	☐	☐	Hydraulic grade lines show 1ft below inlets	

Open Channel Systems:

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	Proposed channel capacity analyzed and designed for pre 10-yr Storm	
☐	☐	☐	Channel designed for a 2-yr Storm without erosion and 10-yr for bank fill (liner design)	
☐	☐	☐	Velocity Check (liners provided, if needed) Provide channel velocities	
☐	☐	☐	Overlot grading plan	
☐	☐	☐	Provide 100-yr overland relief assuming pipe system failure	

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CHESAPEAKE BAY REGULATIONS PLAN PAGE(S):

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	For any property depicted on the City's Chesapeake Bay preservation area map as a resource protection area (RPA), the applicant shall determine and show on the plan the site-specific boundaries of the RPA components per code section 110-6.13.B.2 The applicant shall also submit a RPA site-specific study application available at the Zoning Division or at: http://www.fairfaxva.gov/cdp/docs/RPASiteSpecificStudyApplication.pdf	
☐	☐	☐	USACE jurisdictional determination or verification letter for RPA boundaries	
☐	☐	☐	Water quality impact assessment (WQIA) is required for any proposed development or redevelopment unless the requirement is waived by the Zoning Administrator Application/waiver form is available at the Zoning Division or at: http://www.fairfaxva.gov/cdp/docs/WQIAApplication.pdf	
☐	☐	☐	Tree management plan per code section 110-6.13.2.A including preservation of mature trees	
☐	☐	☐	Climate change and sea level rise assessment per code section 110-6.18.9.	
☐	☐	☐	Stormwater management plan	
☐	☐	☐	BMP maintenance plan, including inspection schedule	
☐	☐	☐	BMP maintenance agreement (available at the Zoning Division)	
☐	☐	☐	Copies of any required wetland permits	

Performance Standards of Chesapeake Bay Regulations:

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	Maximize rainwater infiltration	
☐	☐	☐	Reduce the land application of nutrients and toxics	
☐	☐	☐	Minimize erosion and sedimentation potential	
☐	☐	☐	Limit land disturbance and preserve indigenous vegetation to the maximum extent practicable, consistent with the use or development proposed. Preservation of mature trees.	

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Stormwater Pollution Prevention Plan (SWPPP) Contents:

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	SWPPP package complete	
☐	☐	☐	An erosion and sediment control plan consistent with the requirements of the Virginia Erosion and Stormwater Management Act and regulations must be designed and implemented during construction activities. Prior to land disturbance, this plan must be approved the City of Fairfax.	
☐	☐	☐	A stormwater management plan consistent with the requirements of the Virginia Erosion and Stormwater Management Act and regulations must be designed and implemented during construction activities. Prior to land disturbance, this plan must be approved by the City of Fairfax.	
☐	☐	☐	A pollution prevention plan that identifies potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the construction site and describe control measures that will be used to minimize pollutants in stormwater discharges from the construction site must be developed before land disturbance commences.	
☐	☐	☐	If a specific wasteload allocation (WLA) for a pollutant has been established in an approved TMDL and is assigned to stormwater discharges from a construction activity, additional control measures must be identified and implemented by the operator so that discharges are consistent with the assumptions and requirements of the WLA.	

NOTE: The SWPPP shall be amended whenever there is a change in design, construction, operation or maintenance that has a significant effect on the discharge of pollutants to state waters and that has not been previously addressed in the SWPPP. The SWPPP must be maintained at a central location onsite. If an onsite location is unavailable, notice of the SWPPP's location must be posted near the main entrance at the construction site.

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Virginia Erosion and Stormwater Management Program (VESMP)

Pollution Prevention Plan (PPP) Contents:

YES	NO	N/A	DESCRIPTION	PAGE #
☐	☐	☐	A pollution prevention plan, as required by 9VAC-25-875-520, shall be developed, implemented and updated as necessary and must detail the design, installation, implementation and maintenance of effective pollution prevention measures to minimize the discharge of pollutants.	
☐	☐	☐	Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water and other wash waters Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.	
☐	☐	☐	Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater	
☐	☐	☐	The pollution prevention plan shall include effective best management practices to prohibit the following discharges: (a) Wastewater from washout of concrete, unless managed by an appropriate control (b) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials (c) Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance (d) Soaps or solvents used in vehicle and equipment washing	

NOTE: Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls. Construction dewatering activities authorized for discharge under the VPDES General Permit for Discharges of Stormwater from Construction Activities (CGP) must comply with CGP monitoring requirements.