Save the Rain

Second Quarterly Report 2014

April - June 2014

Joanne M. Mahoney
County Executive

Save the Rain
www.savetherain.us

ONONDAGA COUNTY DEPARTMENT OF WATER ENVIRONMENT PROTECTION

VISION

To be a respected leader in wastewater treatment, storm water management, and the protection of our environment using state-of-the-art, innovative technologies and sound scientific principles as our guide.

MISSION

To protect and improve the water environment of Onondaga County in a cost-effective manner ensuring the health and sustainability of our community and economy.

CORE VALUES

E*xcellence*
T*eamwork*
H*onesty*
I*nnovation*
C*ost-Effectiveness*
S*afety*

Save the Rain

Table of Contents

Report from Commissioner

Gray Projects Update

- **Progress of Projects Under Construction**
- **Fact Sheets**

Green Projects Update

- **Projects Summary**
- **Fact Sheets**

Green Improvement Fund Update

- **Green Improvement Fund Program Summary**
- **Fact Sheets**

Metro WWTP Phosphorus Projects/TMDL/Ambient Monitoring Program Update

- **Metro Phosphorus Optimization Project**
- **Metro Phosphorus Work Plan Project**
- **Onondaga Lake Water Quality Model**
- **Ambient Monitoring Program**
  - **Water Quality Sampling**
    - **Tributary Sampling**
    - **Tributary Bacteria Compliance Assessment**
    - **Onondaga Lake Sampling**
- **Biological Monitoring Program Sampling Summary**

Legislative/Regulatory/Media Update

- **Action Items for County Legislature**
- **Action Items for the Environmental Protection Committee**
- **Media Articles**

Financial Update

- **Contracts**
  - **New Contracts**
  - **Amendments to Existing Contracts**
  - **Change Orders**

- **Funding**
  - **State Bond Act Funds**
  - **Federal EPA Funds**

Federal Army Corps of Engineers Funds
EFC Loans

- **Onondaga County Lake Improvement Project**
  Fourth Stipulation of the ACJ
    Clinton/Lower MIS CSO Improvement
    Harbor Brook Drainage Basin CSO Abatement
    Midland CSO Abatement
    Sewer Separation of CSO Areas:
      022/038/040/045/046A/046B/047/048/050/051/053/054
    Save the Rain Education and Outreach Grant

Appendix

- **Project Payments**
- **Lake Improvement Project Status Report**
- **Federal and State Grants/Loans Approved and Received**
- **Chronology of Project Construction Starts**
- **Contractors for Construction Projects**
  - **Metro Treatment Plant**
  - **CSOs**
- **WEP Acronyms**

Project Progress

Report from Commissioner

Infrastructure systems, including wastewater infrastructure, are the backbone of our community's social and economic health. Wastewater infrastructure is a crucial ingredient to the long-term stability of commercial and industrial growth. This infrastructure dramatically reduces the impacts of humanity on the environment; clean water truly adds value to our quality of life. The infrastructure WEP builds will last for many decades. It is worth the investment.

Why my preamble? At this writing we are poised to close on $129,000,000 of financing with the New York State Environmental Facilities Corporation (EFC). Public financing for major capital improvements with long asset life is a smart, careful investment for the future. The EFC financing is scheduled to close on July 2, 2014, and this financing will fund the Clinton and Lower Harbor Brook storage projects as well as a number of green projects in the Clinton sewer shed. By financing through the EFC, we are financing at roughly one half of the market rate we would pay on debt service—even on Onondaga County's own AAA credit. The total savings due to the EFC rate are huge; nevertheless, impacts from this new debt service will be evident in the development and approval of sewer rates for 2015. **Our sincere thanks to EFC President Matt Driscoll and his team for helping us incorporate green infrastructure funding in the closing package. The EFC really did a super job helping us accomplish this financing.**

Also well worth noting is that this financing package also included $11,765,901 in American Recovery and Reinvestment Act (ARRA) stimulus funding. Essentially, this financing is the vehicle for full forgiveness—in other words a grant—on almost $12 million of work in ACJ compliance. Once again, I simply must comment that clean water infrastructure stimulus really makes sense. The US Department of Commerce estimates that each dollar spent in our industry yields $2.62 in economic output in other industries nationwide. Instead of borrowing $141 million, we are "only" borrowing $129 million, and the impact of that ARRA forgiveness helped to stabilize the local and national economy with an estimated $30.8 million in economic output from the stimulus alone. Hold on to your calculator—the entire work recently financed and the related stimulus funding would, therefore, equate to almost $370,000,000 in economic output. Funding sewer infrastructure repairs is not light work; the benefits to the environment and public health are considerable. At every opportunity the County is using grants and low interest loans to reduce the cost burden on ratepayers. In addition to improving health and the environment, these critical and required improvements rebuild neighborhoods and create jobs.

During the period covered by this report, WEP also had a very productive meeting with representatives of the DEC permit division and Region 7 of the DEC regarding **asset management**. Asset management is the term of art related to maintaining and extending the useful life of the considerable infrastructure owned by a utility. With thousands of miles of pipe; tens of thousands of manholes; hundreds of pump stations; six treatment plants; and several wet weather storage and treatment facilities, WEP must operate and maintain thousands of assets easily worth well over a billion dollars. Asset management tools help to prioritize scarce maintenance resources to critical infrastructure using risk-based decision making. The risk scoring weighs the likelihood of asset failure and the consequences of asset failure to determine overall asset risk rating. While we still have much to do in asset management, we were pleased to offer the DEC a better understanding of our program, and I believe they came away with a deeper appreciation of our considerable efforts in asset management. Asset management is more than software and data-driven decision making; it is also a complete culture change in the management of assets in an arena of increasingly scarce resources.

While not specifically related to the Amended Consent Judgment program, it is worth noting that new SPDES permits were recently issued for four of WEP's five satellite treatment plants. In each case the permits included additional regulatory mandates to further improve water quality. We just made application to the EPA for consideration for a grant to help with **integrated planning to better align the regulatory landscape of combined sewer, stormwater, and multiple pollutant discharge permits to establish overarching priorities and goals.** Similar to asset management—from a regulatory context—we have so much to accomplish; in the context of limited resources and the financial capability of the rate base, what are the priorities?

Respectfully Submitted,

Tom Rhoads P.E.
Commissioner

Mark your calendar for September 6, 2014 – the annual Save the Rain Clean Water Fair!

Featured attractions:

- Update on Onondaga County's nationally recognized "Save the Rain" program
- Learning more about Onondaga Lake's recovery and viewing wildlife from the Lake
- Hourly tours of the state-of-the-art Metropolitan Wastewater Treatment Plant
- Green infrastructure project tours – viewing a selection of 175+ green projects in Syracuse
- Equipment demonstrations and project displays
- Activities for the kids – including a bouncy house!
- Rain barrel workshops to learn how to use and maintain a rain barrel to help save the rain
- Rain barrel raffles, workshops, and sales
- Learning about potential career opportunities in the field of clean water

This year, Save the Rain is also partnering with Beaver Lake Nature Center to offer a free adult ticket to the Golden Harvest Festival to attendees of the Clean Water Fair!

Visit www.savetherain.us/2014-fair/ for full event details

GRAY PROJECTS UPDATE

Gray Project Update:

Clinton CSO Storage Facility Project (Construction Phase)

Several minor CSO events occurred at the Clinton CSO Storage Facility during the second quarter of 2014 as well as two large events. The large rainfall events occurred on May 16th and June 25th in the City of Syracuse. The Clinton Storage Facility functioned essentially as designed with the effluent pumps activating when the tank reached a preset level. The effluent pumps operated during each event as CSO continued to enter the storage system. The dewatering system pumped down the storage tank into the MIS for conveyance to and treatment at Metro. The large events continue to provide information for refinement of future operations. The contractor continued to work on miscellaneous final work items. Site restoration began on April 1, 2014 with closure of the temporary parking and the start of final grading. The surface green infrastructure is 99% complete and the parking lot paving began in June. The contractor will complete all surface restoration in the summer of 2014. In addition, the contractor remains onsite for the duration of the Performance Period as required in the Contract Documents.

CSO 063 Conveyance Project (Bidding Phase)

The Harbor Brook CSO 063 Conveyances Project is the final conveyance pipeline associated with the Lower Harbor Brook CSO Storage Facility. This connection will allow additional wastewater to be stored at the facility for eventual treatment at the Metropolitan Wastewater Treatment Plant.

The project includes: 1,020 linear feet (LF) of pile supported 48-inch RCP sewer pipe with 5 pile supported manholes within the access road along Harbor Brook; new pile supported structures along Harbor Brook including a CSO 063 outfall manhole, trash rack structure and outfall headwall; 156 LF of 48-inch DIP pipe jacking under the SBNY Railroad with sending and receiving pits; 1,920 LF of 60-inch RCP sewer pipe with 8 pre-cast manholes within Erie Boulevard West, the National Grid property and Emerson Avenue; a new CSO 063 regulator structure, Grit Chamber, and connection to the Emerson Trunk Sewer within Erie Boulevard West; and a new pre-cast manhole within Emerson Avenue connection the new sewer to the existing 48-inch combined sewer.

The County received bids on April 28, 2014 and Marcellus Construction, Inc. was the apparent low bidder with a bid of $5,365,007. The Onondaga County Division of Purchase issued the Letter of Intent to Award on June 12, 2014. The projected construction commencement date is July 2014 with a projected completion date of late summer 2015.

Lower Harbor Brook CSO Storage Facility Project (Construction Phase)

In the second quarter of 2014, two large events occurred on May 16th and June 25th along with numerous small events. The two large events filed the 5 million gallon Lower Harbor Brook Storage Tank and the system operated essentially as designed except for the odor control system, scheduled for commissioning in July. The facility pumped the captured flow from all events to the HBIS, which conveys flow to Metro for treatment. The site work is nearly complete including tree planting, bioretention basin, rain garden and porous pavement. Construction will be complete in July, but the Contractor will remain onsite for the duration of the Performance Period as required in the Contract Documents.

Project:	Clinton CSO Storage
Project Owner:	Onondaga County
Project Location:	Trolley Lot, Syracuse
Sewershed:	Clinton/Lower MIS
Technology:	Storage Facility
Capacity:	6 million gallons
CSO Capture:	114 million gal/yr
No. of CSOs Abated:	9
Completion Date:	12/ 31/13
Contract Amount:	$77,680,000
Bid Date:	7/14/11
Prime Contractor:	Jett Industries

FACT SHEET
Clinton CSO Storage Facility

Project Description: The Clinton CSO Storage Facility Project is a 6 million gallon combined sewer overflow storage facility, constructed under the parking area between the elevated rail tracks and Onondaga Creek just south of the Armory Square area of downtown Syracuse (formerly known as the Trolley Lot). During wet weather events, the facility's three, parallel 18-foot diameter, underground storage tunnels capture flow from 9 combined sewer overflows (CSOs) in the vicinity of the Trolley Lot. The wastewater is stored in the tunnels until it can be conveyed via the Main Interceptor Sewer (MIS) to the Syracuse Metropolitan Sewage Treatment Plant (Metro) for treatment. The off-site conveyance piping, which will transmit the flow to the facility, was installed under the Clinton CSO Phase 1 and 2A conveyances projects completed in 2009. There is additional onsite conveyance piping installed under this project to connect the existing sewers to the new facility. In addition to the tunnels, there are two above ground structures located at either end (east and west) of the parking lot which provide access to the tunnels and house the pumping, grit collection and odor control facilities.

Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the entire site that measures approximately 275,000 square feet or 6.3 acres will be managed by green infrastructure. The stormwater from the area surrounding the main structure on the western half of the site will be collected by a series of catch basins and stormwater piping that will outfall into two bioretention basins. The bioretention basins will allow the stormwater to infiltrate into the ground rather than immediately runoff to the creek. In addition, stormwater runoff from the eastern half of the project site, to be restored as a parking area, will be directed to a subsurface collection facility and used to flush the storage tunnels to clear them of grit and debris that may have settled or been left behind after the stored combined sewage was transmitted to Metro. In addition, a green roof will be installed on the west building.

Construction Update: Several minor CSO events occurred at the Clinton CSO Storage Facility during the second quarter of 2014 as well as two large events. The large rainfall events occurred on May 16th and June 25th in the City of Syracuse. The Clinton Storage Facility functioned essentially as designed with the effluent pumps activating when the tank reached a preset level. The effluent pumps operated during each event as CSO continued to enter the storage system. The dewatering system pumped down the storage tank into the MIS for conveyance to and treatment at Metro. The large events continue to provide information for refinement of future operations. The contractor continued to work on miscellaneous final work items. Site restoration began on April 1, 2014 with closure of the

temporary parking and the start of final grading. The surface green infrastructure is 99% complete and the parking lot paving began in June. The contractor will complete all surface restoration in the summer of 2014. In addition, the contractor remains onsite for the duration of the Performance Period as required in the Contract Documents.

Project:	CSO 063 Conveyances
Project Owner:	Onondaga County
Project Location:	Harbor Brook, Erie Blvd. W.
Sewershed:	Harbor Brook
No. of CSOs Abated:	1
Completion Date:	September 1, 2015 (projected)
Contract Amount:	TBD
Bid Date:	April 28, 2014
Prime Contractor:	TBD

FACT SHEET
Harbor Brook CSO 063 Conveyances Project

Project Description: The Harbor Brook CSO 063 Conveyances Project is the final conveyance pipeline associated with the Lower Harbor Brook CSO Storage Facility. This connection will allow additional wastewater to be stored at the facility for eventual treatment at the Metropolitan Wastewater Treatment Plant. The new project, Contract No. 5, consists of the following:

- 1,020 linear feet (LF) of pile supported 48-inch RCP sewer pipe with 5 pile supported manholes within the access road along Harbor Brook
- New pile supported structures along Harbor Brook including a CSO 063 outfall manhole, trash rack structure and outfall headwall
- 156 LF of 48-inch DIP pipe jacking under the SBNY Railroad with sending and receiving pits
- 1,920 LF of 60-inch RCP sewer pipe with 8 pre-cast manholes within Erie Boulevard West, the National Grid property and Emerson Avenue.
- A new CSO 063 regulator structure, Grit Chamber, and connection to the Emerson Trunk Sewer within Erie Boulevard West
- A new pre-cast manhole within Emerson Avenue connection the new sewer to the existing 48-inch combined sewer

Location and routing of the CSO 063 Conveyances Project along Harbor Brook and Erie Blvd. West near Hiawatha Blvd. West (bottom of picture)

In addition, as part of the County's floatable control program, approximately 90 catch basins in CSO Area 063 need new hoods for oil and debris limitations. There are also provisions for catch basin cleaning, rehabilitation or replacement, if necessary.

The County received bids on April 28, 2014 and Marcellus Construction, Inc. was the apparent low bidder with a bid of $5,365,007. The Onondaga County Division of Purchase issued the Letter of Intent to Award on June 12, 2014. The projected construction commencement date is July 2014 with a projected completion date of late summer 2015.

Save The Rain Clean The Lake
Joanne M. Mahoney
County Executive

FACT SHEET
Lower Harbor Brook CSO Storage and Conveyances Project

Project:	LHB CSO Conveyances & Storage
Project Owner:	Onondaga County
Project Location:	State Fair Blvd, Syracuse
Sewershed:	Harbor Brook
Technology:	Underground Tank
Capacity:	4.9 million gallons
CSO Capture:	55 million gal/yr
No. of CSOs Abated:	3
Completion Date:	12/31/13
Contract Amount:	Conveyances – $4,147,888 Storage – $25,039,101
Bid Date:	Conveyances – 8/30/11 Storage – 10/18/11
Prime Contractor:	Conveyances – J.J. Lane Storage – C.O. Falter

Project Description: The Lower Harbor Brook CSO Conveyances and Storage Facility Project is a 4.9 million gallon combined sewer overflow storage facility that is located on County owned property on State Fair Boulevard between Hiawatha Blvd. and West Genesee Street in the City of Syracuse. The facility currently captures and stores the overflows from CSOs 003 and 004 for up to the 1-year, 2-hour design storm event. After the storm subsides, the contents of the storage tank are pumped to the Harbor Brook Interceptor Sewer for conveyance to the Metropolitan Treatment Plant (Metro) for full treatment. The project also includes construction of CSO conveyance pipelines on State Fair Blvd. and Hiawatha Blvd. to convey combined sewage from the overflow pipes to the storage tanks during rainfall and snowmelt events. Floatables and grit removal are included in this facility. The design incorporated odor control provisions into the facility and the tank is completely enclosed. Additionally the storage tank will receive flow from CSO 063 when the County completes construction of pipeline from Erie Blvd. and Emerson Ave. in 2015.

Greening the Gray, LHB

Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the rooftops of the storage tank and controls building will be stored within the CSO storage tank and used for a second and third cleaning flush of the tank. This water will ultimately be treated at Metro eliminating the need for this stormwater to be treated on-site. The stormwater storage is designed to capture the 100-year storm (5.2 inches) from the tank and the control building rooftop.

Accepting flow during wet weather

Save the Rain

Project Update: In the second quarter of 2014, two large events occurred on May 16 and June 25, along with numerous small events. The two large events filed the 5 million gallon Lower Harbor Brook Storage Tank and the system operated essentially as designed except for the odor control system, scheduled for commissioning in July. The facility pumped the captured flow from all events to the HBIS, which conveys flow to Metro for treatment. The site work is nearly complete including tree planting, bioretention basin, rain garden and porous pavement. Construction will be complete in July, but the Contractor will remain onsite for the duration of the Performance Period as required in the Contract Documents.

Lower Harbor Brook CSO Storage Facility – Construction Progress Photos

GREEN PROJECTS UPDATE

Green Project Update

As we enter the summer season, the Save the Rain program continues to develop green infrastructure projects throughout the City of Syracuse.

The East Washington Street Green Corridor project was completed in late spring. The project provided a total transformation of the corridor and included the installation of porous pavers, underground infiltration trenches, bioswales and enhanced landscaping. The East Washington Street project received grant funding through the New York State Green Innovations Grant Program (GIGP).

Construction continues on Phases II & III of the Connective Corridor through W. Jefferson Street from Forman Park to West Street. The project incorporates several green infrastructure features along the corridor including underground infiltration, porous pavers, and bioretention with enhanced tree plantings that will capture an estimated 10.9 million gallons of stormwater annually.

This summer, construction will begin on two vacant lot projects next to Hughes Magnet School. The vacant lots will be redeveloped with the installation of a rain garden with enhanced tree trenches to capture stormwater from a portion of the school roof and adjacent parking lot. Additionally, the school has agreed to assume the long term maintenance care of the redeveloped lots. In total, the project will capture an estimated 725,000 gallons of stormwater annually.

Construction will also begin this summer on capital improvements at Comfort Tyler Park in the Outer Comstock neighborhood. As part of the capital improvements, a network of green infrastructure will be installed to manage stormwater at the park. Green enhancements will include: two rain garden systems, tree plantings, pavement removal and added green space. Additionally, the basketball court at Comfort Tyler Park will be replaced with a porous asphalt court in collaboration with the Courts 4 Kids Program of the Jim & Juli Boeheim and Carmelo K. Anthony foundations. Courts 4 Kids previously collaborated with the Save the Rain program and City of Syracuse Parks Department on renovations at Skiddy Park, Leavenworth/Barker Park and Lewis Park. In total, the Comfort Tyler Park project will capture an estimated 800,000 gallons of stormwater annually.

Since 2010, Onondaga County has advanced over 150 green infrastructure projects as part of the Save the Rain program. With dozens of projects completed throughout the watershed, the County now turns its focus to a more strategic selection of green infrastructure projects. Specific target areas for the placement of green infrastructure projects will provide the most effective approach to meeting ACJ requirements.

The new selection process will be facilitated by the new Green Planning Committee (GPC). The purpose of the GPC is to provide a framework to identify and facilitate the development of future green infrastructure projects. The GPC will focus the installation of GI projects in target CSO areas where additional stormwater mitigation is needed. The committee will also provide guidance on community culture and help identify community partners in targeted areas. GPC members include: a representative from the County Legislature, a representative from the City of Syracuse, a community representative and staff from the green infrastructure program management team. The committee held a launch meeting in late spring and will meet regularly to develop a comprehensive list of GI projects in target sewersheds for the 2015 construction season.

Green Planning Committee Launch Meeting

April 29, 2014

Meeting Agenda

- Role of the Green Planning Committee (GPC)
- Committee Process
- 2014 Green Infrastructure Project Planning
- Project Metrics

Onondaga County Executive
Joanne M. Mahoney
Save the Rain
www.savetherain.us

Green Planning Committee

Committee Overview

The Green Planning Committee (GPC) has been established to provide a framework to identify and facilitate the development of future green infrastructure projects.

