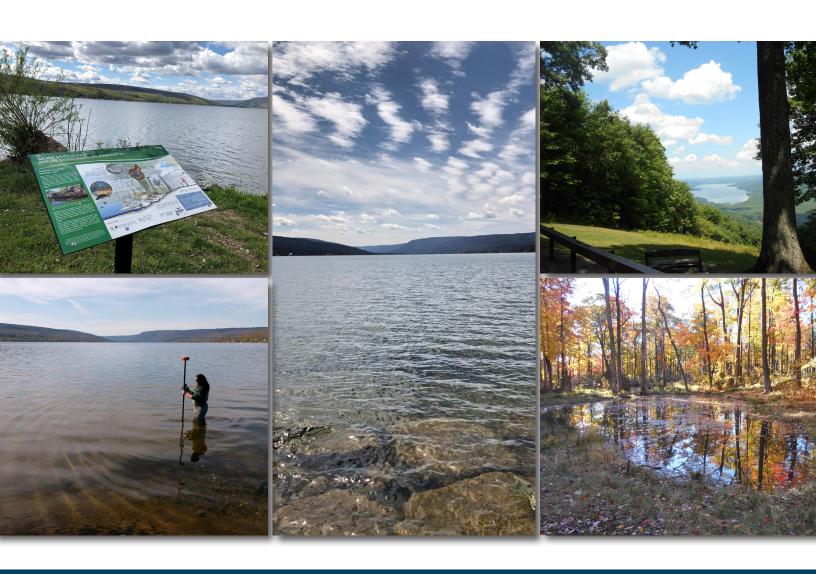
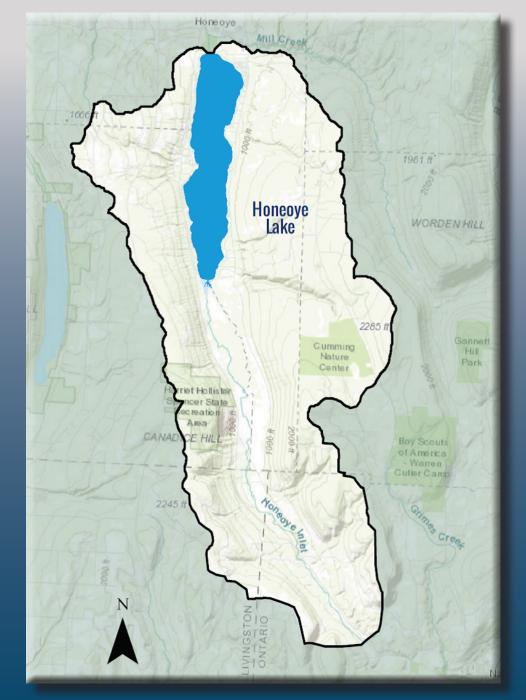
Honeoye Lake Watershed

Stormwater Toolkit







Our actions on the land in and around Honeoye Lake directly affect our natural resources. We can work together using best management practices (BMPs) to support the lands and water that we appreciate and rely upon. The Honeoye Lake Watershed Stormwater Toolkit provides important information to help facilitate the use of BMPs and adherence to existing regulations for a variety of land use activities including residential and commercial development, agriculture, silviculture, infrastructure and utility projects, etc.

The Honeoye Lake watershed encompasses 37 square miles and includes all or part of the following towns: Richmond, Canadice, South Bristol, Bristol and Naples. Policies at local, state, and federal levels have been adopted to protect water quality, limit erosion, conserve wildlife habitat, and preserve the beauty and quality of life in our region. The following information and fact sheets summarize some of the most common issues, BMPs, and regulatory requirements associated with land use in the watershed.

Quick Reference Guide

Do You Need a Permit?

Will your activity disturb over 500 square feet?

You may need a:

Municipal Erosion and Sediment Control Permit

Contact: Town Code Enforcement Officer at the Town of Richmond, Canadice, Bristol, Naples or South Bristol (see contact info below)

Is your activity within or adjacent to a wetland?

You may need a:

NYSDEC/USACE Joint Permit

Contact: - NYSDEC, Region 8 Permit

Administrator (585) 226-5400
- USACE, Buffalo District Office,
Regulatory Branch (716) 879-4314

Is your activity within a floodplain?

