

Cayuga County Water Quality Management Agency



A n n u a l R e p o r t 2 0 1 0

Cayuga County Water Quality Management Agency

Table of Contents

	Page Number
Letter from the Chairman	1
Members	2
Mission	3
2010 Critical Water Issues	4
2010 WQMA Priority Projects	9
2010 WQMA Priorities	13
2010 Other WQMA Projects and Programs	22

This document was created and published through funds from the New York State Department of Environmental Conservation's Water Quality Improvement Project grant program.

Written and designed by staff of the Cayuga County Department of Planning and Economic Development.

The Cayuga County Water Quality Management Agency (WQMA) maintains a website at co.cayuga.ny.us/wqma.

Cayuga County

Water Quality Management Agency

Letter from the Chairman

2010: Some Good, Some Bad, and Some Things Really Ugly

The Good. First for some good things that are happening in Cayuga County. Public interest in water and environmental issues remains strong and seems to be growing. Cayuga County set another record for annual participation at our electronic waste, tire and hazardous chemical collection events, exceeding 2000 participants for the first time ever. Cayuga County residents have now recycled over 500,000 pounds of e-waste through the County's programs. Heightened public interest in protecting and improving the quality of Owasco Lake, the County's primary drinking water source, culminated in the creation of the Owasco Lake Watershed Management Council in December of 2010. This Council will, for the first time, bring multiple municipalities together on a regular basis to set lake protection policies.



The Bad. The bad certainly was the invasive species news. Water chestnut was found in Otter Lake, and Asian clams and Chinese mystery snail were found in Owasco Lake. There are more invasives in the lakes east and west of Cayuga County, so we need to renew our efforts prevent the spread of these unwelcome guests into our waterbodies. The mussel, clam, snail, shrimp and waterflea invaders hold the potential to disrupt lake ecosystems, making the environment more favorable for blue green algae to thrive, which leads to the...

Really Ugly. The blue green algae (BGA) bloom on Owasco Lake was certainly the most intense and extensive in recent memory. BGA exploded in a number of Central New York Lakes and could potentially impact swimming and other water contact sports if it returns in 2011.

Not exactly a rosy picture. So what is the WQMA doing to address these issues? As you will see from this report, County agencies and partners are doing good things: best management practices are being installed, water quality violations are being found and addressed within the Owasco Lake Watershed, septic systems throughout the County are being repaired, etc. However, much more remains to be done. Water quality improvement will take everyone's efforts to minimize human impacts on our lakes and streams. Each of us individually needs to do our best on the lands and lawns we tend and the lakes and streams we visit and use. Use less phosphorus on lawns; clean up lakeshore campfire ash; do not move invasives (don't move bait, wash your boat and trailer, don't move firewood); learn as much as you can and have your family and neighbors do the same.

Cayuga County Water Quality Management Agency

Members

Chair: Bruce Natale

Vice-Chair: Gary Duckett

Cayuga County Legislature's Environmental Advisors:

Director of Cayuga County Planning and Development	Stephen Lynch
Director of Cayuga County Environmental Health	Eileen O'Connor
Director of Cayuga County Parks and Trails	Gary Duckett
Director of Cayuga County Soil & Water Conservation District	Ron Podolak
Cayuga County Solid Waste Management Program Administrator	Bruce Natale

Non-County, Local Officials:

Town of Owasco	Edward Wagner
City of Auburn	Vicky Murphy
Cayuga County Association of Town Supervisors	Keith Batman
Cayuga County Association of Villages	Harry Hinman

Representatives from Waterbody Associations in Cayuga County:

Cayuga Lake Watershed Network	Jim Young
Duck Lake Association	Dale Powell
Lake Como Association	Barbara Harvey
Owasco Watershed Lake Association	John Corcoran
Tri-County Skaneateles Lake Pure Waters Association	Vacant

Staff provided by the Cayuga County Department of Planning and Economic Development.

Cayuga County Water Quality Management Agency

Mission

The Cayuga County Water Quality Management Agency (WQMA) was created by County Legislative Resolution #445-90 to serve the Cayuga County Legislature in meeting its responsibilities in the management and protection of the County's water resources.

The WQMA advises the Cayuga County Legislature on matters related to water resource management and planning. The WQMA is charged with identifying problems, proposing priorities, and promoting the coordination of activities in the management and protection of the County's water resources. More specifically, the Agency is charged with:

1. Creating and maintaining a comprehensive planning and implementation program for water quality management in Cayuga County.
2. Coordinating the agencies with responsibilities for, and watershed associations with interest in, water quality management in Cayuga County.
3. Providing greater public input into the process of water quality management and related programs.
4. Providing an effective public education program to develop public understanding and support for water quality management in Cayuga County.



Cayuga County Water Quality Management Agency

2010 Critical Water Issues

Invasive Species

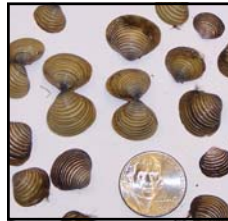
An invasive species is a non-native plant or animal whose introduction to an ecosystem causes or is likely to cause economic or environmental harm or harm to human health. They tend to reproduce so rapidly that they displace native species and alter natural ecosystems.

One aquatic invasive plant that is spreading in Cayuga County is the water chestnut. This plant has been found in the past in Sterling Creek and the Seneca River, and in 2010 it was found in Otter Lake. Water chestnut is an issue because it forms dense, impenetrable surface mats that can severely limit recreation and habitat. Water chestnut can be controlled by harvesting and handpulling if done before it gets too dense.

Two new aquatic species were identified in Owasco Lake in 2010. These were the Asian clam and Chinese mystery snail. Asian clams can cause problems by clogging water intake pipes, outcompeting native clams and causing algae blooms. Chinese mystery snails can also clog water intake pipes and will outcompete native snails.



Water Chestnut



Asian Clam



Chinese Mystery Snail

Other aquatic invasive plant species in Cayuga County include Eurasian watermilfoil, curly leaved pondweed and European frog-bit; and other aquatic invasive animal species include the fishhook waterflea, zebra mussels and quagga mussels.

On land a number of invasive insects are moving closer such as Asian longhorn beetle, emerald ash borer and hemlock woolly adelgid. These insects could destroy our maples, ashes and hemlocks. These are the trees that protect our slopes, gullies and wetlands and losing these trees could be very bad for our streams and lakes.

Cayuga County Water Quality Management Agency

2010 Critical Water Issues

Phosphorus Loading

Phosphorus loading is a problem for many of Cayuga County surface waters as evidenced by excessive plant and algae growth. Phosphorus is an essential nutrient for plant growth. However, too much can have a devastating impact on lakes and streams. Increased amounts of phosphorus entering waterways can stimulate algae blooms and plant growth. As these plants die and decompose they reduce the amount of oxygen available to fish and other aquatic life. This can devastate fish populations. Also, blue green algae can grow in lakes, ponds and slow-moving streams when enriched with nutrients like phosphorus or nitrogen. This is of concern because blue green algae produce toxins that could pose a health risk to people and animals when they are exposed to them in large enough quantities. Health effects could occur when the blooms are swallowed while swimming or through contact with the skin.

