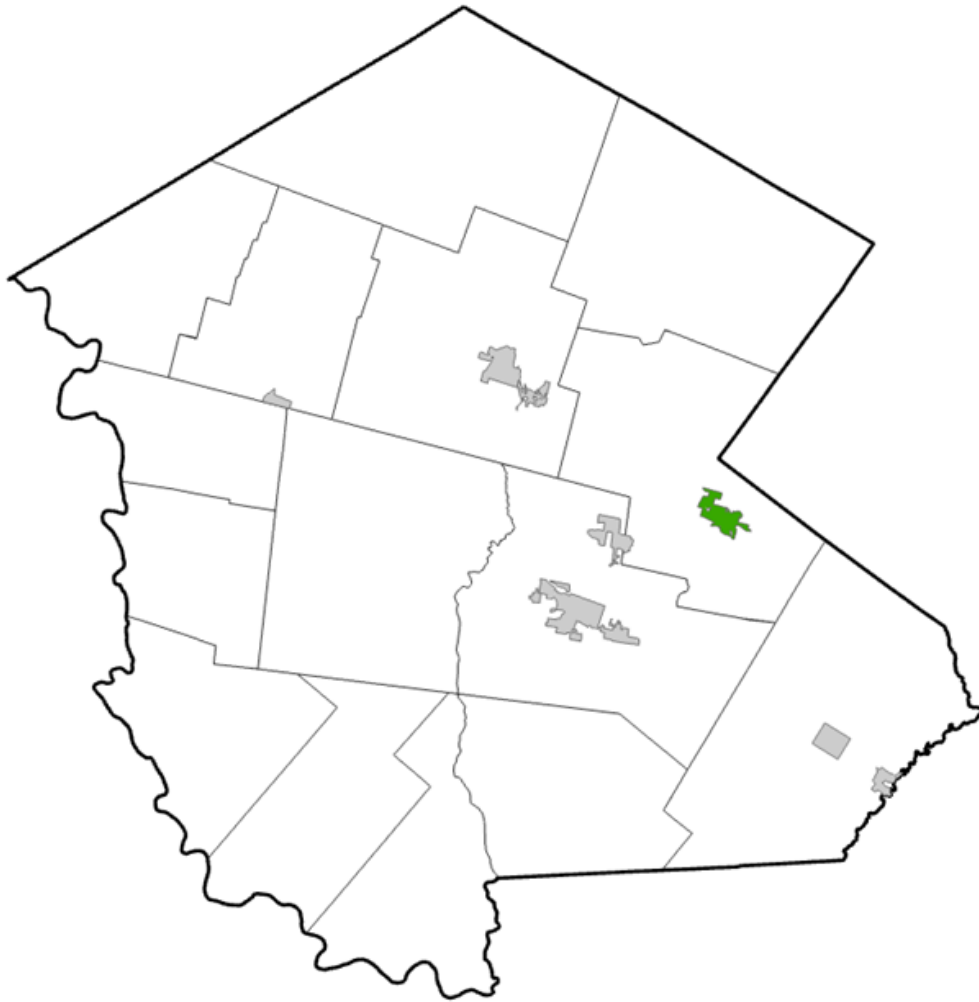




Sullivan County Assessment of Potable & Wastewater Infrastructure

VOLUME II

Village of Woodridge



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*Volumes I and II are part of a larger report.
The full Sullivan County Assessment of Potable and
Wastewater Infrastructure Report may be requested from the
Sullivan County Division of Planning, Community Development and Environmental Management*

1. ABOUT THIS DOCUMENT

In 2025, the Sullivan County Division of Planning, Community Development, and Environmental Management (DPEM) undertook, with the support of Delaware Engineering, DPC, a project to assess water supply and wastewater management infrastructure throughout the County.

As part of that project, known as the Countywide Assessment of Potable and Wastewater Infrastructure (CAPWI), water and sewer infrastructure serving residents and businesses in each of the County's twenty-two municipalities was surveyed, inventoried, and evaluated. This document details the results of this effort and presents the information in a series of Community Reports. The CAPWI Volume 1 Report reflects the information developed within this Volume 2 Report through a series of recommended actions aimed at supporting water and sewer service county-wide, and advanced by the County.

1.1 Using this Document

The information is structured around inventory and evaluation of each community's water supply and wastewater management infrastructure. While emphasis is placed on municipally owned systems, the report surveys and documents other centralized and regulated decentralized water and sewer systems in the Community. Individual on-site facilities are beyond the scope of this report, though it is noted where in the County these systems are exclusively relied on. Mapping showing [service areas](#) and other key information accompanies the report. Sources and methods are also described.

The information in this volume is, in general, not at a level of detail or intended to provide analysis of system or component capacity, be used in the design of specific capital projects, provide detailed system mapping, assess or recommend specific operational techniques or strategies, or other similar activities requiring development of precise technical information and detailed engineering assessment. Instead, this volume provides an inventory and planning-level evaluation of these systems in support of policy and programmatic needs and decision making.

The Countywide Water and Sewer Evaluation and Recommendations report can be viewed by visiting the following website from DPEM.

<https://www.sullivanvny.gov/Departments/PlanningEnvironmental/PlansandStudies/CAPWI>

Individual Community Profile reports have also been prepared as part of the CAPWI project and are intended to be standalone documents that can be used by a variety of audiences,

including municipal leaders and officials, residents, and businesses, seeking basic information about water and sewer service in the municipality.

Finally, many of the terms used have specific meanings and are further elaborated upon in a Glossary attached to this report. Terms appearing in the Glossary are denoted in underline throughout the document, and in the electronic version, you may click these terms to be taken directly to where that term appears in the Glossary.

1.2 Understanding the Data: Public vs. Private Infrastructure

As stated previously, the primary focus of this report is inventorying municipally owned water and sewer systems in Sullivan County. However, the community profile reports also provide limited information on privately-owned systems where relevant and publicly available. In order to understand the data presented, the reader must first have a basic understanding of the regulatory framework governing the operation of different types of water and sewer systems in New York State.

Regardless of ownership, there are two regulatory agencies that are primarily responsible for issuing permits and approvals for drinking water and wastewater systems – the New York State Department of Health ([NYSDOH](#)) and the New York State Department of Environmental Conservation ([NYSDEC](#)).

1.2.1 Public Water Systems (NYSDOH)

In Sullivan County, the [NYSDOH](#) is the agency responsible for regulating [public water systems](#). This includes water systems owned and operated by a municipality, as well as privately-owned water supply companies, and even hospitals, gas stations, and other facilities with private wells. When it comes to water systems, public means that these systems serve the public at large – not the form of ownership.

In general, water systems regulated by [NYSDOH](#) as [public water systems](#) are classified as either [community water systems](#) or [non-community water systems](#) (see Glossary for more information). The data contained in this report is limited to [community water systems](#), whether publicly or privately owned. Information about [non-community water systems](#) (including those that service transient seasonal populations like camps and bungalow colonies) is included, where available, but is not further detailed.

