

AN ACT authorizing the County of Westchester to amend the Storm Water Reconnaissance Plan for the Saw Mill and Pocantico Rivers, adopted by Act No. 120 – 2014 on June 17, 2014, to add flood problem areas designated by the Village of Ardsley and a study conducted by the Village of Hastings-on-Hudson in compliance with Article III-A of the Westchester County Storm Water Management Law.

BE IT ENACTED by the County Board of the County of Westchester as follows:

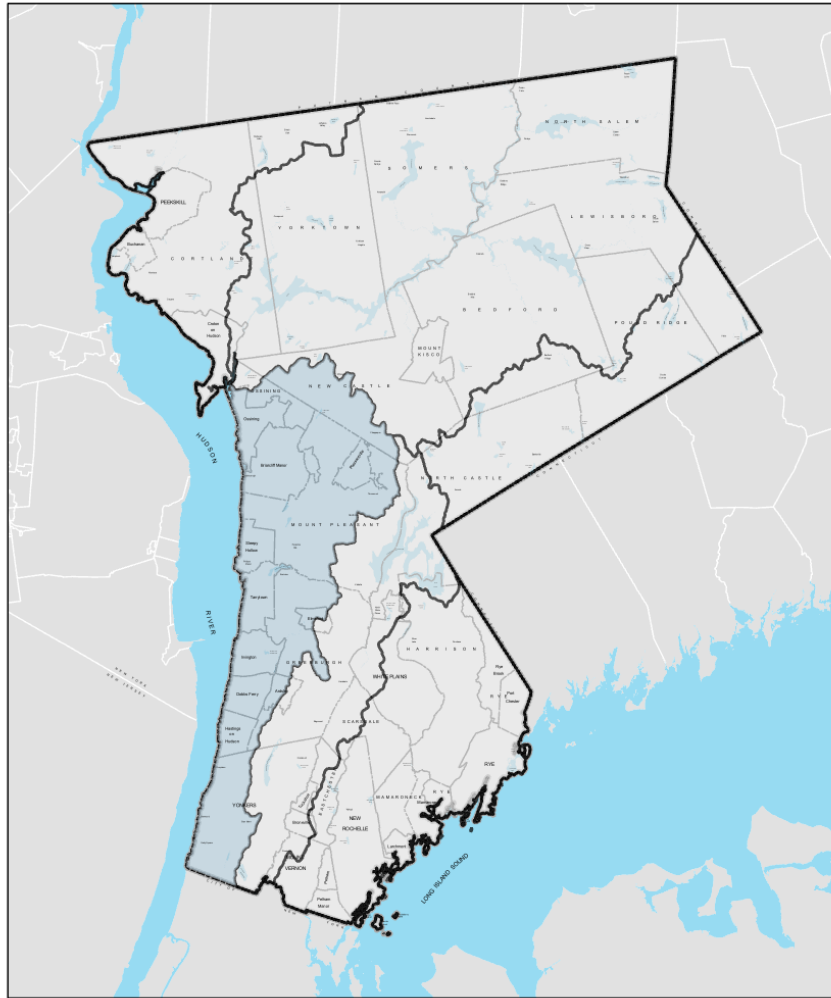
Section 1. This Board hereby approves an amendment annexed hereto to the Storm Water Reconnaissance Plan prepared for the Saw Mill and Pocantico Rivers, adopted by Act No. 120 – 2014 on June 17, 2014, to add flood problem areas designated by the Village of Ardsley and a study conducted by the Village of Hastings-on-Hudson in compliance with Article III-A of the Westchester County Storm Water Management Law.

§2. The County Executive or his duly authorized designee is hereby authorized and empowered to execute and deliver all instruments and to take any and all actions necessary or appropriate to effectuate the purposes hereof.

§3. This Act shall take effect immediately.

