

**EARLY NOTICE AND PUBLIC EXPLANATION OF
A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND**

**TOWN OF UNION BRIXIUS CREEK STREAM BANK RESTORATION PROJECT
BROOME COUNTY, NY**

**TOWN OF UNION PATTERSON CREEK STREAM BANK RESTORATION PROJECT
BROOME COUNTY, NY**

Thomas King, Assistant General Counsel and Certifying Officer Governor's
Office of Storm Recovery
99 Washington Avenue, Suite 1224
Albany, NY 12260

NOTIFICATION OF ACTIVITY IN A FLOODPLAIN

To: All interested Agencies, Groups, and Individuals

This is to give notice that the Governor's Office of Storm Recovery (GOSR) is conducting an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. Department of Housing and Urban Renewal (HUD) regulations under 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands, to determine the potential effects that its activities in the floodplain and wetland would have on the human environment.

Brixius Creek Stream Bank Restoration

During Hurricane Irene and Tropical Storm Lee, excessive rainfall led to flash flooding that caused the banks of the Brixius Creek to erode. The creek is in need of repair in order to increase resiliency in key areas of the creek. Bank stabilization and erosion control are required in order for the Town and residents living along the creek to recover. The proposed improvements will help mitigate damage caused by flooding in future storm events, while stabilizing stream banks, reducing erosion and decreasing sediment deposit downstream.

The project involves the placement of heavy stacked stone to mitigate soil erosion along approximately 790 feet of Brixius Creek beginning east of Christopher Street and ending at the western edge of N. McKinley Avenue. Three specific sections have been selected as areas where restoration efforts will be made. Improvements to the stream banks include the placement of stone fill, the construction of earth berms, and the construction of stone check dams. Work includes the construction of a 900 cubic foot debris basin with stone weirs. Also work is to include cleaning the invert of two road crossing culverts (approximately 250 lineal feet). The project involves 0.06 acres located in the floodplain, within the Village of Endicott.

Patterson Creek Stream Bank Restoration

During Hurricane Irene and Tropical Storm Lee, excessive rainfall led to flash flooding that caused the banks of the Patterson Creek to erode. The creek is in need of repair in order to increase resiliency in key areas of the creek. Bank stabilization and erosion control are required in order for the Town and residents living along the creek to recover. The proposed improvements will help mitigate damage caused by flooding in future storm events, while stabilizing stream banks,

reducing erosion and decreasing sediment deposit downstream.

The project involves the construction of a doweled stacked stone wall to a height above the 100 year event or equal to the adjoining backyard and grassed slope above that, within an approximate 205 foot long section of Patterson Creek, beginning 85 feet north of Watson Boulevard. Work in this section also includes the removal of three trees, removal of a low hanging branch which extends into the stream channel and acts as a debris catch, and the removal of un-vegetated gravel bars along the length of the new wall to 6 inches above the water's elevation at time of construction. The second section of Patterson Creek selected for improvements is approximately 650 feet in length, beginning 200 feet north of Smith Drive. Work in this section involves the construction of a doweled stacked stone wall to a height above the 100 year event or equal to the adjoining backyard and grassed slope above that. Work in this section also includes the removal of a failing retaining wall, as well as four trees and a piece of existing concrete sitting in the stream. The project involves 0.9 acres located in the floodplain.

Funding for the projects will be provided by the HUD Community Development Block Grant – Disaster Recovery (CDBG-DR) program for storm recovery activities in New York State.

A floodplains map based on the FEMA Base Flood Elevation Maps and wetlands maps based on the National Wetland Inventory and New York State Department of Environmental Conservation (NYSDEC) data have been prepared for these projects and are available for review at <http://www.stormrecovery.ny.gov/environmental-docs>.