Onondaga County Executive
Joanne M. Mahoney
Save the Rain
www.savetherain.us

Green Planning Committee

Committee Role

The Green Planning Committee (GPC) will identify and support the selection of potential GI projects in targeted communities throughout the City of Syracuse. The GPC will be tasked with providing guidance in the development of green infrastructure projects including:

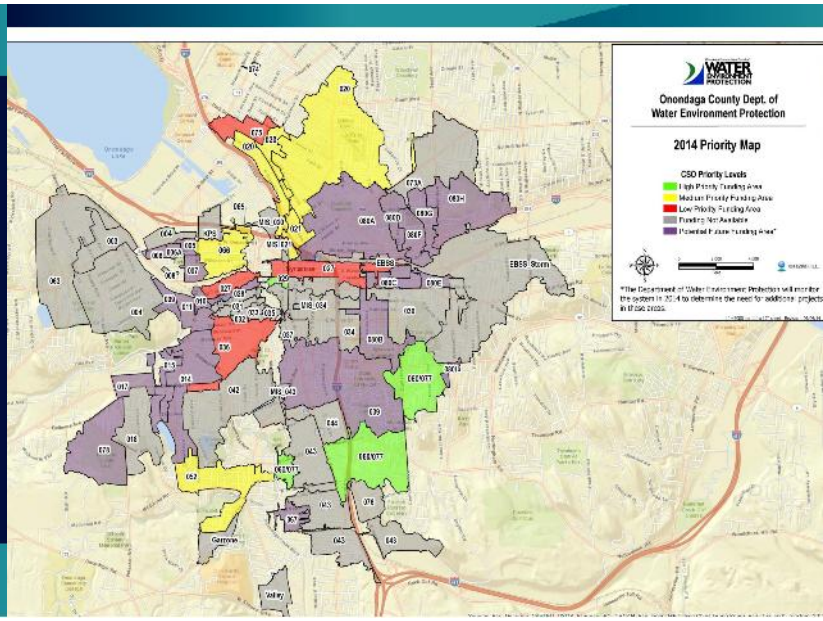
- Developing potential project ideas
- Providing guidance on community culture and nuance
- Identifying and working with community leaders to foster cooperation and feedback

Onondaga County Executive
Joanne M. Mahoney
Save the Rain
www.savetherain.us

Green Planning Committee

Committee Process

- The GPC will meet regularly to review potential project opportunities based on the Stormwater Management Model (SWMM).
- The GPC will provide recommendations to OCDWEP and the GI Program Manager on potential green infrastructure projects.
- OCDWEP and the GI Program Manager will work with the Green Design Committee on implementation of recommended GI projects..



2014 Green Infrastructure Program

Priority Focus:

- 060
- 077
- 029

Green Infrastructure Program Budget Update

2014 Green Infrastructure Program

Priority Focus:

- 060 (Midland)
- 077 (Midland)

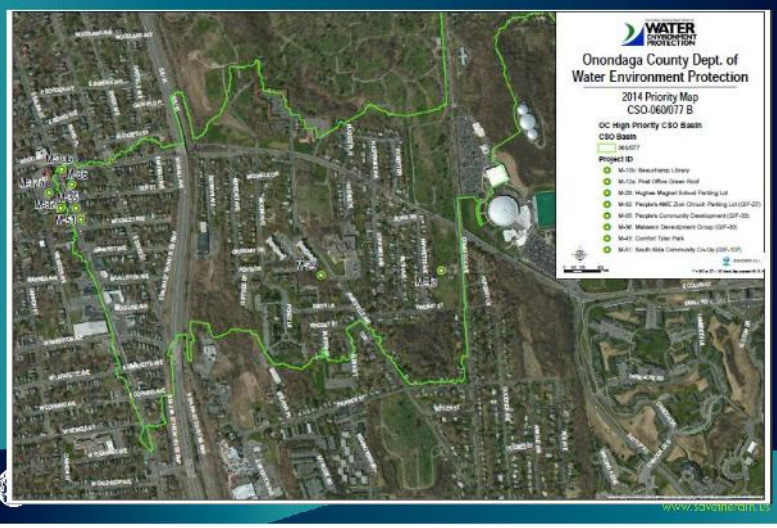
Combine to discharge 41.7 MG over 57 events/year

- 029 (Clinton/Lower MIS) Discharges 10.6 MG over 42 events/year

Priority Sewershed - CSO 029

Priority Sewershed - CSO 060/077 (A)

Priority Sewershed - CSO 060/077 (B)



Priority Sewershed - CSO 060/077 (C)

2014 Green Infrastructure Program

Efficiency Metrics:

- Green Streets: $0.50 per gallon stormwater runoff
- Vacant Lots: $0.45/gal runoff
- Parks: $0.40/gal runoff

Combined Metric: $0.45/gal runoff

Questions?

Please visit our website: www.SaveTheRain.us

Follow @SaveTheRainUS on Twitter &
Like Onondaga County Save the Rain on Facebook
https://www.facebook.com/savetherainus

Onondaga County Executive
Joanne M. Mahoney
Save the Rain
www.savetherain.us

FACT SHEET
Comfort Tyler Park

Project:	Comfort-Tyler Park
Project Owner:	City of Syracuse Parks Dept.
Project Location:	1212-14 E Colvin St and Comstock Ave
Sewershed:	Midland
CSO:	060/077
GI Technology:	Bioretention, Bioswale, Porous Asphalt Basketball Court
Capture Area:	38,300 sq. ft.
Run-off Reduction:	982,000 gal/yr
Year Contracted:	2014
Bid Price:	$584,603.09
Contractors:	D.E. Tarolli, J&J Landscaping

Project Description: The Comfort Tyler Park project will continue to showcase the partnership of the Save the Rain Program with the City of Syracuse Parks Department and the Jim and Juli Boeheim Foundation's Courts 4 Kids Program. Along with the green infrastructure installation, capital improvements will be made within the Park which are being funded by the Parks Department.

The green infrastructure portions of this project include a bioretention area at the northeast corner of the park. This bioretention area will capture runoff from both Comstock Avenue and East Colvin Street, and is very similar to the bioretention areas installed at Pass Arboretum, the Rosamond Gifford Zoo Entrance and Barker Park.

The existing basketball court will also be replaced with a porous asphalt court – the fourth basketball court to be converted to porous pavement in partnership with the Courts 4 Kids Program.

Finally, an infiltration trench and bioswale will be constructed along Vincent Street at the south end of the Park. This system will capture stormwater runoff from Vincent Street and will also provide a defined curb line that limits the illegal parking that commonly occurs in this area.

These green infrastructure elements will capture runoff from within the Park as well as from adjacent streets, totaling approximately 982,000 gallons of stormwater capture annually. The project is slated to start in August of 2014 with an anticipated completion by the end of the construction season.

Existing Site Conditions at the North End of Comfort-Tyler Park

Conceptual Rendering of Bioretention Area to be Installed at the North End of Comfort-Tyler Park

FACT SHEET
Connective Corridor: Phase 2/3

Project:	Connective Corridor – Phases 2 and 3
Project Owner:	City of Syracuse
Project Location:	East Genesee St. from Forman Ave. to State St. and West Fayette St. from Townsend St. to West St.
Sewershed:	Clinton/Lower MIS
CSO:	026, 027, 029, 030
GI Technology:	Green Street
Capture Area:	623,000 sq. ft.
Run-off Reduction:	10,975,000 gal/yr
Year Contracted:	2013
Bid Cost:	$973,255 (Green Infrastructure Cost)
Prime Contractor:	Barrett Paving Materials

Project Description: Phases 2 and 3 of the Connective Corridor are scheduled to be constructed throughout 2014 and 2015. The project exemplifies the continued partnership of Onondaga County with the City of Syracuse and Syracuse University. The green infrastructure installed in this project includes porous pavers parking lanes and snow storage areas, tree pits, and underground infiltration trenches. Also included in the project is the manufactured treatment device, installed in the spring of 2014, providing water quality treatment for the West Fayette Street Sewer Separation project that was completed in 2013.

The green infrastructure installed on Phases 2 and 3 of the Connective Corridor captures runoff from streets, adjacent hardscapes and upstream areas; a total of 623,000 square feet of drainage area. This equates to an estimated 10,975,000 gallons of stormwater capture annually, making this one of the largest projects in the Save the Rain Program to date.

These final two phases will complete the Connective Corridor. Phase 1 and Forman Park included similar green infrastructure and were constructed from 2011 to 2013. Upon completion, the Corridor as a whole will provide significant runoff reduction for the Save the Rain Program and also create a valuable link between the Downtown and University communities. When complete, the three phases of the Connective Corridor will capture an estimated 26 million gallons of stormwater each year.

Manufactured Treatment Device Installed Spring 2014

Porous Paver Parking Lane and Snow Storage Area on E. Genesee St at Firefighters Memorial Park

FACT SHEET
East Washington Street Green Corridor

Project:	E. Washington St. Green Corridor
Project Owner:	City of Syracuse
Project Location:	E. Washington St., Between Almond St. and Forman Ave.
Sewershed:	Clinton/Lower MIS
CSO:	027
GI Technology:	Green Street (Porous Pavers, Bioswale)
Capture Area:	76,900 sq. ft.
Runoff Reduction:	933,000 gal/yr
Year Contracted:	2013
Bid Date:	05/28/13
Construction Cost:	$710,162
Prime Contractor:	ACTS II Construction

Project Description: The East Washington Street Green Corridor project is a comprehensive green street application located on East Washington Street, between Almond Street and Forman Avenue, adjacent to the Syracuse University Center of Excellence. Several green infrastructure elements were installed that capture stormwater and enhance the urban landscape.

The project included the construction of an underground infiltration trench, a dedicated parking lane constructed with interlocking, concrete porous pavers, and bioswales along both sides of the street to capture stormwater and reduce combined sewer overflows. In addition to these beneficial green infrastructure items, the entire streetscape has been retrofitted with new sidewalks and pedestrian crossings. The City of Syracuse and Onondaga County partnered to reconstruct East Washington Street along the project limits in the spring of 2014.

Runoff from approximately 76,900 square feet of impervious area is captured by this green infrastructure project, reducing annual stormwater runoff by approximately 933,000 gallons.

This is the fourth Save the Rain project to be funded in part by the New York State Environmental Facilities Corporation through their Green Innovation Grant Program (GIGP). It joins the Rain Barrel Program, the Cistern System at the War Memorial, and the I-690 Downspout Disconnection project as past and present projects with GIGP funding.

Completed Bioswale on the North Side of E. Washington Street

Interlocking Porous Paver Parking Lane and Bioswale on Southern Side of E. Washington Street

Save The Rain Clean The Lake
Joanne M. Mahoney
County Executive

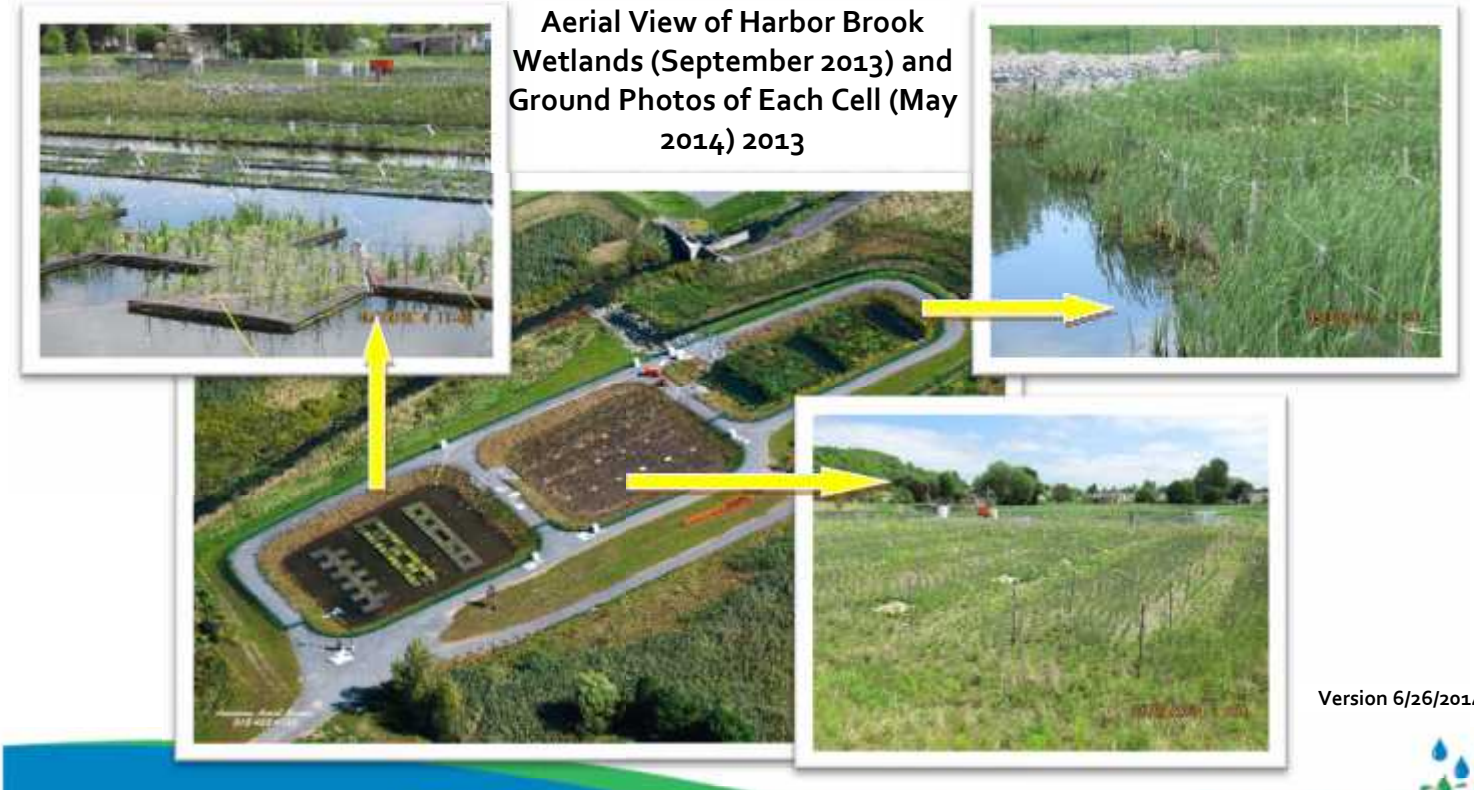
FACT SHEET
Harbor Brook CSO 018 Constructed Wetlands Pilot Treatment System

Project:	Harbor Brook CSO 018 Constructed Wetlands Pilot Treatment System
Project Owner:	Onondaga County
Project Location:	Velasko Road & Grand Avenue
Sewershed:	Harbor Brook
CSO:	018
GI Technology:	Constructed Wetland
Capture Area:	1,966,000 sq. ft.
Run-off Reduction:	14,880,000 gal/yr
Year Contracted:	2012
Bid Date:	7/25/12
Constructed Cost:	$4,519,790.65
Prime Contractors:	Compensatory Storage – AJ Montclair General Construction – JJ Lane Electrical – Patricia Electric

Project Description: The Harbor Brook CSO 018 Constructed Wetlands Pilot Treatment System will serve dual purposes of treating overflows from CSO 018, currently discharged into Harbor Brook, while also acting as a demonstration project to test the effectiveness of three types of constructed wetland treatment systems (floating wetland island, vertical downflow and surface water treatment wetlands). In 2011, the Compensatory Storage portion of the work was completed. Construction of the pilot wetlands treatment system began in 2012, and it will be operational in 2014.

Based on the knowledge gained from this pilot project, these wetland systems may be integrated as part of a larger constructed wetland treatment system along Harbor Brook with additional water quality, natural habitat, recreational, educational benefits. The project is located within the approximately 34 contiguous acres of Onondaga County-owned land known as the Velasko Road Detention Basin. This constructed wetland pilot project will capture and treat approximately 14.9 million gallons of combined sewage each year and substantially improve the quality of the stormwater discharge into Harbor Brook.

Aerial View of Harbor Brook Wetlands (September 2013) and Ground Photos of Each Cell (May 2014) 2013



Version 6/26/2014

Save the Rain

FACT SHEET

Vacant Lots at Hughes Magnet School

Project:	Hughes Magnet School Vacant Lots
Project Owner:	City of Syracuse, SCSD
Project Location:	Vacant Lots at 147 Hughes Pl. and 220 Lorraine Ave.
Sewershed:	Midland
CSO:	060/077
GI Technology:	Bioretention, Vegetated Infiltration Bed, Tree Trench
Capture Area:	23,700 sq. ft.
Run-off Reduction:	1,106,000 gal/yr
Year Contracted:	2014
Bid Price:	$250,248.50
Contractors:	D.E. Tarolli, J&J Landscaping

Project Description: This project will be the third Save the Rain project at the Hughes Magnet School, and the fifth and sixth Save the Rain Vacant Lot projects constructed to date. Previously, a new porous asphalt parking lot and tree planting projects were completed at the school in 2011 and 2012. A unique facet of this project is that the two vacant lot parcels (147 Hughes Place and 220 Lorraine Avenue) are located directly adjacent to Hughes Magnet School and are used by the school on a daily basis.

The green infrastructure technologies included with this project include a bioretention area, a vegetated infiltration bed system, and an enhanced tree trench. The bioretention area is located on the vacant lot parcel at 147 Hughes Place, and in conjunction with the underground infiltration bed adjacent to the school, is designed to capture stormwater from the northern half of the building roof and the adjacent parking lot. The bioretention area will be planted with native vegetation and it will serve as an educational site for students at the school.

The tree trench on the vacant lot parcel at 220 Lorrain Ave will capture runoff from the adjacent street and greenspace surrounding the school.

In total, these green infrastructure elements will capture approximately 1.1 million gallons of stormwater annually. Upon completion of the project in the summer of 2014, all of the stormwater runoff from impervious surfaces at the school will be captured by green infrastructure.

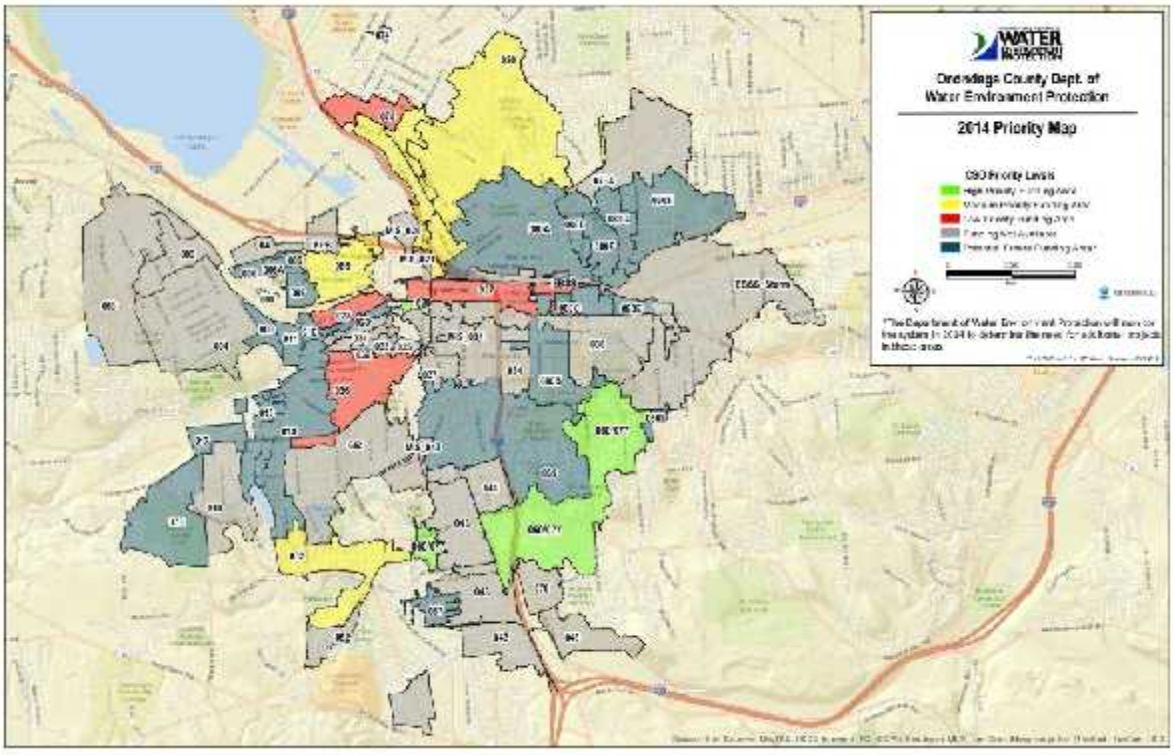
147 Hughes Place Vacant Lot Existing Conditions (Hughes Magnet School in Background)

220 Lorraine Ave. Vacant Lot Existing Conditions

GREEN IMPROVEMENT FUND

Green Improvement Fund Update:

Onondaga County announced the reopening of the 2014 Green Improvement Fund program application period in May 2014. The application period began on May 15 and will close on December 5, 2014. The application information included the release of a new program boundary map that outlines revised funding areas in the city (as seen in the image below).



In addition to the new application information, several GIF projects continue to be completed. GIF projects at Pike Block and Van Keuren Square were completed this spring. Projects at Bethany Baptist Church and Onondaga Commons are currently under construction with anticipated completion in early autumn.