1.2.2 Wastewater Treatment Facilities (NYSDEC)

New York State's wastewater discharge regulations are administered by the [NYSDEC](#) through the [State Pollutant Discharge Elimination System \(SPDES\)](#) program, which requires

permits for any facility that is designed to treat and discharge wastewater. That includes sewage treatment plants that discharge effluent directly to a surface waterbody (like a nearby lake or stream) as well as facilities that discharge wastewater into the ground (like septic systems and sand filters).

No [SPDES](#) permit is required for a facility designed to treat less than 1,000 [GPD](#), and Minor [SPDES](#) projects (those with wastewater discharges of less than 10,000 [GPD](#)) are typically covered by a [NYSDEC](#) General Permit (GP-0-25-002). Only wastewater treatment facilities that don't fall into one of those two categories (Major [SPDES](#) projects) are detailed in this report. Those include centralized systems (e.g., Publicly Owned Treatment Works), [regulated decentralized](#) systems (e.g., "package plants"), and commercial-sized septic systems that discharge to groundwater. Like water systems, wastewater treatment facilities can be publicly or privately owned.

Although the [SPDES](#) program is involved in the centralized wastewater systems with which the CAPWI effort is primarily concerned, the City of New York and [DRBC](#) each regulate in parallel wastewater facilities within their respective geographies. Of further note is that residential systems handling less than 1,000 [GPD](#) are regulated by [NYSDOH](#).

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2. GLOSSARY OF TERMS

2.1 Action Level (AL)

The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

2.2 Annual Water Quality Report (AWQR)

The Annual Water Quality Report is required by federal law and NYS regulation and is designed to provide consumers with information on the quality of the water delivered by their [public water system](#). Systems serving fewer than 1,000 service connections are required to report information on the water source and water treatment, the levels of any detected contaminants, and compliance with drinking water rules, plus general educational information. The report also includes an explanation of the size of the population served by the system, which also typically includes the number of service connections. These reports are available at municipal offices and on municipal websites for public consumption.

2.3 Centralized System (Water or Sewer)

Centralized systems, which can be water supply or wastewater management, refer to infrastructure that is, typically but not exclusively, municipally owned and which is characterized by extensive distribution and conveyance networks serving large areas. Water supply and wastewater management are provided at typically larger-scale facilities. These systems are highly regulated. This infrastructure consists of both collection and conveyance, as well as treatment.

2.4 Decentralized System (Water or Sewer)

These systems are characterized by smaller numbers of connections and with water supply and wastewater treatment works provided closer to the users or source of demand. This term includes individual on-site water supply wells and septic systems serving single users, but also encompasses systems serving multiple connections that are regulated similarly to centralized systems.

2.5 Collection and Conveyance System

The sanitary sewer collection and conveyance system refers to the elements of the sewer system that enable wastewater to flow from points where it's generated to the point(s) where it's treated. In this report, the system begins at the point of connection to individual users and consists, generally, of pipes, manholes, pump stations, forcemains, and upstream wastewater storage (flow attenuation).

2.6 Community Water System (CWS)

A public water system (i.e., one that serves 15 or more service connections used by year-round residents or regularly serves at least 25 year-round residents - see definition in this document) that supplies water to the same population year-round. Examples of community water systems include municipally owned (cities, towns, or villages) public water supplies, public water authorities, or privately-owned water suppliers such as homeowner associations, apartment complexes, and mobile home parks that maintain their own drinking water system. See also the discussion in this Glossary of non-community water systems.

Community water system information, where available, is presented in tabular format. The following table provides an explanation of the meaning of the various values contained in each of the fields.

Water System	Service Area	SDWA #	Population	Connections
<i>[Name of water system]</i>	<i>[The Primary type of area that is served by the <u>public water system</u>: MHP = mobile home park]; HOA = Home-owners association; Residential = Residential area; etc.]</i>	<i>[Safe Drinking Water Information System (SDWIS) ID number]</i>	<i>[The reported population that is served by the system in SDWIS reporting.]</i>	<i>[The reported number of service connections within a system in SDWIS reporting.]</i>

2.7 Deferred Maintenance

In this report, deferred maintenance refers to the postponement of essential upkeep, repairs, or replacements for public facilities, infrastructure, or equipment. These typically minor items will become delayed to the point where they end up impacting performance and reliability, becoming far more costly to rectify. Small maintenance over many years is

more sustainable than waiting for an issue to happen, such as a water main break due to an unrepaired detected leak, or continuing to operate with undersized or obsolete equipment instead of upgrading to something that will save time and money over the long run.

2.8 Delaware River Basin (DRB) and Delaware River Basin Boundary

The area of drainage into the Delaware River and its tributaries, including Delaware Bay, is regulated by the DRBC. Its size is approximately 13,500 sq. miles and includes land in four states.

2.9 Delaware River Basin Commission (DRBC)

The Delaware River Basin Commission is the regional body created in 1961 by the Delaware River Basin Compact signed among the states of Delaware, New Jersey, Pennsylvania, and New York with the force of law to oversee managing the Delaware River system across state boundaries. Among other regulatory programs, DRBC addresses projects in the basin that withdraw from or discharge to the basin's waters over certain thresholds. The threshold for water withdrawals is taking water from ground or surface water, or diversion, or transfer in or out of the Basin, when the daily average gross withdrawal during any 30 consecutive-day period exceeds 100,000 gallons. The threshold for discharges is those over 50,000 GPD during any consecutive 30-day period from wastewater treatment facilities or the importation or exportation of wastewater.

2.10 Delaware River Basin Commission (DRBC) Docket

The record of decision made by DRBC, pursuant to its authority under the 1961 Compact, relating to an application for a permit, including those relating to regulated water withdrawals and discharges. Dockets contain information about water and sewer systems and permitted withdrawal and discharge thresholds.

2.11 Distressed Communities

As per the Empire State Development Corporation and NYS Climate Act, distressed or disadvantaged communities are those that bear the burden of negative public health effects, environmental pollution, and climate change impacts that possess population decline, economic hardships, high unemployment, and high concentrations of low to moderate-income households.

2.12 Disinfection Byproducts (DBPs)

DBPs are substances produced when chlorine, used for disinfection of water, reacts with organic materials in the water. The formation of DBPs is usually a greater concern for water systems that use surface water, such as rivers, lakes, and streams, as their source, as these sources are more likely to contain organic materials necessary for these reactions.

Total trihalomethanes (TTHM) are volatile regulated disinfection DBPs that can pose significant cancer, organ, and reproductive risks. They include chloroform, bromodichloromethane, dibromochloromethane, and bromoform.

