

Total Maximum Daily Load (TMDL)

Guidance for Tier A MS4 Permittees

The Draft Tier A Municipal Separate Storm Sewer System (MS4) General Permit proposes to require Tier A MS4 permittees to review approved and adopted TMDL reports to identify any TMDLs that apply to surface water bodies wholly or partially within or bordering the Tier A municipality. The municipality would then use the information to prioritize maintenance of stormwater facilities and to identify and develop optional measures to address specific sources of stormwater-related pollutants contributing to a waterbody with an approved or adopted TMDL.

This guidance document provides examples of potential pollutant sources and responses to reduce pollutant loading for a number of common stormwater-related pollutants. This list does not contain all possible pollutant sources or all appropriate responses; therefore, municipalities must also consider other potential pollutant sources and responses as appropriate for their individual municipality. More detailed information on potential pollutant sources, potential responses, and proposed or completed projects aimed at reducing pollutant loading can be found in each TMDL document.

To use the Department's TMDL Look-Up Tool to find applicable TMDLs for each municipality, please visit www.nj.gov/dep/dwq/msrp-tmdl-rh.htm. To find a spreadsheet of all approved or adopted TMDLs in New Jersey, please visit www.nj.gov/dep/wms/bears/tmdls.html and select "Table of New Jersey TMDLs and Approval Status".

<i>Fecal Coliform/Total Coliform/E. Coli/Enterococcus/Pathogens</i>	
Potential Sources	Potential Responses
Stormwater management facilities that are improperly designed and/or maintained	Ensure proper operation and maintenance of publicly owned and privately owned stormwater management facilities
	Retrofit existing stormwater management facilities to provide enhanced water quality benefits
Illicit discharges and connections	Identify and eliminate illicit discharges and connections
	Prioritize infrastructure mapping and inspection in TMDL areas
Malfunctioning sewage conveyance facilities	Identify and eliminate illicit discharges and connections
On-site disposal systems that are inadequately designed, operated, maintained, or located	Identify and eliminate illicit discharges and connections
Runoff from impervious surfaces such as sidewalks, roads, rooftops	Encourage green or blue infrastructure and adopt BMPs as necessary especially for any new construction (see www.nj.gov/dep/gi/)
Pets	Enforce pet waste ordinance(s)
	Target public education materials to pet owners
Wildlife	Enforce wildlife feeding ordinance(s)
	Establish goose management BMPs
	Riparian/Lake and "No Mow" buffer restoration

NOTE: This document is intended to provide examples of different pollutant sources and possible strategies for reducing pollutant loading to surface water bodies. This list is not exhaustive and is meant only to aid municipalities in identifying common pollutant sources and in taking optional measures to reduce pollutant loading.

Total Maximum Daily Load (TMDL) Guidance for Tier A MS4 Permittees

Phosphorus	
Potential Sources	Potential Responses
Stormwater management facilities that are improperly designed and/or maintained	Ensure proper operation and maintenance of publicly owned and privately owned stormwater management facilities
	Retrofit existing stormwater management facilities to provide enhanced water quality benefits
Unmanaged urban stormwater runoff	Implement green infrastructure and other stormwater management strategies to reduce the adverse effects of unmanaged stormwater runoff;
	Adopt a stricter stormwater control ordinance, such as reducing the threshold for major development or requiring on-site retention
	Prioritize street sweeping and stormwater inlet cleaning in TMDL areas
Illicit discharges and connections	Identify and eliminate illicit discharges and connections
	Prioritize infrastructure mapping and inspection in TMDL areas
Malfunctioning sewage conveyance facilities	Identify and eliminate illicit discharges and connections
On-site disposal systems that are inadequately designed, operated, maintained, or located	Identify and eliminate illicit discharges and connections
Pets	Enforce pet waste ordinance(s);
	Target public education materials to pet owners
Wildlife	Enforce wildlife feeding ordinance(s)
	Establish goose management BMPs
	Riparian/Lake and “No Mow” buffer restoration
Fertilizers	Ensure a mechanism is in place for enforcement of the New Jersey Fertilizer Law (see www.nj.gov/dep/healthylawnshealthywater/)

NOTE: This document is intended to provide examples of different pollutant sources and possible strategies for reducing pollutant loading to surface water bodies. This list is not exhaustive and is meant only to aid municipalities in identifying common pollutant sources and in taking optional measures to reduce pollutant loading.

Total Maximum Daily Load (TMDL)

Guidance for Tier A MS4 Permittees

<i>Total Suspended Solids</i>	
Potential Sources	Potential Responses
Stormwater management facilities that are improperly designed and/or maintained	Ensure proper operation and maintenance of publicly owned and privately owned stormwater management facilities
	Retrofit existing stormwater management facilities to provide enhanced water quality benefits
Unmanaged urban stormwater runoff	Implement green infrastructure and other stormwater management strategies to reduce the adverse effects of unmanaged stormwater runoff
	Adopt a stricter stormwater control ordinance, such as reducing the threshold for major development or requiring on-site retention
	Prioritize street sweeping and stormwater inlet cleaning in TMDL areas
Illicit discharges and connections	Identify and eliminate illicit discharges and connections
	Prioritize infrastructure mapping and inspection in TMDL areas
Malfunctioning sewage conveyance facilities	Identify and eliminate illicit discharges and connections
Construction site stormwater runoff	Ensure proper soil erosion and sediment control measures are installed on construction sites
Outfall pipe stream scour	Increase frequency of outfall pipe evaluation and repair instances of outfall pipe stream scour

NOTE: This document is intended to provide examples of different pollutant sources and possible strategies for reducing pollutant loading to surface water bodies. This list is not exhaustive and is meant only to aid municipalities in identifying common pollutant sources and in taking optional measures to reduce pollutant loading.