Garrett County Water and Sewerage Master Plan 2014 Revision

Adopted December 9, 2014

Amendment 5 April 7, 2025

Revision Table

Amendment	County Adoption	Resolution	MDE Approval	Revision Notes	Pages
	December 9, 2014	2014-15		Original Plan	
	June 6, 2016	2016-7		See Exhibit 1, Text & map 4-4	Exhibit 1
1	November 22, 2016	2016-2	March 27, 2017	Map updates: Deep Creek Sewer Service Area, Thayerville Water Service Area, Deer Park Water Service, Mt Lake Park/LochLynn Water Service Area	Amendment 1
2	February 21 2017	2017-1	May 26 2017	Exhibit 1: EMR Revisions February 2016: Planned & recommended Improvements Text. Table 3-4 Table 3-6	Amendment 2
3	August 22, 2017	2017-5		Map update Deep Creek Lake Water Service Area	
3	April 2, 2021	2021-2		Rosedale Sewer Service Area Map	
3	April 20, 2021	2021-3		Paradise Heights Water Expansion Glendale Road Sewer Service Expansion Pysell Road Sewer Service Expansion Map Mountainside Sewer Service Expansion Map Maple Street Friendsville Sewer Service Map Madison Street Water Service Map	
3	March 21, 2023	2023-2	May 25, 2023	Grantsville Water Service text and map	Amendment 3
4	December 19, 2023	2023-8	March 13, 2024	Add Wisp Mountain Tank Project.	Amendment 4
5	April 7, 2025	2025-2	June 20, 2025	Update Water & Sewer Planning Areas along Hemlock Dr, Grantsville from FSP to W1 and S1 respectively. Gorman Well replacement, Chestnut Ridge Pump Station upgrades replacement, Jennings Sewer upgrades	Amendment 5

THE BOARD OF GARRETT COUNTY COMMISSIONERS

203 South Fourth Street - Courthouse - Room 207, Oakland, Maryland 21550
www.garrettcounty.org • countycommissioners@garrettcounty.org
301-334-8970 301-895-3188 FAX 301-334-5000

Board of Commissioners
Paul C. Edwards
Ryan S. Savage
S. Larry Tichnell

County Administrator
Kevin G. Null

County Attorney
Gorman E. Getty III

RESOLUTION NO. 2025 – 4

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF GARRETT COUNTY, MARYLAND, A BODY POLITIC AND CORPORATE AND GOVERNING BODY OF GARRETT COUNTY, MARYLAND (THE "BOARD"), FOR THE PURPOSE OF SETTING THE DATE AND TIME OF A TAX SALE UNDER §14-808 OF THE TAX PROPERTY ARTICLE OF THE ANNOTATED CODE OF MARYLAND

Explanation

WHEREAS, Article of the Annotated Code of Maryland empowers the County to set the date and time of a tax sale.

WHEREAS, the Board of County Commissioners of Garrett County in accordance with the provisions of the Act, does hereby set the date and time of the County tax sale to be held as an online auction at https://garrett.marylandtaxsale.com (the "Auction Site") as the following:

TIMELINE:

- Registration Opens – Thursday, May 1, 2025
- Registration Closes – Friday, May 16, 2025 at Noon – Cannot bid unless registered by Noon on May 16, 2025
- Registration Fee (Refundable) – Friday, May 16, 2025 – due by 4:00 p.m.
- Tax Sale Bidding Opens – Monday, May 19, 2025 at 10:00 a.m.
- Tax Sale Bidding Closes – Friday, May 23, 2025 – Bidding closes in batches beginning at 10:00 a.m. and every half hour after
- Payments Due – Friday, May 23, 2025 by 4:00 p.m.

WHEREAS, the appropriate officials of Garrett County are hereby directed to provide notice to the Supervisor of the Garrett County Tax Collection Office, the date of the tax sale on the adoption of this resolution.

WITNESS the corporate name of the Board of County Commissioners of Garrett County, Maryland, by Paul C. Edwards, its Chairman, attested by Kevin G. Null, its County Administrator, this 7th day of April 2025.

BOARD OF COUNTY COMMISSIONERS
OF GARRETT COUNTY, MARYLAND

(SEAL)

By _____
Paul C. Edwards, Chairman

ATTEST:

_____
Kevin G. Null
County Administrator

THE BOARD OF GARRETT COUNTY COMMISSIONERS

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Board of Commissioners
Paul C. Edwards
Ryan S. Savage
S. Larry Tichnell

County Administrator
Kevin G. Null

County Attorney
Gorman E. Getty III

RESOLUTION 2025 – 5

2014 GARRETT COUNTY WATER & SEWERAGE PLAN – AMENDMENT #5

A RESOLUTION OF THE COUNTY COMMISSIONERS OF GARRETT COUNTY, A BODY PUBLIC AND CORPORATE AND A POLITICAL SUBDIVISION OF THE STATE OF MARYALND (THE "COUNTY"), APPROVING AN AMENDMENT TO THE 2014 GARRETT COUNTY WATER AND SEWERAGE PLAN PURSUANT TO THE REQUIREMENTS OF THE CODE OF MARYLAND REGULATIONS ("COMAR"), TITLE 26, SUBTITLE 03, AND TITLE 9, SUBTITLE 5 OF THE ENVIRONMENT ARTICLE OF THE ANNOTATED CODE OF MARYLAND.

WHEREAS, the 2014 Garrett County Water and Sewerage Plan ("the Plan") was adopted to guide the development and management of water supply and sewerage systems in Garrett County, Maryland, in compliance with COMAR Title 26 Subtitle 03, and the provisions of Title 9, Subtitle 5, of the Annotated Code of Maryland; and

WHEREAS, Section 9-503 of the State Code of Maryland requires that the Board of County Commissioners, as the governing body of Garrett County, adopt and submit amendments to the Plan to the Maryland Department of the Environment (the "Department") when necessary; and

WHEREAS, The Board of County Commissioners of Garrett County (the "Board") held a Public Hearing on March 18, 2025, in Room 209 of the Garrett County Courthouse in Oakland, Maryland, to consider the proposed amendments to the Plan, after providing public notice as required by law, published in *The Republican* on February 27, 2025, and March 6, 2025; and

WHEREAS, the Board of County Commissioners recognizes the need to update and expand water and sewer infrastructure to support anticipated growth, improve service reliability, and replace aging systems; and

WHEREAS, the 2025-01 Amendment to the Plan includes:

- Expansion of water service to Hemlock Drive in Grantsville to address well contamination issues.
- Development of a new water source for the Gorman Water System following the collapse of Mountain Road Well #2.
- Immediate extension of sewer service to Hemlock Drive in Grantsville, originally designated as a future project.
- Replacement of the failing Chestnut Ridge Pump Station to prevent service disruptions and sewer overflows.
- Infrastructure upgrades to the Jennings Sewer System, including pump station replacements, grinder pump installations, and replacement of the failing variable grade sewer main.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Garrett County, Maryland:

1. Adoption of Amendment: The 2025-01 Amendment (Amendment #5) is hereby adopted and incorporated into the 2014 Garrett County Water and Sewerage Plan.

2. Authorization: The Chairman of the Board of County Commissioners is authorized to execute all necessary documents and actions required to implement the amendment.
3. Implementation: The amendment shall include text and map updates to reflect the infrastructure improvements, replacing corresponding pages in the 2014 Water & Sewerage Plan. These updates are attached hereto, incorporated herein, and marked as Amendment #5.
4. Public Record: A complete copy of the 2025-01 Amendment shall be made publicly available and accessible for review at the County offices and online.
5. Submission to the Maryland Department of the Environment: The adopted amendment shall be submitted to the Maryland Department of the Environment for final approval in compliance with the State Code.

BE IT FURTHER RESOLVED that this Resolution shall take effect upon adoption and be transmitted to the Maryland Department of the Environment for final approval in compliance with the State Code.

ADOPTED AND APPROVED by the Board of County Commissioners of Garrett County, Maryland, this 7th day of April, 2025.

BOARD OF COUNTY OMMISSIONERS OF GARRETT COUNTY, MARYLAND

PAUL C. EDWARDS
Chairman

(SEAL)

RYAN S. SAVAGE
Commissioner

S. LARRY TICHNELL
Commissioner

ATTEST:

KEVIN G. NULL
County Administrator

June 20, 2025

The Honorable Paul Clayton Edwards, Chairman
Board of Commissioners
Garrett County
203 South Fourth Street, Room 207
Oakland, Maryland 21550

Dear Commissioner Chairman Edwards:

The Maryland Department of the Environment (MDE) has completed its review of **Garrett County's Amendment #5 (Amendment) to the 2014 Garrett County Water and Sewerage Master Plan**. The Board of Garrett County Commissioners adopted the Amendment on April 7, 2025, through Resolution 2025-5. The Amendment includes several text, tables, and service area maps changes:

1. Expansion of water service to Hemlock Drive in Grantsville to address well contamination issues. The Hemlock Drive properties are classified as W-FPS (areas to be served by community or multi-use water supply systems after ten years) and will be reclassified to W-1 (areas served by community or multi-use water supply systems that either exist or are under construction).

2. Immediate extension of sewer service to Hemlock Drive in Grantsville, originally designated as a future project. The Hemlock Drive properties are classified as S-FPS (areas planned to be served by community or multi-use sewerage systems after ten years) and will be reclassified to S-1 (areas served by community or multi-use sewerage systems that either exist or are under construction).

3. Development of a new water source for the Gorman Water System following the collapse of Mountain Road Well #2.

4. Replacement of the failing Chestnut Ridge Pump Station to prevent service disruptions and sewer overflows.

5. Infrastructure upgrades to the Jennings Sewer System, including pump station replacements, grinder pump installations, and replacement of the failing variable grade sewer main.

Maryland Department of Planning Findings

The Maryland Department of Planning (MDP) has reviewed this water and sewerage plan amendment pursuant to MDP's mandate to advise MDE on local comprehensive plan consistency and other appropriate matters as required by Environment Article Section 9-507 (b)(2) and the Land Use Article Section 1-303 and 1-304.

The Board of County Commissioners of Garrett County adopted the amendments on April 7, 2025, with the addition of supporting documentation in the form of revised projections for population growth, land use, and consumption demands, but no changes to the initial text and map amendments from the draft version, for which MDP submitted a review letter to MDE on March 27, 2025. Thus, the comments from the draft review letter, including MDP's analysis of comprehensive plan consistency, still apply.

The Garrett County Water and Sewer Amendment 5 includes the following text and map amendments:

- **Grantsville Water Extension**: Text Amendment 3.2.2.1 Town of Grantsville – Service Areas, Problem Areas, and Future Needs. Map amendment (Figure 3-4) – Extension of public water service to homes along Hemlock Drive. These homes are currently on private wells, with some wells having tested positive for E. coli contamination. Extension of the water service will allow residents to connect to the municipal system. The text and map amendments **appear to be consistent** with the 2009 Grantsville Comprehensive Plan and the 2022 Garrett County Comprehensive Plan.

- **Gorman Water Improvements**: Text Amendment 3.2.6 North Branch Potomac River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements. Map amendment (Figure 3-12) – Development and construction of a new groundwater source due to a recent well collapse leaving the system without a back-up water source. The project will restore system redundancy, enhance reliability, and ensure residents continue to have safe and sufficient water access. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan.

- **Grantsville Sewer System Amendment**: Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements. Map amendment (Figure 4-2) - Reclassification of Grantsville's sewer expansion to an immediate priority due to an increased demand and the need to eliminate outdated septic systems. The text and map amendments **appear to be consistent** with the 2009 Grantsville Comprehensive Plan and the 2022 Garrett County Comprehensive Plan.

- **Chestnut Ridge System Improvements**: Text Amendment 4.1.2 Casselman River Watershed. Map amendment (Figure 4-4) – Problem Areas and Future Needs, Planned and Recommended Improvements – Full replacement of the Chestnut

Ridge Pump Station to improve reliability and prevent failures and an Infiltration and Inflow study to identify and fix leaks. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan.

- **Jennings Sewer System Rehabilitation**: Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements, Map amendment (Figure 4-6) – Replacement of aging pump station, elimination of old septic tanks, installation of 74 grinder pumps, and replacing of failing gravity sewer system with a 4-inch force main in order to prevent blockages and overflows and to safeguard the community against potentially unsanitary conditions. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan.

MDP reminds the county that these amendments may support designation of the subject properties as Priority Funding Areas or require updates to the county Growth Tiers Map.

If there are comments or questions regarding MDP's review, MDE advises the County to contact MDP. See enclosed MDP's comments and contact information.

MDE Review and Action

1. Wastewater Treatment Plant Capacity
   The Town of Grantsville Wastewater Treatment Plant (WWTP) currently has a design capacity of 0.6 Million Gallons Per Day (MGD) and a three-year (2021-2023) average flow of 0.26 MGD (43% of the WWTP's capacity). This project will add 81 Equivalent Dwelling Units (EDUs) or 0.02 MGD increasing the Town of Grantsville WWTP's used capacity to 47%. There is sufficient treatment capacity at the Town of Grantsville WWTP for this project.