Total haloacetic acids (THAA) are regulated disinfection DBPs that can pose cancer and developmental health risks. They include monochloroacetic, dichloroacetic, trichloroacetic, monobromoacetic, and dibromoacetic acids.

2.13 Equivalent Dwelling Unit (EDU)

An EDU is a measurement for water usage that standardizes all users into units based on the demand of one single-family dwelling unit. EDUs are used by utility providers to calculate service charges associated with the probable demand for each user.

2.14 New York State Environmental Facilities Corporation (EFC)

EFC is a NYS public benefit corporation that assists communities and certain businesses throughout New York State to undertake critical water quality infrastructure projects by providing access to low-cost capital, grants, and expert technical assistance. As such, EFC plays a significant role in capital projects undertaken by NYS municipalities. A primary goal is to ensure that these projects remain affordable while safeguarding essential water resources. EFC develops and advances financing strategies to maximize the funding that can be made available, aiding compliance with Federal and State requirements, and promoting green infrastructure practices. In implementing these programs, EFC partners with NYSDEC and NYSDOH on wastewater and drinking water supply projects, respectively.

EFC allocates state and federal funds to participating entities in the form of grants and loans. Major programs include the Clean Water State Revolving Fund (CWSRF), which is oriented toward sanitary sewer and wastewater infrastructure projects, and the Drinking Water State Revolving Fund (DWSRF), which is oriented toward water supply infrastructure projects. These funds “revolve” as borrowers pay their loans back, with payments in turn used to finance new projects; EFC also uses revenue bonds to increase available capital.

Other programs include the engineering planning grants (EPG) program, which provides support to fund the engineering reports required to apply to EFC for financial assistance. EFC provides financial assistance in the form of subsidized loans and grants, such as through the WIIA program created under the 2015 Water Infrastructure Improvement Act.

2.15 Environmental Protection Agency (EPA)

The Environmental Protection Agency (EPA) protects human health and the environment by developing and enforcing regulations, conducting research, providing education, and issuing grants. EPA sets and enforces national standards and federal environmental laws, and cleans up contaminated sites. EPA is ultimately responsible for oversight of key laws affecting both water supply and wastewater management, including the National Pollutant Discharge Elimination System (NPDES); oversight of states, local governments, and water suppliers to enforce the standards under the Safe Drinking Water Act; and regulation of solid and hazardous waste. Importantly, EPA also administers critical funding sources supporting investment in drinking water and clean water (wastewater management) infrastructure.

2.16 Gallons per Day (GPD)

Gallons per day is a unit of measurement that defines the rate of volume flow, or use, for a liquid, such as water, over a 24-hour period. GPD is often used as a measurement of, e.g., the quantity of water consumed by a user or the amount of wastewater generated over the course of a day.

2.17 Gallons per Minute (GPM)

Gallons per minute is a unit of measurement for flow rate, indicating the volume of a liquid that passes a specific point in one minute. GPM is often used to indicate, e.g., the capacity of a water well.

2.18 Individual On-Site Facilities or Systems (Water or Sewer)

As used in this report, individual facilities (or systems) are a subtype of decentralized infrastructure serving a single user, most commonly via on-site water supply wells and septic systems. These wells and septic systems are mainly regulated under building codes, the NYS sanitary code (administered by NYSDOH), and NYSDEC (i.e., with respect to water well drilling and licensing of well drillers). However, these systems may also be regulated

similarly to centralized systems, depending on capacities and types of uses or users served (see Regulated Decentralized Systems).

2.19 Inflow and Infiltration (I&I)

Inflow is when storm water enters the sanitary sewer system (e.g., from a sump pump or roof leader), while infiltration is when groundwater seeps into the system (e.g., due to high groundwater and defects or cracks in pipes and manholes). Both are problems for wastewater treatment, as this "clean" water adds unnecessary volume to the system, which can overload treatment plants or reduce capacity in elements of the conveyance system, such as pipes or pump stations.

2.20 Influent (WWTP)

Influent flow refers to the incoming wastewater that enters a wastewater treatment plant. It is measured at a point prior to the wastewater entering any portion of the treatment process.

2.21 Maximum Contaminant Level (MCL)

MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the Maximum Contaminant Level Goal (MCLG) as possible. MCLG is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MCLs are required to be reported on a water system's AWQR.

2.22 Methyl Tert-Butyl Ether (MTBE)

Methyl tert-butyl ether is a chemical historically used as a gasoline additive. It is a type of volatile organic compound (VOC) that can contaminate groundwater by evaporating easily and dissolving in water.

2.23 Million Gallons per Day (MGPD)

Million gallons per day is a unit of measurement that defines the rate of volume flow, or use, for a liquid, such as water, over a 24-hour period, reported in increments of 1 million gallons. MGPD is often used as a measurement of water produced by a source or wastewater treated at a WWTP over the course of a day.

2.24 Municipal System (water or sewer)

This is the term used throughout the report to denote ownership by a municipal corporation, such as a village or town, of a centralized water supply or wastewater management system.

2.25 New York State Department of Health (NYSDOH)

NYSDOH is responsible for administering the rules and regulations governing both water supply and wastewater management. Under regulatory power delegated by USEPA, NYSDOH regulates public water systems, including community water systems, in NYS. NYSDOH also regulates certain wastewater management systems under an agreement with the New York State Department of Environmental Conservation (NYSDEC); NYSDOH-regulated systems typically include residential septic systems and other wastewater facilities with a flow of less than 1,000 GPD.

2.26 Non-Community Water System

According to NYSDOH, a non-community water system is a public water system (i.e., a water system with at least 5 service connections or that regularly serves an average of at least 25 people daily for at least 60 days out of the year) that serves the public but does not generally serve the same people year-round. There are two types of non-community water systems: transient and non-transient non-community water systems.

- **Transient Non-community Water System** – A transient non-community water system is a non-community water system that serves different people for more than six months out of the year. Rest stops, parks, convenience stores, and restaurants with their own water supplies are examples of transient non-community water systems. In Sullivan County, summer camps that maintain their own water systems are also examples of transient non-community water systems.
- **Non-transient Non-community Water System** – A non-transient non-community water system is a non-community water system that serves the same people more than six months per year, but not year-round. Schools, colleges, hospitals, and factories with their own water supplies are examples of non-transient non-community water systems.

Non-community water systems are regulated by NYSDOH as public water systems (see public water system discussion in this Glossary). For purposes of this report, these systems are discussed where information is available.

2.27 NYC Watershed Boundary

The NYC Watershed Boundary encompasses the NYC watershed, defined as the land area contributing surface water to the New York City water supply. Activities within the NYC watershed are subject to the City of New York's Rules and Regulations for the Protection of Contamination, Degradation, and Pollution of the New York City Water Supply and its Sources. This includes wastewater management systems, such as individual on-site septic systems and wastewater treatment plants.