Green Improvement Fund Summary (as of 06/30/14)

Total Applications Received	**130**
Projects Completed	59
Contract/Implementation Phase	42
Projects in Award Phase	0
Applications Under Review	4
Inactive/Ineligible	25

Save the Rain
Green Improvement Fund
Public Meeting

May 8, 2014

Meeting Agenda

- Save the Rain program overview
- Green Improvement Fund program summary
- Impact of SWMM on GIF program
- 2014 modifications to Green Improvement Fund Program
- Follow-up items

Save the Rain Program Overview

Onondaga County Save the Rain Program

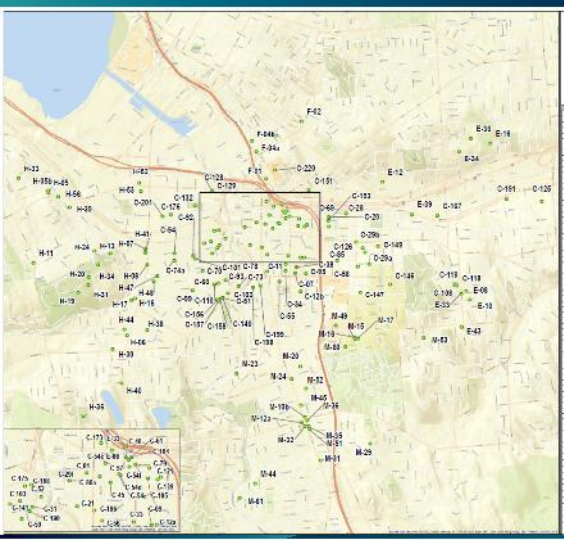
- 150 individual public and private GI projects completed-to -date
- Over 100 million gallons of stormwater captured
- Signature Projects
  - Civic Strip (OnCenter, War Memorial, Water Street, etc.)
  - HB Treatment Wetland
  - Rosamond Gifford Zoo (5 projects)
  - Connective Corridor
  - Vacant Lot Projects
  - Collaboration with City Parks

OnCenter Green Roof

Gray Projects:

- Harbor Brook Interceptor
- Midland Conveyance (CSO 044)
- Erie Boulevard Storage System Gate Improvements
- Clinton Storage Facility / Conveyances
- Lower Harbor Brook Storage Facility / Conveyances
- Sewer Separation projects

Green Project Locations



Save the Rain Program

- "Project 50" Campaign (2011)
- Regional/National Recognition
  - US EPA
  - NRDC Rooftop-to-Rivers Feature City
  - US Water Prize
  - Bloomberg Businessweek
- Public Engagement
- Community Partnerships
- Strategic Approach

Green Improvement Fund (GIF)

Green Improvement Fund

GIF Program

The Green Improvement Fund (GIF) is a grant program developed by Onondaga County to incentivize the development of green infrastructure stormwater mitigation techniques on private property

Green Improvement Fund

Program Evolution

- GIF 1.0 (March 2010)
- GIF 2.0 (June 2011)
- GIF 3.0 (July 2012)
- GIF 4.0 (June 2013)
  - New program boundary based on updated SWMM
  - Funding tiers within program boundary
  - GIF award calculator available to public

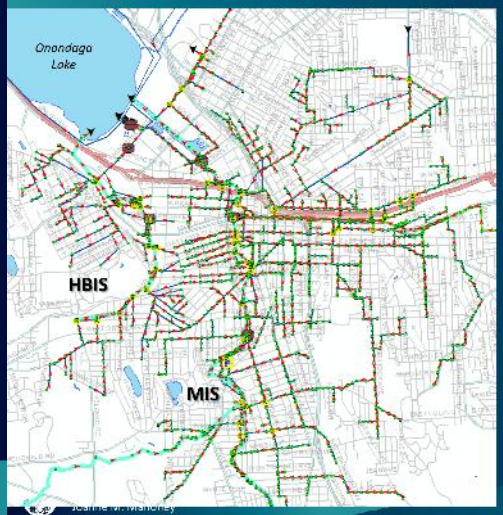
Green Improvement Fund

Program Highlights

- 130 Applications Submitted to Date
- 59 Projects Completed
  - ❖23 Completed in 2013
- 42 projects awarded grant status currently in progress
- 7 applications currently being reviewed and finalized
  - ❖22 applications failed to receive grant funding due largely to not being able to meet eligibility requirements or applicants deciding not to move forward with projects
- Estimated annual stormwater capture for completed projects: 24.5 Million Gallons

Stormwater Management Model (SWMM)

SWMM Analysis



- **SWMM is not only a tool for regulatory compliance, but it is also used for planning and system optimization**
- **SWMM results have shown that the County is complying with ACJ milestones and the GIF is a key component of the program's success**

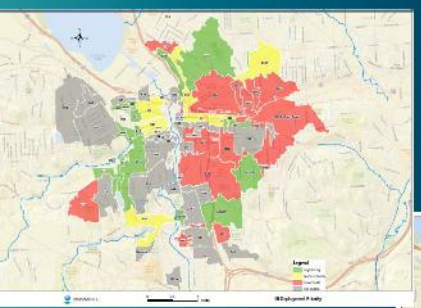
2012 & 2013 SWMM Update

- Incorporated weir survey elevation data
- Incorporated 2010-2013 green infrastructure projects
- Calibrated model using 2012 -13 flow monitoring data
- Minor Combined Sewer Catchment Boundary Adjustments Based On Field Data
- Added: Clinton Storage Facility (6.5 MG), Lower Harbor Brook Storage (4.9 MG), Metro New Screen and Grit flow control improvement project
- Trees were added as Green Infrastructure
- Coordinated 3rd party review and incorporated comments
- Identified priority GI project areas for 2013 focus

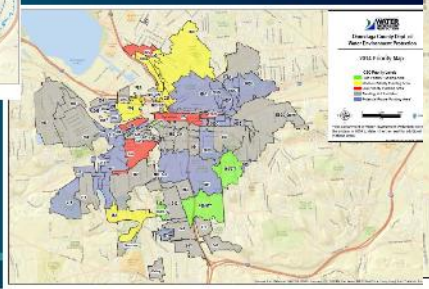
Save the Rain
Green Improvement Fund
2014

Onondaga County Executive
Joanne M. Mahoney
Save the Rain

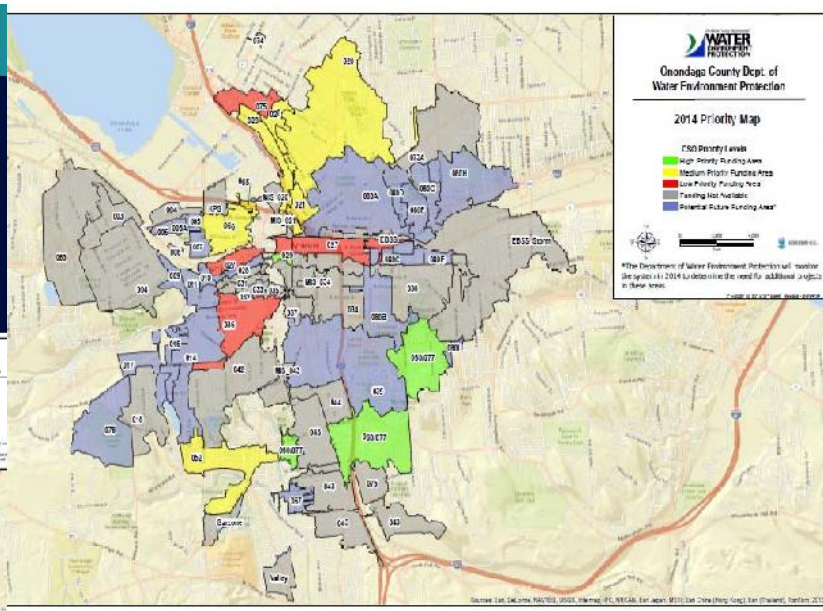
GIF Program Boundary Map



2013



2014



Onondaga County Executive
Joanne M. Mahoney

Green Improvement Fund

2014 Program

- Tier funding remains in place
  - High Priority Areas (Green) = $0.30/gallon
  - Medium Priority Areas (Yellow) = $0.20/gallon
  - Low Priority Areas (red) = $0.10/gallon
  - Potential Future Funding Area (blue) = currently not funded (gathering additional monitoring data)
- Updated GIF Program Description and Application
- Application Period: Thursday May 15, 2014 – Friday December 5, 2014 (3PM deadline)

GIF Program Follow-up Items

Pending projects:

GIF projects under contract that are over two years old must present an implementation plan for construction to occur this season

Maintenance:

Routine maintenance inspections will be conducted on completed GIF projects

Reimbursement Procedure:

Payment claims are processed through the County Comptrollers office

Question & Answer

www.SaveTheRain.us

http://savetherain.us/green-improvement-fund-gif/

Follow @SaveTheRainUS on Twitter

Like Onondaga County Save the Rain on Facebook

www.facebook.com/savetherainus

METRO WWTP PHOSPHORUS PROJECTS/TMDL/AMBIENT MONITORING PROGRAM UPDATE

ACJ Quarterly Status Report – 2nd Quarter 2014

Metro WWTP Projects

Metro WWTP Phosphorus Optimization Project

The Metro WWTP Total Phosphorus Treatment Optimization design project was officially kicked-off in June 2014 to implement the recommended improvements. These include provisions for isolating the Biological Aerated Filter (BAF) trains and adding a chemical feed system for Polyaluminum Chloride (PAC) among other miscellaneous modifications. Construction of these improvements will be completed in 2017.

Ambient Monitoring Program (AMP)

Water Quality Monitoring Program

Tributary Quarterly Bacteria Compliance

Table 1 below summarizes the results of the bacteria compliance assessment for samples collected during the November 2013 through January 2014 tributary sampling events.

Table 1: AMP Tributary Bacteria Monthly Compliance Assessment[1] (February – April 2014)

Sampling Site	February 2014	March 2014	April 2014
Harbor Brook			
Velasko Road	√	√	√
Hiawatha Boulevard	√	√	√
Onondaga Creek			
Dorwin Avenue	√	√	√
Kirkpatrick Street	X	X	√
Ley Creek at Park Street	√	√	X
Ninemile Creek at Lakeland (Route 48)	√	√	√
Bloody Brook at Onondaga Lake Parkway	√	√	√
Tributary 5a at State Fair Boulevard	√	√	√

[1] *Compliance assessed with the applicable NYS Ambient Water Quality Standard (AWQS) for Fecal Coliform bacteria in the surface water as set forth in 6NYCRR Part 703.4 as follows:*
"The monthly mean geometric mean, from a minimum of five examinations, shall not exceed 200."

Tributary Quarterly Sampling Event Summary

The following Tributary sampling events were conducted during the 2nd quarter of 2014:

April 2014:

- Tributary Bacteria sampling events: April 3, 9, and 23
- Tributary High flow sampling event: April 10
- Tributary Biweekly sampling events: April 10 and 22

May 2014:

- Tributary Bacteria sampling events: May 1, 8, 15, and 29
- Tributary Biweekly sampling events: May 6 and 22

June 2014:

- Tributary Bacteria sampling events: June 4, 11, and 23
- Tributary Biweekly sampling event: June 17
- Tributary Quarterly sampling event: June 3
- Tributary High Flow sampling event: June 26

Onondaga Lake Water Quality Monitoring

Onondaga Lake Quarterly Sampling Event Summary

April 2014:

- Lake Bacteria sampling event: April 17
- Lake Weekly sampling events: April 14 and 21
- Lake Biweekly sampling events: April 16 and 29

May 2014:

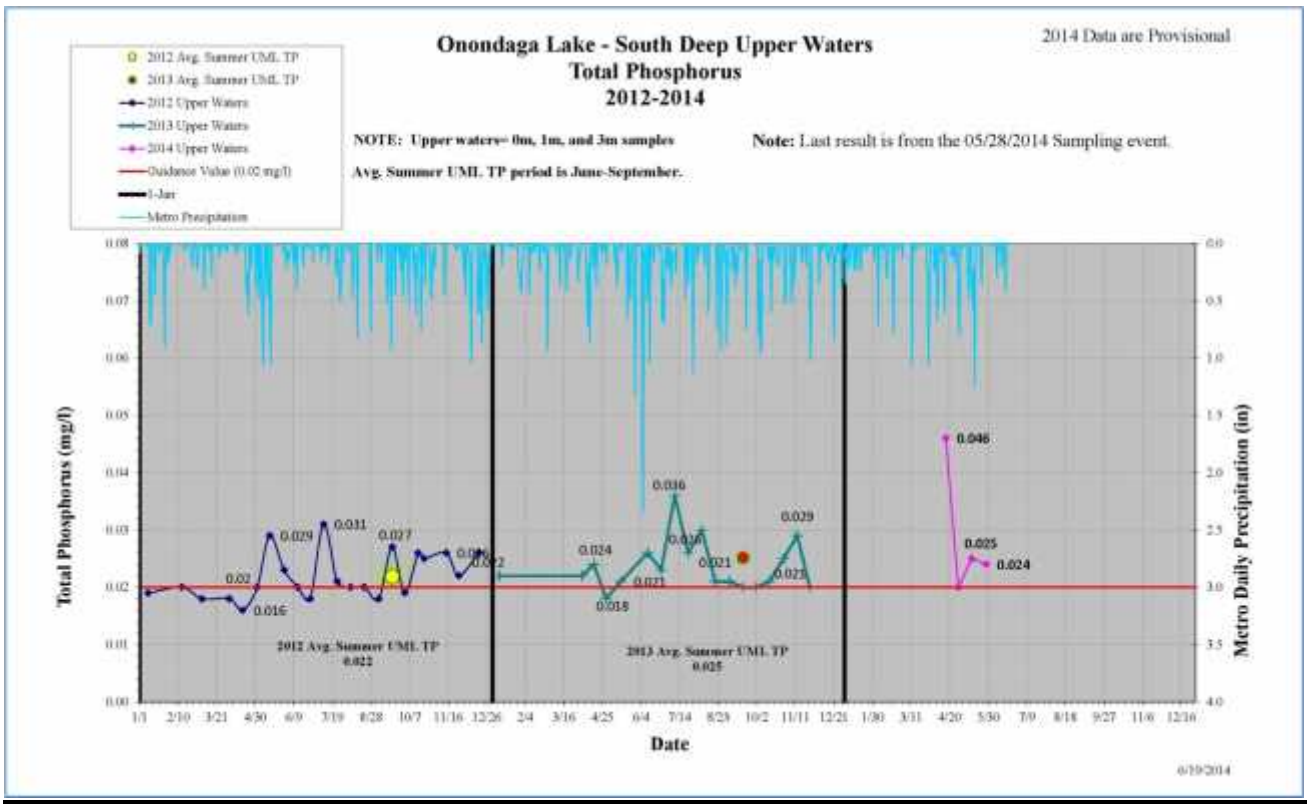
- Lake Bacteria sampling events: May 12 and 20
- Lake Weekly sampling events: May 5 and 19
- Lake Biweekly sampling event: May 28
- Lake Quarterly sampling event: May 13

June 2014:

- Lake Bacteria sampling events: June 9 and 18
- Lake Weekly sampling events: June 2 and 16
- Lake Biweekly sampling event: June 24
- Lake Quarterly sampling event: June 10

Onondaga Lake Phosphorus (2014 to-date)

New York State has promulgated a narrative standard for phosphorus in water: “None in amounts that will result in growths of algae, weeds and slimes that will impair the waters for their best usages” (NYSCRR §703.2). For ponded waters the narrative standard is interpreted using a guidance value of 20 µg/L calculated as the average total phosphorus concentration in the lake’s upper waters between June 1 and September 30. This number was developed from statistical analysis of surveys of lake users conducted throughout New York State as to their perception of the suitability of specific waterbodies for swimming and other forms of contact recreation (Kishbaugh, 1994). The total maximum daily load TMDL target is a numeric endpoint that ensures protection of the designated best uses of a water body. The phosphorus TMDL was approved by USEPA on June 29, 2012. The AMP tracks the summer average total phosphorus (TP) concentration in the lake’s upper waters. The ultimate measure of the success of the Onondaga Lake Phosphorus TMDL is the extent to which the in-lake total phosphorus criteria and beneficial uses are achieved.



BIOLOGICAL MONITORING PROGRAM

Sampling Summary (April)

- Completed Largemouth Bass 2013 age and growth analysis

Sampling Summary (May)

- Started age and growth analysis.

Sampling Summary (June)

- Completed spring hydro-acoustic Alewife survey 6/4/14.
- Completed first larval fish sampling event.
- Completed annual nesting survey.

Fish Abnormalities

The occurrence of physical abnormalities in fish captured in Onondaga Lake during AMP sampling is monitored using a standardized protocol of identifying Deformities, Erosions, Lesions, Tumors, Fungus, and/or Malignancies (DELTFM). Data are used for trend analysis and to compare fish collected from Onondaga Lake to those collected in other areas. Fish abnormalities can result from chemical contamination; biological agents such as bacteria, viruses, or fungi; or interactions among multiple stressors.

Channel Catfish with no eyes.

Overall, abnormalities increased from 2003 to 2009 in Onondaga Lake, but have decreased since then. Abnormalities began declining in 2010 and have steadily decreased to 2.2% in 2013 (Figure 1). The majority of abnormalities in the Onondaga Lake fish community in 2013 were lesions (64%), followed by deformities (35%). Fifteen species of adult fish were identified with DELTFM abnormalities in 2013, similar to 2012 and recent years. The species contributing the most to the DELTFM total in 2013 were Brown Bullhead (34% of total), Gizzard Shad (15%), Northern Pike (15%), White Sucker (13%), Largemouth Bass (10%), Pumpkinseed (9%), and Bluegill (5%).

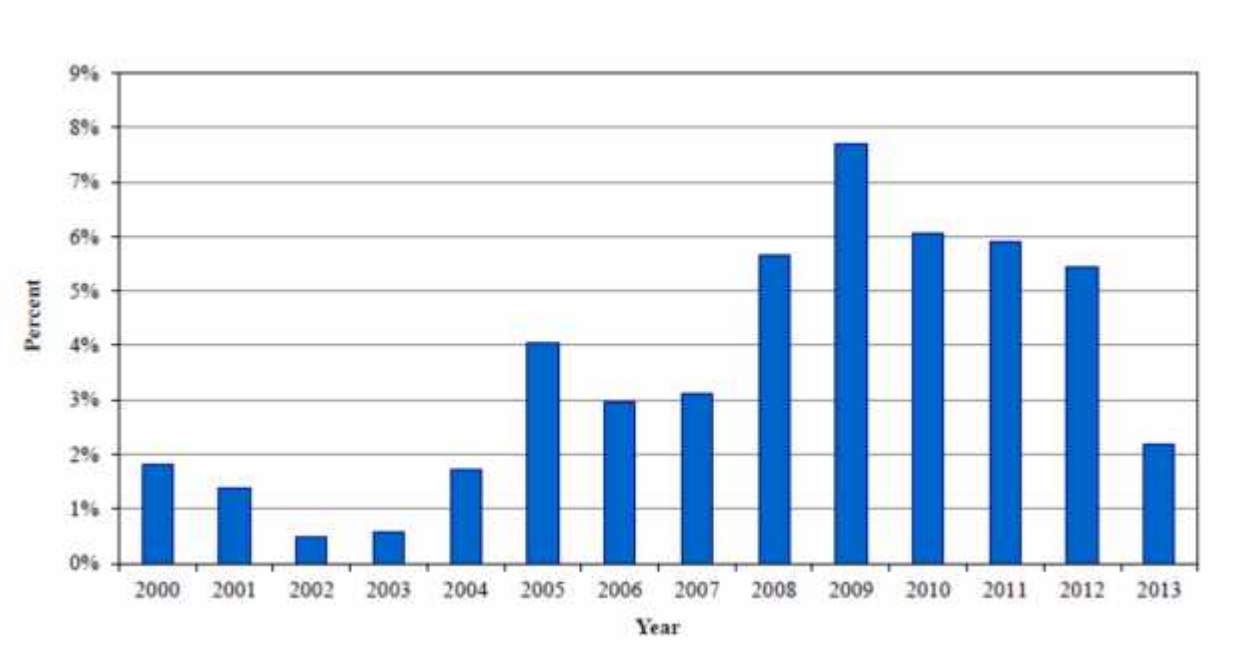


Figure 1. Percent of adult fish captured during AMP sampling with DELTFM abnormalities.

The incidence of lesions and tumors in brown bullhead in Onondaga Lake from 2000 to 2013 was compared with similar data from waters in the Chesapeake Bay watershed, Great Lakes, and Cape Cod area Figure 2). Prior to 2007, occurrences of lesions and tumors in Onondaga Lake brown bullhead were within the range associated with reference sites (typically <5% incidence). From 2007-2009 a shift in occurrence was observed to levels more similar to contaminated sites from regional waters. The cause of this shift is not known, but may have been due to several identified pathogens affecting Brown Bullhead in 2008. The incidence of lesions and tumors in brown bullhead in Onondaga Lake has continued to decline since 2008, suggesting a recovery of the population from these pathogens. The incidence of lesions and tumors in brown bullhead in Onondaga Lake in 2013 was 10% and is again approaching the range associated with regional reference sites (Figure 2).