**Amendments to the
Stormwater Reconnaissance Plan for the
Saw Mill River - Pocantico River Watershed
Westchester County, New York**

Adopted by the Westchester County Board of Legislators
by Act XX-2026 on DATE



Kenneth W. Jenkins, County Executive
Blanca P. Lopez, Commissioner
Department of Planning

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1. OVERVIEW

This document compiles amendments to the stormwater reconnaissance plans prepared pursuant to the County Stormwater Management Law. Amendments are required to add new studies or areas of significant and/or recurring flooding identified by local municipalities so that such areas may become designated as “Flood Problem Areas” within the reconnaissance plans and consequently become eligible for funding assistance under the program created by the Stormwater Management Law. The process to amend the plans consists of either submission of a study to reduce flooding or flood risk; or completion of a questionnaire completed by the municipality describing a flood problem area. Studies and proposed flood problem areas are reviewed and approved by the County. This is typically done in conjunction with the submission of an application for Phase I (study and engineering) and/or Phase II (project implementation) funding assistance under the program. The following pages include descriptions of additional flood studies and Flood Problem Areas for the Saw Mill River - Pocantico River Watershed as approved by the County Board of Legislators.

2. ADDITIONAL STUDIES

STUDY NAME AND LOCATION: Hastings Flood Study 2023 – Phase I, Village Wide

MUNICIPALITY: Village of Hastings-On-Hudson

STUDY AREA: Village Wide

DATE OF STUDY: November 2023

STUDY PREPARER: James J. Hahn Engineering

STUDY DESCRIPTION:

The study, prepared by James J. Hahn Engineering, analyzes the Village's watersheds and watercourses, identifies and evaluates flood prone areas, and provides recommendations to mitigate flood conditions. Topographic data from Westchester County GIS, NRCS soil surveys, and aerial imagery were utilized to determine watershed boundaries, flow paths, curve numbers and other variables required for hydrologic analysis. The Village also identified recurring flood problem areas, which were compiled and analyzed via GPS technology along with existing drainage maps to understand channel sizes and capacities. Twenty-one flood areas are identified in the report. However, conceptual plans and cost estimates were only included for the three highest priority projects. The report notes the need for more detailed information and modeling to fully evaluate the causes of flooding and propose potential projects with adequate detail to evaluate costs and prioritize projects. Improvements were recommended starting downstream to upstream. The proposed projects were not analyzed for their downstream effects and flood areas will require further study to determine possible mitigation strategies.

ANALYSIS RESULTS:

The report recommends several actions to alleviate or mitigate flooding throughout the village. The recommendations below highlight the need for additional data collection, modeling and project development.

1. Update the drainage infrastructure mapping. This includes the location and elevation of all drainage structures, piping, and outlets. This should be completed by a New York State Licensed Land Surveyor and will require coordination with the Village Department of Public Works. This will also require outfalls along the Hudson River and tidal information.
2. Closed circuit television (CCTV) pipes and structures necessary to complete drainage infrastructure map.
3. Survey centerline profile of brooks and watercourses. At this time this appears necessary for Shecklers Brook, Boutilliers Brook, Zinsser Brook, and Billie Burke Brook.

4. Locate outfalls along the Hudson River. Coordination between entities to access properties and/ or obtain information (e.g., other municipalities, schools, Metro North, private property owners).
5. Update the Village Watershed Map based on an updated drainage map.

Prepare Hydrologic Engineering Center' s River Analysis System (HEC-RAS) model for Shecklers Brook, Boutilliers Brook, Zinsser Brook, and Billie Burke Brook.

- a. Identify flooding locations for various storm events.
 - b. Determine design storm event requirements.
 - c. Determine culvert or channel sizing for undersized sections of brook.
6. Update the list of drainage projects and add additional sites as needed. Separate them based on size, scope, and cost. Complete cost- benefit analysis if needed.
 7. Review results of Phase II and Phase III with the Village. Determine which projects to complete at that time and how to phase.
 8. Complete site-specific projects as described when funding becomes available.
 9. Identify and apply for grant funding and opportunities.
 10. Develop minimum standards for development and public improvements for use by the Village Department of Public Works and Building Department. For example, the Village has numerous 6- or 8-inch pipe. These pipes are categorically too small to convey stormwater and due to their size, clog more easily and require more maintenance than larger pipes.
 11. Continue stormwater requirements of the 100-year storm event for new development and redevelopment projects. Standard and Green infrastructure projects should be encouraged where possible.
 12. Add stormwater projects to the list as they arise.
 13. CCTV has been performed for many culverts and pipes in the Village. These inspections should be listed with the date of each inspection. Annual CCTV should continue for critical culverts and piping as determined by Village DPW.
 14. Complete a full topographic survey of projects that may be “shovel ready.”