2.28 NYSDEC Water Withdrawal Permit

Any water withdrawal system with the capacity to withdraw 100,000 gallons per day (GPD) (also referred to as "threshold volume") or more of surface water, groundwater, or a combination thereof requires registration with, permitting from, and reporting to NYSDEC, pursuant to Part 601 of the New York Compilation of Codes, Rules, and Regulations (NYCRR).

2.29 Other System (water or sewer)

This is the term used throughout the report to denote ownership by a non-municipal entity, such as a mobile home park, industrial campus, or homeowner's association, of a centralized water supply or wastewater management system.

2.30 Per- and polyfluoroalkyl substances (PFAS)

According to the EPA, PFAS are widely used, long-lasting chemicals, components of which break down very slowly over time. Because of their widespread use and persistence in the environment, many PFAS are found in the blood of people and animals all over the world and are present at low levels in a variety of food products and in the environment. PFAS are found in water, air, fish, and soil at locations across the nation and the globe. Scientific studies have shown that exposure to some PFAS in the environment may be linked to harmful health effects in humans and animals. There are thousands of PFAS chemicals, of which are found in many different consumer, commercial, and industrial products. Questions remain in terms of how to better detect these compounds, the extent of human exposure, the magnitude of human and environmental harm, and how to manage these chemicals. Under recent rulemaking, the EPA will regulate five PFAS individually. They are PFOA, PFOS, PFNA, PFHxS, and HFPO-DA. EPA will regulate four PFAS as a mixture: PFHxS, PFNA, HFPO-DA, and PFBS.

2.31 Public Service Commission (PSC) Docket

A PSC docket is a file for a specific case or proceeding containing official documents, hearing transcripts, and public comments related to the regulation of utility companies, such as those for electric, gas, and water services. Certain privately owned centralized sewer systems and water supply systems are regulated by PSC pursuant to the NYS Transportation Corporations law. In general, sanitary conveyance and treatment systems serving more than one service connection (NYSDEC SPDES Permit regulations (6 NYCRR 750-1.6(f)) and water supply systems -- except municipally-owned systems - selling, furnishing, and distributing water for domestic, commercial and public purposes (Art. 4-B of the NYS Public Service Law) are regulated by PSC with respect to rates, charges, and other aspects of utility operations.

2.32 Public Water System

Pursuant to federal and NYS regulations, a public water system is defined as one that provides water for human consumption through pipes or other constructed conveyances to at least 15 service connections or serves an average of at least 25 people for at least 60 days a year. A public water system may be publicly or privately owned.

2.33 Ragging

As used in this report, "ragging" refers to the accumulation and entanglement of fibrous, non-biodegradable debris in and around the impellers of wastewater treatment pumps, including, but not limited to, wet wipes, rags, hair, and plastics. This phenomenon creates rope-like bundles that obstruct flow, reduce efficiency, and cause costly maintenance issues.

2.34 Regulated Decentralized System (Water Supply or Wastewater Management)

A regulated decentralized system is a subcategory of decentralized infrastructure that is regulated similarly to centralized systems. Regarding water supply, this term includes a public water system, as defined by NYSDOH in regulation, that typically is privately owned but may also include systems owned by municipalities. It encompasses centralized and certain decentralized water supply systems, but also other public water systems, such as those serving restaurants. In addition to NYSDOH, these systems may also be regulated by NYSDEC and DRBC (for water withdrawals). Regarding wastewater management, these systems may discharge to surface water or groundwater and require SPDES permits (i.e.,

capacity to discharge 1,000 gpd or more). Depending on their location, these systems may also be regulated by DRBC and/or NYCDEP.

2.35 Rotating Biological Contactors (RBC)

An RBC is a fixed-film treatment process used in the secondary treatment of wastewater. It consists of a series of closely spaced, parallel discs mounted on a rotating shaft, which is supported just above the surface of the wastewater. Microorganisms grow on the surface of the discs, where biological degradation of pollutants takes place prior to discharge into the environment.

2.36 Service Area

As used in the report, service area refers to the geography within which users may be served by centralized water or sewer systems.

2.37 Special District (e.g., water district or sewer district)

A special district refers to the special-purpose government vehicle that towns and counties in NYS are authorized to create for the purpose of providing a service. In this report, special district generally refers to the authority for NYS towns to create water districts and sewer districts pursuant to NYS Town Law Article 12 and Article 12-a. A special district has three discrete elements: The legal requirements governing formation and operation, the taxation and administration by which a town provides water or sewer service, and the engineering and design of the infrastructure supporting the provision of these services. NYS General Municipal Law Art. 17-a also provides for the consolidation of water and sewer districts. In NYS, villages do not have the authority to create special districts and instead provide water and sewer service pursuant to Articles 11 and 14 of the NYS Village Law, respectively.

2.38 State Pollutant Discharge Elimination System (SPDES)

SPDES is the permit program in NYS that addresses water pollution by regulating point sources that discharge pollutants to waters of the United States. NYSDEC administers the program under authority created in 1972 by the Clean Water Act, known as the NPDES permit program. Under NPDES, state governments are authorized by the EPA to perform many permitting, administrative, and enforcement aspects of the program. In this report, SPDES and associated NYSDEC permitting refer to the outlet or discharge pipe (referred to as a "point source") that discharges sanitary wastewater into the surface waters or ground

waters of the state, and constructing or operating a disposal system such as a sewage treatment plant.

2.39 State Pollutant Discharge Elimination System (SPDES) Permit "Administrative" or "SAPA" Renewal

SAPA renewal (or continuation; also called "administrative renewal") is the process by which certain SPDES permits may be issued without a [full technical review](#) by NYSDEC. It typically occurs on a 5-year cycle, based on the date of permit issuance. Authority for SAPA renewals lies in NYS's State Administrative Review Act (SAPA). Provided a SPDES permittee makes a timely application to NYSDEC for renewal of an existing SPDES permit, NYSDEC may authorize, administratively, that permittee to continue to operate their regulated discharge. This continuation is typically permitted under the terms and conditions of the prior SPDES permit. It is important to note that SAPA renewal can result in situations where a SPDES permit, after several SAPA renewal cycles, may get out of alignment with applicable standards, and compliance with contemporary standards can ultimately require capital investment.

2.40 State Pollutant Discharge Elimination System (SPDES) Environmental Benefit Permit Strategy (EBPS)

"Also known in NYS regulation as a Modification Priority Ranking System, EBPS is the system that establishes procedures to manage State Pollutant Discharge Elimination System (SPDES) permit renewal applications in a manner that prioritizes permits based upon their potential or actual impact to the environment. Under this system, SPDES permit holders are assigned a score and rank that then determines the order in which NYSDEC staff carry out a full technical review to determine whether a permit needs modification. Facilities are assigned a score for applicable priority ranking factors, each of which is then multiplied by a value according to assessed potential impacts to water quality. A longevity factor is applied based on the permit type and time since full technical review (long form permit application). These scores are added together, and a rank is assigned. The higher the EBPS Permit Priority Score, the higher the priority that permit has for full technical review and modification initiated by NYSDEC."

