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J. Hillary Conklin
Tisbury Town Clerk

Tisbury Public Hearing Notice

The Tisbury Select Board will hold a public hearing on Wednesday, August 9, 2023 at 4:15PM to review and consider adoption of Article IX Wastewater Capacity Management Policy of Tisbury Wastewater Regulations. This public hearing will be held in a Hybrid Format. The Public can attend and participate in the hearing by joining scheduled Zoom meeting via <https://us06web.zoom.us/j/86176500859> Meeting ID: 861 7650 0859 Passcode: 097106 One tap mobile +1 646 876 9923 US (New York) and in person at Katharine Cornell Theater, 51 Spring Street, Tisbury.

Full hearing materials are available for public inspection at the Select Board Office, 115 High Point Lane during regular business hours and online at: <https://www.tisburyma.gov/board-selectmen/pages/public-hearings>. If you are unable to attend the hearing, please feel free to address your comments and/or concerns to the Tisbury Select Board, Box 1239, Vineyard Haven, MA 02568 or via email to edefoe@tisburyma.gov.

ARTICLE IX WASTEWATER CAPACITY MANAGEMENT POLICY

Section

- 9.01 Purpose
- 9.02 Definitions
- 9.03 Determining Available Treatment Plant Capacity
- 9.04 Categorical Available Capacity

9.01 Purpose

The purpose of this policy is to assist the Tisbury Wastewater Department Superintendent in determining wastewater treatment plant capacity, tracking the remaining capacity available for allocation, and determining how available capacity should be allocated based on the needs of the Town as determined by the Select Board, acting as the Sewer Commissioners. More accurately integrated and real-time allocation and tracking, combined with information on treatment plant performance and flow, will help to ensure that the Town's Wastewater Treatment Plant (WWTP) is operating within design parameters, does not exceed its ability to properly treat wastewater, and provides adequate capacity to meet the needs of the Town and planned future development.

9.02 Definitions

For the purposes of policy, the following definitions shall mean:

Allocation - the reservation for a particular building, project or property of a prescribed amount of wastewater flow to the Town's Sanitary Sewer Collection System.

Capacity - represents the ability of facilities to move or process a specific volume of wastewater as determined in accordance with the parameters of the Town's Ground Water Discharge Permit under 314 CMR 5.00.

Flow - the actual amount of wastewater flowing by a particular point over some specified time.

Gallons per Day (gpd) - is a unit of measurement for the demand of wastewater treatment.

Infiltration - water other than wastewater that enters a sewer system (including sewer service connections and foundation drains) from the ground through means that include, but are not limited to, defective pipes, pipe joints, connections or manholes. Infiltration does not include and is distinguished from inflow.

Inflow - water other than sanitary sewer flow that enters a sewer system (including sewer service connections) from sources that include, but are not limited to, roof leaders, cellar drains, yard drains, area drains, drains from springs and swampy areas, manhole covers, connections between storm and sanitary sewers, catch basins, cooling towers, stormwater, surface runoff or street drainage. Inflow does not include and is distinguished from infiltration.

Permanent Privilege Fee - a one-time fee paid to the Wastewater Department, normally when applying for flow allocation, to help offset the capital costs of processing and treating the flow in the Wastewater Collection and Treatment System (the "System"). The Permanent Privilege Fee is based on multiple factors such as type of connection, strength of the wastewater discharged, and estimated flow.

9.03 Determining Available Treatment Plant Capacity

1. The Town of Tisbury has a legal mandate to manage wastewater allocations so as not to exceed the maximum daily flow (139,000gpd) outlined in the Town's Individual Groundwater Discharge Permit (Permit No. 732-3), issued by the Massachusetts Department of Environmental Protection on July 1, 2022.

2. In order to ensure compliance with the Town's Individual Groundwater Discharge Permit the Tisbury Wastewater Department Superintendent employs several methods of flow monitoring to ensure the most accurate accounting of wastewater flows being conveyed to the WWTP.

- a. Flow Estimations

Flow estimation is used when connections are being made to the System from a flow source that does not have any prior water usage flow data. These types of connections include new structures, businesses, changes of use, and additions to existing structures. Flow estimations will be calculated using the Collection System Connection Estimation Worksheet, located in 310 CMR 15.000 The State Environmental Code, Title 5.

- b. Water Use Records

Metered water usage records are the most accurate way to continuously monitor and evaluate the flow within the System. All properties connected to the System will have their water meters read quarterly and the Wastewater Department will review the readings to monitor increases and decreases in flow.

- c. Weirs

A weir is an overflow structure built according to specific design standards across an open channel to measure the flow of water. For weirs of specific geometry, equations can be derived which relate static head to water flow. The Tisbury Wastewater Department uses the V-notch type of weir for daily flow monitoring at the WWTP. The readings for all flows entering the WWTP can include Inflow and Infiltration and the readings are mainly used for comparison to metered water use records for the properties discharging wastewater to the System.

3. Every January, the Wastewater Department Superintendent will determine the available WWTP available capacity by subtracting the flow used from the designed capacity as outlined below.

Step 1:

Flow Use, gpd = (3 yr. water use average, gpd) + (Flow estimations, gpd) + (Unused assigned flow, gpd)

Step 2:

Available Capacity, gpd = (Design Capacity, gpd) – (Flow Use, gpd)

9.04 Categorical Available Capacity

1. Due to the limited available capacity at the WWTP, the calculated capacity will be classified into several categories on a percentage basis. The percentage level of each category shall reflect the needs of the Town and shall be reviewed at least annually by the Sewer Commissioners. See below.

- a. 40% Housing Development

Note: under the Zoning Bylaw, multiunit Developments may include conditions for affordable housing and community housing, as defined in the bylaw.

- b. 30% Other Development (e.g., Commercial, Light Industrial)

- c. 15% Reserve Capacity

- d. 15% Town Use (emergency hook-up, Temporary flow for special events)