

2016

# THE WATER INFRASTRUCTURE INVESTMENT GAP FOR NEW YORK STATE'S FUTURE



**Report:**  
**Clean Water Infrastructure  
Needs for Communities in  
Westchester County and the  
Hudson Valley**

CAI



CIC





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## A Message from Ross J. Pepe

The Hudson River and Long Island Sound glisten as they serve as the undisputed epicenters of the region, unparalleled attractions for commerce and recreation with their vast stretches of natural beauty.

But as picturesque as they may appear, both bodies of water also play protective roles as the entry point for many of the region's wastewater and aging infrastructure facilities. As these systems begin to fail, it is critical that municipalities along the shoreline and throughout the region modernize and repair their wastewater treatment systems.



Ross J. Pepe is president of the Construction Industry Council of Westchester & Hudson Valley, Inc., and executive director of the Construction Advancement Institute of Westchester & Mid-Hudson, Inc.

### *About the CIC*

*The Construction Industry Council of Westchester & Hudson Valley, Inc., is a professional trade organization representing more than 600 businesses that are at the core of the region's construction industry. These include contractors, suppliers, consultants and other professionals servicing the construction and building industries. CIC maintains day-to-day contact with local and state government officials who are responsible in managing the region's public infrastructure and institutional facilities.*

### *About the CAI*

*The Construction Advancement Institute is a management initiative that aims to ensure the prosperity, safety and well-being of communities in Westchester and the Lower Hudson Valley. The CAI is affiliated with the Building Contractors Association of Westchester & Mid-Hudson Region, Inc., which represents some 50 employers and thousands of employees.*

***“Working together for the future.”***





## **Report on the Clean Water Infrastructure Needs for Communities in Westchester County and the Hudson Valley**

Fall 2016

Construction Industry Council of Westchester & Hudson Valley, Inc.  
Construction Advancement Institute of Westchester & Mid-Hudson, Inc.

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The Building & Construction Trades Council of Rockland County, Inc.

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The Rockland Business Association





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## ***Executive Summary***

**AGING INFRASTRUCTURE NEEDS:** The Hudson River and Long Island Sound estuaries are the two most defining natural resources of Westchester County and the Hudson Valley. Both bodies play pivotal roles for commerce, recreation, environmental protection and rejuvenation of nature's myriad of ecosystems. In essence, they are centerpieces of life in the Downstate and Mid-Hudson regions.

There are other essential functions they play in our complex society and bustling economies. Namely, they are also centerpieces in the management of wastewater in Westchester and the Hudson Valley as well as providing some communities with drinking water. In times of severe drought, water distributed by a pumping station south of Poughkeepsie on the Hudson River is pressed into service to provide more than 100 million gallons of drinking water per day to millions of customers 55 miles to the south in New York City.

As aging infrastructure begins to fail, so does the quality of our waters and ability to control pollution. It is critical that investments be made to modernize and repair the region's sewage treatment facilities and that improvements are made to our drinking water systems. It is the only way to protect the increasing population and the challenges to the environment in the region that are posed by the indefatigable demands for services. We must keep our waterways safe, our drinking water purified and our countless micro and macro ecosystems functioning properly.

These investments help the environment and the economy of the region by protecting public health, water-based businesses and recreation – and thereby create jobs and improve the quality of life. In 2008, under then-Governor David Patterson, New York State formed the Clean Water Collaborative co-chaired by Ross J. Pepe of the Construction Industry Council and Robert F. Kennedy, Jr., of the Waterkeeper Alliance. In its final resolution, the Task Force studied and announced a staggering public price tag of more than \$74 billion needed to maintain our vast networks that address water:

- **Wastewater infrastructure needs in the State over a 20-year period is \$36.2 billion**
- **Clean drinking water infrastructure needs in the State over the same time period is \$38 billion**





More recently, the Environmental Protection Agency released its nationwide Clean Water Wastewater Infrastructure Needs Survey in 2014 and found that New York State still had \$31.439 billion in capital investment needed for its wastewater systems over next the two decades, with much of the work needed now to make facilities fully operational. The EPA found that in New York State 42% of these costs were directly related to sewage treatment facilities and 58% of these costs were tied directly to sewer line, combined sewer overflows, storm water management systems and other basic water infrastructure needs. Comparable numbers were found for drinking water systems in the State. These burdens cannot be taken on by local communities alone and State and Federal resources are needed to restore these wastewater systems, purify our drinking water and spur our economies.