2.41 State Pollutant Discharge Elimination System (SPDES) Permit Full Technical Review

Full technical review is the process by which NYSDEC reviews applications for SPDES permits. It is in contrast to SAPA renewal. Full technical review may be initiated by NYSDEC or may be initiated due to a permittee's request to modify their existing permit (e.g., to

increase the flow of a WWTP). Reviews are performed based upon potential water quality impact or major changes to the facility’s flow and wastewater treatment system. The process involves determining whether new effluent limits and other permit requirements, such as best management practices or a compliance schedule, are needed.

2.42 Submersible Chopper Pumps

This type of pump is a centrifugal pump designed for liquid submersion, which is equipped with a cutting system that “chops” up all incoming solids prior to pumping to minimize clogging within a wastewater system.

2.43 Sullivan County Partnership

Officially “The Sullivan County Partnership for Economic Development”, is a private not-for-profit corporation that serves as the one-stop resource for business development in the County. The Partnership is a team that works to find the most advantageous and cost-effective locations for the expansion of industry and supports small business development by providing guidance and technical assistance through a variety of financing options.

2.44 Trickling Filters

A trickling filter is a step in pollutant removal at a wastewater treatment facility that uses microorganisms to remove organic matter by distributing it over a fixed bed of porous sediment.

2.45 Variable Frequency Drive (VFD)

A variable frequency drive (VFD) is an electronic device that controls the speed of an AC motor by adjusting the frequency and voltage of the power supplied to it. VFDs are energy efficient when demand on a motor or system varies, as VFD output can be varied based on demand or load. This is in contrast to across-the-line drives, which operate at full voltage and cannot be varied.

2.46 Wastewater Treatment Plant (WWTP)

A wastewater treatment plant is the location at which pollutants are removed from wastewater collected, and is a critical element of a wastewater management system. WWTPs typically involve several processes. Preliminary treatment is the measurement, screening, and removal of inorganic material (grit). Primary treatment is a physical settling process that removes larger solids (e.g., in a settling tank or clarifier). Secondary treatment

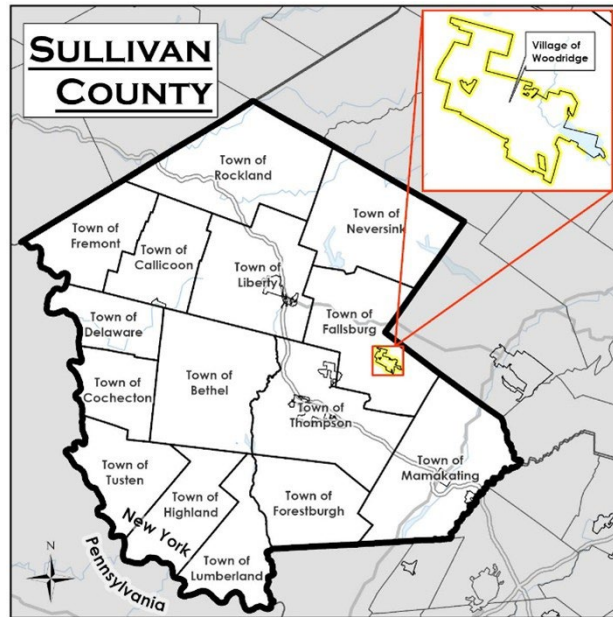
is a biological process in which dissolved solids are converted by microorganisms into a cellular or biological mass that can be later removed (e.g., in a secondary clarifier). Tertiary or advanced treatment involves disinfection (e.g., chlorine or UV light) as well as nutrient, additional solids, or biochemical oxygen demand (BOD) removal.

2.47 Water Distribution System

Water distribution system refers to the system elements that convey water from the source of supply to individual user connections. It includes infrastructure like pipes (water mains), valves, treatment facilities, storage tanks, and booster stations. Hydrants may be connected to the distribution system and serve water supply functions, such as flushing of mains, but hydrants also serve as part of fire suppression systems.

3. MUNICIPAL OVERVIEW

The Village of Woodridge is located in the southeastern portion of the Town of Fallsburg near its border with Ulster County and centered at the confluence of County Routes 53, 54, 58, and 158. The Village’s 1,069 acres contain a population of 747 as estimated by the 2020 Decennial Census. This lower density results in approximately 100 people less per square mile within the Village than in the Town of Fallsburg. However, the Village’s population is seasonal, increasing by several thousand



during the summer months due to the presence of seven seasonal camp operations within the Village boundaries. Commercial activity includes one- and two- story buildings with light commercial occupancies including restaurants and cafes, retail, offices, and medical facilities, religious and government buildings, and the Newburg Egg Processing facility.

