

Flood Mitigation Projects



Projects Underway with Executed IMAs

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Blind Brook Projects from Resilient NY Study	Active	Replacement of bridges at Oakland Beach Avenue and Playland Parkway and culvert and stream improvements in Acker Drive area of Rye Brook.	TBD	TBD
Clunie Avenue Engineering Study	Active	Phase I including project development, feasibility and final engineering tasks	\$212,500	\$106,250
Harrison Avenue Flood Study	Active	Phase I including project development, feasibility and final engineering tasks	\$197,500	\$98,750
Law Memorial Park Field	Active	Project will replace or upgrade existing storm sewer infrastructure and upgrade receiving pond at Law Memorial Park to increase storage capacity.	\$2,400,000	\$1,200,000
Peach Lake Flood Study	Active	Study watershed and develop solution to facilitate adequate draining of lake to reduce recurring flooding of lakeside properties and infiltration into wastewater plan.	\$239,800	\$119,900
Peekskill Hollow Brook Dam [BPL26 Funding]	Active	Rehabilitation of the Peekskill Hollow Brook Dam, which is a component of the City of Peekskill drinking water supply.	\$2,200,000	\$1,100,000
Pietro Place and Virginia Ave Flood Studies	Active	Analyze drainage basins, including existing storm system and develop solution to address recurring and significant flooding at Pietro Place, Gould Park and Virginia Avenue.	\$210,500	\$105,250
Watershed Wide Flood Mitigation Plans and Project Engineering	Active	Funds for watershed flood mitigation studies that include conceptual designs and cost estimates for flood mitigation projects.		\$2,000,000

Flood Mitigation Projects



Projects Bonded but No IMA

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Avon Circle Project Implementation	Active	Construct bypass pipe around Avon Circle condominiums and subsurface detention basin at Port Chester Middle School ballfields on east side of Blind Brook.	\$7,211,257	\$3,580,627
Hartsdale Brook Flood Study	Active	Take preliminary concept for diversion and stormwater storage to final design. Project will alleviate flooding in four corners area of Hartsdale. Project must not exacerbate flooding elsewhere.	\$800,000	\$400,000

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Projects submitted to BOL

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Brook Street Drainage Corridor Improvements	Active	The Village's Consulting Engineers, Dvirka & Bartilucci, have developed preferred alternatives to address the flooding in the area of Brook Street culvert (Concepts 2A, 2B, and 3). These improvements include two new stormwater drainage routes, including catch basins and pipes, to divert stormwater drainage from the series of open and closed culverts running through several properties along Brook Street, as well as under Brook Street.	\$1,402,000	\$701,000
Crawford Street Flood Mitigation	Active	The Village of Bronxville has retained PCI-Engineers to develop plans for open stormwater channels and two stormwater detention areas on existing open space owned by the Village located within the Town of Eastchester	\$10,000,000	\$5,000,000
Garth Woods area of the Bronx River Reservation (USACE Project)	Active	USACE will design flood mitigation project to re-route the Bronx River through Garth Woods to better protect the southbound lane of the parkway.	\$4,000,000	\$1,500,000
Rye Town Beach	Active	Stormwater diversion infrastructure to alleviate flooding & erosion on Forest Avenue, Rye Town Park and public beach	\$3,761,500	\$1,880,750
Subbasin 5 - Eastchester Rd/ White Oak St/ North Ave Improvements	Active	The Eastchester Rd – North Ave Stormwater Resiliency Project includes: • Widening ~1,900 feet of an existing drainage channel along North Ave. • Installing a diversion chamber near Eastchester Rd and North Ave to redirect flow from an overburdened storm sewer system. • Installing ~1,240 feet of new 24" and 48" drainage pipes with associated catch basins and manholes along Eastchester Rd, White Oak St, and North Ave	\$2,241,454	\$1,120,727
Troublesome Brook and Manhattan Brook Flood Studies	Active	Analyze drainage basins, including existing storm system and develop solution to address recurring and significant flooding along Troublesome Brook and Manhattan Brook.	\$835,000	\$417,750

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Applications under review by staff

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Lockwood Drive Culvert Project	Active	The project will replace a culvert which collapsed in 2022 causing extensive flooding, embankment erosion and roadway deterioration. Work will also include reappearing and widening the road to stabilize the embankment	\$1,543,500	\$771,750
Powderhorn Road	Active	The scope of this project is to construct a drainage system for Powderhorn and Captain Honeywell Roads and to connect them to the existing stormwater drains on southbound Heatherdell Road.	\$661,089	\$330,544