It is clear that now is the time to invest in our Clean Water Infrastructure. It is also clear that Westchester and Hudson Valley region have needs as great as anywhere in the State of New York. Hudson Valley Pattern for Progress, Inc. estimated in its 2015 and 2016 Hudson Valley Infrastructure Reports that many wastewater treatment systems exceed their maximum capacity to treat wastewater, especially during major storm events. The Newburgh based think tank recommended more assistance to communities to meet this challenge.

**NOW THE GOOD NEWS:** Currently there is an unprecedented investment in grant funds available from New York State to communities for clean water projects. With the leadership of Governor Andrew Cuomo and the State Legislature, the New York State Water Infrastructure Improvement Act of 2015 was enacted and provided grant funds to communities statewide for projects (\$425 million authorized to date). With a cap of \$5 million per municipality and/or County – coupled with low-interest loans and technical assistance – the Environmental Facilities Corporation (EFC) is now making substantial and meaningful grants to communities. New York State Department of Environmental Conservation (NYSDEC) also has Clean Water and Restoration grants as well as engineering assistance funds under its own Water Quality Improvement Program (WQIP). These grant fund programs can provide communities with millions of needed dollars to invest in water-quality systems.

As of August 31, 2016, New York State had allocated some \$250 million of the EFC \$425 million dollar program under its competitive and needs-based scoring



system. The grants were awarded in December of 2015 and in August of 2016. This rapid release of funds demonstrated the back log of projects in New York State. While the NYS Water Infrastructure Improvement Act is a great first step, more investments will be needed in the future. Hudson Valley communities will need to do their part by planning and applying for these funds with ready to go projects. While many communities in the region have applied, many have not. The following report provides an assessment of applications to date and projected needs for the region based on a significant sample size of communities surveyed and government reports. Respondents echoed that this is a critical issue that must receive even more attention by all levels of government.

While Westchester and Hudson Valley communities must take advantage of these opportunities in the next Round (Round III in 2017) with \$175 million of the Environmental Facilities Corporation's (EFC) grant program available, it is also critical for the State to continue and expand these investments well into the future. The Hudson Valley and Westchester communities have current and future needs that warrant their support and they deserve to receive their fair share of these funds to upgrade their facilities for the 21<sup>st</sup> century.

### **Summary of Findings**

From late June to August 2016, more than 40 communities or counties were contacted by phone or email and cross referenced with NYS's award announcements to determine if they applied for Water Infrastructure grants in Round II. Initially, wastewater treatment plant information was obtained from close to 100 SPDES permits in NYSDEC Region Three and updated through web-site searches, calls and emails. From this sample size, local government response and state records indicated they have applied in Round II of the EFC's program (deadline 6/20/16) for grants totaling **\$61,368,131**. Maximum grants per community in the wastewater/drinking water capital projects category were \$5 million. Grants ranged in size from \$250,000 to the full \$5 million and six grant requests were for drinking water systems with the remainder of grants for wastewater capital needs. The total project cost for these communities, including the financing of **\$97,230,979** (needed in addition to their grants for project completion), was estimated at **\$158,549,110**.

From these Round II application totals, 13 grants were awarded in the Hudson Valley totaling **\$28,907,476** in funds. An additional **\$74,110,509** was financed





for these projects through EFC low-interest loan program making up the difference and bringing the total cost of these projects to **\$103,017,987**.

In Round I, which was awarded in December of 2015, **\$5,413,473** of funding was allocated to five communities in the Hudson Valley (Pawling, Cornwall, Liberty, Middletown and City of Poughkeepsie) with an additional **\$15,941,763** awarded to these communities in low-interest financing for the balance of their project costs. Round I total wastewater capital project costs were estimated at **\$21,355,236**.

Based on awarded grants and financing to date and the additional communities who applied in Round II, there is currently more than **\$180 million** of Clean Water/Drinking Water infrastructure projects underway or ready to go in the Hudson Valley. If one were to add Westchester County's Tarrytown Pump Station and Forcemain Rehabilitation project as well as the County's capital needs estimated for 2017, the total exceeds **\$250 million**.