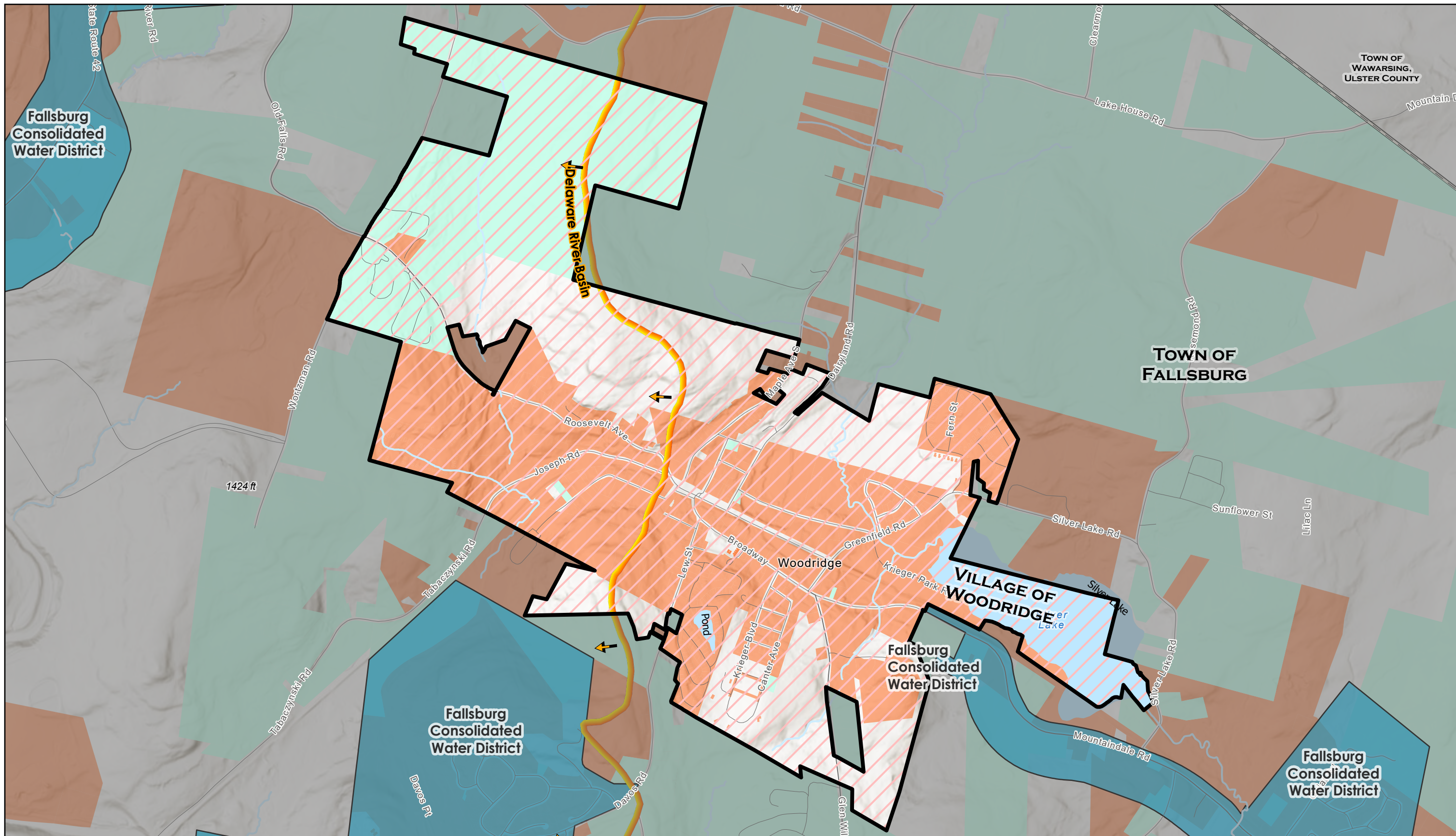
The Village owns and operates centralized water and sewer systems and currently provides water service to three residential developments outside of its boundary, at Davos, Camp Skwere, and Rosemond, and sewer service to approximately 212 outside users within the Town of Fallsburg.

The Village lies partially within the [DRBC boundary](#) but entirely outside the [NYC watershed boundary](#).

4. WATER SUPPLY AND DISTRIBUTION INVENTORY & EVALUATION

4.1 Municipal Systems

The Village provides municipal water service to residential, commercial, and industrial properties within and surrounding Woodridge. Construction of the distribution system reportedly occurred in the 1910’s, while the WTP and storage tank were constructed in the 1990s.



VILLAGE OF WOODRIDGE WATER FACILITIES MAP

SULLIVAN COUNTY, NEW YORK

Prepared by: Delaware Engineering, DPC
 Date: January 2026
 Source: Sullivan County, NYSDEC, ESRI World Terrain

- Village Water Service Area
- Municipal Water Service Areas
- Centralized or Regulated Decentralized Service
- Individual On-Site Systems
- Delaware River Basin
- NYC Watershed (Entirely Outside)
- Other Municipalities
- Stream
- Waterbody

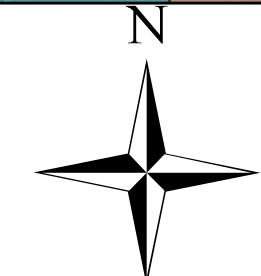
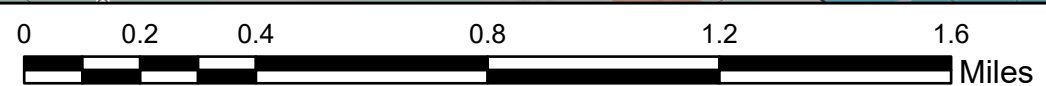


Table 1. Village of Woodridge water withdrawal permit information (all figures in GPD)

Water System	Component	Max Rate (<u>GPD</u>)	Average Daily w/d	Peak Day w/d	<u>NYSDEC</u> Permitted w/d	<u>DRBC</u> Permitted w/d
Village of Woodridge	East Pond	500,000	514,000	733,000	999,000	
	Well #1	115,000				
	Well #2	173,000				
	Well #3	202,000				

In 2022, the average daily withdrawal was 514,000 GPD with a maximum day withdrawal of 733,000 gallons. The Village reports 100% of the system is metered, with meters being 0-12 years old. According to officials, the anticipated growth in seasonal population during the summer months may double demands placed on the system by 2040.

4.1.1 System Components Inventory and Overview

The system receives its water from the East Pond and 3 wells (one shallow and two deep). The three wells are only operated as needed during seasonal increases in water demand. The WTP (0.50 MGD) and the wells (0.48 MGD) are capable of providing about 0.98 MGD. The 2023 AWQR states that the Village water system serves approximately 900 year-round residents and nearly 4,000 seasonal residents through approximately 600 service connections.

The Village’s WTP draws raw water from East Pond Reservoir in the Town of Fallsburg. The WTP pumps water from the reservoir into a holding pond, feeds it through four slow-sand filters (replaced in 2018), adjusts its pH, and disinfects it prior to entering the distribution system. Treated water is stored in the WTP clear well (380,000 gallons) and a water storage tank (150,000 gallons); the combined storage capacity is 500,000 gallons. Water either gravity feeds into the distribution system from the clear well or is pumped to the water storage tank, depending on demand.

A loop of 8-, 10-, and 12-inch mains feeds water to the distribution system within the Village bounds from nearly 2 miles away at the water treatment plant. In 2020, the Village’s water system consisted of approximately 10.7 miles of water mains ranging from 4” to 30” in diameter, 70 fire hydrants, and 148 valves.

4.1.2 Recent/Future Upgrades

Water system deficiencies identified in the 2020 Engineering Report include the restriction of flow, insufficient fire flows, insufficient water storage capacity, insufficient water source

capacity, and groundwater well water quality. The following improvements were recommended in the 2020 Report:

- Replace approximately 1,510 feet of 6-inch main with 10-inch main along Maple Avenue.
- Replace approximately 1,220 feet of 6-inch main with 10-inch main along Lew Street.
- Replace approximately 2,000 feet of 6- and 8-inch mains with 10-inch mains along Broadway.
- Replace approximately 2,120 feet of 8-inch main with 10-inch main along Krieger Boulevard.
- Based on the hydrants reviewed as part of the fire flow testing, replace approximately 20 hydrants.
- Replace or install approximately 30 valves.
- Install one (1) 0.60 MG water storage tank and associated appurtenances at the Maple Avenue location.

In 2023, the Village received a \$5 M Water System Improvement Grant and \$3.8 M in interest-free financing through the Bipartisan Infrastructure Law (BIL) along with \$4.4 M from the USDA Rural Energy for America Program (REAP) to replace its water mains, construct a new storage tank, install an ultrafiltration system, rehabilitate the sludge lagoon, and install a new SCADA system.