Phosphorus has many sources. Some exists naturally in lakes and streams but human activities from residential, urban, and agricultural areas contribute a significant amount of phosphorus. Stormwater, or runoff, travels across land and picks up phosphorus from fertilizers, eroded soil particles, septic systems, and pet waste and discharges it into nearby lakes and streams.



Cayuga County Water Quality Management Agency

2010 Critical Water Issues

Owasco Lake Watershed Inspection Program

The objective of the Owasco Lake Watershed Inspection Program is to help protect and enhance Owasco Lake as a drinking water source. Owasco Lake is a valuable resource for both the City of Auburn and Cayuga County as it is the primary drinking water source for approximately 45,000 City and County residents. The protection of the water supply is important for both health and economic reasons.

The Owasco Lake Watershed Inspector reports monthly at WQMA meetings about the program's activities and status of situations that have been found. The WQMA provides technical supervision and resources to the Owasco Lake Watershed Inspector.

One of the priority projects for the WQMA in 2010 was to continue to increase the effectiveness of the Owasco Lake Watershed Inspector Program. Cayuga County, WQMA Agencies, Town of Owasco and City of Auburn worked together to develop the Owasco Lake Watershed Management Council. The purpose of this Council is to manage, monitor, and protect the water resources of Owasco Lake and within the Owasco Lake Watershed for the well-being and benefit of the residents of Cayuga County and to support the enforcement of the Owasco Lake Rules and Regulations through the Owasco Lake Watershed Inspection Committee. On December 8, 2010, the Cayuga County Legislature, Town of Owasco and City of Auburn all voted to create the Owasco Lake Watershed Management Council.



Cayuga County Water Quality Management Agency

2010 Critical Water Issues

Stormwater Runoff, Erosion and Sedimentation

Stormwater runoff, erosion and sedimentation adversely affect water quality. Stormwater runoff occurs when rain or snowmelt does not soak into the ground and instead flows over the ground and runs into waterways. Erosion occurs when water moves solids such as silt, sand, clay, or rock; and sedimentation is when these solids drop off into streams and lakes.

Stormwater runoff can pick up debris, chemicals, nutrients, dirt, bacteria, and other pollutants. The runoff can then flow into a storm sewer or directly into a lake, river, stream, wetland or other waterbody. This untreated water enters the waterbodies we use for swimming, fishing and drinking. The sediment can cloud the water making it difficult for plants to grow and can destroy habitats such as fish spawning areas. The excess nutrients in runoff can cause algae blooms and plant growth that can effect boating, swimming and other water activities. Bacteria and other pathogens can wash into swimming areas which can lead to beach closures. Also, household hazardous wastes like oil, insecticides, pesticides, herbicides, and other chemicals in the stormwater can poison aquatic life and affect drinking water. Polluted stormwater can also affect drinking water sources which can affect human health and increase treatment costs.

Stormwater runoff is a special concern during construction projects and agricultural practices. Proper site management and best management practices can prevent water quality problems from stormwater runoff.



Cayuga County Water Quality Management Agency

2010 Critical Water Issues

Geese and Lake Gulls

Many waterbodies in Cayuga County have ideal goose habitat conditions, which are park like open areas with short grass adjacent to small bodies of water. These habitat conditions have in turn enticed rapidly growing numbers of locally breeding geese to live year round on golf courses, parks, and other public and private property.

Gull and goose droppings in heavy concentrations can over fertilize lawns, contribute to excessive algae growth in lakes that can result in fish kills, and potentially contaminate beaches and municipal water supplies.



Geese and gulls at Emerson Park

Cayuga County
Water Quality Management Agency

2010 WQMA Priority Projects

Cayuga County Water Quality Management Agency

2010 WQMA Priority Projects

Update the Cayuga County Water Quality Strategy

The Cayuga County Water Quality Strategy is a document that serves as a guide to policy creation and management activities related to water issues in the County.

Work conducted in 2010:

- Special meeting held on February 4th led to the formation of a WQMA Ad Hoc Committee to update the strategy.
- Ad Hoc Committee Progress to date:
 - Plan developed to update the strategy.
 - Data collection.
 - Draft outline and draft waterbody data summary written and provided for review.
 - Waterbody information summaries written.
 - Determined water quality issues and how to incorporate them into the strategy.
 - Developed the framework of the strategy.

Additional Assistance Needed:

- No additional financial or staff assistance is needed to complete this project. The WQMA will work to complete the Strategy Update in 2011.



Cayuga County

Water Quality Management Agency

2010 WQMA Priority Projects

Continue to work to increase the effectiveness of the Owasco Lake Watershed Inspector Program in order to improve the water quality of Owasco Lake

The objective of the Owasco Lake Watershed Inspection Program is to help protect and enhance Owasco Lake as a drinking water source. Owasco Lake is a valuable resource for both the City of Auburn and Cayuga County as it is the primary drinking water source for approximately 45,000 City and County residents. The protection of the water supply is important for both health and economic reasons.

Work conducted in 2010:

- WQMA Motion, May 6th: Recommended that the City of Auburn join the Town of Owasco in approving the expansion of the Owasco Lake Watershed Inspection Program.
- Budget approved by Owasco and Auburn to add a part-time year long assistant inspector.
- Cayuga County, WQMA Agencies, Town of Owasco and City of Auburn worked together to develop the Owasco Lake Watershed Management Council. The purpose of this Council is to manage, monitor, and protect the water resources of Owasco Lake and within the Owasco Lake Watershed for the well-being and benefit of the residents of Cayuga County and to support the enforcement of the Owasco Lake Rules and Regulations through the Owasco Lake Watershed Inspection Committee. The Cayuga County Legislature, Town of Owasco and City of Auburn all voted to create the Owasco Lake Watershed Management Council on December 8th.

Additional Assistance Needed:

- Funding needed to implement the Owasco Lake Watershed Management Council.
- Funding needed for a Watershed Resource Manager to oversee the Owasco Lake Watershed Inspection Program, implement watershed management initiatives, and provide additional inspection capacity.
- Funding needed to update the Owasco Lake Watershed Management Plan.
- Funding needed to add additional Owasco Lake Watershed inspectors.

Cayuga County Water Quality Management Agency

2010 WQMA Priority Projects

Engage stakeholders and examine the next steps for projects identified in the “Restoration Feasibility Report for the Owasco Inlet and Owasco Flats Restoration Project” report.

The overall objective of restoration efforts in the Owasco Flats area is to reduce phosphorus and sediment loads to Owasco Lake. This report examined the feasibility and cost/benefits of different restoration efforts.