An analysis and extrapolation of these findings as well as data from other government reports was completed. Using information in NYS's Draft 2017 Clean Water Intended Use Plan, more than **\$600 million** in additional multi-year Clean Water Infrastructure capital needs in this region was identified beyond the **current \$250 million** listed above. While the 2017 Draft Intended Use Plan for Drinking Water Facilities is still in draft form, when completed it will list projects that will require hundreds of millions of dollars more, thus putting the overall Clean Water Infrastructure needs of region well in excess of **\$1 billion**.

In order to put together this information, most major communities or facilities in the region were contacted and included in the report's sample size. While some communities did not have current capital projects ready to go at the time this report was produced, there were instances of reports that major projects projected within the next five years are likely. Not all communities were contacted, and in these cases additional information sources were used to study the state of infrastructure needs. This report used information in the EFC's Round I and Round II grant award announcements as well as the State's 2017 Draft Intended Use Plan, which lists hundreds of millions of dollars in multi-year projects needed in the region.



### **Conclusion: Funding Needs for the Future**

Based on the information gathered, current EFC estimates and information in federal and state agencies long term capital needs reports, Clean Water Infrastructure costs in Westchester and Hudson Valley far exceed available State grant funds. Even with grants awarded to date, less than 30% of the total grant requests were funded. This trend applies to the entire State of New York and does not account for additional projects that are in the pipeline from communities that were contacted. It was reported at an EFC workshop that the program had received over \$550 million in grant requests state-wide in Round II, with only \$175 million available in grants.

This report documents that the communities in the region seeking future grants in Round III of the EFC program will have project costs ranging in the hundreds of millions of dollars. Other communities are still at the stage of developing engineering and financial reports to be project ready. In order for them to have a complete application for consideration, many will be required to finalize final designs, reports, engineering and provide the necessary documentation.

NYS Environmental Facilities Corporation's Clean Water Infrastructure Grants program is vital to the Hudson Valley to meet these short- and long-term needs. It not only provides grants, but leverages several times more dollars for the financing of these projects. With the leadership of Gov. Cuomo and the State Legislature, a giant first step has been taken when some \$350 million in grant funds were added in 2016. Now is the time to continue addressing the needs of communities in all regions across the State of New York.

Therefore, under the leadership of the Construction Industry Council of Westchester and the Hudson Valley and the Construction Advancement Institute, a partnership with members of the historic Clean Water/Jobs Coalition and the Clean Water Collaborative (members listed) join together to call for additional clean water grant funds for the region and the statewide program. For years, the Clean Water Jobs Coalition fought successfully for federal and state funds to clean the waters of Long Island Sound and create jobs for the region. It is now time to once again put its effectiveness into action.



The partnership and clarion call for more grant funds will bring together construction, union, public policy, business, municipal and environmental organizations to advocate for continuation and expansion of the Clean Water Infrastructure program. It is clear the program truly benefits the economy and environment of the region. As this program cleans our waters, it also boosts our economy by creating jobs. In 2008, the Clean Water Collaborative cited that for every billion dollars invested in clean water infrastructure systems, between 30,000 and 47,500 jobs (direct and indirect) are created. Together Clean Water and Jobs are the true end results of this effort.

**INVEST IN CLEAN WATER – INVEST IN JOBS:** The theme for the public-awareness campaign, “Invest in Clean Water – Invest in Jobs,” results from the needs-analysis of this study. The campaign calls for an **additional \$800 million** in clean water grant funds to be allocated statewide for this program in the coming FY 2017/2018 budget, which begins April 1, 2017.

In addition, the Clean Water/Jobs campaign will call for the reauthorization of the Water Infrastructure Improvement Act of 2015 as a permanent state program with annual funding levels.

It is only through these newly proposed budget allocations and the reauthorization of the legislation that New York municipalities will be able to truly clean our waters, purify our drinking water and help our local governments meet their infrastructure needs and pollution-control responsibilities. In turn, the program will create jobs and improve the quality of life through our region.

A full listing of outreach completed, grants awards, responses from communities and information from government reports follows. More outreach with state government agencies, local communities and others will be done in order to continue to document the wastewater treatment and drinking water system capital needs of this region. The Construction Industry Council and the Construction Advancement Institute will continue to work with partners not only to further document the Clean Water Infrastructure needs for the region, but also to ensure that this information is used to support and expand New York State’s Clean Water Infrastructure Grants program. This investment is far too important to fall short of this enormous need and must continue for the benefit of all.