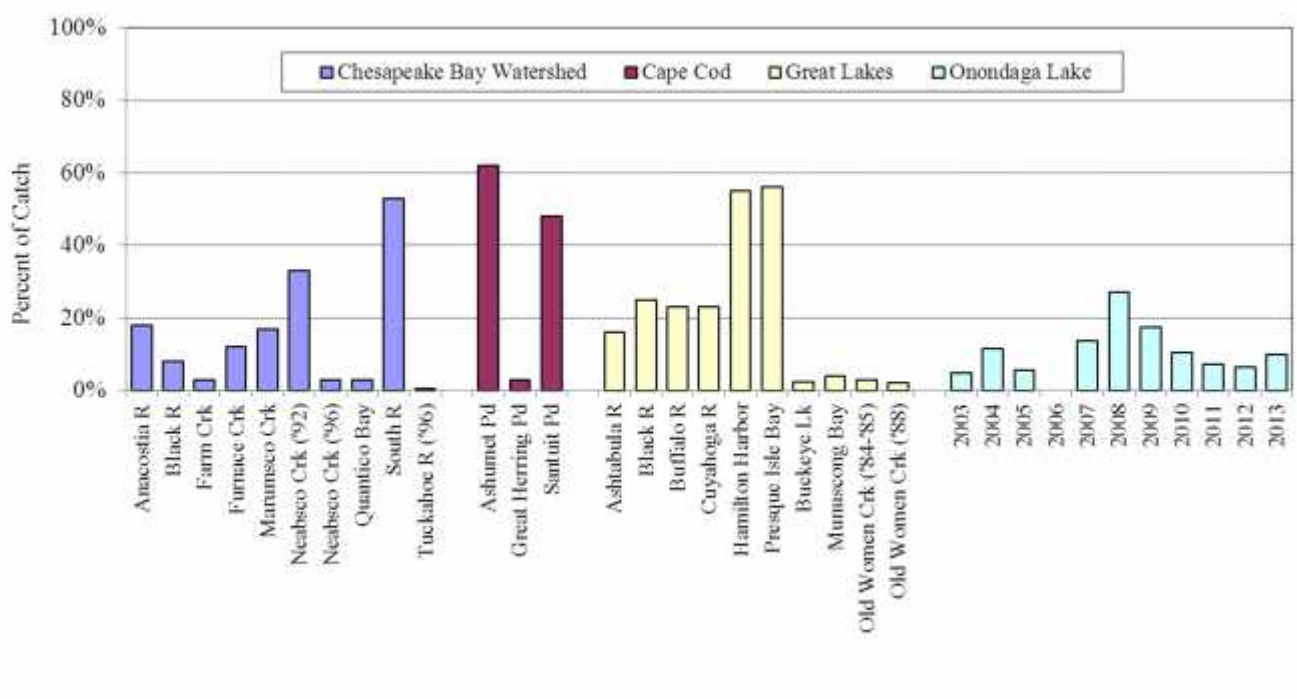


Figure 2. Occurrence of lesions and tumors in brown bullhead from Onondaga Lake and other regional waters.

LEGISLATIVE/REGULATORY/ MEDIA UPDATE

Legislative/Regulatory Update

Action Items for the County Legislature

- Authorizing the County of Onondaga to act as lead agency for the Lakeview Amphitheater Facility (The Project) under the State Environmental Quality Review Act (SEQRA); determining the classification of a Type I Action; adopting a positive declaration; accepting a draft scoping document for the Draft Environmental Impact Statement (DEIS); establishing public scoping for the DEIS; and authorizing the publication, circulation, service, and filing of the Environmental Assessment Form, the Positive Declaration, and draft scoping documents.

- A resolution calling a public hearing in connection with authorizing various sewer improvements as outlined in Local Law 1-2011 for the purpose of mitigating inflow and infiltration of stormwater into the consolidated sanitary district sewer system.

- Authorizing the County of Onondaga to act as lead agency for the Bridge Street/Milton Avenue streetscape revitalization project under the State Environmental Qualify Review Act; determining the classification of a Type 1 Action; adopting a negative declaration; and authorizing the publication, circulation, service, and filing of the Environmental Assessment Form and the Negative Declaration.

Action Items for the Environmental Protection Committee

- Informational - ACJ Update

- A resolution authorizing the revision of a permanent easement granted to the Niagara Mohawk Power Corporation, now National Grid, for the construction, operation, and maintenance of the 002 Bypass Treatment Improvements Project at the Metropolitan Syracuse Wastewater Treatment Plant.

- A resolution approving various sewer improvements as outlined in Local Law 1-2011 for the purpose of mitigating inflow and infiltration of stormwater into the consolidated sanitary district sewer system.

The Post-Standard
syracuse.com

Upcoming Save the Rain biking and walking tours in Syracuse

Selina Negron (second from left) painted a rain barrel with her children and friends as part of Onondaga County's Save the Rain program in this 2012 file photo. *(By David Lassman | dlassman@syracuse.com)*

By **Michelle Breidenbach | mbreidenbach@syracuse.com**
Email the author | **Follow on Twitter**
on April 09, 2014 at 1:01 PM, updated April 09, 2014 at 5:08 PM

Reddit Email

SYRACUSE, N.Y. - There are two upcoming walking and biking tours of Onondaga County's Save the Rain projects.

First, there is a 10-mile bike ride Saturday, from 10 a.m. to noon. Meet at the Syracuse Center of Excellence parking lot, 727 E. Washington St. Sign in starts at 9:15 a.m.

Registration ends Friday for the bike ride.

There are also lunchtime walking tours scheduled for 12:15 p.m. Monday, April 21.

One tour, called the "civic strip loop," meets behind the Erie Canal Museum, in the 300 block of Water Street.

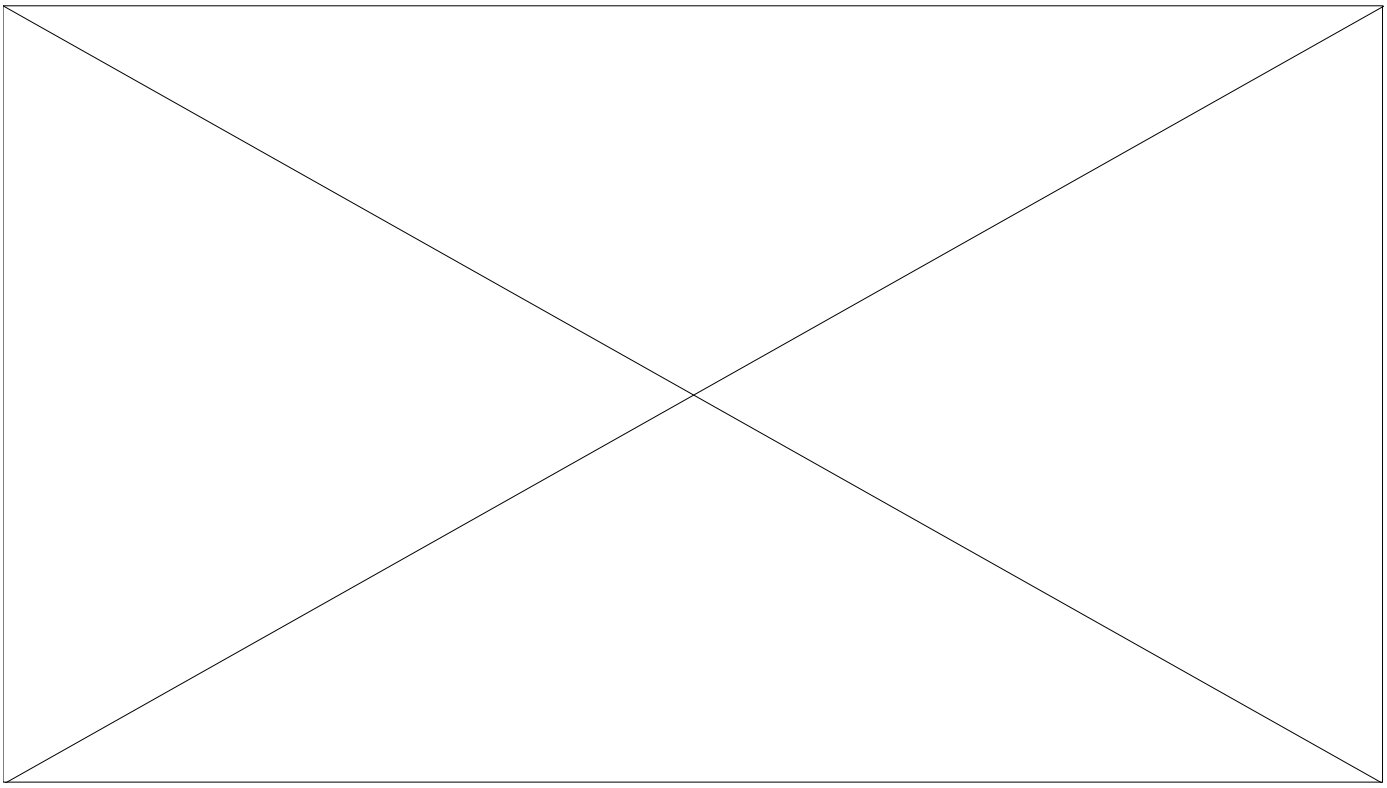
A second group follows the first phase of the Connective Corridor. It meets at Syracuse Stage, 820 E. Genesee St.

For information, contact Amy Samuels at **asamuels@oei2.org** or 443-1757.

*Contact Michelle Breidenbach at (315) 470-3186, **mbreidenbach@syracuse.com** or follow on Twitter @mbreidenbach.*

County planning next phase of Onondaga Lake trail

04/11/2014 05:20 PM



04/11/2014 06:53 PM

Onondaga Lake trail alternatives (541 KB)

Liverpool (WSYR-TV) – Initial plans have been released for the next phase of the trail around Onondaga Lake.

The work would extend the trail from the Honeywell site to the Creekwalk near Destiny USA.

Now, Onondaga County is looking for residents' input on the different options.

http://www.localsyr.com/story/d/story/county-planning-next-phase-of-onondaga-lake-trail/30055/3VfaQf9RNk60pKNMsN2IQw

The county has been examining the prospect of looping the lake for decades.

Constructing the trail between Honeywell and Creekwalk may be the most challenging part of the loop because it cuts through swamp lands and there are railroad tracks in the way.

Engineers have given the county options that include a trail running along the lakeshore on the southwest end or stretching out away from the lake and connecting with the Creekwalk a little farther back.

"We're focused on coming up with one solid plan to get there. For the future, if there were secondary, alternative routes of access, I could see where that would be possible because there's so many options right now," Onondaga County Parks Commissioner Bill Lansley said.

The two and a half mile extension of the trail on the west side of the lake was completed last year.

It will formally open to the public in May.

Lansley said Honeywell has plans to build a trail from the new section through the area where they're now working on lake cleanup. When they're done with the lake, he says they would turn the new section of trail over to the county.

"When they're done, we want to be ready to have the next phase beyond that over to the Creekwalk ready so we can have one large expansion at that point," Lansley said.

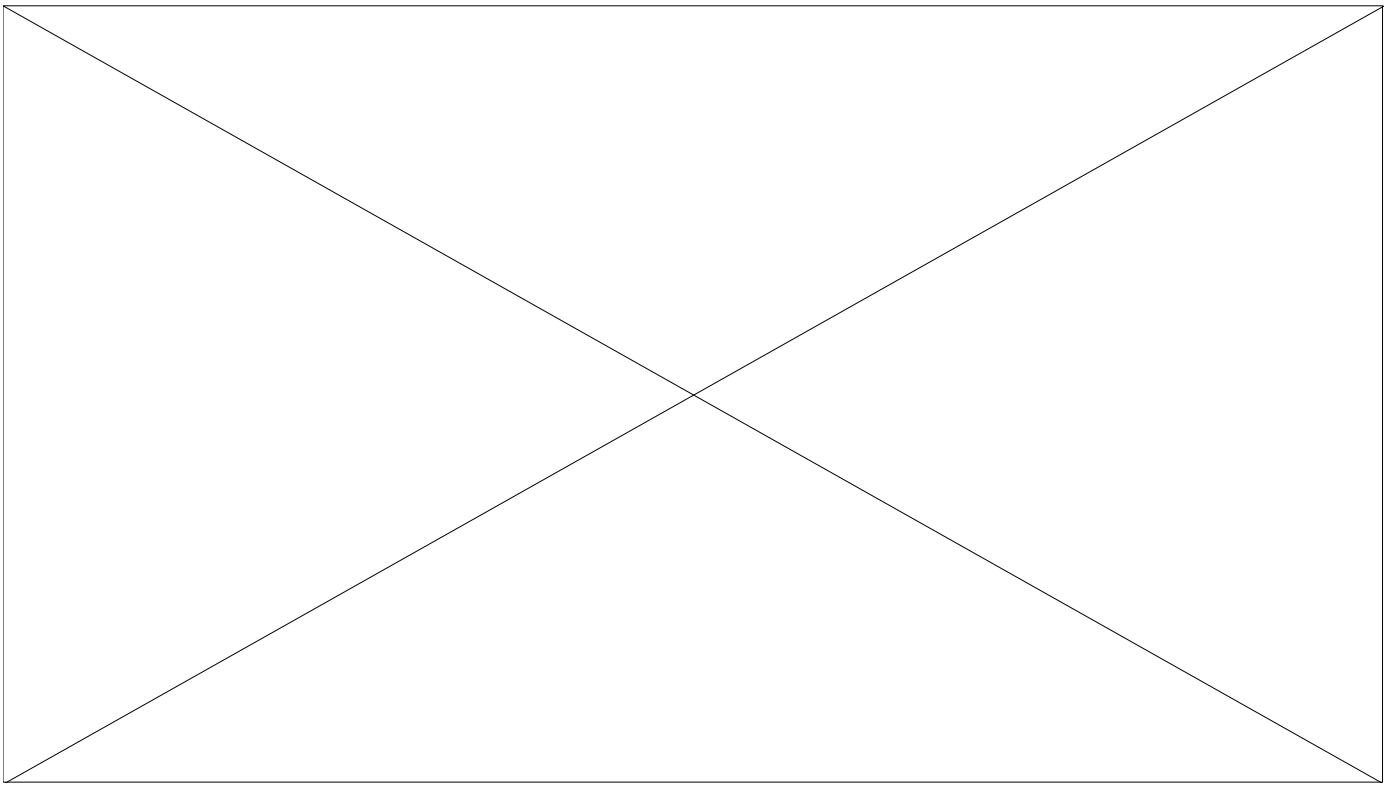
Lansley said the county executive and lawmakers have made it a priority to loop the lake. And now with the lake in the midst of a rebirth, the chances of it finally getting finished after all the years of talk are better than ever.

To offer your views to the county on the project, email loopthelake@chacompanies.com.

Copyright 2014 localsyr.com Nexstar Broadcasting, All rights reserved. This material may not be published, broadcast, rewritten, or redistributed.

County planning next phase of Onondaga Lake trail

04/11/2014 05:20 PM



04/11/2014 06:53 PM

Onondaga Lake trail alternatives (541 KB)

Liverpool (WSYR-TV) – Initial plans have been released for the next phase of the trail around Onondaga Lake.

The work would extend the trail from the Honeywell site to the Creekwalk near Destiny USA.

Now, Onondaga County is looking for residents' input on the different options.

http://www.localsyr.com/story/d/story/county-planning-next-phase-of-onondaga-lake-trail/30055/3VfaQf9RNk60pKNMsN2IQw

The county has been examining the prospect of looping the lake for decades.

Constructing the trail between Honeywell and Creekwalk may be the most challenging part of the loop because it cuts through swamp lands and there are railroad tracks in the way.

Engineers have given the county options that include a trail running along the lakeshore on the southwest end or stretching out away from the lake and connecting with the Creekwalk a little farther back.

"We're focused on coming up with one solid plan to get there. For the future, if there were secondary, alternative routes of access, I could see where that would be possible because there's so many options right now," Onondaga County Parks Commissioner Bill Lansley said.

The two and a half mile extension of the trail on the west side of the lake was completed last year.

It will formally open to the public in May.

Lansley said Honeywell has plans to build a trail from the new section through the area where they're now working on lake cleanup. When they're done with the lake, he says they would turn the new section of trail over to the county.

"When they're done, we want to be ready to have the next phase beyond that over to the Creekwalk ready so we can have one large expansion at that point," Lansley said.

Lansley said the county executive and lawmakers have made it a priority to loop the lake. And now with the lake in the midst of a rebirth, the chances of it finally getting finished after all the years of talk are better than ever.

To offer your views to the county on the project, email loopthelake@chacompanies.com.

Copyright 2014 localsyr.com Nexstar Broadcasting, All rights reserved. This material may not be published, broadcast, rewritten, or redistributed.

Save The Rain Project

8:42 PM
MON APRIL 14, 2014

Downtown Bike Tour Shows Off Green Infrastructure

E-mail
0 Comments
Print

BY CHRIS BOLT

Save the Rain bike tour stopped at Erie Canal Museum to see rain garden and porous pavers used to divert water from sewers. Credit Chris Bolt/WAER News

Formatted: Font: (Default) Georgia, 11.5 pt, Font color: Custom Color(RGB(12,76,162)), Border: : (No border)

About 30 people could be seen pedaling their bicycles around Onondaga County this weekend enjoying nature...but also learning about how green infrastructure is saving it. The Save the Rain program was showing off some of the things the county is doing in its Downtown Bike Tour.

Listen

2:35

WAER's Chris Bolt pedaled along on the Save the Rain Downtown Bike Tour

Our first stop on the Save the Rain Green infrastructure bike tour was not exactly a big park or nature setting...it was on Water Street adjacent to the Erie Canal Museum. Teenager Chris Grenga of the Onondaga Environmental Corps explains how he's an advocate for the rain garden he maintains here...when he used to ignore them.

"If I walked by I wouldn't pay attention to any of this. But since I've gotten the job, I've been here since summer, the fall and now it's the spring, it just opened me up to tons of different things and I share that with people that I know."
The county is investing in jobs for young people, coordinator Greg Michel explains, for a few reasons.

"They've (the county) been looking at, o-k now all these installations are in, how do we maintain them. So these guys get trained to do it. They come out to the lots and they're actually getting paid, getting a first work experience and learning about environmental science."
The rain gardens and porous pavers at the museum are part of the save the rain project, to keep excess water out of the sewer system and instead have it seep back into the ground. That in turn cuts down on sewer overflows that can dump raw sewage into streams and Onondaga lake.

Lots of green infrastructure at the OnCenter, including a green roof, rain gardens and porous pavement to handle water on parking lot, and water sistern at War Memorial that uses rain water to make ice for hockey.
Credit Chris Bolt/WAER News

Our next stop? The corner at the OnCenter and War Memorial...where a number of green infrastructure projects have been built. Ride coordinator Amy Samuels explained what might be planted in rain gardens aside parking lots and on the OnCenter's Green Roof.

"There are plants in there that can tolerate getting wet, really wet and maybe sitting in water for a day or two. But then they don't require water, like a cattail, or something like that, to grow."
The parking lot here also uses porous pavement to let some water seep through instead of just run off. Later in the ride, we tour the rain gardens near the entrance to the zoo, as well as a basketball court at Skiddy park that drinks up rainwater.

Constructed Wetland near Skunk City Neighborhood is part of Onondaga Lake Cleanup, treating combined sewer overflows.
Credit Chris Bolt/WAER News

http://waer.org/post/downtown-bike-tour-shows-green-infrastructure

Formatted: Font: (Default) Georgia, 11.5 pt, Font color: Custom Color(RGB(12,76,162)), Border: : (No border)

Formatted: Font: (Default) Georgia, 11.5 pt, Font color: Custom Color(RGB(12,76,162)), Border: : (No border)

We then pedaled to three basins near skunk city with beds of plants.

"Storm water and raw sewage from our homes and businesses altogether, are treated by this constructed wetland. This is the first constructed wetland of its type in the nation," Coordinator Khris Dodson explains.
He points out how sewer overflows are diverted here

"As that water comes in, the wetland fills up, those mats will float with the level of the water. Plants love nutrients. they'll eat those nutrients, take up those nutrients through their roots."
This sewer diversion and the other Save the Rain projects are pretty unique ways to try and keep waterways and Onondaga Lake clean. Events like the weekend bike ride and others are trying to bring the public on board.

TAGS:
Save the Rain

Rain gardens

porous pavement

Onondaga Environmental Corps

Onondaga Lake

Major phase of cleaning effort at Onondaga Lake may be ahead of schedule

1
04/22/2014 05:23 PM04/22/2014 06:44 PM

Geddes (WSYR-TV) - Dredging work is in full swing on Onondaga Lake and Honeywell says 2014 may be the last year of it.

The company just released its annual report on the cleanup and says dredging may be finished a year ahead of schedule.

Honeywell's work is the most visible part of the roughly $1 billion cleanup effort at the lake.

Very few people are able to see a key part to the other half of the work – which is the county's state-of-the-art Metropolitan Syracuse Wastewater Treatment Plant.

The plant is cleaning water and cutting down on the two worst pollutants in the lake – ammonia and phosphorous.

County officials say phosphorous levels are better than those in Oneida Lake and almost better than those in Otisco Lake.

"Working in reverse if you want to get rid of the stench, you need to work on the algae, so you need to work on bringing down the ammonia and phosphorus," said Onondaga County Legislature Environmental Protection Committee Chair Mike Plockocki.

The facility in the Trolley Lot near Armory Square helps clean the lake as well by capturing and holding water that comes in during storms then slowly releases it to the plant so as much water as possible is treated before going into the lake.

http://www.localsyr.com/story/d/story/major-phase-of-cleaning-effort-at-onondaga-lake-ma/37960/pgQ1SpWx7kGG5-1ndYP4NQ?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+WSYRLocalNews+(News+Channel+9%3A+Local+News)

"Instead of the system being overwhelmed by those wet weather events, we're able to manage it and manage it well and provide that super high level of treatment that everybody expects," said Onondaga County WEP Commissioner Tom Rhoads.

"By 2018, we want to have a 95 percent capture level of the rainwater, so that it's either going into the ground or into storage and not going immediately into the system. Already we're at 92.9 percent," said Plockocki.

Both fish and plant species are showing a notable increase in Onondaga Lake.

"The lake water clarity has improved so much that the plants that naturally grow up from the bottom, instead of having an algae mat on the surface and blocking all that light actually have natural growth coming up from the bottom," explained Tom Rhoads, Commissioner of the County Water Environment Protection .

Fish and plant species are expected to continue to grow while cleanup work slowly comes to an end by 2018.

"Will I want us to stop there forever, no, but I do think we would all deserve to give ourselves a pat on the back at that point," Plockocki said.

More information and data on the county's efforts can be found at SaveTheRain.us.