2. Water Treatment Plant Capacity
   The Town of Grantsville WTP currently has a design capacity of 0.144 MGD and a 2024 average flow of 0.06 MGD (40% of the WTP's capacity). This project will add 81 EDUs or 0.02 MGD increasing the Town of Grantsville WWTP's used capacity to 54%. There is sufficient treatment capacity at the Town of Grantsville WTP for this project.

3. Table Updates for Next Plan Update
   For Tables 3-3 (COMAR Table #3) - Water Supply Demand and Capacity and Table 4-1 (COMAR Table No. 9) - Projected Sewerage Demand and Planned Capacity, these Tables should be updated with the next Plan update.

4. MDE's Water Supply Program Comments
   Based on the last sanitation report, an additional greensand filter should be installed at the Town of Grantsville WTP, as the current filter capacity is 100 gallons per minute.

5. MDE's Wetlands and Waterways Protection Program (WWPP) Comments

   a. Grantsville, Chestnut Ridge, Jennings, and Gorman Areas - Early coordination with WWPP for new major or replacement lines is recommended in advance of submitting applications and to discuss any new requirements related to the restoration of wetlands after temporary impacts.

   b. Grantsville and Chestnut Ridge Areas - The plan mentions new extensions for water and sewer lines, storage facilities, and/or treatment plants. Where practicable, locations of the utility lines and facilities should support protection measures from future development in wetlands, waterways, or floodplains, as well as avoiding and minimizing impacts from the line, treatment facility, and supporting utility infrastructure. Suggested for consideration include:

      i. A prohibition on new subdivision lots in wetlands;
      ii. Avoidance and minimization requirements;
      iii. Site plan considerations over multiple parcels that provide for contiguous wetland and Stream corridors to be maintained, with minimum fragmentation from roads, buildings, or other structures; and
      iv. Location of new or replacement lines in existing utility or road rights-of-way.

   c. Grantsville and Chestnut Ridge Areas - An evaluation of the site and its vicinity using the Watershed Resources Registry shows the presence of sensitive resources. These may include: sensitive species project review areas, Targeted Ecological Areas, Biodiversity Conservation Network, Nontidal Wetlands of Special State Concern, Tier II watershed, Stronghold Watershed, and/or Forest Interior Species. Contact MDE or the Maryland Department of Natural Resources for recommendations or requirements to avoid or minimize adverse impacts to these resources.

   d. Jennings Area - The plan/project includes activities in Tier II watershed(s). Tier II streams are high-quality waters that require, under regulation, additional consideration to protect their water quality. Water quality and their associated aquatic resources in Tier II streams require healthy contributing watersheds and riparian areas, including adjacent floodplains and wetlands. Tier II waters may also be associated with other sensitive species and nontidal wetlands of special State concern.

      All possible considerations should be implemented to protect high-quality waters and their associated wetlands and floodplains from activities which may result in water quality degradation. This primarily consists of rigorous watershed planning, with consideration of the extra provisions necessary to protect high-quality waters; site design, and construction practices; and

compensatory offsets for adverse impacts.

Please see enclosed WWPP comments and contact information.

6. Water Resources Element (WRE) Guidance
   There is an updated WRE guidance. The 2022 updated WRE guidance can be found at the following link:

   https://planning.maryland.gov/Pages/OurWork/RRP/envr-planning/water-resources-mg/2022/2022-guidance-update.aspx

   The guidance includes best practices for protecting receiving waters and for integrating climate change and equity considerations into local water resource planning. By updating the WRE, a required element of local comprehensive plans, jurisdictions will identify recommendations and strategies necessary for ensuring community resilience and sustainability, which can inform and be informed by, project and policy needs for county water and sewer plan updates.

7. Garrett County's Water and Sewer Plan Update Due
   Please be reminded that the 2014 Garrett County Water and Sewerage Master Plan update is overdue. The Code of Maryland Regulations (COMAR) requires that the County provide a copy of the Draft Water and Sewerage Master Plan to MDE with enough time (at least 60 days) prior to County adoption for a thorough review. This action ensures that MDE's comments can be incorporated, as appropriate, in the County's final Plan.

In accordance with §9-507(a) of the Environment Article, Annotated Code of Maryland, **MDE hereby approves Amendment #5 to the 2014 Garrett County Water and Sewerage Master Plan** (see attached maps).

This action completes MDE's review, as required by §9-507 of the Environment Article, Annotated Code of Maryland. If you need further assistance on these matters, please contact Robin Pellicano, Division Chief, Water Resources Planning Division, WSA, at (410) 537-4215, or by e-mail at robin.pellicano@maryland.gov.

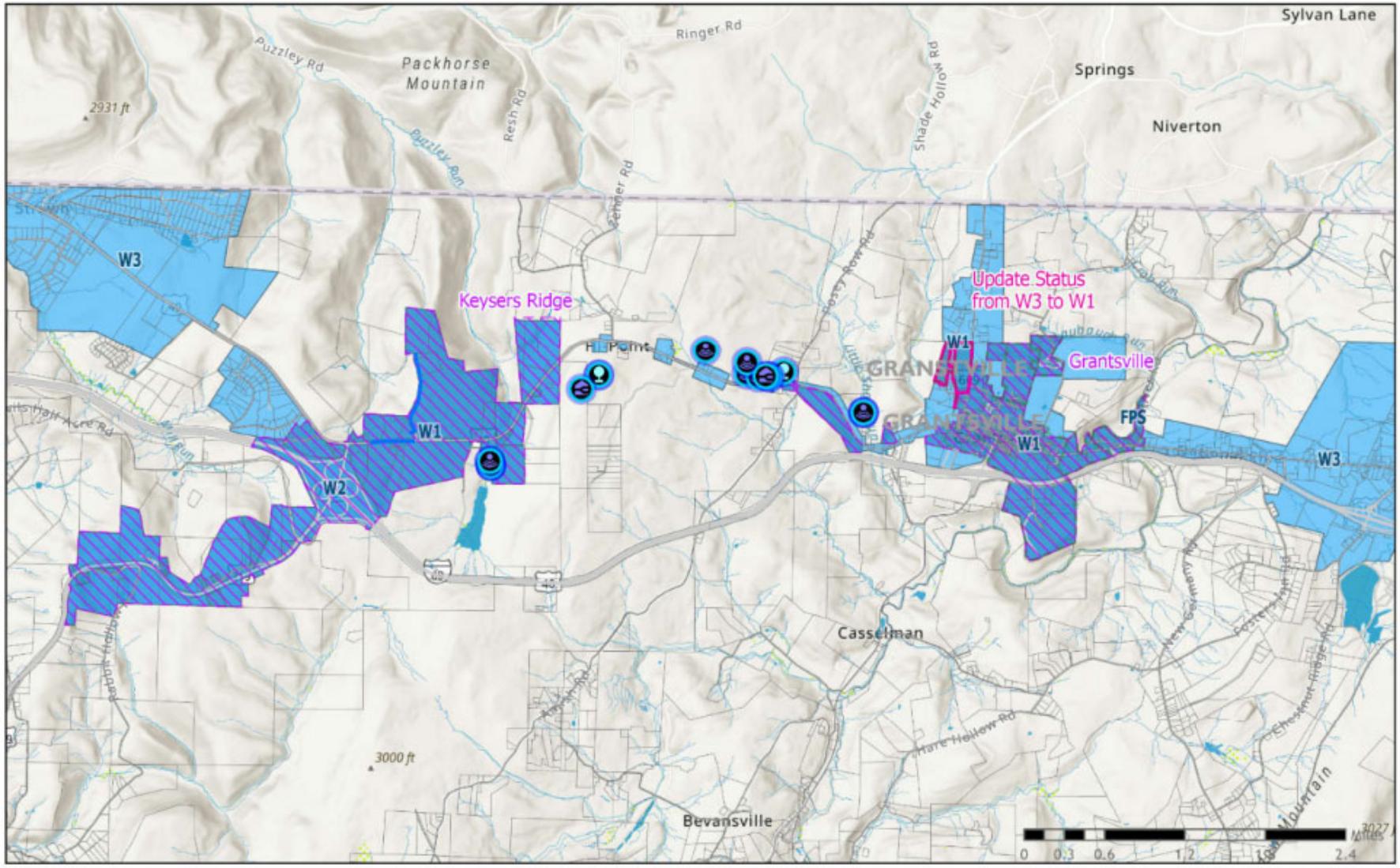
Sincerely,

Jeff White

Jeff White, Acting Manager
Watershed Protection, Restoration, and Planning Program
Water and Science Administration

Enclosures

cc: Siera Wigfield, Senior Planner, Department of Public Works, Garrett County
Jason Dubow, Director, Research, Review and Policy Division, MDP

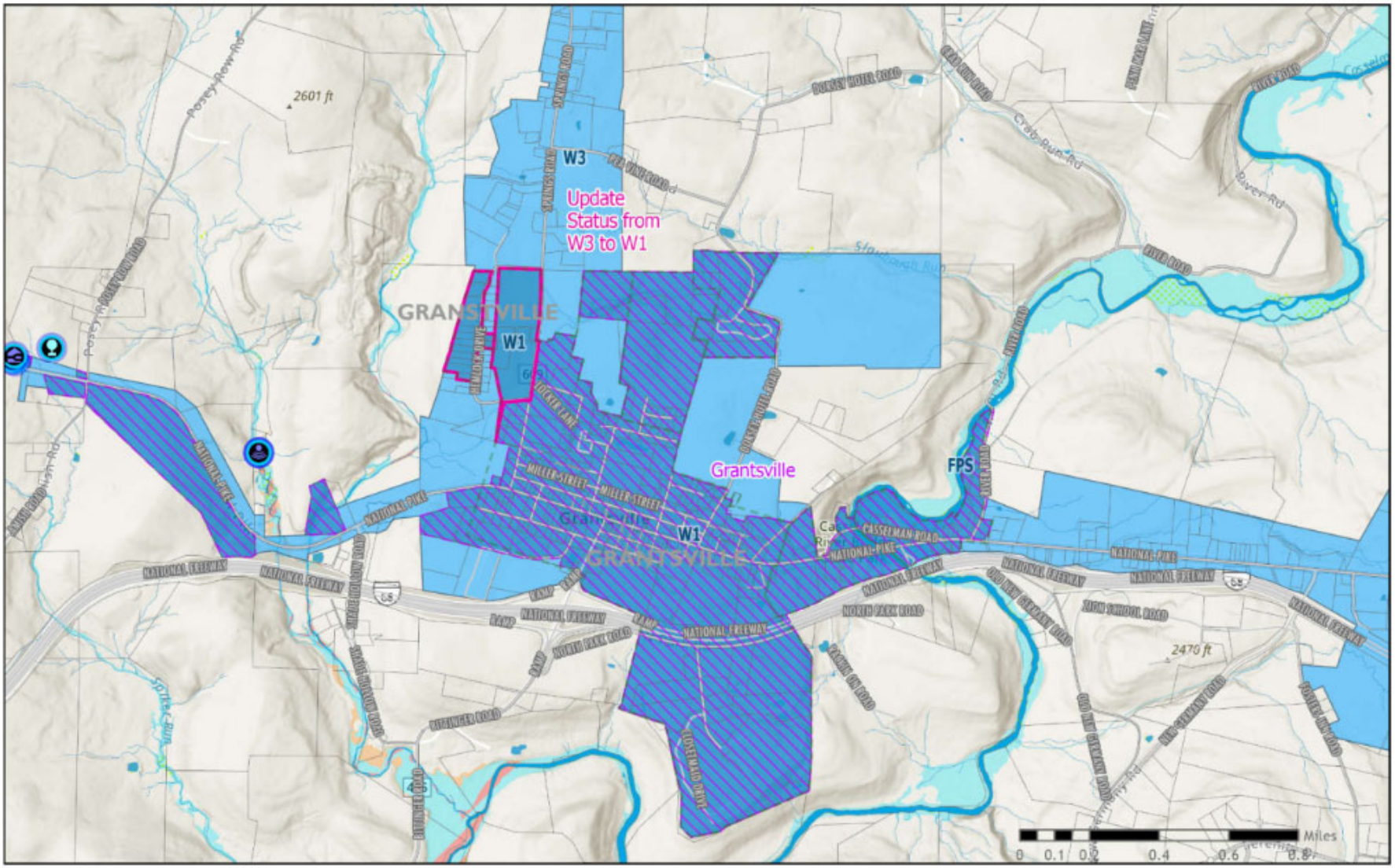


Keyser Ridge & Grantsville Overview Water Service

- Water Treatment Plan
- Proposed Well
- Well
- Out of Service
- Storage Tank

- Amendment 5 Changes
- Water Service Areas
- W1: Existing/ Under Construction
- W2: Service Within 3 Years
- W3: Service Within 10 Years
- FPS
- Tax Parcels

