

**WATER RESOURCES PERMITS &
STORMWATER MANGEMENT GUIDANCE**

Updated 09/11/2024

WATER RESOURCES PERMITS

Below are common permits and reviews required for grading activities. Please ensure all appropriate permits are obtained and applicable reviews are completed before grading or construction work begins.

<i>Permits</i>	<i>Permit Threshold</i>
City of Plymouth Grading Permit	<ul style="list-style-type: none"> • 50 cubic yards* or more of grading or disturbance • 10 cubic yards or more of grading or disturbance if in a <u>Shoreland Management Overlay District</u> <p><i>*A standard dump truck holds approximately 10-15 cubic yards</i></p>
<i>Stormwater Management Review</i>	<p>If adding or fully reconstructing impervious surface:</p> <ul style="list-style-type: none"> • More than half (1/2) an acre ⇒ Rate Control • One or more acres ⇒ Rate Control & Water Quality Treatment <p><i>See next page for details</i></p>
NPDES Construction Stormwater Permit	<ul style="list-style-type: none"> • One acre or more of soil disturbance • Less than one acre of soil disturbance, if that activity is part of a larger common plan of development or sale that covers more than one acre
<i>Watershed Commission Review</i>	<p>Watershed regulations vary by watershed. Please refer to the appropriate watershed to review rules and permit thresholds:</p> <ul style="list-style-type: none"> • Bassett Creek Watershed • Shingle Creek Watershed • Elm Creek Watershed • Minnehaha Creek Watershed
<i>Other Requirements</i>	<p>When working near waterbodies or wetlands, additional permits or reviews may be needed and additional rules may apply. Other regulatory agencies and programs may include: Wetland Conservation Act (WCA), Department of Natural Resources (DNR), Minnesota Pollution Control Agency (MPCA), Federal Emergency Management Agency (FEMA), US Army Corps of Engineers (USACE), and US Fish and Wildlife Service (USFWS).</p>

Questions? Please reach out to the City of Plymouth Engineering Department at engineering@plymouthmn.gov or 763-509-5500



STORMWATER MANAGEMENT GUIDANCE

Stormwater management is required for certain projects to provide flood protection and mitigation and to protect and enhance water quality in lakes, streams, and wetlands.

Rate Control

- Required if adding or fully reconstructing more than a **half-acre (1/2 ac)** of impervious surface
- No net increase for the 2, 10, and 100-year storm events

Water Quality Treatment

- Required if adding or fully reconstructing an acre or more of impervious surface, including through a [common plan of development or sale](#)
- Project must meet Minnesota's Minimal Impact Design Standards (MIDS)
- Performance standards: 1.1", 85% TSS and 60% TP

The materials listed below are required for stormwater management reviews:

I. Narrative

- a. Project description
- b. Rate control summary for the 2, 10, and 100-year storm events
- c. If water quality treatment applies, submit a MIDS Summary
 - i. Include description of how project meets MIDS performance standards
 - ii. If using flexible treatment options, provide description of how the project qualifies and is meeting FTO 1, FTO 2, or FTO 3
 - iii. Infiltration systems are prohibited in areas listed in the Minnesota NPDES/SDS Construction Stormwater Permit and MS4 Permit as prohibited for infiltration. If infiltration is not implemented, the reason it is prohibited must be documented.

II. Drainage Calculations

- a. Rate Control Calculations
 - i. Rate control and volume calculations for both existing and proposed conditions in HydroCAD format or approved equal
 - ii. Drainage maps detailing existing and proposed sub-catchments
- b. Water Quality/MIDS
 - i. MIDS summary
 - ii. MIDS calculator spreadsheet
 - iii. Existing soil information

III. Offsite Mitigation

- a. For non-linear projects where the water quality volume cannot cost effectively be treated on the site of the original construction activity, offsite treatment may be allowed by the City at the discretion of the City Engineer or designee.
- b. If the City allows offsite treatment, the offsite treatment must comply with all requirements of the Minnesota NPDES/SDS MS4 Permit, and all information must be properly documented within required timelines.

Additional design requirements are listed in the [Plymouth Engineering Guidelines](#).