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Projects in discussion

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Flood Mitigation Workshop for Floodplain Administrators	Active	Flood mitigation workshop. Potential topics to include: land use planning, site planning, insurance trends, NFIP, building standards, public engagement.	TBD	TBD
Flood Mitigation Workshop for Land Use Professionals	Active	Flood mitigation workshop. Potential topics to include: land use planning, site planning, insurance trends, NFIP, building standards, public engagement.	TBD	TBD
Glover Field Stormwater Improvements	Active	Evaluate the sanitary sewer interference that is within a storm drain under the Glover field complex. The sanitary sewer main conveys sewage from Pelham Manor, Pelham and New Rochelle to the County Pump Station	TBD	TBD
Mamaroneck & Sheldrake Rivers Implementation USACE	Active	Implementation of previously completed study.	TBD	TBD
Mamaroneck & Sheldrake Rivers Local Projects for USACE Credit	Active	Initially to move certain projects forward, using non-federal funds and receiving credit from USACE as part of larger project. Look for Ward Avenue Bridge, Center Avenue Bridge.	TBD	TBD
Public Engagement and Risk Communication Workshop	Active	Flood mitigation workshop. Potential topics to include: land use planning, site planning, insurance trends, NFIP, building standards, public engagement.	TBD	TBD
Upper Minkel Dam Removal Construction	Active	Partial decommissioning of dam and restoration of floodplain (construction phase).	\$2,350,000	\$1,175,000
Ward Avenue Bridge Replacement	Active	Project will replace Ward Avenue bridge with widened opening and restore floodplain benches in area. Project scope and rough cost estimate included in Resiliency NY study. Project eligible for NYS grant funding (EFC, DEC, DOT).	\$8,000,000	\$4,000,000

Flood Mitigation Projects



Pending Projects

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
4th Avenue / Glenwood Lake Drainage Area Improvements	Pending	Improve 25-year storm event capacity/capability to 100 years to mediate flooding in the Village of Pelham. 4th Avenue / Glenwood Lake Drainage Areas: Replace gravity drain on 6th Street – box culvert capable of 100-year flows, set lower to avoid SS interference; Pump Station and detention chamber at 4th Ave and 6th Street playground; 1600+ LF 18" force main to Hutchinson River new discharge at River Avenue; 788LF of 72" diam. bypass on 3rd Street (lowered LJA culvert to invert on 4th to be more effective); 790 LF 48x60 culvert in 4th Ave Section 3; 1030 LF 72" diam. culvert in 4th Ave Section 2; and 2080 LF 84" diam. culvert in 4th Ave Section 1	\$32,000,000	\$16,000,000
Ardsley Road and Edgemont Road Drainage Study in Edgemont	Pending	Funding for a professional study to evaluate drainage and provide recommendations for Ardsley Road and Edgemont Road in the Greenville/Edgemont neighborhood of Greenburgh	TBD	\$500,000
Bronxville Stormwater Conveyance System	Pending	New stormwater conveyance system to address flooding in the Hamilton-Sussex area of the Village of Bronxville located west of Route 22. A majority of stormwater runoff from the west side of Rt.22 runs down into this basin and floods a large portion of the surrounding neighborhoods. The project would improve drainage to alleviate this flooding.	TBD	\$200,000
City of Rye Stormwater System Improvements for Flood Mitigation	Pending	Funding would provide 50% of the cost of the City of Rye's stormwater system improvement program for 2024 in order to alleviate flooding. Funds would be used design, construction, and construction management/inspection	TBD	\$250,000
Flood Mitigation Study - Village of Mamaroneck Jefferson Ave Parking Lot	Pending	Part of larger USACE project. MMV also received \$6.5M grant for this.	TBD	\$150,000
Fulton Park / Old Kensico Rd	Pending	Upsize drainage system along Old Kensico Road and remove obstructions at culvert along Fulton Brook at water main along edge of BRPR.	TBD	TBD
Hutchinson River Flood Mitigation Project Implementation	Pending	Replace culverts along Hutchinson River	\$3,892,000	\$1,946,000
Longvale New Metro North Bridge Floodwalls	Pending	Discussions with MTA to scope project	\$25,000,000	\$12,500,000
Park Hill Area - New Drainage Systems	Pending	TBD	TBD	TBD
Pine Brook Flood Study	Pending	Study watershed and develop solution to reduce flooding in the neighborhood.	\$324,700	\$162,350
Sheldon Brook Residency	Pending	TBD	\$3,000,000	\$1,500,00
Stephenson Brook Resiliency Planning	Pending	TBD	\$10,000,000	\$5,000,000
Sun Haven Resiliency Planning	Pending	TBD	\$5,000,000	\$2,500,000