- Garrett Town Boundaries
- Roads
- Streams
- Lake or Pond
- Estuarine; Lacustrine; Marine; Palustrine; Riverine



Grantsville Water Service

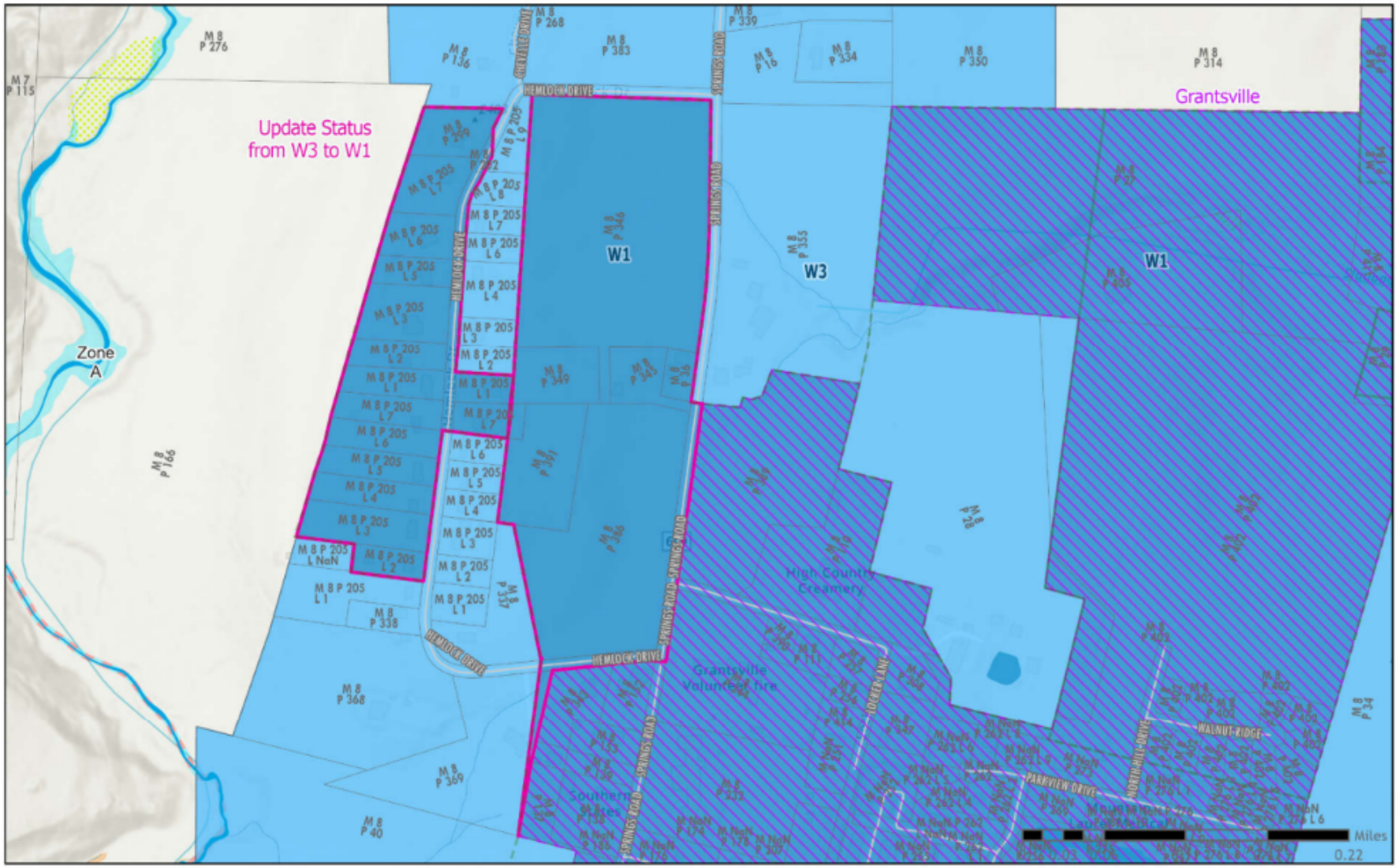
- Water Treatment Plan
- Proposed Well
- Well
- Out of Service
- Storage Tank
- Amendment 5 Changes

- Water Service Areas
- W1: Existing/ Under Construction
- W2: Service Within 3 Years
- W3: Service Within 10 Years
- FPS
- Tax Parcels
- Garrett Town Boundaries
- Roads
- Streams

- Lake or Pond
- Streams
- Estuarine; Lacustrine; Marine; Palustrine; Riverine

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee



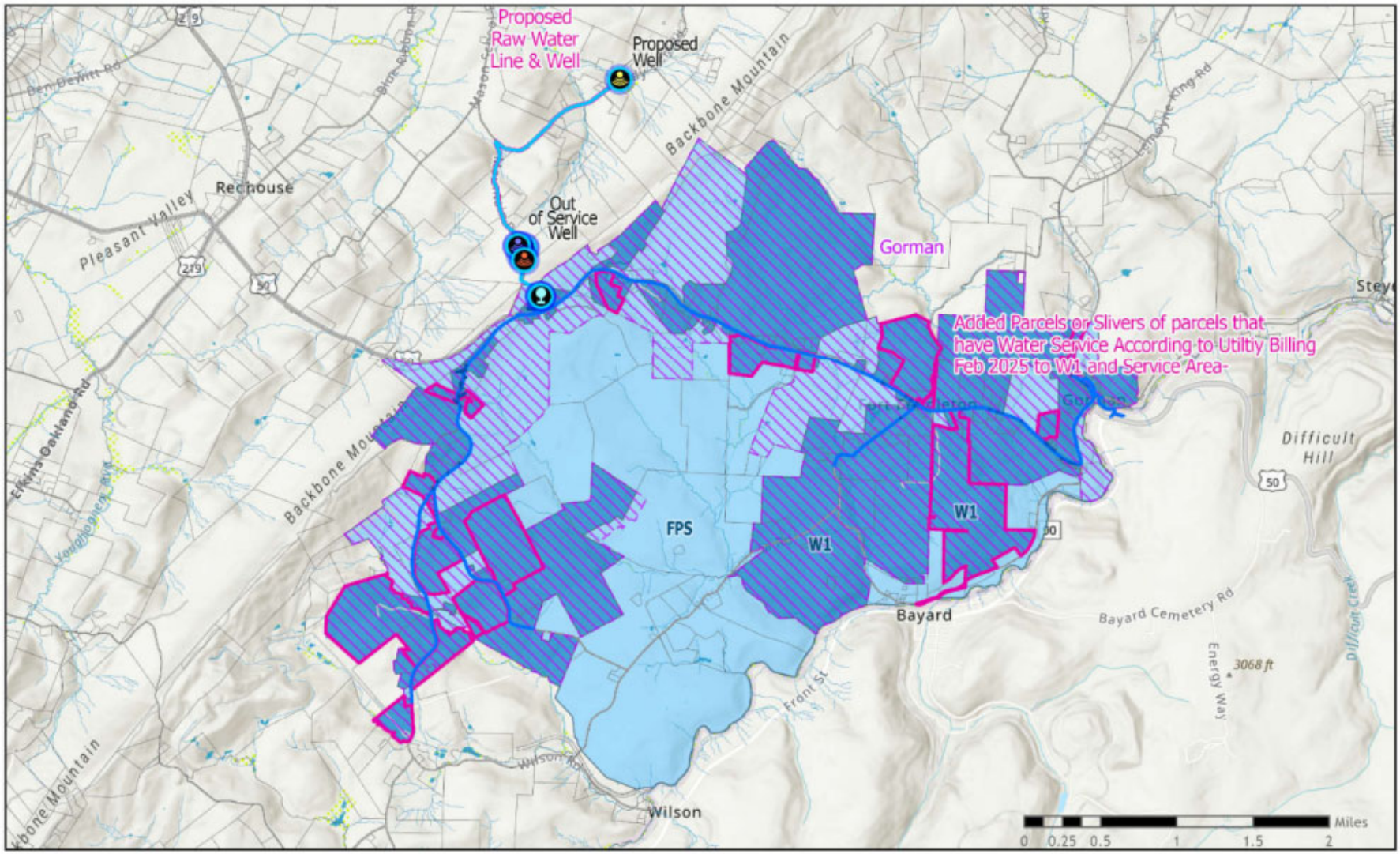
Hemlock Drive Water Service

- Water Treatment Plan
- Proposed Well
- Well
- Out of Service
- Storage Tank
- Amendment 5 Changes

- Water Service Areas
- W1: Existing/ Under Construction
- W2: Service Within 3 Years
- W3: Service Within 10 Years
- FPS
- Tax Parcels
- Garrett Town Boundaries
- Roads
- Streams
- Lake or Pond
- Streams
- Estuarine; Lacustrine; Marine; Palustrine; Riverine

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee



Gorman Water Service

- Water Treatment Plan
- Proposed Well
- Well
- Out of Service
- Storage Tank
- Amendment 5 Changes
- Water Service Areas
- W1: Existing/ Under Construction
- W2: Service Within 3 Years
- W3: Service Within 10 Years
- FPS
- Tax Parcels
- Garrett Town Boundaries
- Roads
- Streams
- Lake or Pond
- Estuarine; Lacustrine; Marine; Palustrine; Riverine