4.1.3 Finances and Administration

As part of the data collection process, information about system finances and budgeting was requested and researched from publicly available sources; local codes governing system administration and use were also reviewed, where publicly available. This information, where available, was used in order to develop an understanding of key metrics, including: revenues and trends, expenses and trends, rate structure, revenues versus expenditures, debt service, and reserves.

Analysis of available financial information against the following metrics is as follows.

- Revenues and trends – The majority of revenues are derived from metered water sales, with about 2% coming from outside users. Capital charges made up 14% of revenues.

-
- Expenses and trends – Water administration was the largest component, with personal services and contractual lines accounting for about half of appropriations, with debt service constituting about 12%. Transfers to the general fund and reserve funds were 7% and 4%, respectively. According to the 25/26 adopted budget, water service appropriations were about 21% of the Village budget.
 - Rate structure – Users are charged for O&M and capital costs. O&M is based on water consumption, with a base rate calculated from average user water consumption in the Village. Capital charges are based on a system of EDUs, with a single-family dwelling allocated one unit. Outside users and seasonal users are charged for capital costs similar to inside users. According to the water use law, all residential units located within the Village serviced by laterals to the Village water main that are either aboveground or below ground but above the frost line are considered seasonal residences and, for billing purposes, are only billed for two quarters each year.
 - Revenue versus expenditures – Actual historical financial information was not available to be reviewed.
 - Debt service – As noted, the Village carries debt, with debt service accounting for about 12% of appropriations.
 - Reserves – As noted, appropriations for reserve funding were about 4% of the Village 25/26 budget.
 - Water use law – Chapter 387 of the Village code is the water use law.

4.2 Other Systems

No regulated private centralized water systems exist within the Village, and there are no facilities with capacity requiring a NYSDEC water withdrawal permit.

4.3 Challenges and Opportunities

As noted, the Village is in the process of implementing a capital project, with grant financing anticipated. A current challenge includes securing additional funding if federal funds are no longer available in adequate time to complement the currently secured funding streams.

There is the potential for an additional five residential developments within the Village, one outside residential development, one commercial plaza development in the Village, and

two residential annexations. Like other communities in the County experiencing growth pressure, the Village faces challenges connected to planning for water system needs in order to address this growth.

5. SANITARY SEWER AND WASTEWATER TREATMENT INVENTORY & EVALUATION

5.1 Municipal Systems

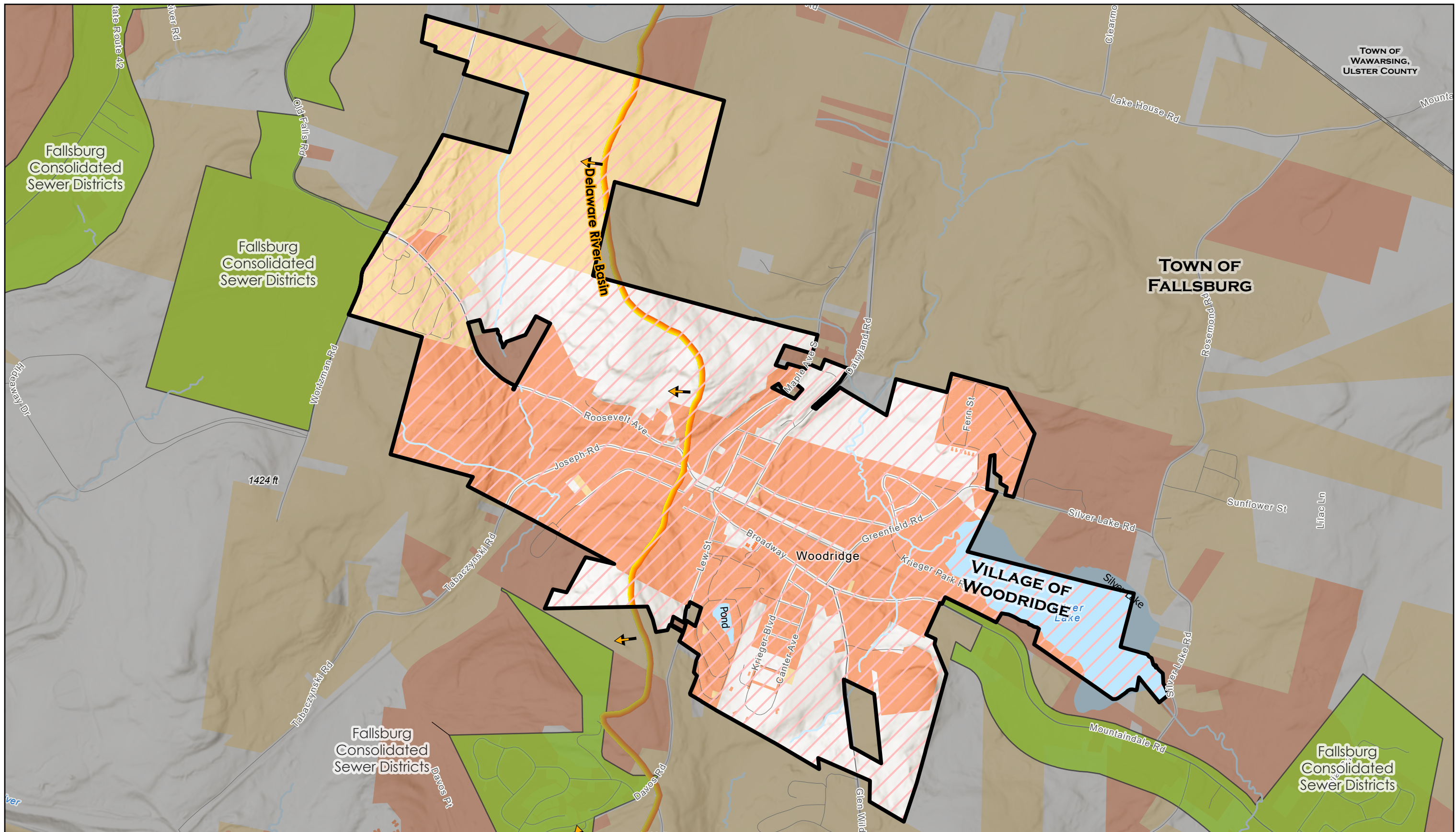
The municipal sewer system provides service within the Village as well as the surrounding developments of Davos, Camp Skwere, and Rosemond Estates. The WWTP is permitted to discharge up to 800,000 GPD to Silver Lake. The SPDES permit was last issued to the Village in 2024 and expires in 2029.