You may need a:

Municipal Floodplain Development Permit

Contact: - Town Code Enforcement Officer

(see contact info below)

Additional References:

Do I need a NYSDEC permit: www.dec.ny.gov/permits/6279.html NYSDEC Permit Application: dec.ny.gov/docs/pemits_ej_operations_pdf/jointapp.pdf

Town Code Enforcement Officers:

- Richmond (585) 229-2176
- Canadice (585) 367-2050
- Bristol (585) 229-2400
- Naples (585) 374-2111
- South Bristol (585) 374-6341

Will your activity disturb one acre or more?

You may need a:

- SPDES General Permit for Stormwater Discharges
- Municipal Erosion and Sediment Control Permit

Contact: - Town Code Enforcement Officer at
Richmond, Canadice, Bristol, Naples,
or South Bristol (see contact info below)

- NYSDEC, Region 8 Permit Administrator (585) 226-5400

Is your activity within or adjacent to a lake or stream?

You may need a:

NYSDEC/USACE Joint Permit

Contact: - NYSDEC, Region 8 Permit

Administrator - (585) 226-5400

- USACE, Buffalo District Office, Regulatory Branch - (716) 879-4314

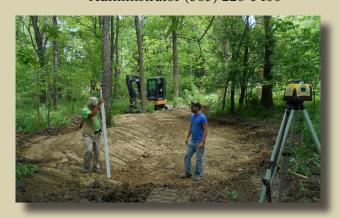
- Check with local code enforcement officer to determine if local laws apply

Will your activity result in impervious surfaces?

You may need a:

SPDES General Permit for Stormwater Discharges

Contact: - NYSDEC, Region 8 Permit Administrator (585) 226-5400



Contact the appropriate agencies including the New York State Department of Environmental Conservation (NYSDEC), U.S. Army Corps of Engineers (USACE), and town and county agencies. Contact information for these agencies can be found at the end.

Wetlands

Apply for a NYSDEC/USACE Joint Permit for activities within and adjacent to wetlands. Wetlands are protected under the State Freshwater Wetland Act and Section 404 of the Clean Water Act.

Wetlands provide many important functions on the landscape. Wetlands filter sediments, nutrients, and toxins from floodwater. They help with floodwater retention; and groundwater recharge. Wetlands provide excellent wildlife habitat, outdoor recreation opportunities and scenic resources. A permit may be needed if wetlands or adjacent areas are temporarily or permanently disturbed. Examples of disturbance include:

- Filling or placing materials into a wetland
- Dredging or removing soil from a wetland
- Draining water from a wetland
- Constructing driveways, boardwalks, or ponds through a wetland

Wetland impact permits require maximum avoidance and minimization of impacts to wetlands and may also require a mitigation plan.

The USACE and NYSDEC have a Joint Permit Application process. A first step is to identify the extent of wetland on a property and if the wetland is regulated by NYSDEC and/ or USACE. When a federal permit is required, NYSDEC will need to issue a Water Quality Certification. If the wetland is also regulated by NYSDEC (typically wetlands 12.4 acres in size or greater), a state permit is required for activities in the wetland and in 100' around the wetland.



What is a wetland? A wetland is an area that stays wet long enough during the growing season to support water-loving plants and develop hydric soils. There are many types of wetlands with many names including marsh, swamp, and wet meadow.

It is not always easy to know if you are working in a wetland or where it begins and ends. When in doubt contact agencies at the numbers below. Avoid project delays and heavy fines!



Points of Contact:

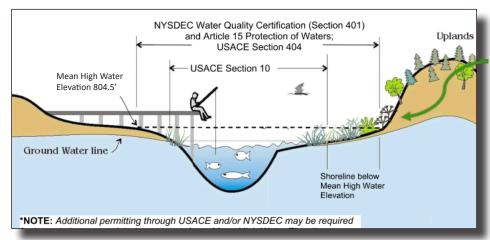
- NYSDEC Region 8 Regional Permit Administrator (585) 226-5400
- USACE Buffalo District Office Regulatory Branch (716) 879-4314

- Joint Permit Application Form: dec.ny.gov/docs/permits_ej_operations_pdf/jointapp.pdf
- Instructions for completing Joint Permit Application: dec.ny.gov/docs/permits_ej_operations_pdf/jntappinstruc.pdf
- Do I need a NYSDEC Freshwater Wetland Permit?: dec.ny.gov/permits/6279.html

Honeoye Lake and Tributary Streams

Apply for a NYSDEC/USACE Joint Permit for activities that occur within or along the shorelines of Honeoye Lake and its tributary streams below the Ordinary High Water Mark (OHWM).