Work conducted in 2010:

- Cayuga County Planning Department and Environmental Health Division worked on the Restoration Feasibility Report for the Owasco Inlet and Owasco Flats Restoration Project:
 - Draft report presented to the WQMA in January and a discussion on possible projects.
 - Final report available on the WQMA website.
 - Final report presented in September to the Cayuga County Legislative Planning and Economic Development Committee, Owasco Watershed Lake Association and WQMA.
- Cayuga County Planning Department assisted in a \$750,000 grant application to the Green Innovation Grant Program from the Environmental Facilities Corporation to conduct riparian buffering and wetland restoration on City of Auburn property in Owasco Flats.
- An independent but parallel New York State Department of Environmental Conservation (NYSDEC) project to create an Owasco Flats Wildlife Management Area (WMA) had a major milestone. The first parcel for the WMA was acquired by the NYSDEC in August of 2010.



Photo by Bill Hecht

Additional Assistance Needed:

- Funding needed to begin implementation of restoration projects.

**Cayuga County
Water Quality Management Agency**

2010 WQMA Priorities

2010 WQMA Priorities

Cayuga County Water Quality Management Agency

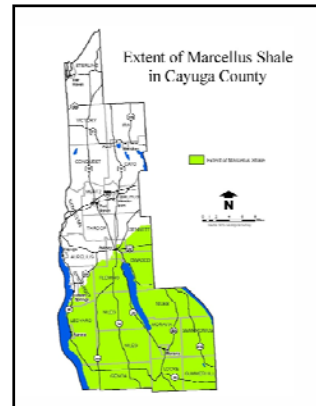
2010 WQMA Priorities

Follow drilling activities, options and effects on surface and ground water quality.

This priority is to monitor the development of the permitting process for horizontal drilling in the Marcellus shale and its potential effects on surface and groundwater quality. There are concerns of the use of water in the hydrofracking process and the storing, transporting and treating of the waste water created by the hydrofracking process.

Work conducted in 2010:

- Cayuga County Planning Department and Environmental Health Division participated in a presentation to the Ledyard Planning Board on Marcellus shale on March 10th.
- Cayuga County Planning Department organized an educational forum on Marcellus shale gas at Cayuga Community College held on April 29th.
- Cayuga County Planning Department held a training for planning and zoning board members entitled “Planning for Mining, Oil and Gas” on July 21st.
- The Central New York Regional Planning and Development Board (CNYRPDB), with input from County Planning Directors, completed a report titled “Marcellus Shale Communities: Report, Recommendations and Resources for a Collaborative Approach to Planning and Local Land Use Tools.” The report is available on the CNYRPDB website as a local and regional advanced planning resource for communities located within or near potential Marcellus shale gas development areas.



Additional Assistance Needed:

- No additional financial or staff assistance is needed.

Cayuga County

Water Quality Management Agency

2010 WQMA Priorities

Continue to focus on nutrient reduction in County waterbodies.

Excess amounts nutrients (phosphorus and nitrogen) can cause water quality problems in County waterbodies such as excessive weed and algae growth. Reducing nutrients entering County waterbodies can lead to improved water quality.

Work conducted in 2010:

- Provided education on nutrient management and reduction with the P-Project education program and website, as well as other educational materials.
 - P-Project website maintained by the Cayuga County Planning Department and Cornell Cooperative Extension of Cayuga County (CCE).
 - Eco-Talk article in The Citizen by Renee Jensen on April 26th: “Spring cleaning your lawn.”
 - Eco-Talk article in The Citizen by Irene Holak on July 30th: “Homeowner weeks offer tips on lawns, bug control.”
 - CCE presented “Lawn Care Plans and Practices” which was a one hour presentation on lawn care basics and a one hour questions and answers session on August 9th and August 18th.
 - CCE of Cayuga County presented “How-to’s of Composting and Demonstrations” on August 11th and August 19th.
- Cayuga County Soil and Water Conservation District had zero phosphorus fertilizer available for purchase. They provide some funding for this program.

Additional Assistance Needed:

- Funding needed for education and educational materials.
- Funding needed to continue the zero phosphorus fertilizer program until the new New York State phosphorus in fertilizer ban takes effect in 2012.
- Funding needed to encourage the use of, and assist in the development of, nutrient management plans for golf courses, developments, parks, etc.

Cayuga County Water Quality Management Agency

2010 WQMA Priorities

Educate the public on water quality and stewardship.


Work conducted in 2010:

- WQMA members participated in a meeting at Institute for the Application of Geospatial Technology, Inc. to discuss making a movie on Owasco Lake.
- WQMA member agencies and Owasco Watershed Lake Association co-sponsored the Owasco Lake Day at Emerson Park in July. WQMA's educational display at Owasco Lake Day included information on:
 - Pharmaceutical disposal
 - Open burning
 - Phase II Stormwater Rules and Regulations
 - Aquatic weeds
 - How to protect Owasco Lake
- CCE held a Renewable Energy Forum on March 20th.
- CCE education to children included:
 - Genesee Street Elementary School fifth graders learned about watersheds and did a lesson from Project WET.
 - Owasco Elementary students learned about water quality and worked on installation of a rain garden at Owasco Elementary.
 - A forestry presentation for a Boy Scout Troop.
- Public awareness campaign developed and launched by the Emerson Foundation, Cayuga County Planning Department, WQMA and the Owasco Lake Watershed Inspector. Includes lawn signs on phosphorus, yard waste, pet waste and bacterial issues.
- The Cayuga County Solid Waste Management Office sent open burning regulation education to towns and villages in Cayuga County.



Cayuga County Water Quality Management Agency

2010 WQMA Priorities

- Cayuga County adopted the City of Auburn and Cayuga County Comprehensive Sustainable Energy and Development Plan which includes water quality projects such as:
 - Complete the County Soil and Water Community Digester Project.
 - Continue participation in the P- Project to protect local watersheds and promote phosphorous reduction in fertilizers, detergents and dock soaps.
 - Encourage creation of bio-retention facilities and use of permeable pavements in parking areas.
 - Eco-Talk articles in The Citizen:
 - “Resolving a burning issue,” April 26th by Renee Jensen.
 - “Burning leaves sings the environment,” October 22nd by Jessica Miles.
 - “Protecting our drinking water,” May 14th by Irene Holak.
 - “Make your own body products,” December 10th by Amy Barra.
 - CCE and Cayuga County Soil and Water Conservation District (SWCD) participated in Conservation Field Days in September held at Emerson Park. Over 500 6th grade students from seven schools attended.
- 

Additional Assistance Needed:

- Funding needed for education and educational materials.

Cayuga County Water Quality Management Agency

2010 WQMA Priorities

Continue to monitor waterbodies and coordinate with the Finger Lakes Institute and others.