Figure 4-3 Grantsville

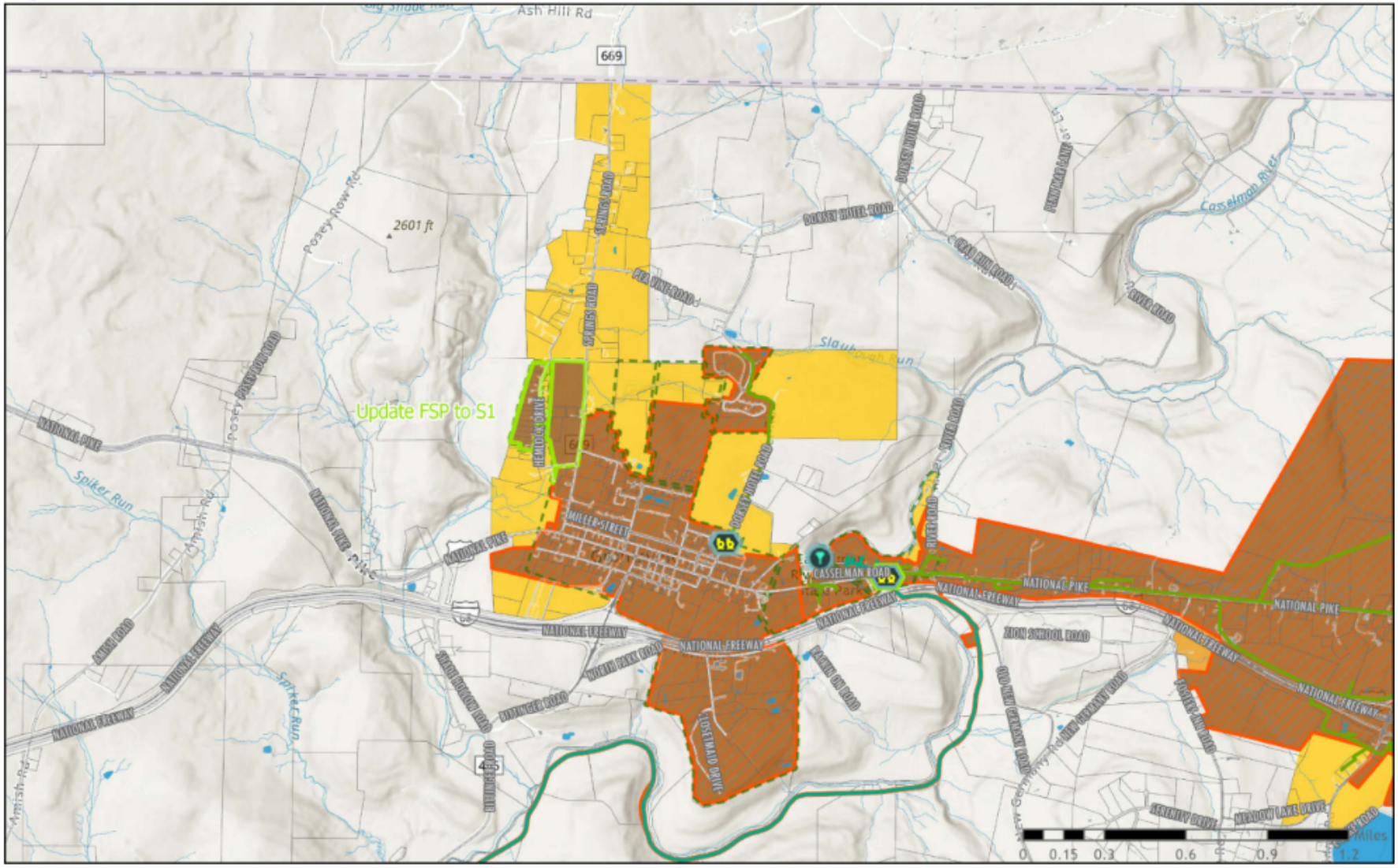


Figure 4-3a Grantsville Detail Hemlock Drive

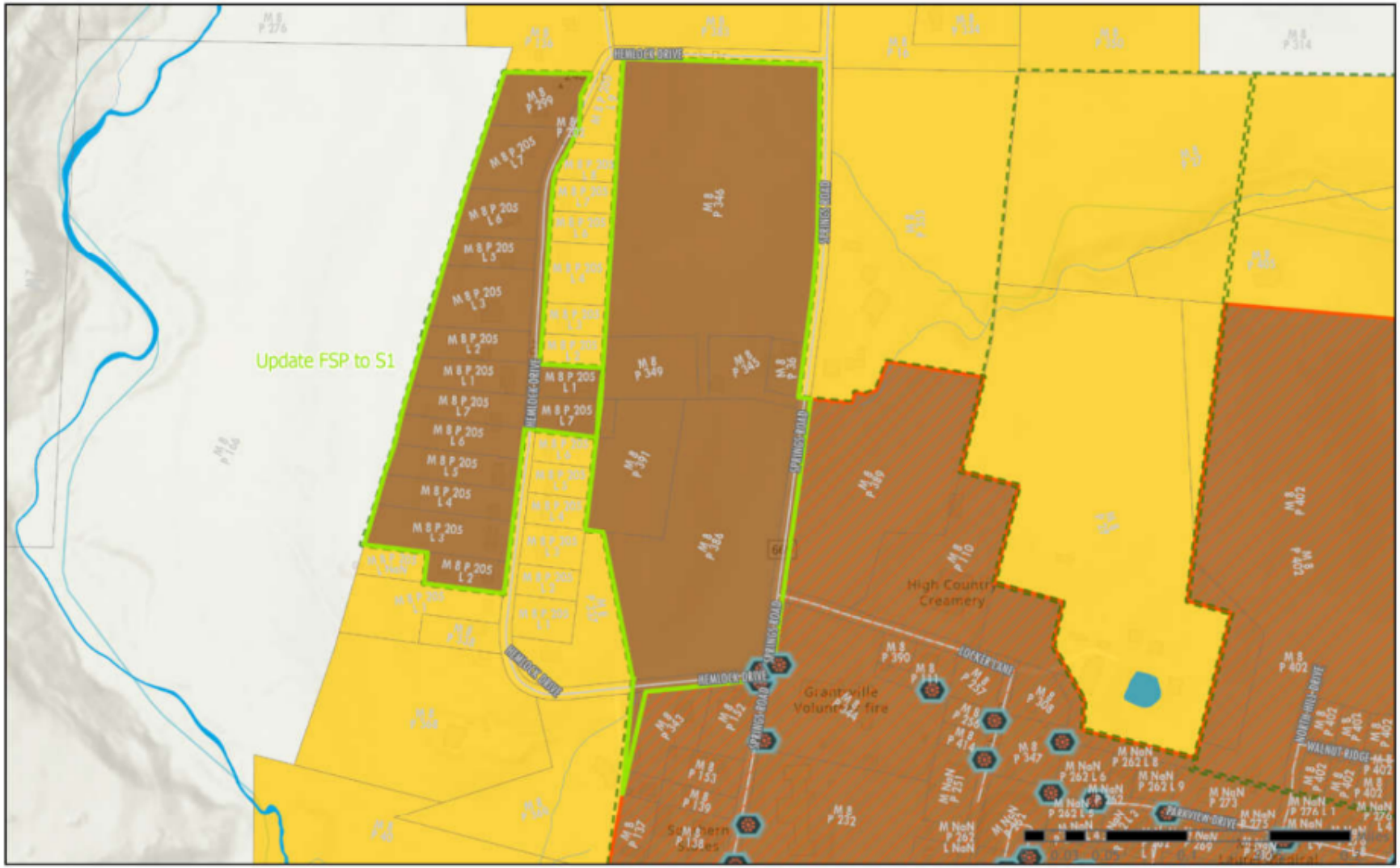


Figure 4-4 Chestnut Ridge

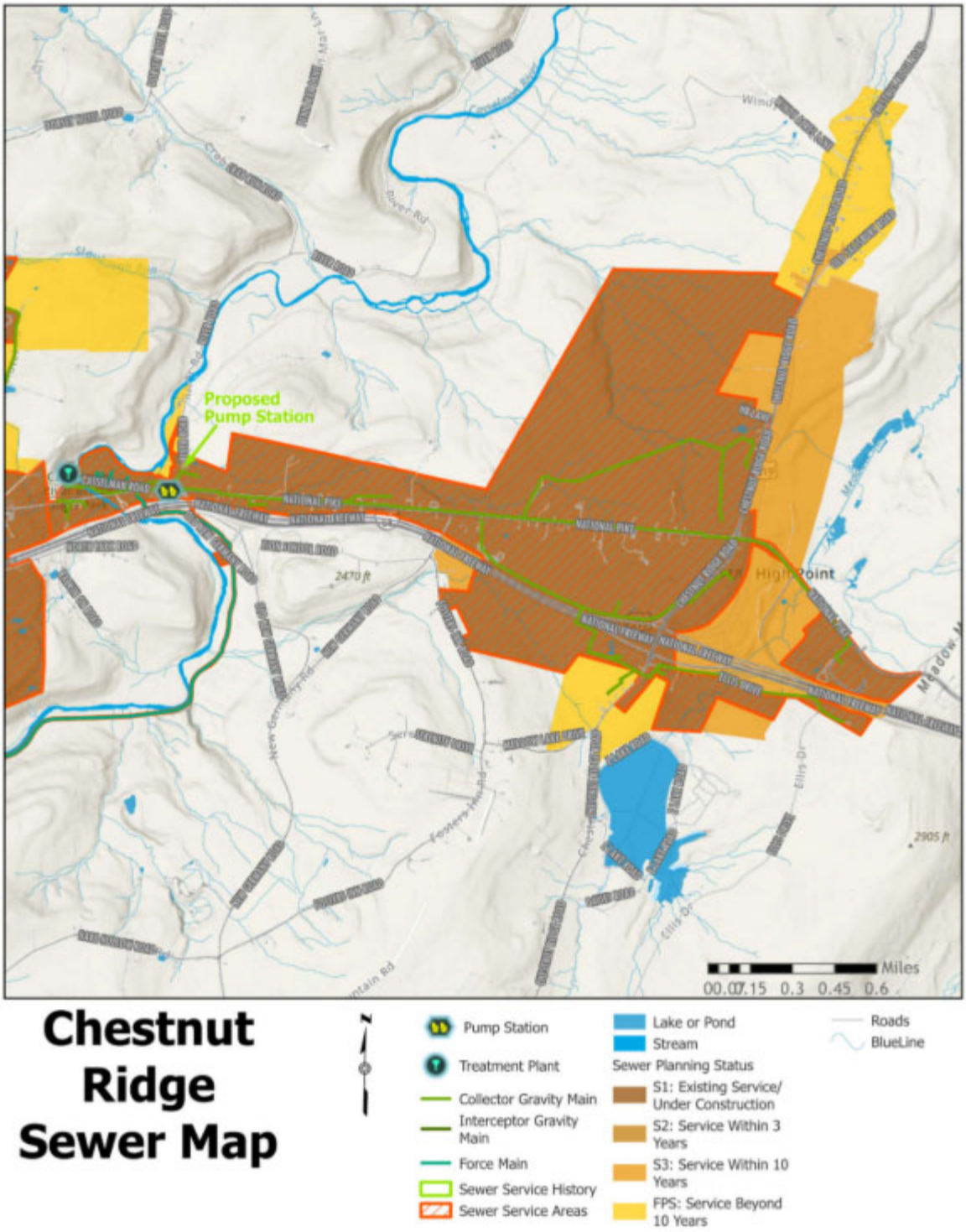
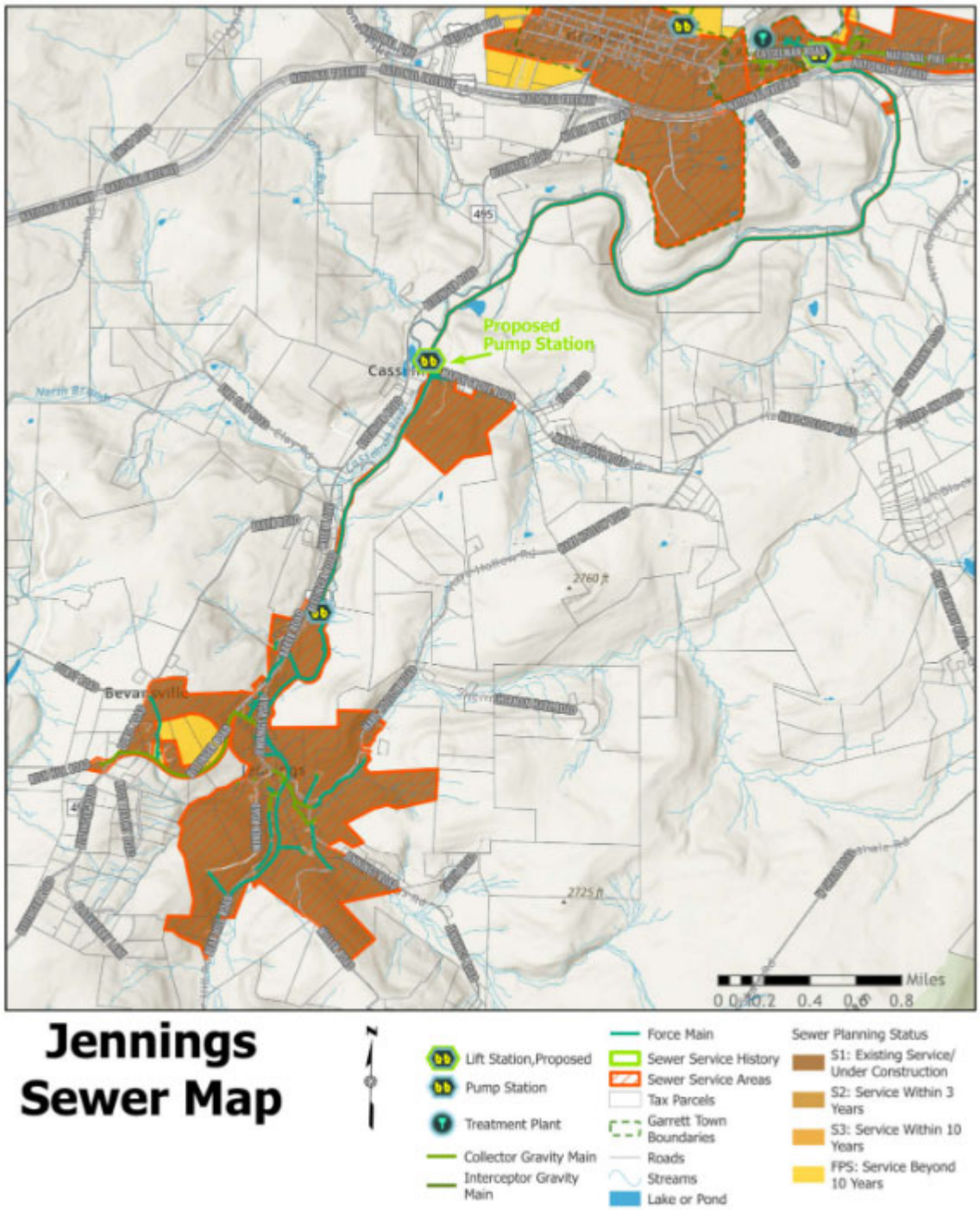


Figure 4-6 Jennings



DATE: June 9, 2025

TO: Steve Alfaro, Watershed Protection, Restoration, and Planning Program

FR: Denise Clearwater, Wetlands and Waterways Protection Program

RE: Water and Sewer Plan Amendment – Adopted Amendment 5, Garrett County Water and Sewer Plan

Wetlands provide important socio-economic benefits and ecosystem services such as storing and conveying flood waters, recharging groundwater, improving water quality by filtering and storing nutrients, and providing shoreline protection and critical habitat for a multitude of plant and animal species. The Maryland Department of the Environment's Wetlands and Waterways Program protects Maryland wetlands and waterways from loss and degradation. This protection is achieved through the regulation of the draining, dredging and filling of tidal and nontidal wetlands, the nontidal wetland buffer and waterways, including the nontidal 100-year floodplain through a permitting or authorization process implemented in close coordination with the federal government (specifically, the Army Corps of Engineers).

Persons proposing activities in tidal wetlands, nontidal wetlands and their 25- or 100-foot buffers, or nontidal waterways and their 100-year floodplain must submit a Joint Permit Application and supporting information to the Wetlands and Waterways Program. Early coordination with the Program is encouraged to discuss regulatory requirements and minimization of adverse impacts to the regulated resources.