###





## **Appendix A: Summary of Regional WWTP Grants Surveys**

Below are reports on contacted municipalities or counties in Westchester/Hudson Valley region that applied for Clean Water Grant funds from EFC/DEC during Round II of the program (June of 2016). A representative sample size of communities/wastewater treatment facilities were contacted as well as using NYS's listing of the final grants awarded in Round II of the program. In addition to wastewater, there were five drinking water facility grants given and included in this report. **In summary, by County, grant application totals including those awarded grants for Round II were:**

<b>All Westchester applications total:</b>	<b>\$12,200,000</b>
<b>All Rockland applications total:</b>	<b>\$7,375,000</b>
<b>All Putnam applications total:</b>	<b>\$600,000</b>
<b>All Dutchess applications total:</b>	<b>\$16,000,000</b>
<b>All Orange applications total:</b>	<b>\$13,500,000</b>
<b>All Sullivan applications total:</b>	<b>\$7,259,131</b>
<b>All Ulster applications total:</b>	<b>\$4,384,000</b>
<b>Total Round II Requests from Region via outreach/awards:</b>	<b>\$61,318,131</b>
<b>Total Financing Requested/Provided for these projects in the region:</b>	<b><u>\$97,230,979</u></b>
<b>Total Wastewater Capital Project Work from Round II requests:</b>	<b><u>\$158,549,110</u></b>

From these Round II application totals, 13 grants were awarded in the Hudson Valley totaling **\$28,907,476** in funds. Some in full and some partially funded. An additional **\$74,110,509** was financed for these projects through EFC loan-interest loan program making up the difference and bringing the total cost of these projects to **\$103,017,987**.

For Round I, it was reported that three local governments in the region received a total of **\$5,413,473** in grants and **\$15,941,763** in financing which were awarded in December of 2015. This brings total wastewater investments from the program in this region through grants at **\$34,320,949** and financing from Round I and II to **\$90,052,272**. The program's total capital investment for the region in grants and financing was **\$124,373,221** with grants accounting for 27.7% of total project costs.

There remains more that \$100 million in projects not funded or financed in these rounds along with new applications coming from information gathered in this report. In addition, some



other projects did not qualify but will be moving forward, such as the \$23-million Westchester County-owned Tarrytown Pump Station and Forcemain Rehabilitation project, which will push capital needs costs even higher for the region. For projects still pending and future capital investments in the planning stage, projected costs exceed hundreds of millions of dollars. The following represents specific community project information in the region which was the basis for these totals listed in the report.

**Westchester County Results:**

Based on information from Westchester County, the County made a Clean Water Grant Fund application in June combining three projects for consideration. The County has seven plants they operate and overall needs over the next several years exceed a hundred million dollars. The three projects total is **\$16,318,505** in cost and the balance will be financed. The projects are:

1. Project # SBB85 Sewer Rehabilitation -Blind Brook SSD
2. Project # SM075 Mamaroneck Pump Station Rehabilitation Program-East & West Basin and Edgewater Point
3. Project # SY009 Yonkers Joint WWTP-YJTP Odor Control and HVAC Upgrades (Phase II).
4. They bundled these projects into one application.

Total request: **\$5 million**

Total to be financed: **\$11,318,505**

*The county did not receive a grant in Round II for these projects.*

In addition, Westchester County has an existing project that was not considered due to an EFC rule on a short term closing date prior to October 2014. This project is: Project # SSM74/SY020 Tarrytown Pump Station and Forcemain Rehabilitations and its total costs are \$23,328,920. Furthermore, Westchester County has estimated 15 new projects for Round 3 totaling \$59,815,000. These costs are not included in current project costs totals but rather in future needs extrapolated for Round III applications.

