

# **Water and Sewer Adequacy Standards**

## **Chapter 24 “Water, Sewers and Wastewater Disposal”**

### **Section 24-12**

Before issuing a permit in accordance with Chapter 21 for water and/or sewer, the Director shall ensure adequate capacity of the City Water and Sewer Systems.

1. The adequacy of the water system is evaluated for:
  - a. Raw water supply capacity;
  - b. Water treatment and pumping capacity; and
  - c. Hydraulic capacity of the water distribution system.
2. The adequacy of the sewer system is evaluated for:
  - a. Wastewater treatment capacity at DC Water’s Blue Plains Advanced Wastewater Treatment Plant; and
  - b. Hydraulic conveyance capacity in the Rockville and WSSC sewer collection systems and pumping stations.

The levels of service for water system adequacy determination are:

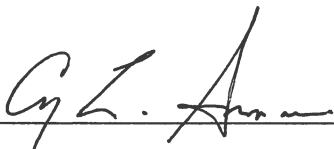
1. For the raw water supply capacity, the average daily raw water withdrawal and maximum daily raw water withdrawal from the Potomac River shall not exceed Maryland Department of the Environment (MDE) allocation for the City of Rockville (or permitted appropriation).
2. For the water treatment and pumping capacity, the peak day water production shall not exceed the maximum capacity of the Rockville Water Treatment Plant and water pumping stations.
3. The hydraulic water capacity level of service is determined by the Director in accordance with this chapter and Chapter 25, Article 20—Adequate Public Facilities Ordinance. The hydraulic analysis of the water system must demonstrate or conclude:
  - a. A minimum fire flow standard of 1,000 gallons per minute (gpm) is achieved for single family detached housing, at the closest accessible public fire hydrants.
  - b. A minimum fire flow standard of 2,000 gpm is achieved for uses, other than single family detached housing, at a public fire hydrant within 1,000 feet of a property. This may be achieved by the summation of any two accessible hydrants each able to supply a minimum fire flow of 1,000 gpm within 1,000 feet of a property.

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The levels of service for sewer system adequacy determination are:

1. For wastewater treatment capacity at DC Water’s Blue Plains Advanced Wastewater Treatment Plant, the average daily wastewater flow shall not exceed the City’s allocated capacity.
2. For the hydraulic conveyance capacity in the Rockville and WSSC sewer collection systems and pumping stations, the capacity for the Rockville wastewater flow shall meet the following criteria:
  - a. In the Rockville system, the peak wastewater flow shall not exceed the crown of the pipe for collector sewers and four feet below the rim elevations for trunk sewers and shall not exceed the maximum capacity for any pumping station.
  - b. The peak wastewater flow at any City of Rockville/WSSC boundary shall not exceed the authorized flow limit.
3. Water and sewer systems hydraulic capacity are deemed adequate for the following:
  - a. Any net increase in wastewater flow equal to or less than 10,000 gallons per day (gpd); or
  - b. The construction of one to ten additional residential dwelling units; or
  - c. A change of use to an existing building or portion thereof.
  - d. If the Director determines that water and/or sewer system hydraulic capacity is not adequate, based on proposed development, existing conditions, and approved but not yet occupied development, then the Director will not allow connection to the water and/or sewer system for that proposed development, until water and/or sewer system mitigation measures have been implemented to the satisfaction of the Director.
  - e. Notwithstanding the above, the Director reserves the right to confirm the adequate capacity of the water and / or sewer system(s) to allow a connection to the water and / or sewer system, which may require mitigation to address any deficiency, prior to the issuance of a building permit.

Approved: \_\_\_\_\_

  
Director of Public Works

7/9/19

Date