Copyright 2014 localsyr.com Nexstar Broadcasting, All rights reserved. This material may not be published, broadcast, rewritten, or redistributed.

http://www.localsyr.com/story/d/story/major-phase-of-cleaning-effort-at-onondaga-lake-ma/37960/pgQ1SpWx7kGG5-1ndYP4NQ?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+WSYRLocalNews+(News+Channel+9%3A+Local+News)

The Post-Standard
syracuse.com

New trail along Onondaga Lake's western s open with run, expo

The view from the new stretch of trail on the Western shore of Onondaga Lake in this 2012 file photo. *(By David Lassman | dlassman@syracuse.com)*

By **Michelle Breidenbach | mbreidenbach@syracuse.com**
Email the author | **Follow on Twitter**
on April 29, 2014 at 9:10 AM, updated April 29, 2014 at 10:04 AM

Reddit Email

ONONDAGA LAKE COVERAGE

SYRACUSE, N.Y. - The newest stretch of the Onondaga Lake trail will be opened to the public Sunday May 18 with a 5-mile walk/run and community expo, Onondaga County Executive Joanie Mahoney announced Tuesday.

The Onondaga Lake West Shore Trail Extension grand opening starts with an official ribbon cutting at 10:45 a.m. The walk/run is named for the Lake View Point hotel, which opened in 1872. It begins at 11 a.m.

The event will be held on the west side of Onondaga Lake in the Orange parking lot of the New York State Fairgrounds, near the Onondaga Lake Visitor Center, off of Route 690.

The expo will have live music, food trucks and activities from parks and community organizations, including the Rosamond Gifford Zoo, Beaver Lake Nature Center, Syracuse Sail & Power Squadron, Cornell Cooperative Extension, Onondaga Audubon, Syracuse Chargers, the Nine Mile Conservation Council and the Izaak Walton League.

There will be T-shirts for the first 100 visitors and the NYS Department of Environmental Conservation will give away 200 tree seedlings from 11 a.m. to 4 p.m.

The event is free. There is no advance registration for the run. The run is not competitive.

The latest trail extension goes 2.3 miles from the east side of Onondaga Lake to the Honeywell Visitor's Center on the west side. It cost $4.5 million to build.

Onondaga County officials **have presented some options to the community for the next stretch of trail,** which will go from the state fairgrounds to the end of the Onondaga Creekwalk behind Destiny USA.

For more information, visit the Onondaga County Parks **website** or call 453-6712.

*Contact Michelle Breidenbach at (315) 470-3186, **mbreidenbach@syracuse.com** or follow on Twitter @mbreidenbach.*

The Post-Standard syracuse.com

Sneak peek video: New Onondaga Lake hiking, biking trail opens new vistas

Point of View: Onondaga Lake Trail Take a bicycle ride along the newest section of the Onondaga Lake Trail with Syracuse.com / Post-Standard reporter Michelle Breidenbach.

By **Michelle Breidenbach | mbreidenbach@syracuse.com**
Email the author | **Follow on Twitter**
on May 16, 2014 at 7:11 AM, updated May 16, 2014 at 9:47 AM

[1] Reddit Email

ONONDAGA LAKE COVERAGE

SYRACUSE, N.Y. - The newest stretch of the trail around Onondaga Lake opens to the public **Sunday with an expo and 5-mile run.**

I attached a video camera to my bike's handlebars to take a sneak peek at the new $4.5 million trail. *See the video above.*

The trail starts in the Orange parking lot of the New York State Fairgrounds. It hugs the western lake shore along a high ridge for about 2.5 miles to connect with the rest of the finished trail to Liverpool.

Along the way, there are broad vistas of Onondaga Lake as well as some wooded areas and tall grasses sure to draw birders.

There are several pavilions placed at key vantage points for shade and views across the lake to Liverpool and south to Syracuse.

The path is paved and smooth for strollers or bikes. There are clearly marked signs that ask people to stay on the path. The trail crosses waste beds filled with hazardous chemicals from the Solvay Process soda ash plant, disposed through the 1940s. The EPA suggested walkers stick to the trail to avoid stirring up the soil and inhaling harmful chemicals.

New Onondaga Lake trail starts in the state fair parking lot*Michelle Breidenbach*

If you like to see trucks and boats, a short stretch of trail comes within view of busy I-690 traffic. You can also see plenty of dredging equipment to watch the progress of Onondaga Lake clean-up.

Onondaga County parks officials are already exploring **designs for the next stretch of trail,** which will extend to the Onondaga Creekwalk behind Destiny USA. The city of Syracuse has a grant to build **a viewing platform called a "lake lounge"** there.

If you go Sunday, take the state fairgrounds Exit 7 from I-690 West and head up the hill to the Orange parking lot. The official ribbon cutting is at 10:45 a.m. The 5-mile fun run starts at 11 a.m. An expo with live music, food trucks and exhibits lasts until 4 p.m.

The event is free.

After you go, please share your review of the new trail in the comments below.

Views of the newest stretch of the Onondaga Lake trail on the west shore which will be opened to the public Sunday May 18 with a 5-mile walk/run and community expo. The Onondaga Lake West Shore Trail Extension grand opening starts with an official ribbon cutting at 10:45 a.m. David Lassman | dlassman@syracuse.com
David Lassman | dlassman@syracuse.com

ENVIRONMENT

Onondaga County opens up new extension to Onondaga Lake Park Trail

By Ellen Abbott

A view of Syracuse from the Onondaga Lake Park Trail.

Ellen Abbott WRVO

Listen

1:36

It's been a century since the west side of Onondaga Lake has been available to the general public. That changes this weekend, when Onondaga County opens up the West Shore Trail. This is the latest step in reclaiming what was once the most polluted lake in the country.

For nearly 30 years, waste from production of soda ash by Allied Chemical in Solvay was dumped into waste beds along the western shore of Onondaga Lake. What was left was a field of dry, chalky white alkaline waste rising 60 feet above the lake shore and covering 300 acres.

As the reclamation of Onondaga Lake continues, a part of that area becomes available to the public for the first time in a long time, when Onondaga County opens a two and a half mile extension of the Onondaga Lake Park Trail. County Executive Joanie Mahoney has taken in the view from the new trail, and calls it's spectacular.

"It's an entirely new view for this generation," Mahoney said. "One hundred years ago people enjoyed that part of the lake, but nobody has seen it the way they're going to see it with the trail open."

Mahoney also says she hopes people can get past the lakes polluted history.

http://wrvo.org/post/onondaga-county-opens-new-extension-onondaga-lake-park-trail

“The lake is clean. The water is blue. It looks and feels good," Mahoney said. "But there will be that old impression of the lake that will be hard to overcome until you get out there, and you see how beautiful the lake is and how far it has come in being cleaned.”

So what’s happened to the chalky waste?

"That material exists," Mahoney explained. "There are people including the Onondaga Nation who would like that to be removed. But the question is removed to where, because it has to go somewhere. Where it is now it can be remediated, and we have ground cover depending on it’s use. We’ve remediated to the point where this trail is safe."

Mahoney says the county had to go through a human health risk assessment that determined the trail is safe. She admits it's taken some time to create the $4.5 million trail built over a Superfund site, and mostly funded by the federal government

“There’s a lot of industrial waste," Mahoney said. "And we’ve had to mitigate. Honeywell has had to remediate, and it’s a lot of people working together over a period of time.”

It is the latest development in the reclamation of the lake that includes Honeywell’s work to cap pollutants, the further extension of the lake trail to the Onondaga Creekwalk near downtown Syracuse and construction of an amphitheater along the west shore of the lake.

Tags:
Onondaga Lake

Onondaga Lake Park

trails

Joanie Mahoney
Onondaga Creekwalk

One step closer to looping the lake

- **By: Sarah Blazonis**
- 05/18/2014 04:53 PM
- ShareThis Facebook Tweet Email

Play now

The idea to build a trail that circles Onondaga Lake has been talked about for decades. Time Warner Cable News reporter Sarah Blazonis was there Sunday as the existing path got a little bit closer to looping the lake.

GEDDES, N.Y. -- Some ran, others walked, but they all had one thing in common: they were the first sets of feet and wheels, to make use of the West Shore Trail Extension along Onondaga Lake.

"It's gorgeous, better than I expected. This view right here of the lake is outstanding. It's probably the best view of the lake in all of Syracuse or it's better than anything on the other side," said Matt Mullen of Syracuse, who came to check out the trail with his wife.

County Parks and Recreation Commissioner Bill Lansley says this 2.5 mile stretch looked a lot different when work began.

"It looked very much like what you see on the sides of the trails," said Lansley. "It was very green, a lot of overgrown, there weren't any barren spots from what you would think would be a wastebed."

But that's exactly what it was. The area was a dumping ground for soda ash from Allied Chemical.

This $4.5 million project included remediation of the site, carving out the trail and putting a new surface down.

It's just one part of the ultimate goal of having a complete trail around the lake.

The next phase in the effort to 'loop the lake' has already begun. Officials say plans are in the works to take this part of the trail past the Honeywell site and connect it to the Creekwalk in Downtown Syracuse.

"We have to wait for the Honeywell dredging project to stop, and then we have a little bit of a complication with the CSX tracks. We're in the process right now of figuring the best way to get over the train tracks," said Onondaga County Executive Joanie Mahoney.

In the meantime, the community has some new territory and new sights to take in.

Mahoney says a plan for the next phase of the trail is expected to be released in the near future. Officials will then need to work to get funding behind it.

- See more at: http://centralny.twcnews.com/content/news/740997/one-step-closer-to-looping-the-lake/#sthash.6L8wgZOO.dpuf

People Making Good Use of The West Shore Trail Extension

- **By: TWC News Staff**
- 05/31/2014 05:39 PM
- ShareThis Facebook Tweet Email

Play now

SYRACUSE, N.Y. -- Thanks to some beautiful weather Saturday, people are making good use of the new West Shore Trail Extension around Onondaga Lake.

The two and a half mile trail was opened to the public not too long ago, and features some nice views of the City of Syracuse. The pathway was years in the making.

It was built on top of old Allied Chemical waste beds, so it took some time to complete.
Now that it is finished, walkers, bicyclists and rollerbladers are enjoying everything it has to offer.

"It's an easy ride for people who aren't really big riders and if you want to push yourself it's a nice ride for experienced riders," said Linda Friedman, a DeWitt resident.

The trail could be extended further.

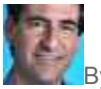
Plans are in the works to build a section that would connect to the Creek Walk in downtown Syracuse.

http://binghamton.twcnews.com/content/news/742688/people-making-good-use-of-the-west-shore-trail-extension/

The Post-Standard
syracuse.com

Joanie Mahoney to receive Audubon award for Onondaga Lake cleanup work

Onondaga County Executive Joanie Mahoney speaks in January at the announcement of a state-subsidized amphitheater and development project along Onondaga Lake. Mahoney will be given a conservation award from Audubon New York for her work on the lake. *(David Lassman | dlassman@syracuse.com)*



By **Glenn Coin | gcoin@syracuse.com**
Follow on Twitter
on June 03, 2014 at 8:14 AM, updated June 03, 2014 at 8:38 AM

Reddit Email

ONONDAGA LAKE COVERAGE

Syracuse, N.Y. -- Onondaga County Executive Joanie Mahoney today will receive Audubon New York's highest award for her work in protecting the environment, including the cleanup of Onondaga Lake.

Mahoney will receive the Donald G. Colvin Award, the annual award given by the 50,000-member conservation group.

"County Executive Mahoney has brought innovative solutions to real-time sustainability challenges facing the Central New York ecosystem," said Audubon Executive Director Erin Crotty in a prepared statement. "We applaud her exemplary commitment to working collaboratively with all partners to enhance the region's high quality of life."

Mahoney will receive the award at tonight's annual benefit for the Montezuma Audubon Center at the Honeywell Onondaga Lake Visitors Center. **Honeywell is spearheading** the $451 million cleanup of the lake.

The award is named for Donald G. Colvin, who served as Savannah town supervisor for 48 years and spent over a decade championing the creation of the Montezuma Audubon Center. Previous winners include state Department of Environmental Commissioner Joseph Martens, former SUNY College of Environmental Science and Forestry President Cornelius B. Murphy, Jr., and former U.S. Congressman James T. Walsh.

In a news release, **Audubon** cited Mahoney's work in the Save the Rain project and her work to "restore critical habitats for birds" around the lake.

Recently released studies show that birds living near the lake **had dangerously high mercury levels** that could cut their reproduction by 20 percent. The samples for those studies were taken in 2008 and 2009, before much of the mercury cleanup work that has**reduced mercury in the lake by 95 percent**.

Phosphorous levels have also dropped dramatically in the lake, down to the levels of some Finger Lakes.

"It is an honor to receive with this award from Audubon New York because it affirms we are moving in the right direction towards environmental sustainability," Mahoney said in a prepared statement.

Contact Glenn Coin: **Email** | **Twitter** | **Google +** | (315) 470-3251

Save The Rain: Preventing Combined Sewer Overflows

By Laura Martin
@LauraOnWater

For decades Onondaga Lake, located outside of Syracuse, NY, was plagued by extreme pollution.

The lake was declared unsafe for swimming in the '40s, and fishing was banned in the '70s. In 1989 the state of New York initiated a national resources damages claim against Onondaga County, alleging violations of state and federal water pollution control laws. A consent order settled the litigation, but an increasing number of combined sewer overflows (CSOs) made it difficult for the county to comply with the state's terms. Heavy wet-weather events often overwhelmed the county's wastewater system — which was too small for its growing population — and untreated sewage ended up in Onondaga Lake.

To save their lake, Onondaga County had to save the rain.

In 2009, Save the Rain — a green infrastructure initiative — was created by newly elected county executive Joanie Mahoney. The county has since invested nearly $150 million in the initiative, advancing more than 175 distinct green infrastructure projects which collect, slow down, and spread stormwater, preventing it from overflowing the sewer systems.

"As far as communities with green infrastructure projects go, we have one of the largest programs in the country," said Matthew Millea, the deputy county executive for Onondaga County, who works with Mahoney. "But I think many communities will surpass us as more and more realize how important stormwater management is."

Already, the Save the Rain program has resulted in a significant reduction in the number of CSOs, said Millea. The goal is to reduce CSOs by 95 percent by 2018.

http://www.wateronline.com/doc/save-the-rain-preventing-combined-sewer-overflows-0001

Green infrastructure projects include the planting of community rain gardens and the installation of porous pavements and green rooftops (vegetation-covered roofs that absorb water) on both public and private properties. A program has also been designed to promote tree planting throughout the city of Syracuse. This initiative will support the planting of 8,500 trees by 2018.

Larger projects in the community include the Rosamond Gifford Zoo project and the West Onondaga Street Green Corridor project. Prior to the Save the Rain initiative, the zoo's parking lots generated a tremendous amount of runoff. New installations — including bioretention areas, porous pavement within the parking lots, and multiple large subsurface infiltration beds — now allow the capture of approximately 4.2 million gallons of stormwater annually. On West Onondaga Street, several green infrastructure elements were installed to capture stormwater and enhance the urban landscape. The street now captures up to one inch of rainfall at a given time, which reduces stormwater runoff by approximately 5,586,000 gallons per year.

Also significant is the Beauchamp Library project, part of the larger Green Library Initiative in Onondaga County. A large bioretention area was installed adjacent to the Beauchamp Library building to capture runoff from the library roof, the main library parking lot, and from the street. The project captures approximately 265,000 gallons of stormwater annually.

Rain barrels are also utilized as a stormwater collection tool as part of the Save the Rain program. Over 3,000 barrels have been given to community members. The barrels do more than just collect rain, explained Millea.

"You can get some stormwater volume reduction at the household level, but the biggest benefit of the rain barrels is that they get people engaged with the Save the Rain program and reducing stormwater runoff," said Millea. "They learn how the stormwater is connected to the sewage system, and that even the rainwater off of their roof can result in environmental issues if they aren't careful."

http://www.wateronline.com/doc/save-the-rain-preventing-combined-sewer-overflows-0001

The county hosts educational events to teach residents how to use their rain barrels. Those interested in the rain barrel or other Save the Rain programs can also get information via Twitter @SaveTheRainUS.

Right now the rain barrel program is focused primarily in the city of Syracuse, which has around 125,000 residents, but Millea hopes it will soon expand to all of Onondaga County, which has 450,000 residents.

Community involvement has been key to the success of the Save the Rain program. Many of the green installations in Onondaga County were paid for using the profits from residential water rate increases. Despite the higher water bill, most of the residents support the program.

“People are seeing the difference in the quality of the lake, which was heavily impaired, and we are educating our residents about the impact that CSOs have on that lake,” said Millea “It can be hard to educate the homeowner, but it is critical to do so for something like this to work.”

Despite its successes, the Save the Rain program is far from over. Many more green infrastructure projects are planned, and the team is working to pass an ordinance that will require new developments to meet stormwater runoff prevention standards. The county held a green infrastructure summit last year, and plans to host it again in the future. The goal is to educate not only the residents and business in Onondaga County, but also other communities about the importance of stormwater management.

“I think we are at a very critical phase as communities decide how to deal with increasing wet weather issues. A lot of communities are starting to see the benefits of green infrastructure,” said Millea. “You are going to have to make an investment in water infrastructure anyway, so you might as well make it green.”

Image credit: "rain," mxgirl85. © 2011, used under an Attribution-ShareAlike 2.0 Generic license:https://creativecommons.org/licenses/by-sa/2.0/

BUSINESS

Public can soon comment on Solvay amphitheater project along Onondaga Lake

By Ellen Abbott

Gov. Andrew Cuomo discusses Onondaga Lake redevelopment in Solvay, N.Y. during an announcement in January. (file photo)

Ryan Delaney WRVO

Listen

1:32

This summer, environmental questions will be heard surrounding the construction of a new amphitheater on the old Solvay waste beds along Onondaga Lake. A draft environmental impact statement surrounding the project will soon be up for review.

Once lawmakers approve, Onondaga County will begin taking public comments on a 650-page document, which outlines what kinds of impact the entertainment venue will have. The big ones involve health, noise and traffic, according to Deputy County Executive Matt Millea. In a meeting with lawmakers, he emphasized that the report shows there will be no health risks to visitors on a lake that was once the most polluted in the nation.

"You can go out there now and walk around and have no risk to your health, and the human health risk assessment discusses that in great detail," Millea said. "And it will be made further safe by cover that will come in through this project.

http://wrvo.org/post/public-can-soon-comment-solvay-amphitheater-project-along-onondaga-lake

We’re going to bring in a lot of fill to create the aesthetics that we need for the amphitheater, and Honeywell will be bringing in fill as part of their agreement with the EPA and the DEC.”

Millea says the document came together quickly, mainly because the lake’s been studied so much.

"We’re not coming in cold to a site we don’t understand," he explained. "We’re coming into a site that many people understand extremely well, and there was remediation strategy already in the works by Honeywell. And really, it's just saying what does it mean if we put an amphitheater in place on top of these plans that were ongoing.”

He says if all goes well with this aspect of the environmental review process, work on the project could begin in a few months.

"We could see construction as early as November or December," Millea said. "And that’s not construction of the shed itself, but we could see roads and utilities going in. We could see the remedial strategy starting to be put in place as far as the cover that Honeywell will bring in or the fill that we need to bring in to start to bring in the lawn seating for example. That could all start this fall.”

There are some opposed to amphitheater siting. The Onondaga Nation, which views the lake as sacred, would prefer that all the pollution be removed from the waste beds.

The pubic comment period will run from July 11 until August 11, with a public hearing July 23. The amphitheater project is part of an economic development plan driven by $100 million of state and county money for the west side of the lake and the communities near it.

This environmental review statement only covers the amphitheater.

Thousands of gallons of rainwater will be sent to Carrier Dome restrooms

6

06/16/2014 05:59 PM

Syracuse (WSYR-TV) - You may have heard of various Save the Rain projects in Onondaga County, but now one of Syracuse's most recognizable buildings will be capturing tens of thousands of gallons of water from its famous roof.

The Carrier Dome is in the process of building a system that will capture some rainwater runoff and put it to a very interesting use, and it's not just rain they'll collect.

"I'm heating this building all winter to get the snow off the roof. This building sees rain 24/7, 365 days a year," said Carrier Dome Manager Pete Sala.

http://www.localsyr.com/story/d/story/thousands-of-gallons-of-rainwater-will-be-sent-to/33187/4YRl1LXA1Eqls9F7mnP0Jg?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed:+WSYRLocalNews+(News+Channel+9:+Local+News)

After about two years of studying and redesigns, the Dome is about to install two 25,000 gallon holding tanks outside the building that will eventually supply water to flush half its frequently used toilets.

Visitors to the Dome will be able to see two 4,000 gallon tanks and all its mechanics from a glass window with an interactive 47-inch touch-screen monitor as well.

"When you start the film, the lights in the room will dim enough as each component is talked about a different color LED light will shine on that portion of the system," Sala explained.

Sala says the water used in the project will be dyed and if for some reason it runs out, they'll have the original system as backup.

The water will feed all the men's and women's bathroom toilets on the North side of the Dome, which is behind the visitor’s bench for football.

Sala says he expects the system to be operational by the second home football game of the season, which is Sept. 20 against Maryland.