**City of Yonkers**

The City of Yonkers has three projects underway for which it is seeking funds to help finance. These include:

- Extension of 30-inch water main for Southwest Yonkers: **\$5 million**
- Replacement of water valves and hydrants: **\$2.5 million**
- SCADA System upgrade: **\$500,000**
- Nodine Hill Water Tower Restoration: **\$3.5 million**



Maximum in Grant Request:	<b>\$5 million</b>
Total costs of infrastructure projects:	<b>\$11.5 million</b>

*The city did not receive a grant in Round II for these projects.*

**Town of North Salem Sunset Ridge Water District**

Application for new filters, storage tanks and enhancements to building:	<b>\$500,000</b>
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*The town did not receive a grant in Round II for these projects.*

**Town of North Castle Wastewater Treatment Plant**

North Broadway Plant applying for \$1.45 million in NYS Clean Water Grant funds for disinfection project. Work underway since under consent order and should be finishing this fall. Grant reimburses would work underway.

This round total request is:	<b>\$1.45 million</b>
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The town received a grant in Round II for this project in the amount of \$870,000 with the remaining \$580,000 being financed.

**Other Westchester County Efforts:**

As the County upgrades its facilities to meet nitrogen reduction limits under the EPA TMDL for LIS (\$300 million spent over past ten years), inflow and infiltration during wet periods and storm events overload the capacity of these sanitary sewage collection systems, stress county sanitary waste facilities county-wide and increases nitrogen loads in the treatment plants that discharge to the Sound.

Municipalities also are being encouraged to apply for Clean Water funds to address these sanitary sewer collection system issues, but first they must first complete Sewer System Evaluation Studies with their own resources to identify the rehabilitation work needed. The County has entered into IMAs with municipalities in the New Rochelle Sanitary Sewer District - New Rochelle, Mamaroneck, Larchmont and Pelham Manor - under which the municipalities will work to rehabilitate their collection systems to limit inflow and infiltration. This IMA process with these communities will set these storm water limits and initial outreach to engineers at estimated future costs well over \$25 million.





**Other Communities:**

In Round II of the grants, the Village of Mamaroneck received a grant of \$250,000 toward its sanitary sewage system rehabilitation program, with total costs estimated at \$1 million.

In addition, Mount Vernon needs \$1.9 million for improvements to its sewer system but is currently facing local opposition. No information was obtained from the towns of Buchanan, Yorktown and Lewisboro.

**Rockland County Reports:**

**Town of Orangetown WWTP**

Town of Orangetown has applied for two projects to EFC in June. The first project is an inflow reduction and infiltration project to reline and fix lines in the Nyack area and its collection system for \$1.5 million.

The second project is to improve gravity flow and line to eliminate an outdated mini-pump system and removing it from the Cherry Brook area for \$600,000. The municipality has invested \$60 million in its system over the past 5-10 years and will have more projects in \$1-2 million range for future rounds.

Total request for Round II was: **\$2.1 million**

*The Town did not receive a grant in Round II for these projects.*

**Haverstraw Joint Regional STP:**

Haverstraw has three projects totaling \$11 million. It included a conversion of chlorine disinfection to ultraviolet system, replacement of gravity thicker equipment and a fourth final clarifier. All projects are at the main plant and \$6 million of them will be financed. Round II total EFC grant request is: **\$5 million**

*Haverstraw did not receive a grant in Round II for these projects.*

**Village of Suffern WWTP**

Suffern has applied for \$275,000 of \$1.1 million sewer abatement project, which involved collection system work. \$825,000 will be financed. They plan to apply in future rounds since they have more capital needs. Additional information on grant programs was sent to them.

This round total EFC grant request is: **\$275,000**

*The Village did not receive a grant in Round II for these projects.*



**Other Towns/Sewer Districts:**

The Town of Stony Point's STP and the Rockland County WWTP did not apply for grants in Round II of the program. However, both the Supervisor of Stony Point and the Rockland County Commissioner said the Town has major infrastructure needs and will be asking for grants in the future. At Rockland County WWTP capital improvements include upgrades to Orangeburg plant, sewer line upgrades which are related to inflows and infiltration, and upgrading of its pump station. The cost estimate is expected in the fall of 2016.

**Putnam County Reports:**

**Village of Cold Spring WWTP**

The Village of Cold Spring has applied for two projects. One is a sewer line repair and the second is for a new sewer pump station.

Total request to EFC: **\$600,000**

*The Village did not receive a grant in Round II.*

**Other Communities:**

The Town of Carmel with multiple WWTPs has maintenance needs that it is evaluating and believe it will have applications in the next round. For the Village of Brewster, its WWTP infrastructure is fairly new and it has no applications at this time.