USACE / NYSDEC Jurisdiction Honeoye Lake



For tributary streams
the OHWM
is determined in the field
during project design and permit
application. For Honeoye Lake, the
OHWM is the Mean High Water
Elevation which is 804.5 feet
above sea level.

Any project that includes temporary or permanent disturbance to bed, bank or shoreline of Honeoye Lake and its tributaries below the OHWM requires a permit. That includes:

- Dredging or sediment/gravel bar removal
- Installation or restoration of docks, decks, or platforms
- Breakwaters, breakwalls, riprap, sheet-piling, and other in water structures
- Installation of mooring devices
- Any other placement of fill below the OHWM

Points of Contact:

- NYSDEC Region 8 Regional Permit Administrator (585) 226-5400
- USACE Buffalo District Office Regulatory Branch (716) 879-4314

- Joint Permit Application Form: dec.ny.gov/docs/permits_ej_operations_pdf/jointapp.pdf
- NYSDEC Protection of Waters Program: www.dec.ny.gov/permits/6042.html
- Do I need a NYSDEC Protection of Waters Permit?: www.dec.ny.gov/permits/6335.html





Floodplains

A local permit is required for all development within Special Flood Hazard Areas shown on Flood Insurance Rate Maps. This requirement allows all residents to be eligible for flood insurance wherever required. It also helps ensure that new developments are not at risk of flood damage and protects other properties from increased flood hazards.

What is a floodplain? A floodplain is a lowlying area adjacent to a waterway generally defined by its frequency of flooding (e.g. 100year floodplain has a one percent chance of flooding during any given year).

Special Flood Hazard Areas can be identified on Flood Insurance Rate Maps located online at https://msc.fema.gov/portal.

All municipalities in the Honeoye Lake Watershed require a floodplain permit for development in Special Flood Hazard Areas. Other state and federal permits may also apply. Activities that require a permit include any project that involves man-made change to improved or unimproved real estate such as:

- Construction or modification
 Dredging to structures
- Excavation
- Filling
- Modification of existing drainage patterns
- Driving of piles



Development in a Floodplain

- Increases flood hazards
- Causes greater flooding downstream
- Results in greater stormwater and sediment inputs to water
- Increases erosion and loss of natural vegetation
- Results in damage and loss of property



Land clearing

• Permanent storage of

materials or equipment

Grading

Points of Contact:

 Municipal Code Enforcement Officer/Floodplain Administrator

References:

Additional information on the National Flood Insurance Program can be found by visiting www.fema.gov/business/nfip.

Soil Erosion and Sedimentation Control

Help protect water quality and the health and safety of a community by using best management practices (BMPs) to prevent uncontrolled drainage and runoff associated with land development.

If disturbing soils, removing existing vegetation, or changing topography, use best management practices. These may include a gravel construction entrance, properly installed silt fence, maintenance of an undisturbed buffer along ditches and streams, and reestablishment of ground cover as soon as possible after development.

It is the cumulative impact of many construction projects on the landscape that can negatively affect our waterways. Erosion and sediment control are important for every project, big or small!

Construction projects may require a permit.

Over 500 SF of disturbance: Apply for a municipal Erosion and Sediment Control (ESC) Permit (Town Code Officer at Richmond, Canadice, Bristol, Naples or South Bristol). A permit is required before digging.

Over 10,000 SF of disturbance: Develop an Erosion Control Plan for municipal approval and ESC Permit (Town Code Officer at Richmond, Canadice, Bristol, Naples or South Bristol). All permits and approved Erosion Control Plan are required before digging.

Over 1 acre of disturbance: Obtain coverage under NYS Department of Environmental Conservation SPDES (State Pollutant Discharge Elimination System) General Permit for Stormwater Discharges are from Construction Activity - before digging. See NYSDEC Construction Stormwater Toolbox at: https://www.dec.ny.gov/chemical/8694.html

The goal of BMPs is to prevent soil from leaving a property and entering waterways.