Work conducted in 2010:

- The Duck Lake Association and Lake Como Association continued sampling of their lakes with the Citizens Statewide Lake Assessment Program (CSLAP).
- Dutch Hollow Brook and Owasco Inlet Monitoring Program, Owasco Lake Tributary Nitrate and Phosphorus Monitoring Program and the Duck Lake Phosphorus Monitoring Program were listed in the WQMA 2010 Work Plan.
 - These monitoring programs were previously funded by Finger Lakes Lake Ontario Watershed Protection Alliance (FOLLOWPA) funds. These programs were discontinued in 2010 because of lack of these funds. Cayuga County provided funding to continue parts of the Dutch Hollow Brook and Owasco Inlet Monitoring Program and Owasco Lake Tributary Nitrate and Phosphorus Monitoring Program (see below).
- Cayuga County funded the Owasco Lake Watershed sampling program, which allowed some sampling that was lost due to lack of FOLLOWPA funds. Ten sites on Owasco Lake and its tributaries were sampled for fecal coliform, total phosphate and nitrate every two weeks from June 22nd to September 14th. The Owasco Watershed Lake Association, SWCD and the Owasco Lake Watershed Inspector collected the samples and the Cayuga County Planning Department distributed the results.



Cayuga County Water Quality Management Agency

2010 WQMA Priorities

- Cayuga County funded the operations and maintenance of the United States Geological Survey flow gage on the Owasco Inlet that was previously funded by FLOWPA funds until September 2010.
- The Cayuga County Environmental Health Division sampled six Owasco Lake bathing beaches and three Cayuga Lake bathing beaches during the summer for fecal coliform. In addition, the six bathing beach samples from Owasco Lake were also analyzed for phosphorus and nitrates as part of the County's Owasco Lake Watershed sampling program.
- The Owasco Lake Watershed Association (OWLA) provided funds to John Halfman from the Finger Lakes Institute to sample additional sites in Owasco Lake. OWLA and the Town of Fleming also provided funds for John Halfman to conduct tributary sampling of Dutch Hollow Brook, Fay's Creek, Young's Creek, Veness Brook and the Owasco Inlet.
- The Duck Lake Association sampled for coliform during the summer.

Additional Assistance Needed:

- Restore and release Finger Lakes Lake Ontario Protection Alliance (FLOWPA) funding and programs.
- Funding needed to conduct more monitoring including chemical, biological and macroinvertebrate sampling.



Cayuga County Water Quality Management Agency

2010 WQMA Priorities

Additional WQMA Priorities that were not included as priorities in the 2010 WQMA Work Plan but became priorities as the year progressed.

Asian Clam

Work conducted in 2010:

- Asian Clam was found in the fall in the north end of Owasco Lake and has been confirmed by the United States Geological Survey's (USGS) Nonindigenous Aquatic Species unit.
- Education:
 - Eco-Talk article in The Citizen by Amy Barra on October 29th: "Look for Asian clams in Owasco Lake."
 - Eco-Talk article in The Citizen by Jessica Miles on November 12th: "Looking out for Owasco Lake."
 - Asian clam information provided on WQMA website and Owasco Lake Watershed Network website.
 - Asian clam informational email from the Owasco Lake Watershed Inspector sent by Owasco Lake Watershed Network.
- Committee formed to develop sampling program for Asian clam for the spring of 2011.



Additional Assistance Needed:

- Funding needed for monitoring.
- Technical assistance needed for monitoring and possible control.
- Funding needed for education to prevent spread to other County lakes.
- Assistance from the public to survey for Asian clam in front of their homes.
- Assistance from the public to help keep the clam from moving to other lakes.

Cayuga County

Water Quality Management Agency

2010 WQMA Priorities

Blue Green Algae

Work conducted in 2010:

- The Cayuga County Environmental Health Division identified the presence of blue green algae in Owasco Lake in the fall during a large algae bloom.
- Cayuga County Environmental Health Division distributed a press release on blue green algae which is also available on the WQMA website.
- Additional information on blue green algae placed on WQMA website.
- Eco-Talk article in The Citizen by Jessica Miles on November 12th: “Looking out for Owasco Lake.”

Additional Assistance Needed:

- Funding needed to implement best management practices to reduce nutrient loading to County lakes.
- Funding needed for education to protect human and animal health.
- Funding needed to monitor to predict algae blooms.

Foam

Work conducted in 2010:

- Excessive amount of foam seen on Owasco Lake in the fall.
- Information on foam provided by Cayuga Lake Watershed Network placed on the WQMA website.
- Eco-Talk article in The Citizen by Jessica Miles on November 12th: “Looking out for Owasco Lake.”

Additional Assistance Needed:

- Funding needed for education.
- Funding needed for best management practices to reduce nutrient loading to County lakes.

2010 Other WQMA Projects and Programs

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

WQMA Long Term Initiatives

Develop a monitoring framework for Cayuga County.

- On hold until the Cayuga County Water Quality Strategy is completed.

Develop templates for stormwater and steep slope ordinances for Cayuga County municipalities and distribute to and educate planning boards.

- The Central New York Regional Planning and Development Board (CNYRPDB) presented “Stormwater Management Guidelines for Municipal Planning Boards” to the Cayuga County Planning Board in November.
- The Cayuga County Planning Department has templates for stormwater and steep slope ordinances.

Initiate the reanalysis of Owasco Lake level and options available.

- The Cayuga County Environmental Health Division contacted the New York State Department of Environmental Conservation (NYSDEC) and Army Corps of Engineers and a conference call was scheduled for January 2011 to discuss issues with lake level and if the Army Corps of Engineers will reopen their analysis to include water quality factors.

WQMA Administration

Administer WQMA including minutes, announcements, agendas, year-end reports, work plans, and other documents needed.

- Cayuga County Planning Department provides administration to the WQMA

Maintain the WQMA website.

- WQMA website maintained and updated monthly by Cayuga County Planning Department.

Write letters of support upon request.

- Letter of support to the Town of Owasco for their proposed Sewer District #3.
- Letter of support for the Finger Lakes Institute’s FY 2011 Federal Appropriations Request to Congressman Arcuri for the expansion of the “Finger Lakes Observing Systems (FLOS)” which would enable the Finger Lakes Institute to deploy buoys in the remaining Finger Lakes, including systems for Cayuga, Owasco and Skaneateles Lakes.
- Letter of support for the Onondaga, Cayuga, Wayne and Monroe Counties Soil and Water Conservation Districts request to Congressman Maffei for a Congressional funding for the project “Clean Waters of New York.”
- Letter of support for the Finger Lakes Lake Ontario Watershed Protection Alliance (FLOWPA) application for funding under the Great Lakes Restoration Initiative for a

Cayuga County Water Quality Management Agency

2010 Other WQMA Projects and Programs

project entitled “Combating Invasive Species: A Comprehensive Approach.” This project has been funded.