Copyright 2014 localsyr.com Nexstar Broadcasting, All rights reserved. This material may not be published, broadcast, rewritten, or redistributed.

http://www.localsyr.com/story/d/story/thousands-of-gallons-of-rainwater-will-be-sent-to/33187/4YRl1LXA1Eqls9F7mnP0Jg?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed:+WSYRLocalNews+(News+Channel+9:+Local+News)

The Post-Standard
syracuse.com

Bill to fast-track Onondaga Lake amphitheater on its way to Cuomo's desk

This is the overall site plan for the Lakeview Amphitheater, as outlined in the environmental report for the project on Onondaga Lake. *(Onondaga County)*

By **Teri Weaver | tweaver@syracuse.com**
Follow on Twitter
on June 18, 2014 at 5:48 PM, updated June 18, 2014 at 6:05 PM

Reddit Email

ONONDAGA LAKE AMPHITHEATER

ALBANY, N.Y. -- A bill that would fast-track construction of a new amphitheater on the western side of Onondaga Lake has passed the full New York State Legislature.

The bill would allow Onondaga County to award one bidder the work to design and construct the amphitheater. The legislation is now headed for Gov. Andrew Cuomo's desk for consideration.

http://www.syracuse.com/news/index.ssf/2014/06/bill_to_fast-track_onondaga_lake_amphitheater_on_its_way_to_cuomos_desk.html

Cuomo earlier this year announced the $100 million lake revitalization project, which includes $30 million in state money.

"This legislation is important to Onondaga County and will allow us to expedite the construction of the Onondaga Lake Amphitheater while also helping to minimize cost overruns so we may get the amphitheater as soon as possible," County Executive Joanie Mahoney said in a news release.

The Onondaga Lake Amphitheater is the anchor of the Onondaga Lake West Revitalization Project announced earlier this year by Governor Andrew Cuomo and supported with a $30 million by the State.

*Contact Teri Weaver at **tweaver@syracuse.com**, 315-470-2274 or on Twitter at @TeriKWeaver.*

The Post-Standard

syracuse.com

By David Figura | dfigura@syracuse.com
Follow on Twitter

on June 24, 2014 at 9:07 AM, updated June 24, 2014 at 9:26 AM

Reddit Email

10th annual Family Fun Fishing Weekend set for Onondaga Lake

Ben Markle, of Pulaski, has been fishing in the carp tournament on Onondaga Lake with his father since it began.

Liverpool, N.Y. - The 10th annual Family Fun Weekend is set for Saturday and Sunday on Onondaga Lake.

The event is being held in conjunction with the statewide Free Fishing Days. No license is required to wet your line this weekend.

The two-day Onondaga Lake event features a carp fishing tournament on Saturday and the Izaak Walton Family Fishing Day on Sunday. More than $1,000 in merchandise and gift certificates will be awarded.

Both events will be centered at Willow Bay, located off the north end of Onondaga Lake Park off Long Branch Road.

The carp tournament is set for 7 a.m. to 3 p.m. Saturday. Cost is $30 to enter. A "learn to fish" seminar sponsored by the Izaak Walton League's Central New York Chapter will also

be held that day from 9 a.m. to noon. Registration for the seminar is required. For more, see**onondagalakefishing.com.**

The Family Fishing Day will be held from 9 a.m. to noon Sunday. Cost is $1 for anglers 15 and younger, and $2 for adults.

.

Tickets and rules for both contests are available through Wednesday at the Onondaga Lake Park Griffin Visitor Center in Liverpool and at Mickey's Bait and Tackle in North Syracuse until Friday. Tickets will also be available at the Long Branch Park concession stand during the event.

For more information, see **onondagalakefishing.com**.

WATERTOWN/NORTH

10th Annual Onondaga Lake Family Fun Fishing Weekend Held With NYS Free Fishing Days

- **By: TWC News Staff**
- 06/28/2014 12:11 PM

Play now

ONONDAGA COUNTY, N.Y. -- The 10th Annual Onondaga Lake Family Fun Fishing Weekend is being held in conjunction with the New York State Free Fishing Days.

Saturday and Sunday New Yorkers can fish without a license at thousands of locations throughout the state.

Honeywell has been working to clean up Onondaga lake, and some say it has significantly impacted the fishing in that area.

"The fish are really clean, they've got beautiful color to them, they've got great weight to them," said Rick Greenier, Carp Creations.

The Family Fun Fishing weekend will conclude Sunday with a Family Fun Fishing Derby.

- See more at: http://watertown.twcnews.com/content/news/748710/10th-annual-onondaga-lake-family-fun-fishing-weekend-held-with-nys-free-fishing-days/#sthash.6L6Bw5Y5.dpuf

http://watertown.twcnews.com/content/news/748710/10th-annual-onondaga-lake-family-fun-fishing-weekend-held-with-nys-free-fishing-days/

FINANCIAL UPDATE

Financial Update

Contracts

New Contracts

Green Improvement Fund

- Contract with Housing Visions Unlimited for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $70,200 Executed: 4/28/14

Green Improvement Fund

- Contract with University Hill Apartments for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $36,500 Executed: 4/28/14

Tree Inventory

- Contract with Davey Resource Group for tree inventory and management assessment.

  Contract Amount: $71,820 Executed: 4/30/14

Green Improvement Fund

- Contract with Zip Networks, Inc. for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $276,529 Executed: 4/16/14

Green Improvement Fund

- Contract with Ra-Lin, Inc. (Burnet Ave.) for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $206,450 Executed: 4/16/14

Green Improvement Fund

- Contract with Ra-Lin, Inc. (Peat Street) for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $221,350 Executed: 4/16/14

Green Improvement Fund

- Contract with Burnet Railroad Association for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $357,400 Executed: 4/30/14

Green Improvement Fund

- Contract with J.C. Smith, Inc. for reimbursement of green improvements in the Clinton sewershed.

  Contract Amount: $79,800 Executed: 4/2/14

Suburban Green Improvement Fund

- Contract with the Village of Solvay for reimbursement of costs associated with the Solvay Youth Center bioretention project.

  Contract Amount: $62,394 Executed: 4/14/14

Suburban Green Improvement Fund

- Contract with the Village of Solvay for reimbursement of costs associated with the Highway Garage bioretention project.

  Contract Amount: $110,000 Executed: 5/22/14

Suburban Green Improvement Fund

- Contract with the Village of Solvay for reimbursement of costs associated with the Trump and Power streets bioretention project.

  Contract Amount: $80,000 Executed: 5/22/14

Suburban Green Improvement Fund

- Contract with the Town of Lysander for reimbursement of costs associated with the tree plantings, manhole repairs, and pipe linings.

  Contract Amount: $400,000 Executed: 5/22/14

Amendments to Existing Contracts

Green Improvement Fund

- Contract with Brewster Medical Properties amended to include reimbursement of additional green improvements in the Clinton sewershed.

  Amendment Amount: $21,000 Executed: 4/14/14

Community-Based Tree Planting

- Contract with Arcadis amended to include additional review of NYS DEC comments and review of alternatives.

  Amendment Amount: $20,000 Executed: 6/9/14

Change Orders

Syracuse City School District Parking Lot

- Contract with Orchard Earth & Pipe amended to include cost of replacing additional sewer laterals.

  Change Order Amount: $8,620.68 Executed: 5/22/14

Harbor Brook CSO 018 Wetlands Project

- Contract with Joseph J. Lane Construction amended to include cost of sewer lateral cleanouts, fence revisions, and contaminated soils management.

  Change Order Amount: $70,898.69 Executed: 4/16/14

Clinton CSO Storage Facility

- Contract with Jett industries, inc. amended to include costs of various modifications, including backfill and welding changes, relocation of manhole and repairs to existing conveyance pipe.

  Change order Amount: $404,850.94 Executed: 4/16/14

Green Infrastructure Program – Westcott Street Corridor

- Contract with Davis Wallbridge, Inc. amended to include costs associated with additional sidewalk and sewer lateral repairs.

  Change Order Amount: $3,320 Executed: 4/16/14

Lower harbor Brook Conveyances

- Contract with Joseph J. Lane Construction, Inc. amended to include costs associated with repairs to culvert, support of steel sheeting, and postponement of pile driving.

  Change Order Amount: $363,255.23 Executed: 4/30/14

Funding

Grants

State Bond Act Funds

- Reimbursements **requested**: None

- Reimbursements **received:** None

Federal EPA Funds

- Reimbursements **requested**: None

- Reimbursements **received:**
  Harbor Brook $1,815,495.18 on 5/19/2014
  Harbor Brook $432,306.53 on 5/29/2014

Federal Army Corps of Engineers Funds

- Reimbursements **requested:** None

- Reimbursements **received:** None

GIGP Grant

- **Received:**
  Downspout: $448,400 on 5/16/2014
  E. Washington St.: $468,717 on 5/29/14

EFC Loans

- Reimbursements **requested**: None

- Reimbursements **received:**
  Harbor Brook ST $5,734,150.15 on 5/16/2014
  Harbor Brook ST $626,628.09 on 5/29/2014

Total reimbursement monies received to date through EFC loans for the funded ACJ projects: $247,255,254 (short term) and $58,902,578 (long term).

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Clinton/Lower MIS CSO Improvements

Summary of Current and County Authorizations

	Total Project Costs		
***Project*/Task**/Line Item	Total Proposed Budget	Expended To Date	Authorization Remaining
Clinton Street CSO Facility Planning (Original)			
Engineering Services (EEA)	$ 751,266	$ 751,266	$ (0)
Original Facility Plan Subtotal	**$ 751,266**	**$ 751,266**	**$ (0)**
Clinton Street CSO Conveyances Project			
Contract No. 1 - Phase 1 Conveyances (Delaney)	$ 14,478,053	$ 14,478,053	$ (0)
Contract No. 2 - Phase 2A Conveyances (Delaney)	$ 4,074,455	$ 4,074,455	$ (0)
Engineering/Construction Services (CDM/C&S)	$ 2,738,000	$ 2,738,000	$ 0
Conveyances Subtotal	**$ 21,290,508**	**$ 21,290,508**	$ -
Clinton Storage Project (1)			
Construction Estimate (with contingency)	$ 77,742,858	$ 69,579,090	$ 8,163,768
Engineering Services (EEA and others)	$ 12,122,013	$ 11,145,219	$ 976,794
Construction Management and Administration	$ 4,833,411	$ 3,645,330	$ 1,188,081
Construction Testing (CME)	$ 327,847	$ 268,108	$ 59,739
CSO Storage Subtotal	**$ 95,026,129**	**$ 84,637,748**	**$ 10,388,381**
Facility Plan for CSOs 027 & 029			
Construction Estimate	$ 3,100,000		$ 3,100,000
Engineering Services (Ch2MHill)	$ 91,211	$ 91,186	$ 25
Engineering Services (TBD) Floatable Arcadis	$ 782,032	$ 12,605	$ 769,427
County Administration and Other Costs	$ -		$ -
Facility Plan Subtotal	**$ 3,973,243**	**$ 103,790**	**$ 3,869,453**
Clinton/Lower MIS Green Implementation Program			
Construction Contracts incl. GIF Public/Private	$ 38,508,611	$ 23,252,452	$ 15,256,159
Ch2MHill Program Management & Engineering	$ 15,900,000	$ 10,849,868	$ 5,050,132
Green Subtotal	**$ 54,408,611**	**$ 34,102,319**	**$ 20,306,292**
Program Management			
Project Management (CDM/C&S)	$ -	$ -	$ -
Project Management for Facility Plan (CDM/C&S) (2)	$ -		$ -
Program Management Subtotal	**$ -**	**$ -**	**$ -**
Miscellaneous County Costs			
Land Acquisition	$ 3,726,350	$ 3,726,350	$ -
IMA	$ 4,861,000	$ 3,959,746	$ 901,254
Legal	$ 126,115	$ 133,957	$ (7,842)
Consulting (John Clare & Mezey)	$ 301,334	$ 226,334	$ 75,000
Debt	$ 234,885	$ 184,885	$ 50,000
Equipment		$ 6,504	$ (6,504)
Other	$ 310,738	$ 350,557	$ (39,819)
Contingency	$ 489,863		$ 489,863
Miscellaneous Subtotal	**$ 10,050,285**	**$ 8,588,332**	**$ 1,461,953**
Total	**$ 185,500,042**	**$ 149,473,963**	**$ 36,026,079**
Authorized Master Budget 185,500,042			

Notes:

(1) Includes engineering costs from original Clinton RTF Project

(2) CDM/C&S Project Management costs are included in the total facility plan costs

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Harbor Brook Drainage Basin CSO Abatement

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task/**Line Item	Total Proposed Budget	Expended to Date	Authorization Remaining
Harbor Brook CSO Abatement Project			
Original Engineering Expenses	**$ 5,500,000**	**$ 5,500,000**	**$ -**
HBIS Replacement and CSO Abatement Project			
Construction Contract No. 1 (1) (JJ Lane)	$ 18,289,918	$ 23,265,324	$ (4,975,406)
Other Miscellaneous Work	$ 2,482,920	$ -	$ 2,482,920
Engineering/Construction Sevices (CDM/C&S)	$ 2,012,615	$ 2,435,883	$ (423,268)
County Administration and Other Costs	$ 114,547	$ 326,736	$ (212,189)
HBIS Replacement and CSO Abatement Project Total	**$ 22,900,000**	**$ 26,027,943**	**$ (3,127,943)**
Lower Harbor Brook Storage & Conveyance			
Construction Estimate (with contingency)	$ 34,502,000	$ 26,593,201	$ 7,908,799
Engineering Services (EEA)	$ 4,200,000	$ 3,819,750	$ 380,250
Engineering Services (CDM/C&S)	$ 3,390,000	$ 1,340,898	$ 2,049,102
Project Escalation to Midpoint of Construction	$ 2,280,000	$ 4,676,925	$ (2,396,925)
Lower Harbor Brook Storage & Conv Total	**$ 44,372,000**	**$ 36,430,774**	**$ 7,941,226**
Harbor Brook CSOs FCF Program			
Construction Estimate	$ 12,000,000		$ 12,000,000
Engineering Services (Arcadis)	$ 1,878,731	$ 143,683	$ 1,735,048
County Administration and Other Costs	$ 800,000	$ 15,300	$ 784,700
Project Escalation to Midpoint of Construction	$ 400,000		$ 400,000
FCF Program Total	**$ 15,078,731**	**$ 158,983**	**$ 14,919,748**
Other Harbor Brook Green			
Construction Contracts incl. GIF Public/Private & Rain Barrels	$ 9,300,000	$ 9,939,194	$ (639,194)
Ch2MHill Engineering & Program Management	$ 3,650,000	$ 4,623,876	$ (973,876)
Harbor Brook Green Project Total	**$ 12,950,000**	**$ 14,563,069**	**$ (1,613,069)**
Program Management			
Project Management (CDM/C&S)	$ 499,269	$ 2,096,569	$ (1,597,300)
Project Management for FCF Plan Implem (CDM/C&S)	$ -		
Program Management Total	**$ 499,269**	**$ 2,096,569**	**$ (1,597,300)**
Harbor Brook Mitigation	**$ 3,500,000**	**$ 3,265,000**	**$ 235,000**
Total Costs for Harbor Brook CSO Area under 4th Stip	**$ 104,800,000**	**$ 88,042,339**	**$ 16,757,661**

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Midland CSO Abatement

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task**/Line Item	Total Proposed Budget	Expended to Date	Authorization Remaining
Midland Ave. RTF & Conveyances			
Midland Phase 1 Conveyances - Construction	$ 1,836,434	$ 1,836,434	$ (0)
Midland Phase 2 RTF & Conveyances - Construction	$ 53,372,689	$ 53,372,689	$ (0)
Midland Demolition Contracts - Construction	$ 748,483	$ 748,483	$ 0
Other Construction	$ 137,000	$ 136,342	$ 658
Phase 1 and 2 Engineering (Parsons & EEA)	$ 14,717,163	$ 12,503,353	$ 2,213,810
CME Construction Testing	$ 227,341	$ 218,486	$ 8,855
RTF Modifications (Construction, Eng, CM, Admin)	$ 3,000,000		$ 3,000,000
Facility Plan Total	**$ 74,039,110**	**$ 68,815,787**	**$ 5,223,323**
			$ 5,223,323
CSO 044 Conveyances Project			
Contract No. 6. - JJ Lane	$ 12,296,549	$ 11,653,897	$ 642,652
Construction Contingency 5%	$ 64,800	$ -	$ 64,800
Engineering Services (EEA)	$ 750,000	$ 717,627	$ 32,373
Construction Management Sevices (CDM/C&S) see below			$ -
Conveyances Project Total	**$ 13,111,349**	**$ 12,371,525**	**$ 739,824**
			$ 739,824
FCF Facility Plan			
Construction Estimate	$ 5,000,000	$ -	$ 5,000,000
Engineering Services (Arcadis and others)	$ 623,954	$ 45,511	$ 578,443
Construction Management and Administration	$ 210,000		$ 210,000
Project Escalation to Midpoint of Construction	$ -		
Clinton Storage Project Total	**$ 5,833,954**	**$ 45,511**	**$ 5,788,443**
			$ 5,788,443
Facility Plan for Midland CSOs			
Construction Estimate	$ 14,900,000	$ -	$ 14,900,000
Engineering Services (Ch2MHill)	$ 121,401	$ 121,368	$ 33
Engineering Services, County Admin, ect (TBD)	$ 3,720,000	$ -	$ 3,720,000
Facility Plan Total	**$ 18,741,401**	**$ 121,368**	**$ 18,620,033**
			$ 18,620,033
Midland Green Implementation Program			
Construction Contracts incl. GIF Public/Private	$ 7,500,000	$ 2,054,291	$ 5,445,709
Ch2MHill Program Management & Engineering	$ 3,917,636	$ 2,284,748	$ 1,632,888
Clinton Green Program Total	**$ 11,417,636**	**$ 4,339,039**	**$ 7,078,597**
			$ 7,078,597
Program Management			
Project Management (CDM/C&S) includes CSO 044	$ 6,530,602	$ 6,525,561	$ 5,041
Project Management for Facility Plan (CDM/C&S) [1]		$ -	
Program Management Total	**$ 6,530,602**	**$ 6,525,561**	**$ 5,041**
			$ 5,041
Miscellaneous County Costs			
Land Acquisition	$ 1,809,802	$ 1,809,802	$ -
IMA			
Legal	$ 182,323	$181,975	$ 348
Consulting (John Clare & Mezey)	$ 194,317	$ 194,317	$ 0
Debt	$ 635,031	$ 597,119	$ 37,912
Contingency	$ 2,591,117	$ -	$ 2,591,117
Other	$ 526,211	$ 525,198	$ 1,013
Miscellaneous Costs Total	**$ 5,938,801**	**$ 3,308,411**	**$ 2,630,390**
Total Cost for Midland project under 4th stipulation	**$ 135,612,853**	**$ 95,527,203**	**$ 40,085,650**
Authorized Master Budget $128,300,000			

Onondaga County Lake Improvement Project

4th Stipulation of the ACJ

Sewer Separation of CSO Areas 022/038/040/045/046A/046B/047/048/050/051/053/054

Summary of Current and Proposed Costs, and County Authorizations

	Total Project Costs		
Project **/Task/Line Item**	Total Proposed Budget	Expended to Date	Authorization Remaining
Sewer Separation Construction Contracts			
CSO 024 (Falter)	$698,864	$698,864	$0
CSO 053/054 (Falter)	$2,000,817	$2,000,817	$0
CSO 038//40/046A/046B (Falter)	$3,598,931	$3,524,487	$74,444
CSO 047/048 (Falter)	$1,654,022	$1,654,022	$0
CSO 050 (Lane)	$4,362,188	$4,362,188	$0
CSO 051 (Lane)	$5,037,280	$5,037,280	$0
CSO 022/045 (estimated Project Costs)	$6,750,000	$5,327,986	$1,422,014
Construction Total	**$24,102,102**	**$22,605,645**	**$1,496,457**
Service Contracts (Engineering /Consulting /Program Management)			
ACE	$484,286	$484,286	$0
CDM/C&S	$1,446,468	$1,827,770	-$381,302
CME	$109,492	$49,704	$59,788
Department of the Army	$153,504	$153,504	$0
Spectra	$437,996	$437,996	$0
Engineering/Management Total	**$2,631,746**	**$2,953,260**	**-$321,514**
Miscellaneous County Costs			
City of Syracuse	$135,084	$135,084	$0
Consulting (John Clare & Mezey)	$101,425	$101,425	$0
Debt	$116,269	$142,816	-$26,547
Legal	$14,235	$14,235	$0
Other	$13,540	$4,093	$9,447
Miscellaneous Costs Total	**$380,553**	**$397,652**	**-$17,099**
Total	**$27,114,401**	**$25,956,557**	**$1,157,844**

Authorized by Legislature $27,684,286

Onondaga County Lake Improvement Project
Save The Rain Education and Outreach Grant
Summary of Current and Additional Costs, and County Appropriations
April 2014

Funding Sources			Appropriations
Program Funding			
09,10,11 Appropriations			$ 875,000
2011 Suburban Green Infrastructure			$ 200,000
2012 Appropriation			$ 400,000
2011 Trolley Lot Parking Mitigation Appropriation*			$ 125,000
2012 Green grant education			$ 200,000
2013 Green Grant education			$ 400,000
2014 Green Grant education			$ 400,000
Total Appropriation			$ 2,600,000

Funding Uses			
Retz Advertising + Design	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2010/2011 Marketing Services	$ 411,789	$ 411,789	$ -
2012 Marketing Services	$ 224,303	$ 224,303	$ *(0)*
Marketing Services Subtotal	$ 636,092	$ 636,092	$ *(0)*
Environmental Finance Center Education and Outreach	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2011 Education and Outreach	**$ 346,677**	**$ 346,677**	**$ (0)**
2012 Education and Outreach	**$ 241,815**	**$ 241,815**	**$ -**
2013 Education and Outreach	**$ 237,758**	**$ 237,758**	
2014 Education and Outreach			
Environmental Finance Center	*$ 77,265*	*$ 62,082*	*$ 15,183*
SUNY ESF	*$ 63,149*	*$ 2,724*	*$ 60,425*
Onondaga Environmental Institute	*$ 126,970*	*$ 37,257*	*$ 89,713*
Onondaga Earth Corps	*$ -*	*$ -*	*$ -*
Baltimore Woods Nature Center	*$ -*	*$ -*	*$ -*
Centro Campaign	*$ 49,000*	*$ -*	*$ 49,000*
ASLF	*$ -*	*$ -*	*$ -*
Non Labor Expenses (EFC)			
Printing (incl purch serv)	*$ 7,471*	*$ 4,892*	*$ 2,579*
Postage	*$ 300*	*$ 228*	*$ 72*
Travel	*$ 1,426*	*$ 47*	*$ 1,379*
Facilities	*$ 4,960*	*$ 1,640*	*$ 3,320*
Program Related Supplies	*$ 4,968*	*$ 12,553*	*$ (7,585)*
Research eq & demo mat	*$ 23,818*	*$ 22,034*	*$ 1,784*
Indirect/Overhead	*$ 43,319*	*$ 18,125*	*$ 25,194*
2013 Education and Outreach	$ 402,646	$ 161,582	$ 241,064
Education & Outreach Subtotal	$ 1,228,896	$ 987,833	$ 241,063
Miscelaneous Ed/Outreach Expenses	**Contract Amount**	**Expended to Date**	**Difference + (-)**
2010/2011 Miscellaneous Exp.	$ 105,764	$ 105,764	$ -
2012 Miscellaneous Exp.	$ 79,852	$ 79,852	$ -
2013 Miscellaneous Exp	$ 34,158	$ 34,158	$ -
2014 Miscellaneous Exp	$ 464,987		$ 464,987
		$ -	
Travel		$ 3,413	
Purchase card/Petty cash		$ 795	
Image Press		$ 2,700	
Paiges seeds		$ 2,282	
Just th eright stuff		$ 2,056	
Rain berrel reimb (suburban projects)		$ (6,223)	
Media One		$ 400	
Syr Blue Print		$ 122	
Environmental Design and Research	$ 20,000.00	$ 19,000	$ 1,000
2010/2011 media	$ 28,750.00	$ 28,750	$ -
2012 Media	$ 1,500	$ 1,500	$ -
	$ -	$ -	$ -
Miscellaneous Subtotal	$ 735,011	$ 274,569	$ 460,442
STR Education and Outreach Totals	**Contract Amount**	**Expended to Date**	**Difference + (-)**
	$ 2,600,000	**$ 1,898,494**	**$ 701,506**
Remaining Balance			**$ 701,506**

*Trolley lot parking mitigation money is from the Clinton CSO Storage Facility Budget and is funding education and outreach specific to that project.