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Tompkins Avenue Bridge Replacement	Pending	Project will replace Tomkins Avenue bridge (currently closed) with widened opening and restore floodplain benches in area. Project scope and rough cost estimate included in Resiliency NY study. Project eligible for NYS grant funding (EFC, DEC, DOT).	\$7,000,000	\$3,500,00
Town of New Castle: Chappaqua Flood Study	Pending	TBD	TBD	TBD
Valley Rd, Brookside Place, Fourth Ave, Fifth Ave, White Oak Street	Pending	Upgrade storm sewer system		\$0
Village of Mamaroneck Detention Retention Enhancement Study	Pending	This project would study five areas in the Village of Mamaroneck to enhance detention and retention including: Mamaroneck Ave Dam and Reservoir; Saxon Woods Park and Lake; Highway runoff from I-95 and the Hutchinson Parkway; and the Sheldrake River near Bubb Walker Park	TBD	\$150,000
Washingtonville Flood Control	Pending	TBD	TBD	TBD
Clunie Avenue Flood Implementation	Pending	This project will address flooding issues in the Clunie Avenue neighborhood in Yonkers. In 2023, the County paid for a study, and the results to improve the area are from that study. Based upon the analysis done in the study, the recommended solution is to install a holding tank (wet well) and pumps to deal with major storms. The amount requested is based upon similar projects.	TBD	\$4,000,000
Saw Mill River Flood Project Implementation	Pending	The NYS Department of Environmental Conservation is currently conducting a study of flooding at vulnerable sites along the Saw Mill River. The survey will identify the affected areas and the specific challenges that need to be addressed, such as: the state of various infrastructure including dams, levees, culverts, and other drainage systems; the severity of accumulated debris; and the impact of climate change on the frequency and severity of flooding. frequency and severity of flooding. The study is expected to be completed in early 2025. In anticipation of the study's completion and the major capital budget needs arising, adding funding to the County's Flood Mitigation capital project now will allow the County to expedite work based upon recommendations from the DEC report.	TBD	\$25,250,000
Crawford Drainage Basin Improvements	Pending	The Village of Bronxville has retained an engineering firm to develop plans to open stormwater channels and two stormwater detention areas on existing open space owned by the Village that is located within the Town of Eastchester. Additionally, the Town of Eastchester is partnering with the Village to address flooding in this area by designing and constructing a new stormwater line down Crawford Street. The project will cost a total of \$10 million, which includes \$5 million for the open channels and detention areas and \$5 million for the new stormwater line down Crawford Street. Half the funding is requested from the County. The Village and Town will provide a \$5 million match.	TBD	\$5,000,000

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Completed Projects

Project Name	Project Status	Project Description	Total Project Cost	County Funding Amount
Avon Circle Engineering Study	Completed	Engineering analysis and development of alternative solutions to address flooding conditions in the area of Avon Circle and the Port Chester Middle School.	\$95,000	\$47,500
Bowman Avenue Dam Retrofit	Completed	Replace existing fixed, timber outlet control gate at the "Bowman Avenue Dam" with automated, adjustable, cast iron outlet control gate to be automatically controlled based on water surface elevation measured at a gauge mounted on the dam.	\$2,167,100	\$1,083,550
Fox Meadow Brook Flood Mitigation Project	Completed	Project components at three locations along Fox Meadow Brook include construction of dry bio-detention/meadow storm water management basins and rain garden with associated spillway controls and stream channel modifications	\$2,900,000	\$1,450,000
Gardens Lake Flood Mitigation and Water Quality Improvement Project	Completed	Enable use of lake on Sheldrake River as stormwater storage basin by dredging and retrofit of dam outlet. IMA	\$1,600,000	\$0
Grassy Sprain Dam Rehabilitation	Completed	Items to complete rehabilitation of Grassy Sprain Reservoir Dam, particularly the outlet valve and associated controls.	\$500,000	\$250,000
Hillside Avenue Bridge Replacement	Completed	Reconstruction of Hillside Avenue bridge	\$5,214,429	\$1,000,000
Hillside Avenue Bridge Replacement (additional funding)	Completed			\$1,365,429
Hutchinson River Flood Mitigation Project (including Lake Isle dam)	Completed	Replace culverts, river clearing, bank stabilization and realignment	\$499,568	\$249,784
Loh Park Flood Mitigation Project	Completed	Replace two culverts, streambank stabilization and create forebays within the existing stream channel along Loh Avenue. New control structure and subsurface extended detention structure at park between Loh Avenue and Leroy Avenue. Repair, line or replace drainage pipe from Leroy Avenue downstream to small pond on west side of Broadway. Clean pond of sediment as recommended by stream assessment.	\$4,000,000	\$1,775,000
Loh Park Flood Mitigation Project (Amended)	Completed			
Mamaroneck & Sheldrake Rivers General Reevaluation Report USACE	Completed	Partnership among USACE, NYS DEC and Westchester County, led by USACE, to re-study flood mitigation options and develop specific recommendation for Mamaroneck Village	\$6,144,000	\$768,000
Upper Minkel Dam Removal Design	Completed	Partial decommissioning of dam and restoration of floodplain (design phase).	\$700,000	\$350,000
Waverly Avenue Bridge Replacement	Completed	Replace the culvert at Waverly Avenue to widen the surface to include sidewalks and enlarge and realign the culvert to improve hydraulic capacity.	\$4,169,972	\$2,084,986