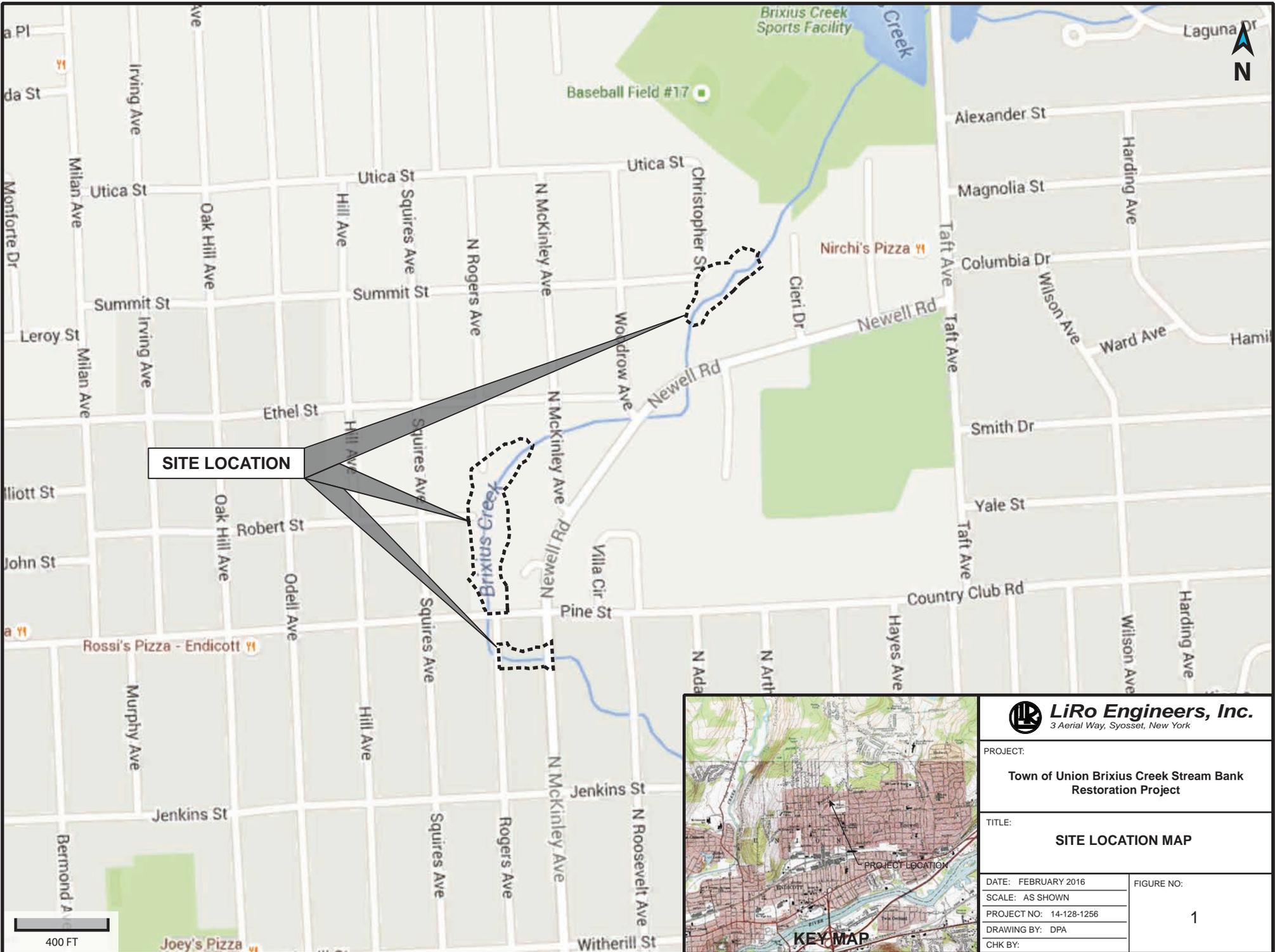
There are three primary purposes for this notice. First, people who may be affected by activities in floodplains or wetlands and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, adequate public notice is an important public education tool. The dissemination of information about floodplains and wetlands facilitates and enhances Federal efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in floodplains or wetlands, it must inform those who may be put at greater or continued risk.

PUBLIC COMMENTS

Any individual, group, or agency may submit written comments on the proposed action or a request for further information to Thomas King, Assistant General Counsel and Certifying Officer, Governor's Office of Storm Recovery, 99 Washington Avenue, Suite 1224, Albany, NY 12260; email: NYSCDBG_DR_ER@nyshcr.org. All comments received by May 13, 2016 will be considered.