- Letter of support for Cornell Cooperative Extension of Cayuga County’s (CCE) grant application to the Cayuga Community Fund for the project “Water Quality Education Through Television Advertisement.”
- Letter of support and matching funds for the Finger Lakes Land Trust Great Lakes Restoration Initiative Joint Venture Habitat Restoration and Protection grant program for the “Owasco Flats Land Protection Project.”

Assist with Owasco Lake Day.

- WQMA Motion, February 4th: WQMA co-sponsor Owasco Lake Day.
- WQMA and Owasco Watershed Lake Association co-sponsored the Owasco Lake Day at Emerson Park in July.
- WQMA’s educational display at Owasco Lake Day included information on:
 - Pharmaceutical disposal
 - Open burning
 - Phase II Stormwater Rules and Regulations
 - Aquatic weeds
 - How to protect Owasco Lake
- Eco-Talk article in The Citizen by Irene Holak: “Central New York’s natural wonders enliven the senses.”
- WQMA Motion, September 4th: Co-sponsor Owasco Lake Day 2011.

Finger Lakes Lake Ontario Watershed Protection Alliance (FOLLOWPA) Funded Projects

During 2010, only \$18,750 of the \$85,000 from SFY 07-08 has been received. It was used as reimbursement for work conducted in 2009.

Administer FOLLOWPA funds including contracts, requests, budgeting, narratives and attend meetings as requested.

- Cayuga County Planning Department administers the FOLLOWPA Program.

Continue monitoring of Dutch Hollow Brook and Owasco Inlet.

- WQMA Motion, February 4th: WQMA to make a resolution to the County Legislature in support of the gage station.
- Cayuga County provided the funds for the operation and maintenance of the Owasco Inlet gage station until September 2010, which was supposed to be funded through the FOLLOWPA program.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

- Dutch Hollow Brook monitoring station is still taking level readings.
- No samples were taken in 2010 for this program due to lack of FLOWPA funding. Cayuga County provided some sampling funds for another program (see Monitoring section on page 32).

Continue the nutrient monitoring and education program which includes Owasco Lake tributary nitrate and phosphorus monitoring and Duck Lake phosphorus monitoring. Also includes the P-Project phosphorus education program.

- No monitoring through this program due to lack of FLOWPA funding. Cayuga County provided some sampling funds for another program. See Monitoring section on page 32 for other monitoring programs.
- The P-Project education program has continued even with the lack of FLOWPA funds.
- P-Project website maintained by Cayuga County Planning Department and CCE.
- Eco-Talk articles in The Citizen:
 - “Spring cleaning your lawn,” April 26th by Renee Jensen.
 - “Homeowner weeks offer tips on lawns, bug control,” July 30th by Irene Holak.
- CCE held a “Lawn Care Plans and Practices” class on August 9th and on August 18th.
- CCE held a “How-to’s of Composting and Demonstrations” class on August 11th and on August 19th.
- Cayuga County Soil and Water Conservation District (SWCD) has zero phosphorus fertilizer available for purchase. They provide funds for this program.
- Cayuga County Planning Department and CCE created information sheets and a display on phosphorus free products for Owasco Lake Day.

Continue to have Cayuga County certified inspectors conduct septic system inspections as required in the Cayuga County Sanitary Code.

- Work was conducted even though there was a lack of FLOWPA funding.
- Septic systems required to be inspected in 2010 under the Sanitary Code were those in Aurelius, Locke, Fleming (in Cayuga Lake Watershed), and lakefront property and property within 500 feet of Owasco Lake and Little Sodus Bay. 2200 inspections were conducted in 2010.

Continue to remove nuisance and invasive aquatic vegetation by mechanical harvesting.

- Work was conducted even though there was a lack of FLOWPA funding.
- SWCD mechanically harvested aquatic vegetation and removed 66 loads from Owasco Lake, 16 loads from Little Sodus Bay, 28 loads from Cayuga Lake, 5 loads from Otter Lake, and 2.5 loads from Lake Como. SWCD personnel found and removed one patch of rooted waterchestnut from Otter Lake and inspected the entire lake for more.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Conduct education on invasive species county-wide. Conduct hand pulling of water chestnut on Sterling Creek, Cross Lake and other waterbodies in Cayuga County as needed.

- Work was conducted even though there was a lack of FLOWPA funding.
- Cayuga County Planning Department and CCE maintain the “Weeds Watch Out!” website.
- Eco-Talk article in The Citizen by Irene Holak on June 4th: “Help watch out for weeds.”
- CCE held Weeds Watch Out! Training workshops on June 14th at Sterling Nature Center, June 18th at Emerson Park and June 19th at the CCE building.
- CCE and Cayuga County Planning Department conducted a water chestnut hand pull on Cross Lake on July 28th.

Other WQMA Projects

Agriculture

Assist in the development and review of Comprehensive Nutrient Management Plans and Agricultural Environmental Management (AEM) Plans for farms.

- SWCD wrote two new Comprehensive Nutrient Management Plans for farms in the Cayuga Lake and Seneca River watersheds.
- SWCD updated three Comprehensive Nutrient Management Plans for farms in the Lake Ontario, Seneca River and Owasco Lake watersheds.

Promote and assist in the implementation of best management practices (BMPs).

- Cayuga County Planning Department staff participated in the American Farmland Trust’s Owasco Lake Watershed Project, which seeks to identify the barriers to farmer participation in agricultural conservation BMPs and to recommend strategies for eliminating these barriers.
- SWCD worked with two farms that were identified in 2009 allowing manure to enter tributaries to Owasco Lake to begin to address these issues.
- The Owasco Lake Watershed Inspector identified three violations of the Owasco Lake Watershed Rules and Regulations relative to manure in the Owasco Lake Watershed. Two are abated and one is in process.

Encourage and assist farmers in participating in state and federal programs that relate to water quality and issues. Programs include PDR (purchase of development rights), Conservation Reserve Program (CRP), Conservation Reserve Enhancement Program (CREP), and GrazeNY.

- SWCD secured grants from the Agricultural Nonpoint Source Abatement and Control Program. The totals were \$223,526 for the Owasco Lake Watershed and \$70,746 for the Cayuga Lake Watershed. The money will be used for grazing systems and components, filter strips, and drainage.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

- Geoff Milz from the Cayuga County Planning Department worked as the project consultant to the Town of Cato as they developed an Agriculture & Farmland Protection Plan.
- SWCD performs conservation mowing throughout the year to assist landowners on the maintenance of their crop and Conservation Reserve Program lands. In 2010, the SWCD mowed 200+ acres of land.

Assist with hazardous waste and pesticide collection days for farms as funding is available.

- Three farms participated in the County's household hazardous waste collection event in Sennett on October 16th.

Continue with the development and use of technologies to deal with agricultural waste.