Erosion and Sediment Control Actions Include:

- Construction of a gravel construction entrance
- Installation of silt fence at lower edge of disturbance
- Establishment of ground cover
- Avoidance of areas near ditches, streams, and wetlands
- Assessing construction sites at the end of each day
- Complete projects in a timely manner











DO THIS

Effective Installation



Stabilized Construction Entrance

- Create a gravel construction entrance that is at least 6in deep and 12ft wide.
- Use loose, big stone (2-3in) to scrape and collect mud from construction vehicles and keep adjoining roadways clean.



Silt Fence

- A silt fence prevents erosion because it allows water to filter through but not soil.
- Effective installation includes placing the fence in the proper location, partially burying (trenching), and staking for adequate reinforcement.



Ground Cover

- Seeding disturbed areas after construction is complete will reduce runoff and erosion.
- Any disturbed areas that are at final grade or will remain idle for an extended period of time should be seeded and mulched within days of completion.



Buffers

- Sites near water (ditches, streams, wetlands, and lakes) require extra protection from erosion and sediment control.
- Maintaining vegetated buffers that are as wide as the project will protect water quality by filtering runoff.

NOT THIS

Ineffective Installation



Construction Entrance

- A poorly constructed gravel drive is less than 6in deep and uses small and rounded stones.
- Sediment tracked into roadways is a potential safety issue and results in pollution of our waterways.



Silt Fence

- Ineffective installation of a silt fence or poor placement will result in erosion and runoff into waterways.
- Placement of a silt fence in an area of concentrated flow without proper trenching and staking are common mistakes.



Ground Cover

- Bare ground us highly susceptible to erosion during rain events.
- Establishing ground cover by seeding and mulching immediately after construction will largely eliminate erosion.
- Don't skip the mulch.



Buffers

- Disturbance adjacent to water may result in negative impacts to water quality.
- Disturbance may also be a violation of local, state, and federal law.
- Maintaining a vegetative buffer zone will protect water quality.

Agriculture Best Management Practices

Protecting the beauty and health of our landscape also protects the beauty and water quality of our Lake. Best management practices (BMPs) provide effective ways to make the most of our natural resources while minimizing unintended effects on our lands and waters.

Agriculture Best Management Practices for Water Quality:



• Conservation Tillage (No-till) - leaving plant material from past harvest on the soil will keep nutrients and pesticides on the field, reduce runoff and erosion, and improve soil, water, and air quality.

• Riparian Buffers - planting and maintaining 20+ feet of vegetated buffer (grass, shrubs, trees) next to drainage ditches, streams, and rivers will help filter runoff, protect soil

- Cover Crops growing annual plants when fields are fallow will control erosion, allowing uptake of excess nutrients, and weed suppression.
- Critical Area Planting planting grass, shrubs, and trees will protect areas vulnerable to erosion including steep slopes, swales and along waterways, and heavy use areas (livestock and equipment).
- Filter Strips planting strips of grass at the lower edges of fields will trap runoff containing sediment, nutrients, and pesticides before it enters waterways.

distributes nutrients.



Wetland Exclusion Fencing of streams or into divided pastures decreases erosion, improves water quality, and



from erosion, improve water quality and support wildlife. Riparian buffers

- Grassed Waterways utilizing natural vegetation to conduct water downslope helps to prevent soil loss and improve water quality.
- Water Management developing a watering facility to provide livestock with water from a well, spring, pond or other source is an alternative to direct access to surface water.





Grassed waterway

• Pest Management - keeping crop pests at manageable levels will help protect soil, water, and air.

• Fencing - using fencing to guide animal movement out

- Conservation Buffers establishing a vegetated buffer (grass, shrubs and/or trees) between fields and waterways will protect surface waters
- Nutrient Management applying the correct amount and form of nutrients for crop yield goals will help minimize loss into surface waters and groundwater.