North Castle and Dover Plains are applying to NYSDEC Water Quality Improvement Program for pond remediation as relates to storm water management. These municipalities will send more information on applications, which are in \$100,000-\$200,000 range.

**Dutchess County Reports:**

**City of Poughkeepsie WWTP**

The City of Poughkeepsie has bundled six projects costing the City \$11,256,000 and requested the full \$5 million in grant funds. The city has requested EFC low-interest financing for balance of project costs (\$6,256,000). It received a grant of \$2 million on Dec. 15, 2015 and a loan of \$9,688,000 for previous work.



Descriptions of projects:

1. Storm Sewer Separation Project to eliminate Riverview Combined Sewer Overflow (CSO)
2. Meyer Avenue Pump Station Modifications (new pump station equipment and appurtenances)
3. Pine Street Pump Station Modifications  
Automated Mechanical Bar Screen Replacement/Upgrade obsolete pump controls
4. Combined Sewer Pipe Lining (6,667 linear feet @ \$150/lf)
5. Cedar Avenue Pump Station (all valves and building structure replacement)
6. Water Pollution Control Plant Modifications

Application grant request bundled for all six projects:

**\$5 million**

Total costs of all six projects:

**\$11,256,000**

The City received a grant of \$2,806,500 in Round II for these projects with the balance being financed through EFC.

**Village of Pawling WWTP**

In Round I, it received a grant of \$1,708,566 in December 2015 and a loan of \$1,139,044.

**Town of Poughkeepsie Drinking Water Facilities**

In Round II, the Town of Poughkeepsie received a grant of \$3,000,000 and financing of \$4,113,000 to upgrade and repair its drinking water facilities and system.

**Village of Wappingers Falls**

In Round II, the Village of Wappingers Falls received a Clean Water grant of \$5,000,000 to upgrade its wastewater treatment system with an additional \$15,000,000 in financing. The village also received a \$3,000,000 grant for its drinking water facilities along with an additional \$2,028,305 in financing.

**Other Communities**

The Town of East Fishkill WWTPs (2) does not have any applications at this time. Information was not obtained from the City of Beacon, Town of Fishkill, Town of LaGrange and the Village of Rhinebeck during outreach and survey efforts.





## **Orange County Reports:**

### **City of Middletown WWTP**

The City of Middletown has applications submitted for both wastewater and drinking water projects. (Municipalities can apply up to \$5 million for wastewater and additional \$5 million for drinking water infrastructure.) In addition to these grants, the city reports its future needs are many millions more in project work. In December 2015, the city received \$150,000 in grants and \$450,000 in loans for preliminary work.

Wastewater application is to extend sewer line from new school to Mohegan Ave. \$3.5 million.

Drinking water application is for one replacement drinking water storage tank near treatment facility and a new drinking water storage tank on Mountain Ave. Total application: \$5 million.

In Round II, the City received a Clean Water grant of \$975,000 and \$2,926,035 in financing for its wastewater application and projects above. It did not receive any funds for its drinking water facilities project.

### **City of Newburgh WWTP**

The City of Newburgh has a long-term improvement plan for WWTP which includes addressing combined sewer overflows. Total project is \$12.5 million and under consent order with \$7.5 million to be financed. Project includes a phased in approach dealing with flows, sewer pipelines and other system upgrades. Funds requested from EFC: **\$5 million.**

In Round II, the City received a Clean Water grant of \$3,125,000 to upgrade its wastewater treatment system as outlined above with an additional \$9,375,000 in financing.

### **Town of Cornwall WWTP (2)**

The Town of Cornwall received \$1,151,720 in grants in December 2015 and \$3,455,157 in loans. No response if it applied for more in Round II.

### **Village of Kiryas Joel Drinking Water System**

In Round II, the Village received a grant of \$3,000,000 for their drinking water facilities and system with an additional \$20,701,684 in financing.

### **Other Communities**

The City of Harriman/Goshen WWTP (2) has no applications at this time and the Village of Goshen WWTP has yet to respond to information requests.



## **Sullivan County Reports:**

### **Town of Liberty WWTP (3)**

In December 2015, Liberty received a grant of \$403,187 and a loan of \$1,209,560. Delaware Engineering is handling applications and they plan for major upgrades in 2017.

In Round II, the Town received a grant of \$2,112,388 to upgrade its drinking water facilities and system with financing of \$1,408,258.