- SWCD received an additional \$6.3 million from the American Recovery and Reinvestment Act of 2009 for the Cayuga Regional Methane Digester. Construction is ongoing with completion date of May 2011.
- SWCD assisted in the construction of a 78,045 gallon manure storage facility in Aurelius in the Cayuga Lake Watershed that was built with Agricultural Nonpoint Source Abatement and Control Program funding.
- SWCD assisted in the construction of a 68,400 gallon manure storage facility in Brutus in the Seneca River Watershed that was built with Environmental Protection Agency and Agricultural Nonpoint Source Abatement and Control Program funding.
- SWCD is assisting with the construction of a 1.2 million gallon manure storage facility and a 48,000 gallon manure storage facility in the Seneca River Watershed funded by the Agricultural Nonpoint Source Abatement and Control Program.
- Farmers can participate in the Recycling Agricultural Plastics Program through the SWCD which has an agricultural plastics baler for their use.

Continue the Lake Friendly Farms program.

- The Cayuga Lake Watershed Network did not run this program in 2010.

Education

Provide education on water, water quality, watersheds, agriculture and related issues to schools, children and adults; including use of Project WET.

- WQMA members participated in a meeting at Institute for the Application of Geospacial Technologies, Inc. to discuss making a movie on Owasco Lake.
- CCE held a Renewable Energy Forum on March 20th.
- CCE education to children included:
 - Genesee Street Elementary School fifth graders learning about watersheds and doing a lesson from Project WET.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

- Owasco Elementary students learning about water quality and working on installation of a rain garden at Owasco Elementary.
- Boy Scouts learning about forestry.
- Public awareness campaign developed and launched by the Emerson Foundation, Cayuga County Planning Department, WQMA and the Owasco Lake Watershed Inspector. Includes lawn signs on phosphorus, yard waste, pet waste and bacterial issues.
- Eco-Talk articles in The Citizen:
 - “Resolving a burning issue,” April 26th by Renee Jensen.
 - “Burning leaves singes the environment,” October 22nd by Jessica Miles.
 - “Protecting our drinking water,” May 14th by Irene Holak.
 - “Make your own body products,” December 10th by Amy Barra.
- The Cayuga County Solid Waste Management Office sent open burning regulation education to towns and villages in Cayuga County.
- CCE and SWCD participated in Conservation Field Days in September held at Emerson Park. Over 500 6th grade students from seven schools attended.
- The SWCD participated in Envirothon in June. Two teams from Cayuga County participated in this regional event.
- The CNYRPDB published a 4-page stormwater awareness piece entitled “Residential Runoff: Slow it Down – Keep it Clean!” in the April 22, 2010 edition of the Post Standard.

Exotic, Invasive, Introduced and Nuisance Species Management

Continue existing County aquatic vegetation control program utilizing FLOWPA and County funds.

- SWCD mechanically harvested aquatic vegetation and removed 66 loads from Owasco Lake, 16 loads from Little Sodus Bay, 28 loads from Cayuga Lake, 5 loads from Otter Lake, and 2.5 loads from Lake Como with County funds.

Continue aquatic weed control program in Duck Lake including herbicide applications and use of harvester.

- The Duck Lake Association had a permit to treat 49 acres of milfoil this summer, but they did not need to.

Monitor, educate and attempt control of exotic, introduced and invasive species before they become established. Includes maintaining the Weeds Watch Out! Program website.

- Cayuga County Planning Department and CCE maintain the “Weeds Watch Out!” website.
- Eco-Talk article in The Citizen by Irene Holak on June 4th: “Help watch out for weeds.”

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

- CCE held Weeds Watch Out! Training workshops on June 14th at Sterling Nature Center, June 18th at Emerson Park and June 19th at the CCE building.
- CCE and Cayuga County Planning Department conducted a water chestnut hand pull on Cross Lake on July 28th.
- Cayuga County Planning Department assisted the Finger Lakes Institute in distributing their survey on water chestnut.

Participate in the CNY Water Chestnut Task Force and Finger Lakes Partnership for Regional Invasive Species Management (FL-PRISM).

- WQMA received announcements and information from the FL-PRISM.
- The CNYRPDB serves as chair of the FL-PRISM Aquatic Invasives sub-committee.

Miscellaneous

- WQMA submitted Water Resources Development Act (WRDA) Request Form for the SWCD's project entitled "Cayuga County Aquatic Vegetation Control and Navigation Improvement Project" to Senator Schumer and Senator Gillibrand.
- CCE submitted a grant application for funds for vinyl signs on invasive species.
- Letter of support for the FLOWPA application for funding under the Great Lakes Restoration Initiative for a project entitled "Combating Invasive Species: A Comprehensive Approach." This project has been funded.

Forestry

Provide forestry information and technical services for landowners.

- SWCD held its annual tree and shrub sale in April.

Provide the Trade-A-Tree Program.

- The Trade-A-Tree Program allows residents to bring their Christmas trees to the Natural Resource Center. SWCD chips them into mulch which is used for public works projects and is available to the public. In return, residents receive a voucher for a free tree. Event is funded by the Cayuga County Solid Waste Management Office and promoted by CCE.

Miscellaneous

- SWCD planted 3000 trees in the Seneca River Watershed and 1500 trees in the Skaneateles Lake Watershed.

Funding

Search for funding for the actions listed in this work plan.

- The WQMA has received a \$4,000 2009 NYSDEC Water Quality Improvement Projects (WQIP) grant to publish and distribute WQMA annual reports for 2010 and 2011.

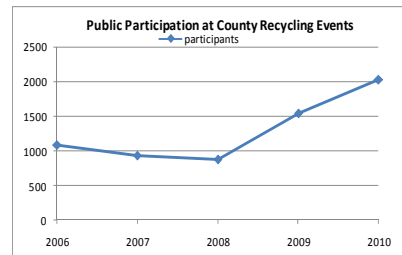
Cayuga County Water Quality Management Agency

2010 Other WQMA Projects and Programs

Hazardous Materials

Provide opportunities to reduce hazardous material in the County including household hazardous waste, tire, electronics and propane tank collections.

- The Cayuga County Solid Waste Management Office, Cayuga County Planning Department, CCE and SWCD provided opportunities to reduce hazardous materials in the County:
 - Electronics collection event in Scipio on May 1st with 164 participants.
 - Electronics collection event in Sennett on May 15th with over 800 participants.
 - Tire event in Sennett on June 12th collected 4,700 tires from 280 participants.
 - Electronics collection event in Sennett on September 18th with 346 participants.
 - Household hazardous waste collection event in Sennett on October 16th with 308 residential participants and three farms.
 - America Recycles Day collection event in Auburn on November 13th with 125 participants.
 - Total participation at County events topped 2000 for the first time ever.
- The Cayuga County Solid Waste Management Office coordinated a recycling event for obsolete electronics from downtown County agencies.
- CCE and Cayuga County Planning Department participate in a cellular phone recycling program and printer cartridge recycling program.