APPENDIX

March 2014

	FINANCIAL TRACKING SUMMARY: FEDERAL & STATE GRANTS/LOANS APPROVED & RECEIVED										
		NYS	NYS	FED EPA	FED EPA	SHORT-TERM	SHORT-TERM	LONG-TERM	LONG-TERM	ACE	ACE
	PROJECT	GRANT	GRANT	GRANT	GRANT	EFC LOAN	EFC LOAN	EFC LOAN	EFC LOAN	GRANT	GRANT
PROJECT NAME	BUDGET	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED	APPROVED	RECEIVED
METRO - CURRENT											
AERATION SYSTEM UPGRADE	$8,500,000	$5,834,381	$5,834,381			$7,365,000	$6,868,954	$1,049,185	$14,613		
AMMONIA REMOVAL DEMO	$2,000,000	$1,145,109	$1,145,109			Full-Scale	$202,078				
BIOSOLIDS-MECHANICAL THICKENERS (c)								$14,676,422	$14,711,148		
DIGESTER MOD/CHEMICAL STORAGE	$5,600,000	$4,319,819	$4,319,819			$4,938,419	$4,938,419	$775,509	$154,126		
DIGITAL SYSTEM IMPROVEMENTS	$2,900,000	$1,563,317	$1,563,317			$1,849,000	$1,849,000	$285,682	$3,833		
MISCELLANEOUS IMPROVEMENTS	$1,400,000										
ODOR CONTROL	$7,700,000							$7,413,199	$7,389,197		
AMMONIA REMOVAL FULL SCALE/ STAGE II PHOSPHORUS REMOVAL	$190,000,000	$47,331,203	$47,331,203	$54,705,015	$54,705,015	$108,000,000	$105,860,930	$17,200,000	$989,323		
PHOSPHORUS REMOVAL PILOT	$5,000,000					Full Scale	$1,936,991				
CSO - CURRENT											
CLINTON ST CONVEYANCE & RTF	$31,245,000	$54,870,000	$54,870,000			$70,288,890	$41,485,920	$15,603,494	$6,617,575		
ERIE BLVD SEW SEP STORAGE	$3,000,000	$1,700,000	$1,700,000			$2,301,876	$2,094,314	$923,162	$216,543		
FRANKLIN ST FCF	$3,200,000	$3,828,053	$3,828,053			$4,726,762	$4,589,759	$1,179,012	$296,823		
HARBOR BROOK FCF	$250,000	$384,200	$384,200					$343,500	$348,596		
HARBOR BROOK CSO ABATEMENT	$5,444,000	$3,880,000	$3,880,000	$14,003,569	$13,131,503	$53,689,500	$40,339,358				
HIAWATHA INTERCEPTOR/RTF (a)	$8,000,000							$2,710,169	$37,749	$3,406,000	$3,406,000
KIRKPATRICK ST PUMP STATION	$5,642,000	$7,502,302	$7,502,302			$12,000,000	$10,940,632	$4,246,376	$828,115		
MALTBIE ST FCF	$250,000	$211,097	$211,097			$212,000	$188,106				
MIDLAND AVE CONVEYANCE	$3,000,000	$26,055,238	$26,055,238	$34,900,616	$33,525,880						
MIDLAND AVE PHASE II & RTF	$45,000,000					$15,000,000	$15,000,000	$36,550,745	$17,785,646		
MIDLAND AVE PHASE III	$27,000,000					$10,000,000					
MIDLAND AVE MITIGATION COSTS											
NEWELL ST FCF (b)	$1,310,000	$367,737	$367,737								
ONONDAGA CREEK FCF	$3,000,000	$442,154	$442,154								
SEWER SEPARATION (a)	$7,704,000							$11,332,407	$9,494,969	$14,050,177	$14,050,177
SIPHON REHABILITATION	$1,230,000	$870,768	$870,768			$1,435,500	$1,024,433	$140,623	$1,958		
TEALL BROOK FCF	$175,000	$1,045,162	$1,045,162			$1,236,594	$1,094,139	$188,809	$5,743		
WEST ST SEWER SEPARATION	$1,000,000	$2,299,460	$2,299,460			$3,059,716	$2,481,443	$395,540	$6,621		
OTHER											
AMBIENT WATER MONITORING	$8,000,000										
OXYGENATION DEMO	$2,400,000										
SEQR REGULATORY	$50,000										
TOTAL DOLLARS	***$380,000,000**	$163,650,000	$163,650,000	$103,609,200	$101,362,398	$296,103,257	$240,894,476	$115,013,834	$58,902,578	$17,456,177	$17,456,177

***Original budget figures were based on 1997 dollars**

NYS includes awards beyond original pledge (i.e. civic strip)

(a) NOTE: PROJECT IS US ARMY CORPS OF ENGINEERS PROJECT

(b) NOTE: PROJECT RECEIVED $40,500 COST SHARE GRANT FROM (NYSERDA)

(c)NOTE: PROJECT RECEIVED $87,500 COST SHARE GRANT FROM (NYSERDA)

Lake Improvement Project Status Report For The Period Ending 06/30/2014

	Project Title	ACJ START DATE	ACJ FINISH DATE	COUNTY FINISH DATE	ORIGINAL BUDGET(2)	AUTHORIZED BUDGET	ENGINEER
	METRO - Current						
1	AERATION SYSTEM UPGRADE		7/1/2002	01/03/00	$ 8,500,000	$ 6,925,115	EEA
2	AMMON. REMOVAL DEMONSTRATION	11/1/1998	3/1/2000	12/31/99	$ 2,000,000	$ 1,350,000	EEA
3	BIOSOLIDS - MECHANICAL THICKENERS					$ 15,100,000	
4	DIGESTER MOD/CHEMICAL STORAGE		7/1/2002	10/31/00	$ 5,600,000	$ 5,092,545	C&S
5	DIGITAL SYSTEMS IMPROVEMENTS		7/1/2002	06/31/01	$ 2,900,000	$ 3,520,317	Systems Integrated
6	MISCEL. IMPROVEMENTS		7/1/2002	01/31/99	$ 1,400,000	$ 1,400,000	
7	ODOR CONTROL		7/1/2002	12/20/00	$ 7,700,000	$ 8,393,855	OBG
8	AMMONIA REMOVAL FULL SCALE/	10/1/2001	11/1/2003	11/01/03	$ 125,000,000	$ 129,386,187	EEA
	STAGE II PHOSPHORUS REMOVAL	10/1/2003	4/1/2005		$ 65,000,000		
9	PHOSPHORUS REMOVAL - PILOT	4/1/2006	4/1/2007	12/31/00	$ 5,000,000	$ 4,300,000	EEA
	CSO - Current						
10	CLINTON ST. CONVEYANCE/	5/1/2003	5/1/2007	10/28/06	$ 15,987,190	$ 185,500,042	EEA
	CLINTON ST. RTF	5/1/2007	1/1/2012	12/28/10	$ 15,258,090		
11	ERIE BLVD STORAGE SYSTEM		7/1/2002	04/13/02	$ 3,000,000	$ 2,684,523	Barton & Loguidice
12	FRANKLIN ST. FCF	4/26/1999	5/1/2000	05/01/00	$ 3,200,000	$ 5,216,618	EEA
13	HARBOR BROOK FCF		7/1/2002	07/01/02	$ 250,000	$ 889,109	EEA
14	HARBOR BROOK CSO ABATEMENT		7/1/2002		$ 5,443,980	$ 104,800,000	Moffa & Assoc.
15	HIAWATHA INTERCEPTOR/RTF		7/1/2002	12/31/00	$ 8,000,000	$ 6,047,183	EEA/Parsons
16	KIRKPATRICK ST. PUMP STATION		7/1/2002	10/29/02	$ 5,641,860	$ 12,558,335	EEA
17	MALTBIE STREET FCF	8/31/1998	7/1/2002	04/26/99	$ 250,000	$ 362,028	EEA
18	MIDLAND AVE RTF & CSO ABATEMENT	5/1/1999	5/1/2004	12/06/00	$ 75,000,000	$ 135,612,853	EEA
19	MIDLAND AVE MITIGATION COSTS					$ 3,000,000	
20	NEWELL STREET RTF		7/1/2002	07/01/01	$ 1,310,000	$ 473,132	Moffa & Assoc.
21	ONONDAGA CREEK FCF		7/1/2002	07/01/02	$ 3,000,000	$ 648,342	Parsons
22	SEWER SEPARATION		1/1/2012	01/01/12	$ 7,703,880	$ 27,684,286	OBG
23	SIPHON REHABILITATION		7/1/2002	06/11/99	$ 1,230,000	$ 1,026,391	C&S
24	TEALL BROOK FCF		7/1/2002	12/01/01	$ 175,000	$ 1,235,346	EEA
25	WEST ST SEWER SEPARATION	5/1/1999		01/14/00	$ 1,000,000	$ 2,720,572	CHA
26	ERIE BLVD CSO ABATEMENT						New Project
	OTHER						
27	AMBIENT WATER MONITORING		7/1/2002		$ 8,000,000		
28	OXYGENATION DEMO PROJECT	5/1/1999	4/1/2003	02/25/04	$ 2,400,000	$ 10,087	
29	SEQRA REGULATORY COMPLIANCE (1)				$ 50,000	$ 50,000	Parsons
	TOTAL DOLLARS (2)			*	$ 380,000,000	$ 665,986,866	
	***Original budget figures were based on 1997 dollars**						

(1) SEQR costs are reflected in the individual projects under total payments to date

(2) Original budget figures were based on 1997 dollars

Lake Improvement Project Status Report For The Period Ending 06/30/2014

	SOFT COST CONTRACTS	CONSTRUCTION CONTRACT AMOUNTS		TOTAL PAYMENTS TO DATE	FORECASTED COSTS	TOTAL ESTIMATED COST	OVER/UNDER BUDGET	% COMPLETED EXPENDITURES
1	$ 352,747	$ 6,473,110		$ 6,925,115		$ 6,925,115	$ (1,574,885)	100.00%
2	$ 1,346,856			$ 1,347,187		$ 1,347,187	$ (652,813)	100.00%
3	$ 1,266,345	$ 13,131,105		$ 14,815,674	$ 1,980	$ 14,817,654	$ 14,817,654	99.99%
4	$ 748,386	$ 4,357,480		$ 5,092,545		$ 5,092,545	$ (507,455)	100.00%
5	$ 451,713	$ 2,974,514		$ 3,520,317		$ 3,520,317	$ 620,317	100.00%
6				$ 1,400,000		$ 1,400,000	$ -	100.00%
7	$ 999,299	$ 6,956,868		$ 8,393,855		$ 8,393,855	$ 693,855	100.00%
8	$ 21,289,868	$ 106,962,810		$ 128,688,040		$ 128,688,040	$ (61,311,960)	100.00%
9	$ 4,055,734			$ 4,111,714	$ 2,109	$ 4,113,823	$ (886,178)	99.95%
10	$ 32,954,300	$ 120,417,978		$ 149,473,964	$ 36,026,078	$ 185,500,042	$ 154,254,762	80.58%
11	$ 901,556	$ 1,734,929		$ 2,684,523		$ 2,684,523	$ (315,477)	100.00%
12	$ 973,543	$ 3,920,238		$ 4,948,516	$ 2,018,689	$ 6,967,205	$ 3,767,205	71.03%
13	$ 436,363	$ 373,370		$ 889,109		$ 889,109	$ 639,109	100.00%
14	$ 21,719,323	$ 70,717,609		$ 88,042,338	$ 16,757,662	$ 104,800,000	$ 99,356,020	84.01%
15	$ 540,945	$ 5,535,152		$ 6,047,183	$ 3,406,000	$ 9,453,183	$ 1,453,183	63.97%
16	$ 2,520,394	$ 9,882,154		$ 12,558,335		$ 12,558,335	$ 6,916,475	100.00%
17	$ 109,483	$ 152,418		$ 362,028		$ 362,028	$ 112,028	100.00%
18	$ 27,244,196	$ 69,660,834		$ 95,527,204	$ 40,085,649	$ 135,612,853	$ 60,612,853	70.44%
19				$ 3,000,000	$ -	$ 3,000,000	$ 3,000,000	100.00%
20	$ 472,572			$ 473,132		$ 473,132	$ (836,868)	100.00%
21	$ 503,551			$ 648,342		$ 648,342	$ (2,351,658)	100.00%
22	$ 2,428,132	$ 22,988,797		$ 25,956,557	$ 157,788	$ 26,114,345	$ 18,410,465	99.40%
23		$ 1,021,823		$ 1,026,391		$ 1,026,391	$ (203,609)	100.00%
24	$ 320,039	$ 903,566		$ 1,235,346		$ 1,235,346	$ 1,060,346	100.00%
25	$ 403,332	$ 2,311,126		$ 2,720,572		$ 2,720,572	$ 1,720,572	100.00%
26						$ -		
27				$ 18,465,331	$ -	$ -		
28	$ 10,087			$ 10,087		$ 10,087	$ (2,389,913)	100.00%
29								
	$ 122,048,762	$ 450,475,881		$ 588,363,404	$ 98,455,955	$ 668,354,029	$ 296,404,029	

June 2014

	Project Title	TOTAL PAYMENTS TO DATE 06-30-14	TOTAL PAYMENTS TO DATE 03-31-14	Change
	METRO - Current			
1	AERATION SYSTEM UPGRADE	$ 6,925,115	$ 6,925,115	$ -
2	AMMON. REMOVAL DEMONSTRATION	$ 1,347,187	$ 1,347,187	$ -
3	BIOSOLIDS - MECHANICAL THICKENERS	$ 14,815,674	$ 14,815,674	$ -
4	DIGESTER MOD/CHEMICAL STORAGE	$ 5,092,545	$ 5,092,545	$ -
5	DIGITAL SYSTEMS IMPROVEMENTS	$ 3,520,317	$ 3,520,317	$ -
6	MISCEL. IMPROVEMENTS	$ 1,400,000	$ 1,400,000	$ -
7	ODOR CONTROL	$ 8,393,855	$ 8,393,855	$ -
8	AMMONIA REMOVAL FULL SCALE/	$ 128,688,040	$ 128,688,040	$ -
	STAGE II PHOSPHORUS REMOVAL	$ -	$ -	
9	PHOSPHORUS REMOVAL - PILOT	$ 4,111,714	$ 4,111,714	$ -
	CSO - Current			$ -
10	CLINTON ST. CONVEYANCE/	$ 149,473,964	$ 147,597,194	$ 1,876,769
	CLINTON ST. RTF	$ -		$ -
11	ERIE BLVD STORAGE SYSTEM	$ 2,684,523	$ 2,684,523	$ -
12	FRANKLIN ST. FCF	$ 4,948,516	$ 4,948,516	$ -
13	HARBOR BROOK FCF	$ 889,109	$ 889,109	$ -
14	HARBOR BROOK CSO ABATEMENT	$ 88,042,338	$ 85,924,513	$ 2,117,825
15	HIAWATHA INTERCEPTOR/RTF	$ 6,047,183	$ 6,047,183	$ -
16	KIRKPATRICK ST. PUMP STATION	$ 12,558,335	$ 12,558,335	$ -
17	MALTBIE STREET FCF	$ 362,028	$ 362,028	$ -
18	MIDLAND AVE RTF & CSO ABATEMENT	$ 95,527,204	$ 95,407,247	$ 119,957
19	MIDLAND AVE MITIGATION COSTS	$ 3,000,000	$ 3,000,000	$ -
20	NEWELL STREET RTF	$ 473,132	$ 473,132	$ -
21	ONONDAGA CREEK FCF	$ 648,342	$ 648,342	$ -
22	SEWER SEPARATION	$ 25,956,557	$ 25,915,856	$ 40,701
23	SIPHON REHABILITATION	$ 1,026,391	$ 1,026,391	$ -
24	TEALL BROOK FCF	$ 1,235,346	$ 1,235,346	$ -
25	WEST ST SEWER SEPARATION	$ 2,720,572	$ 2,720,572	$ -
26	ERIE BLVD CSO ABATEMENT	$ -	$ -	$ -
	OTHER			
27	AMBIENT WATER MONITORING	$ 18,465,331	$ 18,237,370	$ 227,961
28	OXYGENATION DEMO PROJECT	$ 10,087	$ 10,087	$ -
29	SEQRA REGULATORY COMPLIANCE	$ -	$ -	$ -
				$ -
	TOTAL DOLLARS	$ 588,363,404	$ 583,980,190	$ 4,383,214

Chronology
of
Project Construction Starts

	Status	Location
Pre-ACJ Signing (1/20/98)		
• General Improvements	Complete	Metro
• Odor Control and Residuals Handling	Complete	Metro
1998		
• Digital Systems Upgrade	Complete	Metro
• Ammonia Removal Demonstration	Complete	Metro
• Aeration System Upgrade	Complete	Metro
• Hiawatha RTF - ACOE	Complete	Regional Market
• Newell St. RTF Demo/Improvements	Complete	W.Newell/Vale St.
• Maltbie St. FCF	Complete	Maltbie/Plum St.
• Siphon Rehab	Complete	Various
1999		
• Digester Modifications/Chemical Storage	Complete	Metro
• Franklin St. FCF	Complete	I-690/Franklin
• West Street Sewer Separation	Complete	W. Genesee, Plum, Tracy, N. West St.
• Ammonia Trackdown	Complete	Metro
2000		
• Midland Ave. Conveyance Phase I	Complete	Tallman/Oxford St.
• Phosphorus Removal – Phase I Pilot	Complete	Metro
2001		
• Erie Blvd. Storage System Upgrade	Complete	Franklin to Teall
• Full Scale Ammonia Removal/ Stage II Phosphorus Removal	Complete	Metro
• Kirkpatrick St. Pump Station & Force Main	Complete	Kirkpatrick St.
• Onondaga Creek FCF	Complete	Inner Harbor
• Teall Brook FCF	Complete	Teall Ave.
• Water Street Sewer Separation (CSO 024)	Complete	Water Street
2002		
• Harbor Brook FCF	Complete	W.Hiaw./I-690
• Brighton Ave Sewer Separation (CSO 053/054)	Complete	Brighton/Bishop Ave