Contact: Wetlands and Waterways Protection Program Office (410) 537-3837

Regulatory Services Section / Application Processing (410) 537-3752

Tidal Wetlands. Activities in tidal wetlands to construct or reconstruct structures, or to dredge or fill a State or private tidal wetland, shall obtain a license from the Board of Public Works or a permit from Maryland Department of the Environment. The construction, reconstruction, alteration, or addition to any conduit, cable, pipeline, intake or discharge pipe, trestle, or other similar device, structure, or apparatus, over, on, in, or under tidal wetlands or waters of the State requires an applicant to submit a Joint Permit Application and supporting information to MDE's Wetlands and Waterways Program. The Program will review the application and supporting information to make a determination which will be provided in a Report and Recommendation to the Board for their use in making a decision to grant or deny a license for proposed work over, on, in, or under **State tidal wetlands**. The Program will review the application and supporting information to make a determination to issue or deny a permit for proposed work over, on, in, or under **private tidal wetlands**.

A person submitting a Joint Permit Application to obtain a license or permit shall be the riparian landowner of upland adjoining the affected area of State or private tidal wetlands, an agent of the riparian landowner, the State, any unit of the State, a public service company, a municipality, or a political subdivision.

Contact: Tidal Wetlands Division (410) 537-3571

Nontidal Wetlands. MDE regulates the following activities in nontidal wetlands and their 25-foot or expanded 100-foot buffers: (i) Removal, excavation, or dredging of soil, sand, gravel, minerals, organic matter, or materials of any kind; (ii) Changing existing drainage characteristics, sedimentation patterns, flow patterns, or flood retention characteristics; (iii) Disturbance of the water level or water table by drainage, impoundment, or other means; (iv) Dumping, discharging of material, or filling with material, including the driving of piles, and placing of obstructions; (v) Grading or removal of material that would alter existing topography, and (vi) Destruction or removal of plant life that would alter the character of a nontidal wetland.

Contact: Nontidal Wetlands Division (410) 537-3837

Nontidal Waterways and 100-year Floodplain. MDE regulates construction, reconstruction, repair, or alteration of a dam, reservoir, or waterway obstruction or any change of the course, current, or cross section of a stream or body of water within the State including any changes to the 100-year frequency floodplain of free-flowing waters.

Contact: Waterway Construction Division (410) 537-3837

Dam Safety Permits Division (410) 537-3552

Climate Change Resiliency and Flooding. In addition, consideration of measures to address climate change are highly encouraged. This may include designing stormwater management facilities to treat storm events beyond generating more than 1" of runoff in 24 hours, and instead treat more frequent, higher intensity, shorter duration events. Roads crossings over waters may need to be designed to different standards to pass storm flows without infrastructure damage or discharges to aquatic life. Retention or re-establishment of forests is also highly desirable.

The County or applicant is advised to contact Dave Guignet, State NFIP Coordinator, of MDE's Stormwater, Dam Safety, and Flood Management Program, at (410) 537-3775 for additional information regarding the regulatory requirements for Floodplains and Storm Surges.

The County or applicant is advised to contact Matthew C. Rowe, CC-P, Assistant Director of MDE's Water and Science Administration, at (410) 537-3578 for additional information regarding Climate Change and Resiliency

I have reviewed the proposed amendment for the Wetlands and Waterways Protection Program and have the following comments:

☐ 1) There are mapped/wetlands hydric soils or streams and 100-year floodplains in the vicinity of the property. The applicant is encouraged to consult with the Wetlands and Waterways Program to verify the presence of wetlands, their buffers, stream and its 100-year floodplain in relation to any activities which are planned for the property. Activities in these water resources may be subject to regulatory requirements from the MDE's Wetlands and Waterways Program.

☒ 2) Early coordination with the Wetlands and Waterways Protection Program for new major or replacement lines is recommended in advance of submitting applications

and to discuss any new requirements related to restoration of wetlands after temporary impacts.

How will the applicant address the coordination and restoration of wetlands/waters after temporary impacts?

☐ 3) Early coordination with the Program during planning stages for the project is strongly encouraged to avoid or minimize adverse impacts from regulated activities. If there are activities proposed for new sewer or water projects in regulated resources, the County is encouraged to contact the Wetlands and Waterways Program.

How will the applicant address the coordination and early planning to avoid or minimize impacts to regulated resources?

☒ 4) The plan mentions new extensions for water and sewer lines, storage facilities, and/or treatment plants. Where practicable, locations of the utility lines and facilities should support protection measures from future development in wetlands, waterways, or floodplains, as well as avoiding and minimizing impacts from the line, treatment facility, and supporting utility infrastructure. Suggested for consideration include:

a) a prohibition on new subdivision lots in wetlands;
b) avoidance and minimization requirements;
c) site plan considerations over multiple parcels that provide for contiguous wetland and stream corridors to be maintained, with minimum fragmentation from roads, buildings, or other structures; and
d) location of new or replacement lines in existing utility or road rights-of-way.

What protection measures will the applicant use to avoid and minimize impacts to regulated resources?

☐ 5) Compensatory mitigation may be required for permanent wetland losses, including conversion of forested wetlands to other wetland types and permanent access roads, and other structures.

☐ 6) Wetland estimates in the county should use estimates from the National Wetlands Inventory and DNR Wetlands layers. Sensitive resources may be preliminarily identified using the Watershed Resources Registry at: https://watershedresourcesregistry.org/states/maryland.html.

☒ 7) An evaluation of the site and its vicinity using the Watershed Resources Registry shows the presence of sensitive resources. These may include: sensitive species project review areas, Targeted Ecological Areas, Biodiversity Conservation Network, Nontidal Wetlands of Special State Concern, Tier II watershed, Stronghold Watershed, and/or Forest Interior Species. Contact MDE or the

Maryland Department of Natural Resources for recommendations or requirements to avoid or minimize adverse impacts to these resources.

What action has the applicant taken to further identify and minimize adverse impacts to sensitive resources?

☐ 8) There may be wetland or waterway impacts associated with the project. Impacts will be reviewed by MDE during application review. Pre-application meetings are also available to discuss avoidance, minimization, and restoration after temporary impacts.

☐ 9) The Wetlands and Waterways Protection Program (Program) encourages a site design which avoids, or if avoidance is not practicable, minimization of impacts from activities in regulated stream or wetland resources.

How has or will the applicant consider a site design which will avoid or minimize impacts to wetland or water resources?

☐ 10) The Program also supports a cluster design for this project to conserve remaining forest land on site and avoid and/or minimize activities in the stream or potential wetlands.

Has or will the applicant consider use of a cluster design to conserve forest land and avoid or minimize impacts to wetlands, stream, or floodplains?

☒ 11) The plan/project includes activities in Tier II watershed(s). Tier II streams are high-quality waters that require, under regulation, additional consideration to protect their water quality. Water quality and their associated aquatic resources in Tier II streams require healthy contributing watersheds and riparian areas, including adjacent floodplains and wetlands. Tier II waters may also be associated with other sensitive species and nontidal wetlands of special State concern.

All possible considerations should be implemented to protect high-quality waters and their associated wetlands and floodplains from activities which may result in water quality degradation. This primarily consists of rigorous watershed planning, with consideration of the extra provisions necessary to protect high-quality waters; site design, and construction practices; and compensatory offsets for adverse impacts.

What actions are being considered to protect high quality waters and associated wetlands and floodplains in this Tier II watershed?

☐ 12) No comments

☒ 13) Additional specific comments

Comments were previously provided on March 18, 2025 and are repeated here below.

Comments #2, #7 and #4 apply to the Grantsville and Chestnut Ridge areas.

Comments #2, #11 applies to the Jennings area.

Comment #2 applies to the Gorman area.

cc: Matt Radcliffe

June 5, 2025

Mr. Jeff White, Deputy Program Manager, Watershed Protection, Restoration and Planning Program Maryland Department of the Environment
Maryland Department of the Environment
1800 Washington Boulevard Baltimore, Maryland 21230

Subject: ADOPTED-Garrett County Water and Sewer Plan Amendment 5

Dear Mr. White:

The Maryland Department of Planning (MDP) has reviewed the Garrett County Water and Sewer Plan Amendment 5 adopted amendment pursuant to our mandate to advise the Maryland Department of the Environment (MDE) on local comprehensive plan consistency and other appropriate matters as required by Environmental Article Section 9-507(b)(2).

The Board of County Commissioners of Garrett County adopted the amendments on April 7, 2025, with the addition of supporting documentation in the form of revised projections for population growth, land use, and consumption demands, but no changes to the initial text and map amendments from the draft version, for which MDP submitted a review letter to MDE on March 27, 2025. Thus, our comments in the draft review letter, including our analysis of comprehensive plan consistency, still apply and are attached to this letter for reference.

Sincerely,

Jason Dubow, CC-P
Director, Research, Review and Policy Division, MDP

cc: Robin Pellicano; Nicholai Francis-Lau; and Steve Alfaro; and Shania Hyatt MDE
Tony Redman, DNR
Dwight Dotterer, MDA
Joe Griffiths; and Mary Daughton, MDP

Attachment: MDP-MDE Draft GC Amendment 5, March 27, 2025

March 27, 2025

Mr. Jeff White, Deputy Program Manager, Watershed Protection, Restoration and Planning Program
Maryland Department of the Environment
1800 Washington Boulevard Baltimore, MD 21230

Re: Garrett County Water and Sewer Plan Amendment 5
Five Water and Sewer Service Area Amendments

Dear Mr. White:

The Maryland Department of Planning (MDP) has reviewed the above-referenced draft water and sewerage plan amendment pursuant to our mandate to advise the Maryland Department of the Environment (MDE) on local comprehensive plan consistency and other appropriate matters as required by Environment Article Section 9-507 (b)(2) and the Land Use Article Section 1-303 and 1-304.

Amendments and Comprehensive Plan Consistency

The Draft Garrett County Water and Sewer Amendment 5 includes the following text and map amendments:

- **Grantsville Water Extension:** *Text Amendment 3.2.2.1 Town of Grantsville – Service Areas, Problem Areas, and Future Needs. Map amendment (Figure 3-4)* – Extension of public water service to homes along Hemlock Drive. These homes are currently on private wells, with some wells having tested positive for E. coli contamination. Extension of the water service will allow residents to connect to the municipal system. The text and map amendments **appear to be consistent** with the 2009 Grantsville Comprehensive Plan and the 2022 Garrett County Comprehensive Plan.
- **Gorman Water Improvements:** *Text Amendment 3.2.6 North Branch Potomac River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements. Map amendment (Figure 3-12)* – Development and construction of a new groundwater source due to a recent well collapse leaving the system without a back-up water source. Project will restore system redundancy, enhance reliability, and ensure residents continue to have safe and sufficient water access. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan
- **Grantsville Sewer System Amendment:** *Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements. Map amendment (Figure 4-2)*- Reclassification of Grantsville's sewer expansion to an immediate priority due to an increased demand and the need to eliminate outdated septic systems. The text and map amendments **appear to be consistent** with the 2009 Grantsville Comprehensive Plan and the 2022 Garrett County Comprehensive Plan.
- **Chestnut Ridge System Improvements:** *Text Amendment 4.1.2 Casselman River Watershed. Map amendment (Figure 4-4) – Problem Areas and Future Needs, Planned and Recommended Improvements* – Full replacement of the Chestnut Ridge Pump Station to improve reliability and

prevent failures and an Infiltration and Inflow study to identify and fix leaks. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan.

- **Jennings Sewer System Rehabilitation:** *Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements, Map amendment (Figure 4-6)* – Replacement of aging pump station, elimination of old septic tanks, installation of 74 grinder pumps, and replacing of failing gravity sewer system with a 4-inch force main in order to prevent blockages and overflows and to safeguard the community against potentially unsanitary conditions. The text and map amendments **appear to be consistent** with the 2022 Garrett County Comprehensive Plan.

MDP reminds the county that if adopted, these amendments may support designation of the subject properties as Priority Funding Areas or require updates to the county Growth Tiers Map

If you have any questions concerning these comments, please email Korey Layman at korey.layman@maryland.gov.

Sincerely,

Jason Dubow, CC-P
Director, Research, Review and Policy Division, MDP

cc: Robin Pellicano; Nicholai Francis-Lau; Steve Alfaro; and Shania Hyatt, MDE
Tony Redman, DNR
Dwight Dotterer, MDA
Joe Griffiths; and Cassandra Malloy, MDP

Garrett County Water & Sewer Plan Amendment 5

Grantsville Water Extension

Text Amendment 3.2.2.1 Town of Grantsville – Service Areas, Problem Areas, and Future Needs

Homes along Hemlock Drive in Grantsville rely on private wells, some of which have tested positive for E. coli contamination. To protect public health, this amendment prioritizes extending public water service to this area. The extension will provide clean, safe drinking water and allow these homes to connect to a reliable municipal system.

A map amendment (Figure 3-4) will reflect the updated service area..