Provide information and education on reducing the use of hazardous materials, and the proper use and disposal of household chemicals and other hazardous material.

- Cayuga County Solid Waste Management Office, CCE and Cayuga County Planning Department maintain and update the Cayuga County Solid Waste Management Office website which includes information on the proper use and disposal of household chemicals and other hazardous materials.
- Cayuga County Solid Waste Management Office, CCE and Cayuga County Planning Department provide information in litter bags distributed during collection events.
- Cayuga County Solid Waste Management Office provided information about local medicine collection events to the towns and villages in Cayuga County.
- Eco-Talk article in The Citizen by Irene Holak on April 13th: “Spring cleaning leads to recycling.”
- Eco-Talk article in The Citizen by Amy Barra on September 17th: “Don’t butt in on nature.”

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Provide education on petroleum spill prevention and what to do in the event of a spill or a leak, especially in regards to boats.

- CCE has information on this subject.

Miscellaneous

- Cayuga County Planning Department continued to work on closing out of service petroleum tanks on County properties.
- Cayuga County Solid Waste Management Office, Cayuga County Planning Department and the City of Auburn worked the implementation/planning for the “City of Auburn and Cayuga County Comprehensive Sustainable Energy and Development Plan.”
- Wood Recycling: SWCD promotes a wood waste recycling program to minimize the amount of wood material entering landfills or being illegally burned. In 2010, SWCD worked with 8 municipalities in the County through the use of intergovernmental agreements, to provide the needed tub grinding services. Much of this mulch is then used in Animal Mortality Composting sites so farmers can safely dispose of dead animals on the farm.

Highway Maintenance

Continue hydroseeding assistance programs, use of structural controls, and other methods to reduce roadbank erosion and other issues caused by highways.

- SWCD has hydroseeding equipment that can be utilized by local municipalities and highway departments. To encourage the practice of hydroseeding, the SWCD performs the work for County, Town and Village governmental departments at cost. 5 acres were done in 2010.
- Provide bi-annual verbal report of SWCD activities to the Cayuga County Highway Superintendents Association.
- SWCD staff attended Cayuga County Highway meetings and gave verbal reports of SWCD activities to the Highway Superintendents.

Provide education to Highway Departments on stormwater issues and who to call if they find a problem.

- SWCD provided five contractor stormwater training classes with a total of 62 participants.

Miscellaneous

- The Cayuga County Highway Department created a policy for work done in the Skaneateles Lake Watershed to minimize erosion problems. They are currently working on a similar policy for the rest of Cayuga County.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Land Use

Educate planning boards about land use issues that affect water quality such as drainage, buffer zones, stormwater runoff, PDR, etc.

- The Cayuga County Planning Board, as part of their Land Use Training Series, held training sessions on:
 - “Land Use and Agriculture” in April.
 - “Planning for Mining, Oil and Gas” in July.
 - “239 I&m Review/E-Cayuga” in September.
 - “Stormwater Management Guidelines for Municipal Planning Boards” in November.
- The CNYRPDB worked with the Cayuga County Planning Department to provide the “Stormwater Management Guidelines for Municipal Planning Boards” in November.

Provide assistance to towns and villages to design, adopt and/or implement standards and guidelines; provide model ordinances, regulations, standards, and guidelines that protect water quality.

- CNYRPDB provides access to model stormwater and erosion ordinances, regulatory updates, and implementation/compliance guidelines through a regularly updated municipal stormwater website.

Develop comprehensive plans for County municipalities.

- Cayuga County Planning Department has provided assistance upon request to the Town of Genoa as they develop their comprehensive plan.
- Cayuga County Planning Department assisted the Town of Sterling and the Village of Fair Haven in the completion of their joint comprehensive plan.
- Another community that finished the comprehensive planning processes in 2010 was the Town of Summerhill.
- CNYRPDB assisted the Town of Niles in preparing a comprehensive plan which was adopted in January, 2010.
- CNYRPDB assisted the Town of Scipio in the completion of their comprehensive plan.
- CNYRPDB is assisting the Town of Victory as they develop their comprehensive plan.

Monitoring

Continue water sampling of County Lakes with the Citizens Statewide Lake Assessment Program (CSLAP).

- Duck Lake Association and Lake Como Association continued the CSLAP of their lakes in 2010.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Continue monitoring of Dutch Hollow Brook and Owasco Inlet.

- The FLOWPA funded monitoring program was discontinued due to lack of funding.
- Cayuga County provided funds for sampling of fecal coliform, total phosphate and nitrate from ten sites on Owasco Lake and its tributaries every two weeks from June 22nd to September 14th. The Owasco Watershed Lake Association, SWCD and the Owasco Lake Watershed Inspector collected the samples and Cayuga County Planning Department distributed the results. One of these sites was at the mouth of Dutch Hollow Brook.

Continue Owasco Lake tributary nitrate and phosphorus monitoring and Duck Lake phosphorus monitoring.

- The FLOWPA funded Owasco Lake tributary nitrate and phosphorus monitoring program and the Duck Lake phosphorus monitoring program were discontinued due to lack of funding.
- Cayuga County provided funds for sampling of fecal coliform, total phosphate and nitrate from ten sites on Owasco Lake and its tributaries every two weeks from June 22nd to September 14th. Owasco Watershed Lake Association, SWCD and the Owasco Lake Watershed Inspector collected the samples and Cayuga County Planning Department distributed the results. One of these sites was at the mouth of Dutch Hollow Brook, one was at the mouth of Sucker Brook and two were in the Owasco Inlet.

Continue work on the monitoring buoy for Owasco Lake with IAGT.

- Buoy is no longer in Owasco Lake.
- WQMA did support a Finger Lakes Institute grant proposal that included deployment of a new buoy in Owasco Lake, but it was unsuccessful.

Continue coliform monitoring of public bathing beaches.

- The Cayuga County Environmental Health Division samples six Owasco Lake bathing beaches and three Cayuga Lake bathing beaches every summer for fecal coliform. In addition samples were collected for phosphorus and nitrates on Owasco Lake as part of the County's Owasco Lake sampling program.

Continue coliform monitoring of County lakes.

- Cayuga County provided funds for sampling of fecal coliform, total phosphate and nitrate from ten sites on Owasco Lake and its tributaries every two weeks from June 22nd to September 14th. Owasco Watershed Lake Association, SWCD and the Owasco Lake Watershed Inspector collected the samples and the Cayuga County Planning Department distributed the results. Eight of these sites were on Owasco Lake.
- The Duck Lake Association monitors Duck Lake for coliform.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Nutrient Management

Provide education on nutrient management and reduction with the P-Project education program and website, as well as other educational materials.