Thomas King, Assistant General Counsel and Certifying Officer

April 27, 2016



 **LiRo Engineers, Inc.**
3 Aerial Way, Syosset, New York

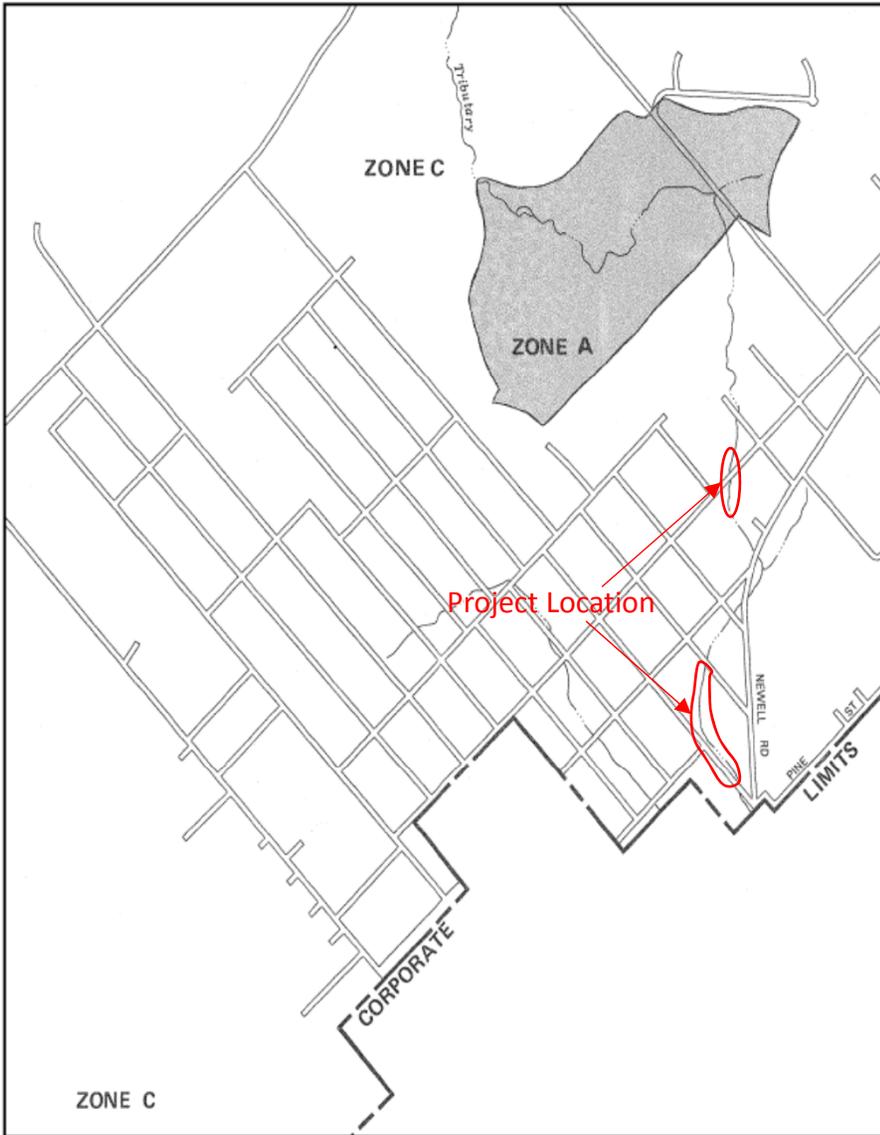
PROJECT:
**Town of Union Brixius Creek Stream Bank
Restoration Project**

TITLE:
SITE LOCATION MAP

DATE: FEBRUARY 2016
SCALE: AS SHOWN
PROJECT NO: 14-128-1256
DRAWING BY: DPA
CHK BY:

FIGURE NO:
1





NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
FLOOD INSURANCE RATE MAP**

**TOWN OF UNION,
NEW YORK
BROOME COUNTY**

PANEL 20 OF 35
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
360056 0020 D

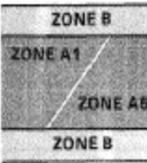
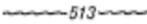
MAP REVISED:
SEPTEMBER 30, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