Gorman Water Improvements

Text Amendment 3.2.6 North Branch Potomac River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements

The Gorman community lost one of its primary water sources in 2023 when Mountain Road Well #2 collapsed. This left the system without a backup, placing significant strain on the remaining well. If another failure occurs, the entire community could face water shortages or service disruptions.

To ensure long-term water security, this amendment calls for the development and construction of a new groundwater source. This will restore system redundancy, enhance reliability, and ensure residents continue to have safe and sufficient water access.

A map amendment (Figure 3-12) will show the location of the new well and raw water line.

Grantsville Sewer System Amendment

Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements

Grantsville has been planning a future sewer service expansion along Hemlock Drive. However, due to increased demand and the need to eliminate outdated septic systems, this amendment reclassifies the project as an immediate priority.

A map amendment (Figure 4-2) will reflect this change.

Chestnut Ridge System Improvements

Text Amendment: 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements

The Chestnut Ridge Sewer System, constructed in the 1990s, is aging and in need of urgent repairs. The Chestnut Ridge Pump Station, which moves wastewater to the Grantsville Wastewater Treatment Plant (WWTP), is deteriorating due to corrosion. If it fails, the system could overflow, causing backups and environmental hazards.

To address this, this amendment includes:

- A full replacement of the Chestnut Ridge Pump Station to improve reliability and prevent failures.
- An Infiltration & Inflow (I&I) study to identify and fix leaks, which will reduce excess water entering the sewer system and lower operational costs.

A map amendment (Figure 4-4) will reflect the planned upgrades.

Jennings Sewer System Rehabilitation

Text Amendment 4.1.2 Casselman River Watershed – Problem Areas and Future Needs, Planned and Recommended Improvements

The Jennings Sewer System, built in the late 1990s, has ongoing maintenance issues due to its outdated variable grade gravity sewer system. The sewer mains frequently clog, leading to sewer overflows and backups, which place the community at risk of unsanitary conditions.

To solve this issue, this amendment includes:

- Replacing the aging Maple Grove Pump Station to ensure better sewage flow.
- Eliminating old septic tanks and installing 74 grinder pumps to improve wastewater collection.
- Replacing the failing gravity sewer system with a new 4-inch force main, which will be more efficient and prevent frequent blockages.

A map amendment (Figure 4-6) will outline the upgraded Jennings Sewer System.

3.2.2 Casselman River Watershed

3.2.2.1 Town of Grantsville

Existing System

Service Areas

Figure 3-4 shows the existing service area and planned future service area of the Town of Grantsville water service area. In 2012 an addition to the service area was made for the Goodwill Retirement Community[1] which is a continuing care retirement community including an independent living retirement village, assisted living apartments and a nursing home. The property was annexed into the Town in 2006 and the facility is connected to the Green water system.

Within the immediate future (W-1), Grantsville is extending water service north along Hemlock Drive. The area for extension and annexation includes homes that are presently on wells, some of which have had E.coli present in the past. The area is adjacent to the 669 housing development that is being constructed by the Garrett County Development Corporation.

Within 10 years (W-3). Grantsville is considering the following future service area expansions:

- An area along Route 669 north of Grantsville to Pea Vine Road and Dorsey Hotel Road, which includes the Grantsville Volunteer Fire Department, single-family residences and assisted living residences. Private water supplies in this area are susceptible to salt contamination.
- Approximately 100- acre area, west of the current Town boundary, north of I-68.
- Extension of water service along Route 40 east of Grantsville to the Chestnut Ridge area. This would also address salt contamination issues for residences and businesses (see Section 3.3 below).

No additional future service area expansions are currently planned.

Extensions of the Green System are discussed below under the Youghiogheny River Watershed.

Problem Areas and Future Needs

Grantsville System

As shown in Table 3-3, the Grantsville system currently has approximately 5,000 gpd of available capacity (75,000 gpd treatment plant production capacity minus 70,000 gpd average daily flow). Projected change in water demand through 2023 is approximately 92,400 gpd and through 2033 is approximately 100,000 gpd. Total demand through 2023 would be approximately 162,400 gpd (current use of 70,000 gpd plus 92,400 gpd), exceeding the permitted withdrawal limit (111,000 gpd), and the production capacity of the Town's treatment plant (75,000 gpd). The added demand through 2033 would be close to 100,000 gpd for a total demand close to 170,000 gpd[2], well above the current withdrawal limit. An additional concern is use of water from state lands. Savage River State Forest is owned and managed by the Maryland Department of Natural Resources. Use of water resources is subject to Departmental management policies especially regarding use of water from State lands to support growth.

[1] Sometimes referred to as Goodwill Mennonite Home.
[2] 70,000 gpd current average daily flow plus 99,966 gpd (Table 3-3)

Serving these future demands on Grantsville's water system would necessitate an expanded treatment plant and/or withdrawal permit, or another solution.

The Grantsville's water distribution system is cross-connected with the Green System by way of bypass valves located at the Grantsville Water Treatment Plant, Miller Street, Springs Road, and Grants Street at Pennsylvania Avenue. These valves were once cross-connected but the pressure difference between the two systems caused a water main to fail on Main Street in front of Heys Pizza due to the pressure difference. The Grantsville Distribution System consists of transite lines and PVC lines, and the valves are in poor condition. Sections of the system were originally installed without bedding, causing the lines to settle and experience cracking failures. The valves on the Grantsville system are in poor condition and pose a safety issue. The Grantsville Water Storage Tank does not have sufficient capacity for fire protection for the system's current customers.

Water is supplied to the Grantsville water system by four springs and four drilled wells located on the east slope of Negro Mountain north of alternative Route 40. During dry spells, the production from the springs is nearly immeasurable. The springs and Wells 1 and 2 are potentially susceptible to water quality degradation over time from surface influences such as de-icing salts or coliforms (due to shallow casing setting depths). Reliance on a water supply from intermittent sources, such as the springs, reduces the overall system reliability.

The Grantsville water treatment plant utilizes a pressure filter featuring iron and manganese removal by chlorine oxidation with lime addition for pH adjustment. The WTP building roof is experiencing leaks, corrosion of the overhang fascia is evident, and the exterior siding is experiencing paint chalking. Considering the age of the WTP (i.e., ~ 31 years), most of the equipment is in good working condition. However, the Town should anticipate increased maintenance costs to operate the WTP as equipment further ages

Residents along Hemlock Drive presently on wells, some of which have had E.coli present in the past, the Town looks to annex this area and provide public utilities.

Planned and Recommended Improvements

The County is planning to serve the Keysers Ridge area from new water supply (Puzzley Run – west side of Negro Mountain).- This would reduce demand from the Green supply by approximately 12,000 gpd. See the discussion of Keysers Ridge below under the Youghiogheny River Watershed for more detail.

The Town is proposing a project to consolidate the Green and Grantsville water systems and treatment plants into a single updated system located at the Green WTP site, conduct a hydraulic study of the two systems and replace aging lines within the systems, and install a SCADA system to monitor the tank levels. Specifically, the project will consist of the following:

- Water Treatment Plant Consolidation
    - Demo Grantsville WTP
    - Install line from Grantsville WTP tank to the Green WTP and pump water through line from Shade Hollow Well 5 to Green WTP
    - Build 2nd tank (420,000-gallon) at the Green System 2 WTP site

- Expand treatment capacity at the Green System 2 WTP (combine Green System 2 WTP 111,000 gpd and Grantsvillle Town WTP 112,000 gpd for toal of 223,000 gpd) and upgrade treatment to treat iron and manganese
- Utilize other well at Green System 2 WTP without casing failure (Alternative 2B)
- Abandon 8" line on Grantsville System 1 with bedding issues

The alternative assumes that current raw water sources for the Grantsville System WTP would be pumped from the Grantsville System WTP site to the Green WTP. Since the Green System WTP does not currently have the capability of removing Fe and Mn, a new packaged water treatment plant capable of removing Fe and Mn would be required. The WTP upgrades include the following:

- Prefabricated Insulated Steel Building
- Packaged Filter System
- Similar to a Filtronics or US Filter Systems quoted for the alternative.
- Chemical Feed Room
- Operator Shower/Restroom
- Security Fencing
- Demolition of Grantsville System 1 WTP

- Distribution System Improvements
  - Hydraulic Study to analyze the feasibility of connecting the systems to allow the impact of each system on each other to be studied, potentially reducing the amount of water lines that need to be replaced
  - Replace all old 2", 4", 6" and 8" pipe
  - Install 3 PRVs throughout system
  - Replace all meters in existing system
  - Purchase meter reading device
- SCADA System to monitor and control the levels at the tanks in the system

The Town Plans on annexing the area of Hemlock Ridge and provide water services residents that have experienced E-coli contaminated wells.

The Town's sewer lines and WWTP date from the 1980s and are dated.

The Chestnut Ridge pump station has deteriorated and is in need of replacement. The stations capacity is undersized for future expansion, a larger capacity station is required to protect the Casselman River from overflows.

The Jennings variable grade "gray water" sewer collection system has been plagued with backups. The system requires regular flushing causing increased I&I being conveyed to the Grantsville WWTP.

Planned and Recommended Improvements

The County is planning to serve the Keysers Ridge area from new water supply (Puzzley Run – west side of Negro Mountain).- This would reduce demand from the Green supply by approximately 12,000 gpd. See the discussion of Keysers Ridge below under the Youghiogheny River Watershed for more detail.

The Town is proposing a project to consolidate the Green and Grantsville water systems and treatment plants into a single updated system located at the Green WTP site, conduct a hydraulic study of the two systems and replace aging lines within the systems, and install a SCADA system to monitor the tank levels. Specifically, the project will consist of the following:

- Water Treatment Plant Consolidation
    - Demo Grantsville WTP
    - Install line from Grantsville WTP tank to the Green WTP and pump water through line from Shade Hollow Well 5 to Green WTP
    - Build 2nd tank (420,000-gallon) at the Green System 2 WTP site
    - Expand treatment capacity at the Green System 2 WTP (combine Green System 2 WTP 111,000 gpd and Grantsvillle Town WTP 112,000 gpd for toal of 223,000 gpd) and upgrade treatment to treat iron and manganese
    - Utilize other well at Green System 2 WTP without casing failure (Alternative 2B)
    - Abandon 8" line on Grantsville System 1 with bedding issues

  The alternative assumes that current raw water sources for the Grantsville System WTP would be pumped from the Grantsville System WTP site to the Green WTP. Since the Green System WTP does not currently have the capability of removing Fe and Mn, a new packaged water treatment plant capable of removing Fe and Mn would be required. The WTP upgrades include the following:

    - Prefabricated Insulated Steel Building
    - Packaged Filter System
    - Similar to a Filtronics or US Filter Systems quoted for the alternative.
    - Chemical Feed Room
    - Operator Shower/Restroom
    - Security Fencing
    - Demolition of Grantsville System 1 WTP
- Distribution System Improvements
    - Hydraulic Study to analyze the feasibility of connecting the systems to allow the impact of each system on each other to be studied, potentially reducing the amount of water lines that need to be replaced

    - Replace all old 2”, 4”, 6” and 8” pipe
    - Install 3 PRVs throughout system
    - Replace all meters in existing system
    - Purchase meter reading device
- SCADA System to monitor and control the levels at the tanks in the system

4.1.2 Casselman River Watershed

3.2.6 North Branch Potomac River Watershed

3.2.6.2 Gorman Service Areas ,Problem Areas and Future Needs & Planned and Recommended

Existing System

Gorman is a small, unincorporated community along the North Branch Potomac River, at the intersection of MD 560 and US 50. The community developed as a component of three mining communities that were settled along the Western Maryland Railroad (the other two communities were in West Virginia). The 2008 Comprehensive Plan designates Gorman as a rural village.

The Gorman water system was originally built in 1982 to serve approximately 55 homes and businesses. The water source for the system was in West Virginia, but in 1996-97 the Sanitary District developed its own well water supply for the system. The service area included the community of Gorman and properties along US 50 westward from the river to the Wilson-Corona Road intersection.

In 2003 a water line was extended along Wilson Corona Road (to approximately 35 customers) due to problems with private water supplies.

In 2007 a water line was extended along Table Rock Road and a portion of Fairview Church Road to serve approximately 26 residences in the area that experienced a reduction and/or loss of water supply due to deep mining activity. The extension consisted of approximately 25,000 linear feet of 6-inch water line with fire protection. Sizing of the extension also allows for future connections along Table Rock Road and Fairview Church Road and further expansion of the system to serve the remaining portion of Fairview Church and Wilson Corona Roads to the current termination of the water system on Wilson Corona Road. Financing of the project was provided by Mettiki Coal, LLC and a MDE grant.

The system currently serves approximately 146 ERUs. The system's water appropriation permit allows withdrawal of up to 40,500 gpd. Average daily demand in 2012 was approximately 35,000 gpd (Table 3-3).