- Ontario County Soil & Water Conservation District (www.ontswcd.com) (585) 396-1450
- United State Department of Agriculture Natural Resources Conservation Service (nrcs.usda.gov) (585) 394-0525



Forestry Best Management Practices

Protecting the beauty and health of our landscape also protects the beauty and water quality of our Lake. Best management practices (BMPs) provide effective ways to have an economically viable timber harvest while minimizing unintended effects on our lands and waters. Most towns within the watershed have regulations governing timber harvesting activities.

Forestry Best Management Practices for Water Quality:



Culvert

Log Landing



Skid trail



Stream Crossing

- Pre-harvest Planning planning in advance with the help of a forestry professional will be more economical and effective and allow proper application of BMPs to protect soil, water, and remaining timber.
- Critical Areas protect water quality by avoiding critical areas which include streams, streamside management zones, floodplains, wetlands, water bodies, steep slopes (30% or greater), and unstable soils.
- Log Landings locate landings at least 200 feet away from water. Use straw bales or silt fencing to minimize erosion. Buffer landings from roads and use coarse gravel to filter mud before vehicle enter public roads.
- Forest Roads and Skid Trails plan location to minimize the amount of cut and fill and to minimize the number of water crossings. Avoid water bodies and/or provide buffer strips. Avoid steep slopes. Identify and utilize appropriate stabilization, drainage, and erosion control measures. Engage a forestry professional for design of forest roads.
- Stream Crossings minimize stream crossings. Place unavoidable crossings where there are low, stable banks and a firm stream bottom. Install culverts or bridges during low flow and stabilize soils immediately after installation. Be sure culverts are not too small. Engage a forestry professional for design of stream crossings. Crossings may require a state or federal permit.
- Disturbed Soils smooth soils and seed and mulch all disturbed areas including roads, skid trails, and landings as soon as possible to minimize erosion.
- Wetlands avoid wetlands. If avoidance is not possible, use clean fill to construct roads, ensure ditches do not drain the wetland, and employ erosion control techniques such as silt fencing and straw bales. Disturbance to wetlands may require a state or federal permit.
- Erosion and Sediment Control apply erosion control techniques including water diversion features (water bars, deflectors, turn up, diversion ditch), silt fence or straw bales to protect waterbodies, filter strips, soil stabilization and gravel at culvert intake and outfalls.
- Permits several state and federal regulations are in place to protect wetlands, streams, and water quality during timber harvest. Contact regulatory staff to determine if your harvest plan requires a permit.

- NYS Forestry BMPs for Water Quality: https://www.dec.ny.gov/docs/lands_forests_pdf/forestrybmp.pdf
- Do I need a NYSDEC Protection of Waters Permit?: http://www.dec.ny.gov/permits/6335.html
- Do I need a NYSDEC Freshwater Wetland Permit?: http://www.dec.ny.gov/permits/6279.html



Contact Information

New York State Department of Environmental Conservation Region 8 Regional Permit Administrator: (585) 226-5400 Fax (585) 226-2830

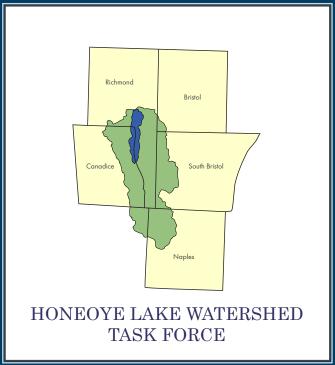
United States Army Corps of Engineers Buffalo District Office Regulatory Branch: (716) 879-4314

NYS Department of Health: (315) 789-3030

Ontario County Planning Department: 20 Ontario St, Canandaigua (585) 396-4455 Ontario County Soil & Water Conservation District: www.ontswcd.com (585) 396-1450

United States Department of Agriculture Natural Resource Conservation Service: (585) 394-0525

Town Municipal Code Enforcement:
Town of Richmond - (585) 229-2176
Town of Canadice - (585) 367-2050
Town of Bristol- (585) 229-2400
Town of Naples- (585) 374-2111
Town of South Bristol - (585) 374-6341













This version of the Stormwater Toolkit was funded by the Honeoye Lake Watershed Task Force. Thank you to the Finger Lakes - Lake Ontario Watershed Protection Alliance, the New York State Environmental Protection Fund, Livingston County, Conesus Lake Watershed Management Program, CC Environment & Planning and Barton & Loguidice for sharing the design of this Stormwater Toolkit.