### **Town of Fallsburg Drinking Water**

In Round II, the Town received a grant of \$2,146,743 for its drinking water facilities and system with an additional \$6,440,227 in financing.

### **Village of Monticello STP**

The Village of Monticello has federal funding and EFC financing for an ongoing \$21 million upgrade at WWTP (not included in this report's totals). It did not indicate if it applied to NYS in addition to the federal funding. The city reported its wastewater collection system needs major capital improvements. More information is expected in the fall 2016.

## **Ulster County Reports:**

### **City of Kingston WWTP**

The City of Kingston had applied with assistance of their engineering firm. Their projects are:

1. Blower replacement at WWTP.
2. Upgraded and improved emergency generator at Pump Station.
3. New roofing at seven building facilities.

Total EFC Clean Water grant request for all projects: **\$2.35 million**

In Round II, the City received a grant of \$587,500 and an additional \$1,762,500 in financing for their project listed above. The City also received a grant of \$2,034,000 to upgrade their drinking water facilities and system with additional financing of \$3,390,000.

### **Other Communities:**

Information was not obtained from the Village of Ellenville its their WWTP needs.



### **Additional WWTPs in the Region by County:**

These additional communities with WWTPs in the region have NYSDEC SPDES permits but information was not obtained for this survey. Many of these communities have needs outlined in NYS 2017 Draft Intended Use Plan which is developed each year by the Environmental Facilities Corporation and the New York State Department of Environmental Conservation for the State's future use of the Clean Water State Revolving Fund for Water Pollution Control. Those results are listed in Appendix B. For the remaining communities, more outreach will be needed.

#### **Putnam County:**

1. Town of Southeast WWTP
2. Town of Patterson WWTP

#### **Dutchess County:**

1. Village of Millbrook WWTP
2. Town of Hyde Park SSTP

#### **Orange County:**

1. Town of New Winsor WWTP
2. Village of Walden WWTP
3. Town of Wallkill WWTP
4. Village of Montgomery WWTP

#### **Sullivan County:**

1. Town of Rockland STP
2. Town of Thompson STP (3)
3. Village of Woodridge WWTP
4. Town of Cohecton STP

#### **Ulster County:**

1. Highland Sewer District
2. Village of Saugerties STP
3. Village of New Paltz WWTP
4. Town of Ulster STP
5. Town of Olive WWTP
6. Town of Marlborough STP



**Appendix B: Long Term Wastewater Treatment Plant Capital Needs in the Region under NYS Draft 2017 Intended Use Plan**

Under the federal and state clean water programs, the State develops an annual Intended Use Plan with future priority projects for wastewater treatment plants and water pollution control projects across New York State. The plan is developed each year by the Environmental Facilities Corporation and the New York State Department of Environmental Conservation for the state’s future use of its allocation of the federal Clean Water State Revolving Fund. It also guides the use of the State’s Clean Water Infrastructure grant funds with a point and scoring system for project consideration. The NYS 2017 Draft Intended Use Plan (IUP) for Water Pollution Control provides a listing and description of projects, including but not limited to new, expanded and rehabilitated wastewater treatment plants, sewer lines and related infrastructure, storm water abatement efforts and facility equipment and structural modifications. A similar report is being developed for drinking water facility projects in the region which will further expand the clean water investment needs.

In addition to the short term needs outlined in this report in Appendix A, the 2017 Draft IUP has identified over \$600 million in multi-year wastewater and water pollution control projects in Westchester and the Hudson Valley. The report provides a description of these projects as well as estimated project costs. For the purposes of this report, the local governments in need and their estimated costs for projects have been reviewed. This analysis along with the current project listings is the basis for the projected need of close to a billion dollars in funds for projects in the region over the next five years.

Below is a listing by County and Municipality with number of projects (#) for projected multi-year wastewater treatment infrastructure needs with their estimated costs along with the name of the facility where appropriate as identified in the 2017 Draft NYS Clean Water IUP.