The Gorman water system consists of:

- Water from two wells in the Greenbrier and Mauch Chunk formations at depths of 205 and 224 feet located on Mountain Road. In 2023, Mountain Rd Well #2 has collapsed leaving the County without a redundant water source. The loss of Well #2 places additional strain on Well #1 due to higher pumping rates.
- Approximately 55,700 linear feet of 4- and 6-inch transmission and distribution lines.
- A treatment plant (chlorination) with design and production capacity of 58,000 gpd located at 4683 George Washington Highway.
- 100,000 gallon concrete ground water storage tank located beside the water treatment plant

Service Areas

Figure 3-12 shows the existing Gorman water service area. The service area is large relative to the local population as it was established to serve homes north and west of the village of Gorman to address water sources impacted by deep mining activity.

No service extensions are planned before 2023. Future planned service areas, beyond 10 years, include "infill" areas within and south of the service area boundaries.

Additionally, a new groundwater well will be developed to enhance system reliability and reduce dependency on a single well. This new well will be located within the existing service area and will provide redundancy in case of mechanical failure or source depletion. The project includes drilling a new well, quality analysis, installing conveyance lines, and production well installation in compliance with MDE permitting requirements. Once operational, the new well will support continued service reliability and accommodate anticipated demand growth.

Problem Areas and Future Needs

With an average daily flow of 35,000 gpd, the Gorman system has a current unused capacity of 5,500 gpd (Table 3-3). The projected demand through 2023 is approximately 1,300 gpd therefore no increase in capacity will be needed. However the projected additional demand through 2033 is approximately 17,000 gpd for a total demand of approximately 51,700 gpd. While sufficient production and treatment capacity exist (see Table 3-3 columns F and G) the added demand would put the system above its permitted withdrawals so that an increase in water appropriation, alternate water supply or large reduction in water use after 2023 will be needed to accommodate this system growth.

The original water transmission line constructed in 1982 along US 50 is deteriorating and needs to be replaced.

In 2023, Mountain Rd Well #2 collapsed leaving the County without a redundant water source. The loss of Well #2 places additional strain on Well #1 due to higher pumping rates. Additional well capacity is critical to ensure uninterrupted service and address peak demand fluctuations.

Planned and Recommended Improvements

- Replace the deteriorating water transmission line from Gorman west along US 50. A funding request to MDE for this project is anticipated in 2027 ~~2014~~.
- Replace existing pressure-reducing stations to reduce operating pressures of 150 psi or less. This will improve maintenance access, improve confined space access, and mitigate water hammer surges.
- Develop and install a new production well(s), install a new groundwater treatment plant, pump station, and distribution system to pump potable water to the existing Gorman potable water tank on Backbone Mountain. This will improve system resilience and redundancy.
- Secure a water appropriation permit modification to support increased withdrawals, if necessary.

Figure 3-4 Grantsville

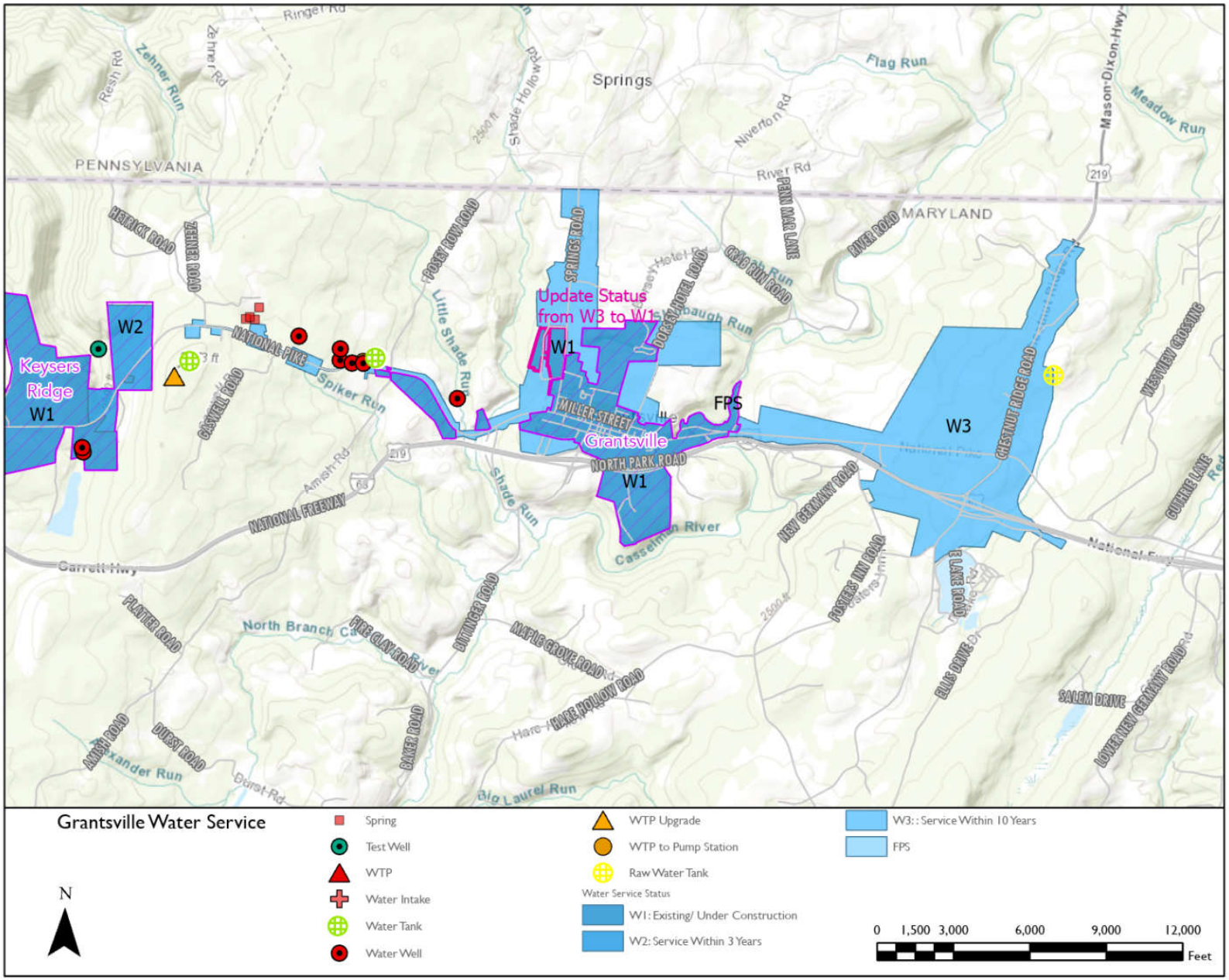
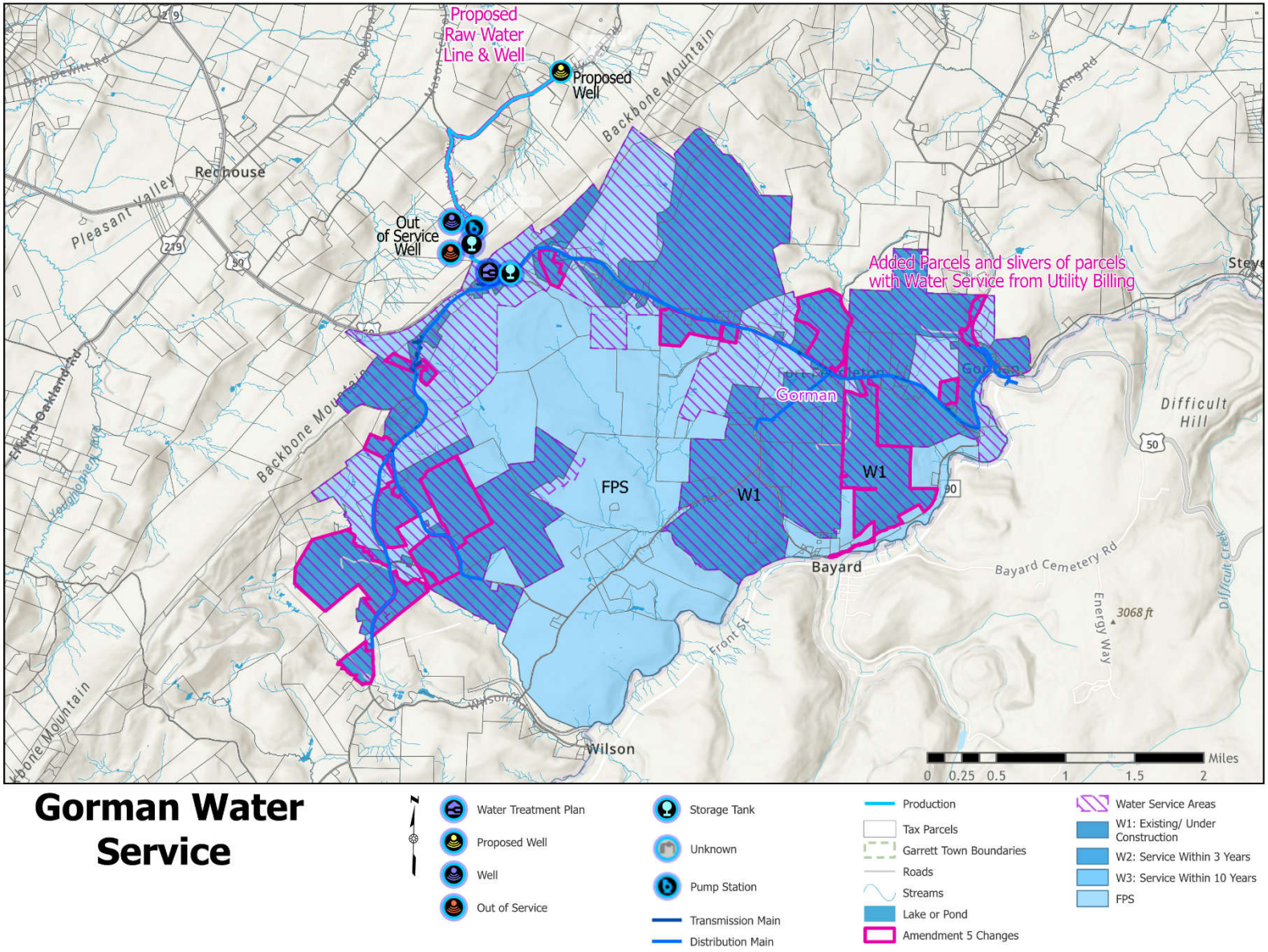


Figure 3-13 Gorman



Sewerage System

4.1.2 Casselman River Watershed

4.1.2.1 Town of Grantsville

The Town of Grantsville, with a 2010 population of 766, is located north of the I-68 / MD 495 interchange. The Town has approximately 400 housing units, a business district, the Northern Garrett Industrial Park, and the Goodwill Mennonite Home comprising a skilled nursing home, assisted living apartments and a retirement village.

Existing system

The Town of Grantsville owns and operates the Grantsville WWTP located north of Route 40 alt, on the east side of town near the Casselman River bridge. Four collection systems convey sewage to the plant: the Town of Grantsville's system; the Goodwill Mennonite Home system; the Chestnut Ridge system east of the town; and the Jennings system south of the Town.

Town of Grantsville

The Town owns and operates its collection system which serves most properties within the Town. The Northern Garrett Industrial Park is in the Town but is south of I-68. An 8-inch gravity and pressure sewer line was completed in 1993 and conveys wastewater from the industrial park to the collection system and the WWTP (approximately 3,000 linear feet).

The WWTP was first built in 1989. An addition was made in 1995 to accommodate flow from the Chestnut Ridge and the Jennings collection systems. The plant uses the rotating biological contactor (RBC) variant of the biological nutrient removal (BNR) process including primary clarifiers, submerged rotating biological contactors, final clarifiers, UV disinfection and cascade post aeration. Sludge from the WWTP is treated in two aerobic digesters and the stabilized liquid sludge is land-applicated or transported to the Deep Creek Lake WWTP for processing.

Discharge from the WWTP is to the Casselman River, a designated Use IV water which is protected for holding or supporting adult trout for put-and-take fishing. The WWTP has current discharge permit effluent limitations based on an average daily flow of up to 600,000 gpd. Average daily flow in 2012 was approximately 78,200 gpd.

Goodwill Mennonite Home system

The Goodwill Mennonite Home was annexed into the Town in 2006, though the Town began treating wastewater from the home in the 1990s. Garrett County owns and maintains the collection system (approximately 5,000 linear feet) and an associated pump station. The system currently serves approximately 90 ERUs (Table 4-1).

Chestnut Ridge Collection System

Garrett County owns and operates the Chestnut Ridge Collection System which conveys wastewater to the Grantsville WWTP. The system has approximately 15,000 to 20,000 linear feet of sewer line and currently serves approximately 144 ERUs (Table 4-1).

The Chestnut Ridge area, north and south of the I-68 US 219 interchange, is a designated growth area and a PFA. The collection system was completed in 1996 replacing on-site septic systems and individual treatment plants for several businesses including an approximately 100-room Comfort Inn hotel (formerly Holiday Inn) and the Penn Alps Restaurant and Artisan Village[3]. The Chestnut Ridge system consists of the following components:

Gravity sewer lines extending: i) from the Casselman River to Hill Top (near the intersection of US 40 and US 219; ii) north of US 40 along US 219; iii) south of US 40 to I-68 and along I-68 to US 219 (Chestnut Ridge Road); and iv) south of I-68 to and along Ellis Drive.