- P-Project website maintained by the Cayuga County Planning Department and CCE.
- Eco-Talk article in The Citizen by Renee Jensen on April 26th: "Spring cleaning your lawn."
- Eco-Talk article in The Citizen by Irene Holak on July 30th: "Homeowner weeks offer tips on lawns, bug control."
- CCE presented "Lawn Care Plans and Practices" which was a one hour presentation on lawn care basics and a one hour questions and answers session on August 9th and August 18th at Cornell Cooperative Extension of Cayuga County.
- CCE presented "How-to's of Composting and Demonstrations" on August 11th and August 19th.

Encourage the use of and assist in the development of nutrient management plans for golf courses, developments, parks, etc.

- Nothing to report.

Miscellaneous

- The SWCD has zero phosphorus fertilizer available for purchase. They provide some funding for this program.

Private and Municipal Wastewater Treatment

Continue to implement the Cayuga County Sanitary Code and provide information to others as needed.

- Three day septic inspector certification training was held March 30th through April 1st. A one day re-certification training was held on March 29th.
- Septic systems required to be inspected in 2010 under the Sanitary Code were those in the Towns of Aurelius, Locke, Fleming (in Cayuga Lake Watershed), and lakefront properties and those within 500 feet of Owasco Lake and Little Sodus Bay.
- The Owasco Lake Watershed Inspector and Cayuga County Environmental Health Division worked together on septic system investigations in the Owasco Lake watershed.
- The Cayuga County Environmental Health Division reviews and approves all plans for new and repaired septic systems in Cayuga County.
- The Cayuga County Environmental Health Division works with residents to have failing septic systems repaired or replaced throughout the County.
- The Cayuga County Environmental Health Division identified 71 septic system violations (including failures, installation of unapproved systems, and use of existing septic

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

system for expanded or new home) within the County in 2010. All but 23 were abated by the end of the year.

Provide input to the NYSDEC regarding the on-going upgrade of the Groton Wastewater Treatment Plant and the development of Groton's new SPDES permit.

- Cayuga County Environmental Health Division and Cayuga County Planning Department track data from the Groton Wastewater Treatment Plant. Note, the upgraded Groton Waste Water Treatment Plant became operational on November 17, 2010.

Provide education on proper septic system and holding tank use and maintenance.

- The Cayuga County Environmental Health Division provides septic system maintenance folders/information to homeowners that install new septic systems.

Solid Waste Issues

Provide education on solid waste issues.

- Eco-Talk article in The Citizen by Irene Holak on May 28th: "Looking to unload some tires."

Conduct cleanup activities in the County.

- Canal cleanup organized by CCE held on April 17th in Montezuma.

Miscellaneous

- Cayuga County and the City of Auburn worked on a sustainable energy grant that included waste audits.
- The SWCD awarded \$200,000 grant from NYSDEC to purchase a bark blower. This piece of equipment will be able to recycle shredded wood wastes as mulch.

Stormwater and Sediment Control

Provide education and assistance on the Phase II Stormwater Rules & Regulations.

- The SWCD provided five contractor stormwater training classes with a total of 62 participants.
- The Cayuga County Planning Department provides information upon request and maintains a website on stormwater.
- The CNYRPDB provided the Stormwater Management Training Program.
- The CNYRPDB provided the program "Stormwater Management Guidelines for Municipal Planning Boards" to the Cayuga County Planning Board in November.
- The CNYRPDB maintains and regularly updates a dual website with stormwater information individually targeted for municipalities and for the general public.

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Provide information and education on methods and ways to reduce the quantity and improve the quality of stormwater.

- WQMA website offers information and education on stormwater.

Continue the Cayuga County Stormwater Management Projects Inspection and Monitoring Program (use of hydrolab).

- Nothing to report.

Assist the NYSDEC with their inspection program.

- The SWCD has a Certified Professional Erosion and Sediment Control (CPESC) who can provide technical assistance to contractors and developers. There is no longer any NYSDEC funding for inspection.

Miscellaneous

- The SWCD assisted Dickman's with, and constructed, their 2.3 million gallon nutrient and sediment pond and grassed waterway that were partially funded with Environmental Protection Agency funds.
- The SWCD made and sold rain barrels.
- The Owasco Lake Watershed Inspector works with homeowners to minimize erosion.

Streambank, Lakeshore and Stream Corridor Management

Conduct streambank stabilization work on tributary/tributaries to Owasco Lake and other waterbodies in Cayuga County.

- SWCD has been working with a landowner on a fluvial geomorphology management project in Locke on the Owasco Inlet.
- SWCD is working with property owners on the design of a fluvial geomorphology management and stream alignment project near Great Gully on Cayuga Lake.
- SWCD stabilized a bank on the Veness Brook in Fleming.

Continue to participate in the future work and management of the Owasco Flats and Owasco Inlet area.

- The Cayuga County Planning Department and Environmental Health Division worked on the Restoration Feasibility Report for the Owasco Inlet and Owasco Flats Restoration Project:
 - Draft report presented to the WQMA in January and a discussion on possible projects.
 - Final report available on the WQMA website.
 - Presented in September to the Cayuga County Legislative Planning and Economic

Cayuga County

Water Quality Management Agency

2010 Other WQMA Projects and Programs

Development Committee, Owasco Watershed Lake Association and WQMA.

- The Cayuga County Planning Department assisted with a Cayuga County \$750,000 grant application to the Environmental Facilities Corporation's Green Innovation Grant Program from the to conduct riparian buffering and wetland restoration on City of Auburn property in Owasco Flats.

Provide education and information for farmers and landowners about the importance of buffers adjacent to streambanks, lakeshore and other sensitive areas.

- The Cayuga County Planning Department and CCE maintain the "Green Thumbs for Blue Water: Landscaping for Healthy Streams and Lakes" website.

Miscellaneous

- The CNYRPDB received American Recovery and Reinvestment Act planning grant funds and are working with Parks to design a small bank stabilization project between the canoe launch and the Owasco Outlet in Emerson Park.

Waterborne Illness

Continue to enforce the Owasco Lake Watershed Rules and Regulations.

- Owasco Lake Watershed Inspector carried out inspections to find violations of the Owasco Lake Watershed Rules and Regulations. Cayuga County Environmental Health Division continues to take enforcement action against those that fail to comply with these Rules and Regulations.
- Cayuga County Environmental Health Division identified 18 septic violations (including failures, installation of unapproved systems, and use of existing septic system for expanded or new home) in the Owasco Lake Watershed in 2010. All but four were abated in 2010.

Continue coliform monitoring of public bathing beaches.

- Cayuga County Environmental Health staff sampled all permitted bathing beaches during the summer.
- Cayuga County Environmental Health provides information as requested to residents using untreated lake water as a drinking water source and encourages them to install a treatment system to disinfect and filter their drinking water
- Cayuga County Environmental Health provides educational materials on waterborne illnesses.

Cayuga County Parks will continue to monitor the activity of the geese. If they deem it necessary they will apply for a nuisance permit from the NYS DEC.

- Cayuga County Parks staff works to keep the geese out of the bathing beach area.