KEY TO MAP

- 500-Year Flood Boundary ————
- 100-Year Flood Boundary ————
- Zone Designations* 
- 100-Year Flood Boundary ————
- 500-Year Flood Boundary ————
- Base Flood Elevation Line With Elevation In Feet**  513
- Base Flood Elevation in Feet Where Uniform Within Zone** (EL 987)
- Elevation Reference Mark RM7_X
- Zone D Boundary ————
- River Mile *M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

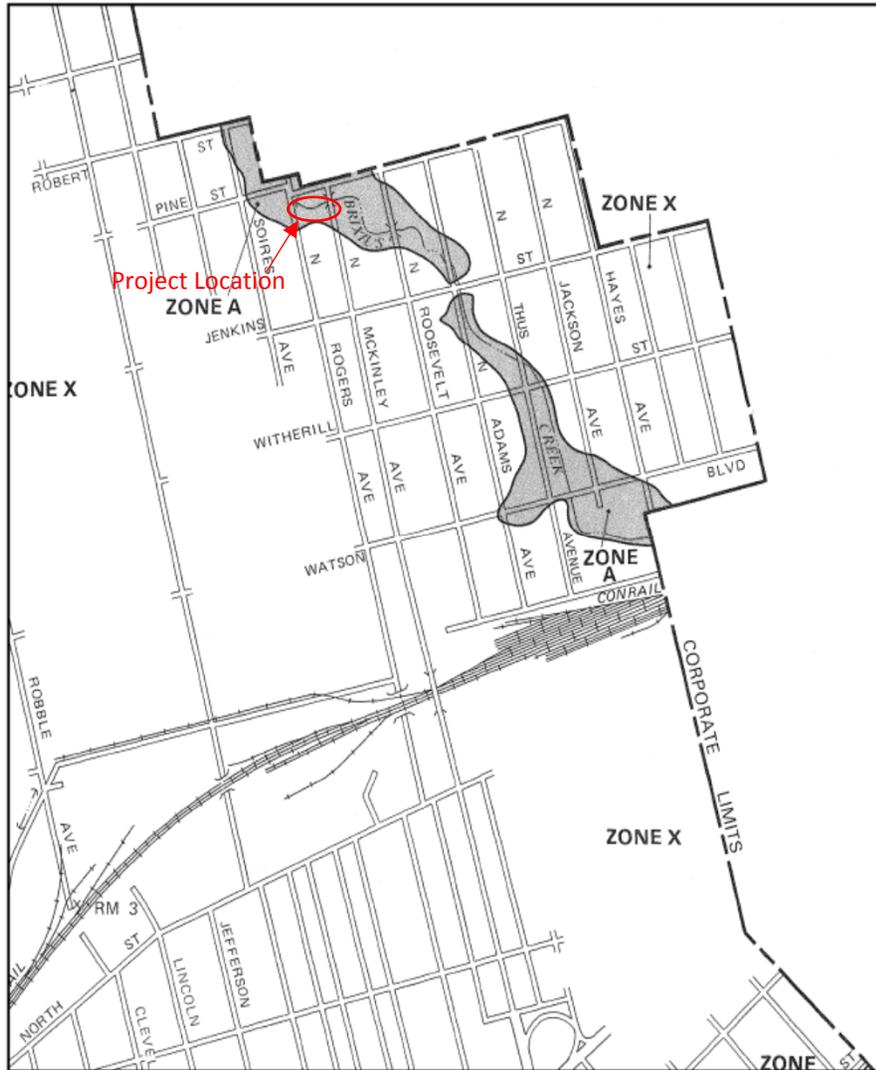
***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