5.1.1 System Components Inventory and Overview

The Woodridge WWTP was constructed in 2011 and is located on the east end of the Village near Silver Lake. The WWTP has a capacity of 0.8 MGD utilizing preliminary, secondary, and tertiary treatment, post-equalization, disinfection, post-aeration, solids digestion, and dewatering. The WWTP SPDES permit was last updated in 2024, after a full technical review. Among the permit conditions are the development of a mercury minimization program and a mini pretreatment program, aimed at the identification of industrial users contributing flow to the WWTP. As reported on the SPDES permit, between 2018 and 2023, the WWTP received 0.63 MGD on average. The only significant upgrade to the WWTP was improvements to the headworks implemented in 2019. A recent engineering report noted high levels of I&I in the collection and conveyance system.

The Village contracts with a private sewer operator to run the operations of the sewer collection and treatment system. The Village recently developed an intermunicipal agreement with the Town of Fallsburg to accept flows from the surrounding town sewer collection districts. There is an existing agreement in place for Newburg Egg Corp to direct wastewater to the Village WWTP.

According to Village officials, Newburg Egg (an industrial user) has increased production gradually over time, and as of 2022, the Village states they use approximately 160,000 GPD. Based on discussions with Newburg Egg, the Village estimates their usage will rise to 200,000 GPD in the future. It should be noted that in May 2023, USEPA fined Newburg Egg \$100,000 for numerous violations that occurred between 2018 and 2021, including discharging excessive nitrogen, ammonia, and phosphorus into Sandburg Creek. More



VILLAGE OF WOODRIDGE WASTEWATER FACILITIES MAP

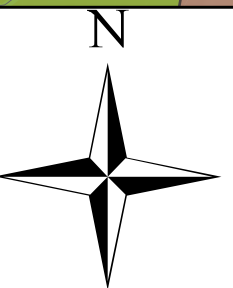
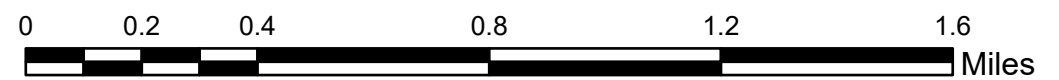
SULLIVAN COUNTY, NEW YORK

Prepared by: Delaware Engineering, DPC
 Date: January 2026
 Source: Sullivan County, NYSDEC, ESRI World Terrain

- Village Wastewater Service Areas
- Municipal Sewer Service Areas
- Centralized or Regulated Decentralized Service

- Individual On-Site Systems
- Delaware River Basin
- NYC Watershed (Entirely Outside)

- Other Municipalities
- Stream
- Waterbody



recently, in October of 2025, the [NYSDEC](#) issued a Notice of Violation for an "unpermitted discharge" into a wetland upstream of Silver Lake, which violated water quality standards Newburg Egg is listed as the only significant industrial user contributing flow on the 2024 updated [SPDES](#) permit. As noted above, as part of the mini pretreatment program, the [SPDES](#) permit requires the Town to identify industrial users; determine whether legal authority controls (e.g. sewer use laws) are adequate; require, issue, and enforce industrial user permits; and implement the program. In response to the repeated violations, Newburgh Egg is required to take steps to improve its wastewater pretreatment program and is working with the [EPA](#) and [NYSDEC](#) to comply with regulations.

According to [NYSDEC's EBPS](#), this facility received a rank of 522 and a score of 0. The score components are based on age of the existing [SPDES](#) permit and time since the last time the facility submitted a long form permit application together with required comprehensive effluent sampling. In general, the higher the [EBPS](#) rank, the more likely it is that the permit for this facility will undergo a [full technical review](#) by [NYSDEC](#) in the near future.

5.1.2 Recent/Future Upgrades

As further described below, a recent (2022) engineering analysis recommended a number of investments at the [WWTP](#) and, most likely, to address [I&I](#) in the collection system. However, no specific projects are planned or have received funding as of this writing.

5.1.3 Finances and Administration

As part of the data collection process, information about system finances and budgeting was requested and researched from publicly available sources; local codes governing system administration and use were also reviewed, where publicly available. This information, where available, was used in order to develop an understanding of key metrics, including: revenues and trends, expenses and trends, rate structure, revenues versus expenditures, debt service, and reserves.

Analysis of available financial information against the following metrics is as follows.

- [Revenues and trends](#) – User charges for inside and outside users constitute the majority of revenues, at 54% and 21%, respectively. Capital charges are about 19% of budgeted revenues.
- [Expenses and trends](#) – Treatment and disposal represent the majority of appropriations, with personal services, contractual, and energy use comprising most of this category. Debt service is about 15% of appropriations; administration

personal services, about 7%. According to the 25/26 budget, sewer service was about 35% of total appropriations.

- Rate structure – According to the 25/26 budget, the Village charges users for O&M and capital costs. O&M charges are based on gallons of usage. Outside-Village rates are about 37% greater than inside rates. Capital costs are based on a system of units.
- Revenue versus expenditures – Actual budget information was unavailable for review.
- Debt service - The Village maintains a reserve fund of approximately \$300,000 for unplanned equipment and WWTP expenditures.
- Reserves – The Village provides for 4% of appropriations allocated to reserve, including for equipment and capital.
- Sewer use law – Local law 2 of 2011 is the Village sewer use ordinance.

5.2 Other Systems

No private centralized sewer systems exist within the Village.

5.3 Challenges and Opportunities

Challenges relate to operations at the WWTP and planning for growth. Flow and organic loading conveyed through the Village’s WWTP have not consistently met the SPDES permit parameters during the 3-year period from January 2019 to December 2021. During this time period, the WWTP exceeded its permit limit an average of about once a month with respect to effluent limits for ammonia, BOD, phosphorous, and average monthly flow. With respect to growth and potential increases in flow to the WWTP, two proposed Village annexations are in process to extend Village boundaries to encompass proposed developments. At the same time, the Village has been in discussions with the Town of Fallsburg to redirect existing flow from the Davos Development to another Town-owned treatment facility to free up much-needed treatment capacity at the Woodridge WWTP.

It is believed that the primary cause of these exceedances is due to elevated I&I levels, and therefore, the WWTP does not have available capacity beyond its maximum monthly average. A 2022 engineering report recommended rehabilitation and expansion of WWTP equipment capacities in order to support continued operation. Securing financing for the

needed [WWTP](#) improvements is a challenge, as are uncertainties concerning the nature and extent of the underlying causes of [I&I](#).

6. METHODOLOGY AND SOURCES

In preparing this report, publicly available data were collected and reviewed, along with any additional documentation supplied by a municipal representative, county office, or other authoritative sources. In addition, the project team contacted and interviewed key individuals who have specialized knowledge of their local systems. The following is a list of sources consulted.

- Woodridge Annual Water Quality Report ([AWQR](#)) 2024 (NY5203348)
- 2022 Preliminary Engineering Report conducted by Barton and Loguidice
- Adopted 2025-2026 budget