COUNTY COMMENTS

The study describes flood problem areas in the municipality and utilizes methodology and data promoted by the County to address flooding. The study includes proposed projects that appear practical and will address flooding. Such projects will require additional technical review at the

time applications for funding assistance are submitted. However, as indicated in the study, a significant amount of additional data and analysis is required to more fully develop proposed projects, identify project costs, and evaluate priorities. The County is undertaking watershed plans to address flooding, water quality, and other issues. The data, analysis results, and recommendations of this study should be incorporated into the scope of work for the Saw Mill and Pocantico Rivers Watershed.

3. ADDITIONAL FLOOD PROBLEM AREAS

Map Area ID: ARD-6

Municipality: ARDSLEY

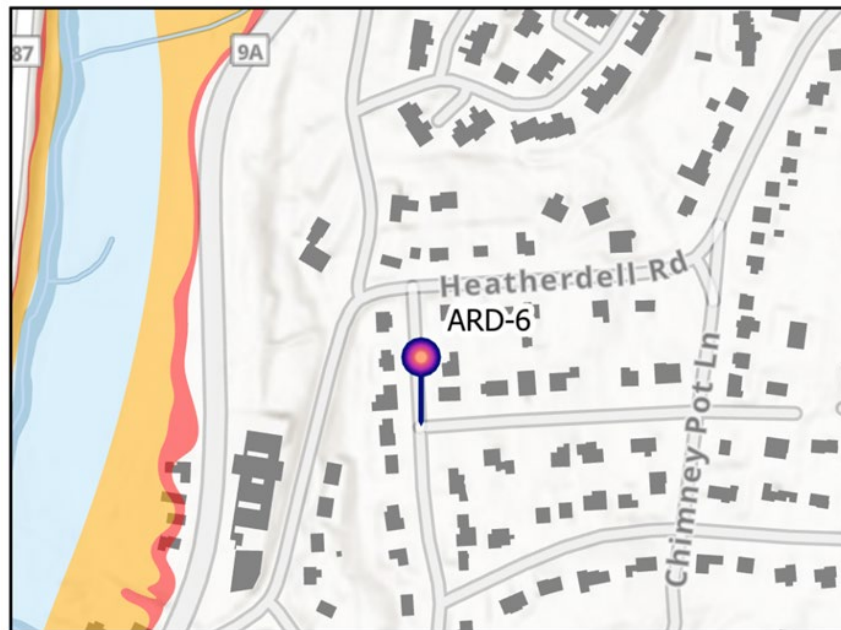
General Location: Captain Honeywells Road and Powderhorn Road between Chimney Pot Lane and Revolutionary Road

Nearest Watercourse or Waterbody: Saw Mill River

Associated Study/Report: None

Evaluation Score: Medium

General Description of Flooding: The Powderhorn Road and Captain Honeywell Road area in the Village of Ardsley has experienced reoccurring flooding during moderate to heavy rainfall events. Recent severe storms in 2022 and 2024 led to repeated roadway damage, closures and public safety concerns in the immediate vicinity as well as downstream along Saw Mill River Road (Route 9). This area is located within the natural drainage pattern to the Saw Mill River and is vulnerable due to undersized stormwater infrastructure and increased runoff from surrounding developments and intense rainfall events. Local observations and maintenance reports suggest flood depths of at least 6-12 inches during storms at or above the 10-year storm event. The volume of stormwater runoff in such storms has resulted in severe erosion, exposing residential building foundations and causing repeated flooding of numerous residences in the neighborhood and resulting in sedimentation of storm sewer infrastructure and watercourses downstream, all of which combine to exacerbate flooding in the area.



SAW MILL AND POCANTICO RIVERS - LOWER HUDSON AREA