Project	Status	Location
2004		
• Tallman/Onondaga Sewer Separation (CSO 038, 040, 046A &046B)	Complete	Tallman/Onondaga
• Midland Phase II RTF/Conveyances	Complete	Blaine/Oxford St.
2005		
• Phosphorus Removal – Phase II Pilot	Complete	Metro
• Biosolids Handling Improvements	Complete	Metro
2006		
• Sewer Separation – CSO 047 & 048	Complete	South Ave/ Bissell St.
2007		
• Sewer Separation – CSO 050	Complete	Parkway/Rockland
• Clinton Phase I Conveyances	Complete	
2008		
• Clinton Phase IIA Conveyances	Complete	
2009		
• Sewer Separation – CSO 051	Complete	Colvin St.
2010		
• Harbor Brook Interceptor Sewer	Authorized/Underway	Velasko/Fayette
2011		
• Midland CSO 044	Completed	W. Castle/South Ave
• Clinton Storage Facility	Met ACJ Milestone	Armory Square
• Lower Harbor Brook (Conveyance & Storage)	Met ACJ Milestone	Hiawatha/State Fair Blvd.
• Save the Rain Green Projects	Completed	Various
• CSO 022 Sewer Separation Project	Completed	West Genesee/Franklin
• CSO 045 Sewer Separation Project	Completed	South Avenue
2012		
• Save the Rain Green Projects	Completed	Various
2013		
• Save the Rain Green Projects	Completed/Underway	Various

CONTRACTORS FOR
CONSTRUCTION PROJECTS
Metro Treatment Plant

AERATION SYSTEM UPGRADE	
Bongiovanni Construction (General)	$ 5,626,956.41
Ridley Electric (Electrical)	$ 846,154.00
DIGITAL SYSTEM UPGRADE	
Systems Integrated	$ 2,974,514.27
ODOR CONTROL CONTRACT #1	
Falconet, Inc. (General)	$ 4,872,660.53
Scriba Electric (Electrical)	$ 315,580.30
Burns Bros. (Heating/Ventilation)	$ 82,459.00
Burns Bros. (Plumbing)	$ 50,168.00
ODOR CONTROL CONTRACT #2	
Murnane Construction	$ 1,636,000.00
PHASE III IMPORVEMENTS CONTRACT 1 - DIGESTER & LAGOON IMPROVEMENTS	
Maxim Construction	$ 645,730.74
PHASE III IMPROVEMENTS CONTACT 2 - CHEMICAL STORAGE & FEED FACILITIES	
C.O. Falter Construction Corp. (General)	$ 2,527,300.08
Barry & Barry Electrical Co. (Electrical)	$ 193,665.22
Burns Bros. (HVAC)	$ 224,232.51
Edward Joy Company (Plumbing)	$ 38,669.35
PHASE III IMPROVEMENTS CONTRACT 3 - DIGESTER & LAGOON CLEANING	
Waste Stream Environmental Inc.	$ 727,881.80
FULL SCALE AMMONIA/PHOSPOHORUS REMOVAL - FIELD OFFICE	
James & Son Constrcution	$ 28,388.00
Resun Leasing, Inc.	$ 112,224.00
Ridley Electric Co.	$ 32,295.00
Burns Brothers	$ 18,440.00
FULL SCALE AMMONIA/PHOSPHORUS REMOVAL	
U.S. Filter - Kruger Products, Inc.	$ 8,261,182.00
U.S. Filter - Kruger Products, Inc.	$ 3,918,080.00

CONTRACTORS FOR
CONSTRUCTION PROJECTS
Metro Treatment Plant

FULL SCALE AMMONIA/PHOSPHORUS REMVOAL

SITE PREPARATION - CONTRACT 2

C.O. Falter Construction Corp. (General)	$ 22,243,604.98
Ridley Electric (Electrical)	$ 255,627.00
C.O. Falter Construction Corp. (Pile Testing)	$ 431,008.00
Moretrench Environmental	$ 4,602,086.57

PILE INSTALLATION - CONTRACT 3

M.A. Bongiovanni Construction	$ 9,045,731.95

GENERAL - CONTRACT 4

The Pike Company (General)	$ 46,860,263.46
Ridley Electric Co. (Electrical)	$ 6,927,238.00
Edward Joy Company (HVAC)	$ 3,009,057.61
Burns Brothers (Plumbing/Fire Protection)	$ 1,217,583.74

BIOSOLIDS HANDLING IMPROVEMENTS

C. O. Falter Construction Corp. (General)	$ 10,929,016.19
Ridley Electric (Electrical)	$ 1,476,223.00
Airside Technology (HVAC)	$ 532,187.00
Burns Bros. (Plumbing)	$ 173,679.09
Independent Fiedl Svs (Cogen)	$ 20,000.00

CSO's

CLINTON CONVEYANCES PHASE I & 2A

The Delaney Group, Inc.	$ 14,478,053.39
The Delaney Group, Inc.	$ 4,074,455.32
SIDA	$ 2,634,999.43
MOU (City of Syracuse)	$ 168,000.00
MOU City of Syracuse (Connective Corridor)	$3,825,000.00

CLINTON CSO ABATEMENT

Ruston Paving (Farmers' market Lot)	$ 188,046.14
Davis Wallbridge (Pearl St/Lot 3)	$ 635,873.93
Davis Wallbridge (Townsend St.)	$ 476,625.39
J&B (Pirro Conv. Center)	$ 1,083,727.39
C.O. Falter (War Memorial)	$ 692,298.87
Ridley (War Memorial)	$ 447,957.66
Economy Paving (On Center)	$ 1,094,119.49
J&B (Erie Canal Museum)	$ 73,480.00
Jett Industries (Clinton Storage)	$ 76,032,507.05
Joy Process Mechanical (Cistern War Memorial)	$ 82,615.00
C&S Technical (Cistern War Memorial)	$ 233,652.56
Green Culture (Rain Barrels)	$ 44,335.50
Syracuse Utilities (Duct Bank)	$ 59,982.56
Water Cooling Corp. (Storage Tank)	$ 2,875.00

CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)

MOU City of Syracuse (Road Reconstruction)	$	368,169.73
MOU City of Syracuse (Dr. Weeks)	$	89,000.00
MOU City of Syracuse (Bank Alley)	$	108,000.00
MOU City of Syracuse (Upstate)	$	1,500,000.00
Walbridge (Streetscape/Water St)	$	1,432,437.86
Ruston Paving (Sunnycrest Parking Lot)	$	410,372.20
MA Bongiovanni Inc.	$	3,000.00
Acts II Construction (Skiddy Park)	$	550,916.44
D.E. Tarolli (Otisco Street)	$	1,847,459.81
Orchard Earth & Pipe (Syr School dist Park Lot)	$	430,172.42
Slate Hill Construction (E. Water St)	$	147,952.84
Davis Wallbriddge (Onon Cty Pub Library)	$	320,291.95
Tumbers, Schichtels Nursery (Trees), Martisco	$	458,473.65
Acts II (Seymour Academy)	$	373,309.00
Paul R. Vitale (City Lot 4)	$	607,852.44
John R. Dudley (Leavenworth Park)	$	719,311.20
VIP (Onon Public Library)	$	54,160.06
Ballard Construction (Westcott Comm Ctr)	$	52,500.00
Cornerstone Paving (Oswego St)	$	109,046.54
John Dudley Construction (W. Onondaga St.)	$	1,265,474.00
Barrett Paving (W. Fayette St.)	$	588,982.07
Davis Wallbriddge (Westcott St.)	$	870,263.89
ProScapes (Sunnycrest Arena)	$	87,585.22
Acts II (E. Washington St)	$	790,819.78
John R. Dudley (690 Downspout)	$	597,965.65
Jeffrey DeRoberts (GIF)	$	99,311.00
King & King Architects (GIF)	$	100,000.00
Jefferson Clinton Commons (GIF)	$	100,000.00
ESF Foundation, Abby Lane Housing (GIF)	$	78,000.00
Hotel Skyler (GIF)	$	100,000.00
Near West Side Initiatives, Inc. (GIF)	$	22,730.69
Near West Side Initiatives, Inc. (GIF)	$	78,000.00
Tash Taskale (GIF)	$	100,011.00
St. Lucy's Church (GIF)	$	125,000.00
Putnam Properties (GIF)	$	75,757.00
Centro (GIF)	$	65,390.00
500 W. Onondaga St. Inc. (GIF)	$	52,740.00
CNY Jazz Arts Foundation (GIF)	$	52,188.00
Jim & Juli Boeheim Foundation (GIF)	$	163,203.51
Home Headquarters, Inc. (GIF)	$	40,500.00
Galleries of Syr, 147 E. Onondaga St. (GIF)	$	100,000.00
Syracuse Housing (GIF)	$	120,290.00
Kopp billing Agency (GIF)	$	25,300.00
American Beech (GIF)	$	53,050.00
Park Central Presbyterian Church (GIF)	$	61,050.00
CNY Philanthropy (GIF)	$	62,700.00
Loon Creek (GIF)	$	137,350.00

CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)

NHW Syracuse (GIF)	$	126,900.00
McMahan/Ryan Child Advocacy (GIF)	$	178,050.00
St. Lucy's Church (GIF)	$	17,700.00
Bethany Baptist Church (GIF)	$	306,473.50
St. Lucy's Church (GIF)	$	69,000.00
500 W. Onondaga St. Inc. (GIF)	$	34,347.00
Onondaga Commons LLC (GIF)	$	124,200.00
Onondaga Commons LLC (GIF)	$	199,500.00
Onondaga Commons LLC (GIF)	$	198,949.00
Onondaga Commons LLC (GIF)	$	77,800.00
Gemmi Boy (GIF)	$	47,537.00
Mr. Lady Bug (GIF)	$	46,700.00
Grace Episcopal Church (GIF)	$	99,000.00
Snapse Downtown (GIF)	$	35,700.00
360 Warren Associates (GIF)	$	107,864.00
Housing Visions Unlimited (GIF)	$	194,650.00
Near West Side Initiatives, Inc. (GIF)	$	34,500.00
Scannell Properties (GIF)	$	204,000.00
Genesee Armory (GIF)	$	144,400.00
Third National Associates (GIF)	$	533,300.00
Center for Peace & Social Justice (GIF)	$	57,700.00
Graham Millwork (GIF)	$	123,326.00
Onondaga Commons LLC (GIF)	$	124,100.00
Onondaga Commons LLC (GIF)	$	33,400.00
Onondaga Commons LLC (GIF)	$	294,300.00
PEACE (GIF)	$	52,200.00
Syracuse Business Center (GIF)	$	288,400.00
Erie Bruce Corp (GIF)	$	151,700.00
Visiting Nurses Association (GIF)	$	65,800.00
Near West Side Initiatives, Inc. (GIF)	$	94,300.00
JNJ Syracuse (GIF)	$	50,600.00
UAS (GIF)	$	57,600.00
Brewster Medical (GIF)	$	221,000.00
Southside Community (GIF)	$	59,800.00
J C Smith Inc. (GIF)	$	79,800.00
Burnet Railroad (GIF)	$	357,400.00
Taksum Assoc. (GIF)	$	54,300.00
Zip Networks (GIF)	$	276,529.00
Ra lin Inc. (GIF)	$	221,350.00
Ra lin Inc. (GIF)	$	206,450.00

ERIE BOULEVARD STORAGE SYSTEM

M. Hubbard Construction	$	1,556,752.00
Rdiley Electric (Electrical)	$	154,059.00
Endeco/YSI (SE33923)	$	24,117.90

CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)

FRANKLIN STREET FCF

Burns Bros (Mechanical)	$ 179,167.67
Scriba electric (Electrical)	$ 144,640.61
Burns Bros. (Plumbing)	$ 28,400.00
Maxim	$ 3,568,029.43

HARBOR BROOK CSO ABATEMENT

Joseph J. Lane Construction (Interceptor Sewer Replacement)	$ 23,432,053.20
Bette Cring (Elephant Barn Greening)	$ 207,701.00
John Dudley Construction (Geddes St)	$ 279,068.06
J&B Installaions (Hazard Library/Erie Canal Museum)	$ 67,275.00
Economy Paving (Rosamond Gifford Zoo)	$ 688,638.00
J.J. Lane (Lower HB)	$ 5,249,753.76
A.J. Montclair (HB CSO Storage)	$ 260,000.00
C.O. Falter (HB CSO Storage)	$ 29,735,100.06
Davis Wallbridge (Onon Cty Pub Library)	$ 378,920.43
Cornerstone Paving (Parking Lots)	$ 149,195.48
Green Culture	$ 80,665.00
Tumbers, Schichtels Nursery (trees), Proscapes	$ 242,142.46
City of Syracuse	$ 3,342,875.63
VIP	$ 54,160.06
Steadman Old Farm	$ 11,480.00
Butler	$ 11,338.85
OnSite	$ 8,755.00
J J Lane (CSO 18)	$ 4,139,341.70
Patricia Electric (Wetland Pilot)	$ 120,440.00
MOU City of Syracuse (Road Reconstruction)	$ 138,165.00
Davis Wallbridge (Wadsworth Park)	$ 345,524.55
Acts II (Lewis Park)	$ 217,285.58
Knapp Electric (Wetlands)	$ 41,856.00
Vitale Excavating (Bedding Sand)	$ 232,533.35
Bette Cring (Zoo Wetlands)	$ 1,283,643.45
DE Tarolli (Green Structures)	$ 8,629.00
J & J Landscape	$ 2,407.00
Vibrant Spaces, LLC (GIF)	$ 153,618.00
NYSARC, Inc. (GIF)	$ 78,907.14
Consuela's Westside Taqueria (GIF)	$ 29,988.00
Consuela's Tato Britter (GIF)	$ 8,249.50
James Ranalli, W. Genesee (GIF)	$ 616,100.00
Vibrant Spaces, LLC (GIF)	$ 198,680.00
Brooklyn Pickle (GIF)	$ 30,555.00
St. Patrick's Loft (GIF)	$ 177,300.00
Smith Housing (GIF)	$ 52,600.00
All Times (GIF)	$ 76,500.00

CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)

HARBOR BROOK FCF	
C.O. Falter Construction Corp. (General)	$ 373,370.21
KIRKPATRICK ST. PUMP STATION & FORCE MAIN	
C.O. Falter Construction Corp.	$ 4,398,009.12
C.O. Falter Construction Corp.	$ 4,425,766.31
Patricia Electric	$ 761,184.63
King & King Mechanical	$ 245,569.51
G.J. Adams Plumbing	$ 51,624.16
MALTBIE STREET FCF	
Over & Under Piping	$ 152,418.00
MIDLAND AVENUE CONVEYANCES	
Marcellus construction (General)	$ 1,836,434.47
MIDLAND AVENUE PHASE II CONVEYANCES & RTF	
Empire Dismantlement Corp. (Demolition)	$ 457,681.50
Murnane Building Contractors, Inc. (General)	$ 47,929,392.75
Ridley Electric Company (Electrical)	$ 2,904,771.00
Edward Joy Company (HVAC)	$ 2,053,808.50
Edward Joy Company (Plumbing)	$ 484,717.17
MIDLAND AVENUE PHASE III CONVEYANCES	
Titan Wrecking & Environmental, LLC (Demolition)	$ 290,801.39
J.J. Lane	$ 12,296,549.05
Acts II (Hugh's Magnet School Parking Lot)	$ 314,439.81
Davis Wallbridge (Onon Cty Pub Library)	$ 116,033.35
VIP (Onon Public Library)	$ 27,080.03
Green Culture (Rain Barrels)	$ 44,335.50
Tumbers, Schichtels Nursery (Trees)	$ 87,293.50
Weather Guard Tecta (USPO Salina St)	$ 242,860.00
MOU City of Syracuse (Road Reconstruction)	$ 408,332.04
MA Bongiovanni (storage Tank)	$ 66,130.00
MOU City of Syracuse (ESF)	$ 100,000.00
Jubilee Homes of Syracuse (GIF)	$ 100,000.00
Dunbar Association, Inc. (GIF)	$ 99,840.00
Syracuse Model Neighborhood (GIF)	$ 250,000.00
Alexander Property West (GIF)	$ 81,000.00
People's AME Zion Church (GIF)	$ 61,400.00
People's Community Dev. Corp (GIF)	$ 80,825.00
Salina Shoe Salon (GIF)	$ 48,000.00
People's AME Zion Church (GIF)	$ 80,677.00
Matawon Development Group (GIF)	$ 24,214.00
Lauren Tawil (GIF)	$ 212,400.00

CONTRACTORS FOR
CONSTRUCTION PROJECTS
CSO's (cont)

SEWER SEPARATION - CSO 022/045	
Joy Process Mechanical (Plumbing)	$ 853,536.68
Joseph J. Lane Construction	$ 4,867,219.35
SEWER SEPARATION - CSO 024	
C.O. Falter Construction Corp.	$ 698,863.74
SEWER SEPARATION - CSO 053/054	
C.O. Falter Construction Corp.	$ 2,000,817.40
SEWER SEPARATION - CSO 038, 040, 046A&B	
C.O. Falter Construction Corp.	$ 3,524,487.29
SEWER SEPARATION - CSO 047 & 048	
C.O. Falter Construction Corp.	$ 1,654,022.34
SEWER SEPARATION - CSO 050	
Joseph J. Lane Construction	$ 4,360,527.06
SEWER SEPARATION - CSO 051	
Joseph J. Lane Construction	$ 5,029,323.00
SIPHON REHABILITATION	
Insituform Metropolitan	$ 1,021,822.99
TEALL BROOK FCF	
C. O. Falter Construction Corp. (General)	$ 877,095.43
Scria Electric (Electrical)	$ 26,470.20
WEST STREET AREA SEWER SEPARATION	
Maxim Construction (General)	$ 2,311,125.85

WEP ACRONYMS

ACJ	Amended Consent Judgment
AMP	Ambient Monitoring Program
AMSA	Association of Metropolitan Sewerage Agencies
ARRA	American Recovery and Reinvestment Act
ASLF	Atlantic States Legal Foundation
AWQS	Ambient Water Quality Standards
BAF	Biological Aerated Filter (Biostyr)
BMP	Best Management Practices
BOD	Biological Oxygen Demand
BPJ	Best Professional Judgment
Brew	WEP's Standard Abbreviation for the Brewerton Wastewater Treatment Plant
Bville	WEP's Standard Abbreviation for the Baldwinsville Wastewater Treatment Plant
CAA	Clean Air Act
CALM	Consolidated Assessment and Listing Methodology
CAMP	Community Air Monitoring Plan
CIP	Capital Improvement Plan
CMOM	Capacity, Management, Operation, and Maintenance
CSLAP	Citizens Statewide Lake Assessment Program
CSO	Combined Sewer Overflow
CWA	Clean Water Act
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EBM	Ecosystem-Based Management
ECL	Environmental Conservation Law
ECM	Energy Conservation Measures
EECBG	Energy Efficiency and Conservation Block Grant
ELAP	Environmental Laboratory Approval Program
EMS	Environmental Management System
ERM	Environmental Resource Mapper
FCF	Floatable Control Facility
FOG	Fats, Oil, and Grease
GIF	Green Improvement Fund

HRFS	High Rate Flocculation Settling
I & I	Inflow & Infiltration
IW	Industrial Wastewater
km	Kilometers
km^2	Square Kilometers
LA	Load Allocations
LF	Linear Feet
m	Meters
MCP	Municipal Compliance Plan
MDV	Multiple Discharge Variance
Metro	WEP's Standard Abbreviation for the Metropolitan Syracuse Wastewater Treatment Plant
MGD	Million Gallons Per Day
mg/L	Milligrams Per Liter
MIS	Main Interceptor Sewer
ML	WEP's Standard Abbreviation for the Meadowbrook/Limestone WWTP
MS4s	Municipal Separate Storm Sewer Systems
mt	Metric Tons
NACWA	National Association of Clean Water Agencies
NBP	National Biosolids Partnership
NELAC	National Environmental Laboratory Accreditation Conference
NPDES	National Pollutant Discharge Elimination System
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSEFC	New York State Environmental Facilities Corp.
NYWEA	New York Water Environmental Association
OAK	WEP's Standard Abbreviation for the Oak Orchard WWTP
OLP	Onondaga Lake Partnership
OLWQM	Onondaga Lake Water Quality Model
OU	Odor Unit
P2	Prevention Program
P2CO	Prevention Program County Operations
PdM	Predictive Maintenance

PIDs	Photo-ionization Detectors
PFRP	Process to Further Reduce Pathogens
PLA	Project Labor Agreement
POTW	Publicly Owned Treatment Works
PWL	Priority Waterbodies List
RTF	Regional Treatment Facility
SCA	Sediment Consolidation Area
SCADA	Supervisory Control and Data Acquisition
SEPS	Secondary Effluent Pump Station
SEQR	State Environmental Quality Review
SGIP	Suburban Green Infrastructure Program
SHB	Solids Handling Building
SMPs	Storm Water Management Practices
SOP	Standard Operating Procedure
SORP	Sewer Overflow Response Plan
SPCC	Spill Prevention, Control, and Countermeasures
SPDES	State Pollutant Discharge Elimination System
SRP	Soluble Reactive Phosphorus
SSES	Sanitary Sewer Evaluation Study
SSI	Sewage Sludge Incinerator
SSV	Site-Specific Variance
SUNY-ESF	State University of New York College of Science and Forestry
SWMM	Storm Water Management Modeling
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
TBEL	Stechnology-Based Effluent Limits
TDP	Total Dissolved Phosphorus
TMDL	Total Maximum Daily Load
TP	Total Phosphorus
TSI	Trophic State Index
UAA	Use Attainability Analysis
UFI	Upstate Freshwater Institute
ug/l	Micrograms per Liter
USEPA	United States Environmental Protection Agency

USFWS	United States Fish and Wildlife Service
USGBC	United States Green Building Council
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
WAN	Wide Area Network
WLA	Waste Load Allocations
WEF	Water Environment Federation
WEP	Water Environment Protection
WET	Whole Effluent Toxicity
WLA	Waste Load Allocations
WQBEL	Water Quality-Based Effluent Limits
WR	WEP's Standard Abbreviation for the Wetzel Road Wastewater Treatment Plant
WSE	Waste Stream Environmental