Sewage pump station on the south side of US 40, south of the Penn Alps development.

A master meter records sewerage flow from Chestnut Ridge and the Garrett County Sanitary District pays the Town of Grantsville for treatment based on flow.

Jennings Collection System

Jennings is a small, mostly residential community located along MD 495 about four miles south of Grantsville. The area had failing septic systems, and a 1997 study recommended a small diameter, variable grade gravity collection system to convey effluent to the Grantsville WWTP for treatment[4]. The Jennings service area was created in 1998 and the County completed project construction in 2000. The system comprises:

Septic tanks at each connection.

Approximately 40,660 linear feet of 6-inch, and 22,400 linear feet of 4-inch variable grade sewer line.

A mainline pump station was installed in 2013 north of the MD 495/Jennings Road intersection to enhance flows to the Grantsville WWTP.

Garrett County owns and operates the Jennings Collection System. The system currently serves approximately 82 ERUs including Clayburn, Inc., a refractory plant, as well as some homes between Jennings and Grantsville along Maple Grove Road (Table 4-1).

Service Areas

Figure 4-3 shows the existing Grantsville sewerage service area along with the Chestnut Ridge, and Jennings collection systems. See also Figures 4-4, 4-5, and 4-6. Within the immediate future (S-1), Grantsville is extending sewer service north along Hemlock Drive. The area for extension and annexation includes homes that are presently on septic systems, formerly FPS, the area is adjacent to the 669 housing development that is being constructed by the Garrett County Development Corporation. No service area expansions are planned for the upcoming one to three year period (S-2). Several areas

[3] Based on an area wide facility plan, completed in 1987.
[4] Jennings Community Sewage Disposal Study, April 4, 1997.

are shown as being served within 10 years (S-3) including: south of Meadowview Drive to I-68; west of Springs Road (MD 669); north along Springs Road to the Pennsylvania line; east of Dorsey Hotel Road; and north along and east of US 219 (Chestnut Ridge Road). These areas are consistent with growth areas indicated in the Garrett County Comprehensive Plan.

No additional future service area expansions (beyond 10 years) are currently planned.

Problem Areas and Future Needs

The Town's sewer lines and WWTP date from the 1980s ~~and~~ are ~~becoming~~ dated.

~~The ultraviolet disinfection system at the Grantsville WWTP has two racks. One is approximately 15 years old and needs to be replaced, the other one is four years old.~~

Extend sewer service to Hemlock Drive area, and development of the Grantsville housing project along MD 669.

The Chestnut Ridge pump station has deteriorated and is in need of replacement. The stations capacity is undersized for future expansion, a larger capacity station is required to protect the Casselman River from overflows.

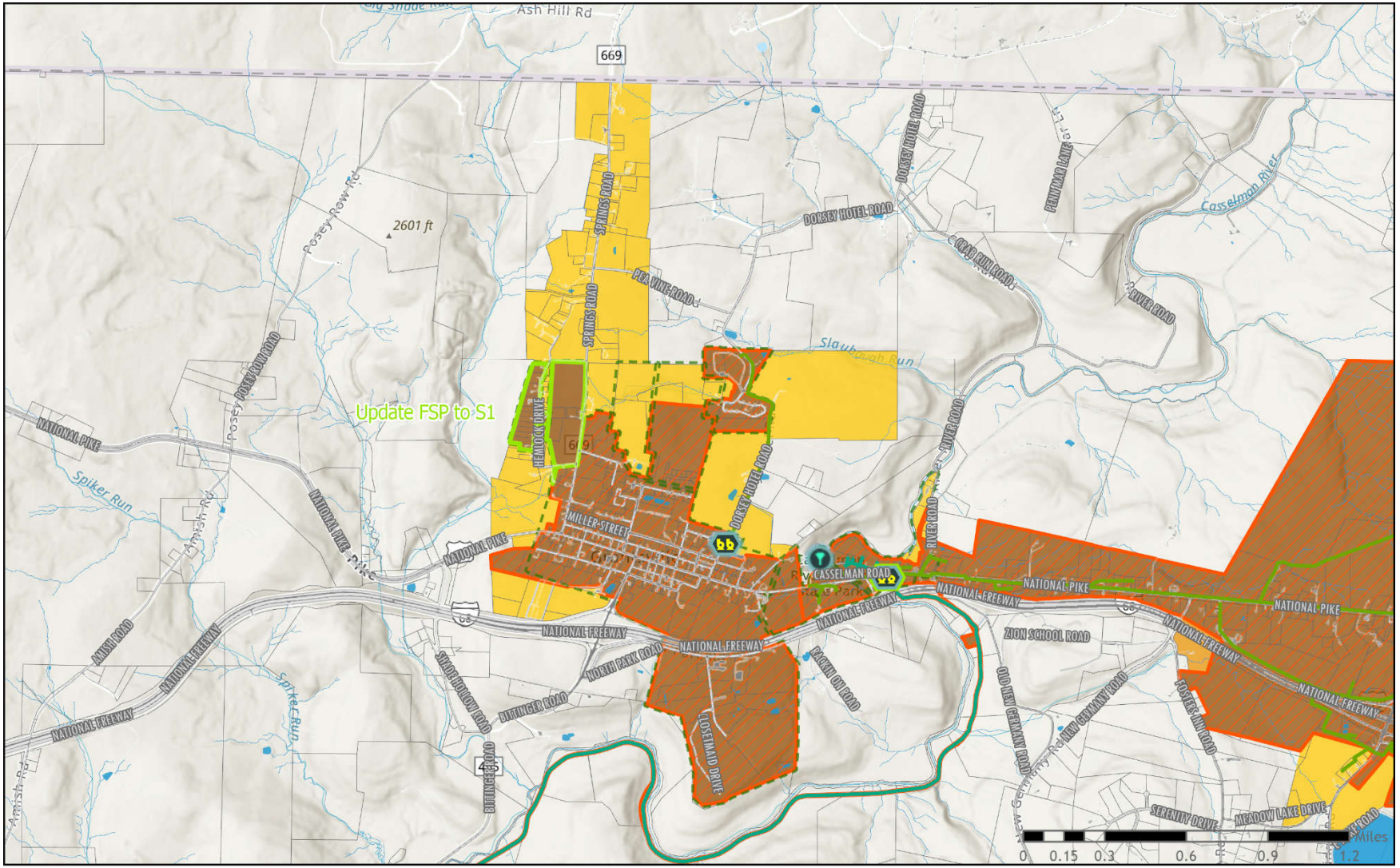
The Jennings variable grade "gray water" sewer collection system has been plagued with backups. The system requires regular flushing causing increased I&I being conveyed to the Grantsville WWTP.

Planned and Recommended Improvements

~~Replace the ultraviolet disinfection system rack at the Grantsville WWTP.~~

- Extend sewer service to Hemlock Drive area, and development of the Grantsville housing project along MD 669.
- Replacement of the Chestnut Ridge Pump Station to address age-related corrosion issues, increase size for projected expansion, and improve reliability.
- Infiltration & Inflow (I&I) Study to evaluate system condition, identify leaks, and develop a repair strategy to reduce excess flows to the Grantsville WWTP.
- Upgrades to Jennings Sewer System:
    - Install grinder pump stations.
    - Decommission all septic tanks
    - Replace Maple Grove Pump Station.
    - Upgrade sewer mains to eliminate blockages.

Figure 4-3



Grantsville Sewer Map

Asset type,Lifecycle Status
- Lift Station,Proposed
- Proposed Pump Station
- Treatment Plant
- Collector Gravity Main
- Interceptor Gravity Main
- Force Main
- Sewer Service History
- Sewer Service Areas
- Tax Parcels
- Garrett Town Boundaries
- Roads
- Streams
- Lake or Pond

Sewer Planning Status
- S1: Existing Service/ Under Construction
- S2: Service Within 3 Years
- S3: Service Within 10 Years
- FPS: Service Beyond 10 Years

Figure 4-4

Chestnut Ridge Sewer Map

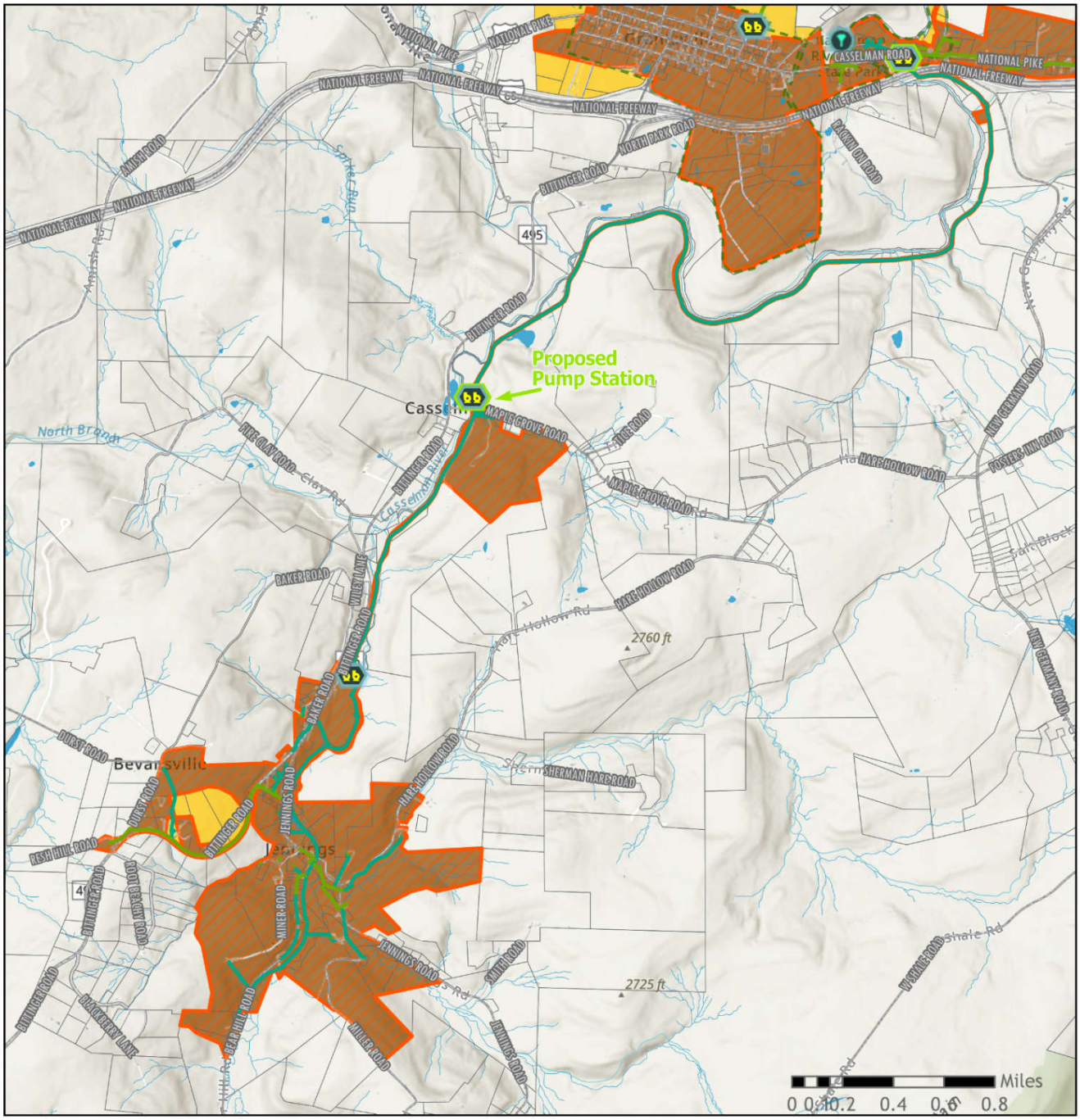
- Pump Station
- Treatment Plant
- Collector Gravity Main
- Interceptor Gravity Main
- Force Main
- Sewer Service History
- Sewer Service Areas
- Lake or Pond
- Stream

Sewer Planning Status

- S1: Existing Service/ Under Construction
- S2: Service Within 3 Years
- S3: Service Within 10 Years
- FPS: Service Beyond 10 Years

- Roads
- BlueLine

Figure 4-6 Jennings



Jennings Sewer Map

Lift Station,Proposed
Pump Station
Treatment Plant
Collector Gravity Main
Interceptor Gravity Main
Force Main
Sewer Service History
Sewer Service Areas
Tax Parcels
Garrett Town Boundaries
Roads
Streams
Lake or Pond

Sewer Planning Status
S1: Existing Service/ Under Construction
S2: Service Within 3 Years
S3: Service Within 10 Years
FPS: Service Beyond 10 Years