**Brixius Creek Stream Bank
Restoration Project**
Union, New York



Flood Insurance
Rate Map
FIGURE 2a



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VILLAGE OF
ENDICOTT,
NEW YORK
BROOME COUNTY

ONLY PANEL PRINTED

COMMUNITY-PANEL NUMBER
360045 0005 B

MAP REVISED:
SEPTEMBER 7, 1998



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND

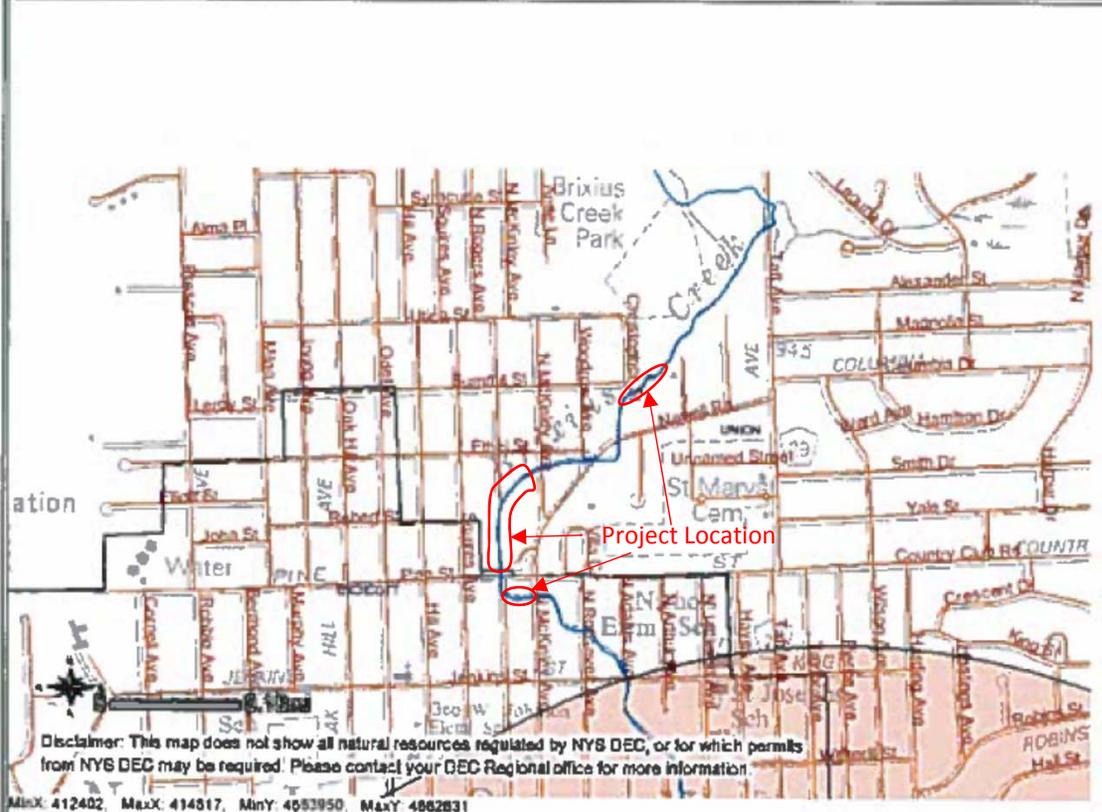
-  SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.
- ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
-  FLOODWAY AREAS IN ZONE AE
-  OTHER FLOOD AREAS
- ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
-  OTHER AREAS
- ZONE X** Areas determined to be outside 500-year flood plain.
- ZONE D** Areas in which flood hazards are undetermined.

**Brixius Creek Stream Bank
Restoration Project**
Union, New York



Flood Insurance
Rate Map
FIGURE 2b

Brixlus Creek Stream Bank Restoration



Visible Layers

- Classified Streams
- Classified Ponds
- State-Regulated Freshwater Wetlands
- Wetland Checkone
- State-Regulated Freshwater Wetlands
- Rare Plants and Rare Animals
- Significant Natural Communities Buffered
- Natural Communities Nearby
- Significant Natural Communities
- Interstate Highways
- Adirondack Park Boundary
- Counties

Disclaimer: This map does not show all natural resources regulated by NYS DEC, or for which permits from NYS DEC may be required. Please contact your DEC Regional office for more information.

MinX: 412402, MaxX: 414817, MinY: 4653950, MaxY: 4662631

**Brixlus Creek Stream Bank
Restoration Project**
Union, New York



NYSDEC
Wetlands Map
FIGURE 3a





U.S. Fish and Wildlife Service
National Wetlands Inventory

**Brixius Creek
 Stream Bank
 Restoration**

Feb 17, 2016



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

Riparian Status

- Digital Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



**Brixius Creek Stream Bank
 Restoration Project**
 Union, New York



USFWS
 Wetlands Map
 FIGURE 3b