

Summary of City of Minneapolis and MWMO Stormwater Performance Standards

Category	MWMO Standard*	City Standard**	City Standard Reference**	City Contact	Applicable Tools
Trigger	> 1 acre of land disturbance (see complete MWMO Standards language for a list of exemptions)	Land disturbance >0.5 acre requires an approved stormwater management plan. Land disturbance >5,000 ft ² or 500 yd ³ requires an approved erosion and sediment control plan.	City Code Chapter 52 and Chapter 54 City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	
Rate Control	Defer to City (or MS4) rate control standards	Peak discharge rates shall be maintained at or below the existing condition rates for the disturbed land area (for the 2-year, 10, year, and 100-year 24-hour storm event using NRCS MSE3 distribution).	City Code Chapter 54 City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	<ul style="list-style-type: none"> • HydroCAD • SWMM
Water Quality/ Volume Control	<p>For nonlinear projects: 1.1 inches of runoff from the new and fully reconstructed impervious surfaces shall be captured and retained on site.</p> <p>For linear projects: the larger of the following shall be captured and retained on site:</p> <ul style="list-style-type: none"> i. 0.55 inches of runoff from new and fully reconstructed impervious surfaces ii. 1.1 inches of runoff from the net increase in impervious area <p>For projects on sites with limitations, follow the MWMO Design Sequence Flow Chart (Appendix I of the MWMO’s Watershed Management Plan) or an MWMO-approved alternative to identify a path to compliance through Flexible Treatment Options (also presented in Appendix I).</p>	<p>New development, redevelopment, and nonlinear projects without site restrictions shall capture and retain on-site 1.1 inches of runoff from the new and fully reconstructed impervious surfaces.</p> <p>Linear projects without site restrictions shall capture and retain on site the larger of:</p> <ul style="list-style-type: none"> 1) 0.55 inches of runoff from new and fully reconstructed impervious surfaces 2) 1.1 inches of runoff from the net increase in impervious area <p>All projects subject to the City’s Stormwater Management Ordinance must achieve 70% TSS removal from the 1.25 inch, 24-hour event for the disturbed area.</p>	City Code Chapter 54 City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	<ul style="list-style-type: none"> • P8 • MIDS calculator • WinSLAMM

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Volume Control Guidance	See complete MWMO Standards language for full details.	City Stormwater and Sanitary Sewer Guide and City current MPCA NPDES/SDS Municipal Separate Storm Sewer Systems (MS4) permit define infiltration restrictions. BMPs should be designed consistent with the Minnesota Stormwater Manual.	City Code Chapter 54 City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	<ul style="list-style-type: none"> • Minnesota Stormwater Manual • NPDES Construction Stormwater Permit
Maintenance	Stormwater management facilities shall be maintained to assure they function as originally designed. Owners must follow an inspection and maintenance schedule approved by the permitting entity and correct any performance issues that arise.	<p>Stormwater management plans shall include an operations and maintenance plan that defines the maintenance regimen, including the type and interval of inspection and maintenance, and party responsible.</p> <p>The responsible party of a BMP shall register it annually with the city engineer</p> <p>All BMPs are subject to inspection by the city engineer. If the city engineer deems that BMPs are not functioning satisfactorily, procedures may be followed as described in City Code Chapter 54</p>	City Code Chapter 54	Public Works – Surface Waters and Sewers	
Drainage Alterations	No person shall alter stormwater flows at a property boundary by changing land contours, diverting or obstructing surface or channel flow, or creating a basin outlet, without obtaining any necessary city permits.	No stormwater management plan shall cause unreasonable damage or unreasonable environmental, health, or safety conditions on adjacent properties.	City Code Chapter 54	Public Works – Surface Waters and Sewers	

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Wetland Bounce and Duration Control	The project must meet maximum allowable water level bounce (i.e., water level increase) and drawdown times (time to return to normal water level) according to wetland susceptibility classification (see complete MWMO standard).	Projects meeting applicable requirements of the City's Stormwater Management Ordinance and City Stormwater and Sanitary Sewer Guide are considered in compliance with MWMO standards,	City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	<ul style="list-style-type: none"> • HydroCAD • SWMM
Flood Control	Defer to City (or MS4) flood control standards.	Structures shall be constructed with low floor at or above the regulatory flood protection elevation (1 foot above the 100-year flood level).	City Code Chapter 551	Community Planning and Economic Development	<ul style="list-style-type: none"> • FEMA Floodplain Mapping
Erosion and Sediment Control	<ul style="list-style-type: none"> • Must meet NPDES Construction Stormwater General Permit requirements • Activity shall be phased to minimize disturbed areas subject to erosion at any one time. • All construction site waste shall be properly managed and disposed of so they will not have an adverse impact on water quality. • Silt fence, if installed, shall conform to sections 3886.1 and 3886.2, Standard Specifications for MnDOT 	<p>Soils shall be prevented from being deposited onto adjacent properties, rights-of-way, public storm drainage system, or wetland or watercourse.</p> <p>The design, testing, installation, and maintenance of erosion and sediment control operations and facilities shall adhere to the standards and specifications contained in the City Stormwater and Sanitary Sewer Guide and Minnesota Stormwater Manual.</p>	City Code Chapter 52 City Stormwater and Sanitary Sewer Guide	Public Works – Surface Waters and Sewers	

Notes:

* this table is a summary of MWMO Standards – the [full version](#) is included in the MWMO Watershed Management Plan. The MWMO is not a regulatory entity; approvals related to stormwater management are issued by the City.

** City information included in this table should be verified with appropriate City staff.