**Westchester County:**

<b>Town of New Castle WWTP:</b>	<b>\$11,478,000</b>	
Total Projects Listed:		<b>\$11,478,000</b>
<b>City of Peekskill WWTP:</b>	<b>\$10,184,000</b>	
Total Projects Listed:		<b>\$10,184,000</b>
<b>Village of Port Chester WWTP:</b>	<b>\$1,600,000</b>	
Total Projects Listed:		<b>\$1,600,000</b>





## Westchester County Operated WWTPs Projects

Mamaroneck WWTP (5):      **\$8,224,600**  
   **\$6,500,000**  
   **\$3,844,000**  
   **\$3,616,000**  
   **\$598,000**

New Rochelle WWTP (3):      **\$4,058,000**  
   **\$2,548,000**  
   **\$3,745,000**

North Yonkers WWTP (3):      **\$10,795,000**  
   **\$3,532,000**  
   **\$2,363,000**

Yonkers Road WWTP (10):      **\$10,256,000**  
   **\$10,100,000**  
   **\$9,548,000**  
   **\$9,318,000**  
   **\$6,809,000**  
   **\$6,568,000**  
   **\$5,571,000**  
   **\$5,477,000**  
   **\$4,754,000**  
   **\$204,000**

Blind Brook WWTP (3):      **\$5,092,000**  
   **\$1,821,000**  
   **\$1,630,000**

Port Chester WWTP:      **\$14,330,000**

Ossining Road WWTP (3):      **\$9,000,000**  
   **\$2,620,000**  
   **\$1,701,000**

Peekskill Road WWTP (5):      **\$9,600,000**  
   **\$8,595,000**  
   **\$6,365,000**  
   **\$3,655,000**  
   **\$474,000**

Mamaron/New Roch SD (2):      **\$12,005,000**  
   **\$687,000**

Croton Point WWTP:      **\$5,907,000**

Bronx Valley SD:      **\$1,800,000**





<b>Town of East Fishkill WWTP</b>		
Hillside Lane (2):	\$13,545,000	
	\$1,480,000	
Total Projects Listed:		\$15,250,000
<b>Town of Hyde Park WWTP (2)</b>		
	\$2,491,000	
	\$340,660	
Total Projects Listed:		\$2,831,660
<b>Town of LaGrange WWTPs</b>		
Titusville Sewer District:	\$8,139,000	
Scenic Hills:	\$4,320,000	
Total Projects Listed:		\$12,459,000
<b>Village of Pawling WWTP:</b>		
	\$10,320,000	
Total Projects Listed:		\$10,320,000
<b>Town of Poughkeepsie WWTP:</b>		
	\$12,834,000	
Total Projects Listed:		\$12,834,000
<b>Village of Red Hook WWTP:</b>		
	\$5,030,000	
Total Projects Listed:		\$5,030,000
<b>Town of Wappingers WWTPs (3):</b>		
	\$9,795,735	
	\$7,170,000	
	\$5,442,280	
Total Projects Listed:		\$22,408,015
<b><u>Orange County:</u></b>		
<b>Town of Highland WWTP (2):</b>		
	\$2,481,400	
	\$340,600	
Total Projects Listed:		\$2,822,000
<b>Village of Maybrook WWTP:</b>		
	\$1,532,000	
Total Projects Listed:		\$1,532,000
<b>City of Newburgh WWTPs (3):</b>		
	\$9,144,000	
	\$2,401,500	
	\$764,000	
Total Projects Listed:		\$12,309,500



<b>Town of Newburgh WWTP:</b>	<b>\$1,160,000</b>	
Total Projects Listed:		<b>\$1,160,000</b>
<b>Town of New Windsor WWTPs (6):</b>	<b>\$55,104,000</b>	
	<b>\$10,008,000</b>	
	<b>\$5,630,000</b>	
	<b>\$1,655,000</b>	
	<b>\$918,000</b>	
	<b>\$872,000</b>	
Total Projects Listed:		<b>\$74,187,000</b>
<b>City of Port Jervis WWTP:</b>	<b>\$25,092,000</b>	
Total Projects Listed:		<b>\$25,092,000</b>
<b>Village of Walden WWTP:</b>	<b>\$8,394,000</b>	
Total Projects Listed:		<b>\$8,394,000</b>
<b>Town of Wallkill WWTP (2):</b>	<b>\$24,200,850</b>	
	<b>\$8,893,987</b>	
Total Projects Listed:		<b>\$33,094,837</b>
<b>Town of Warwick WWTP:</b>	<b>\$5,631,000</b>	
Total Projects Listed:		<b>\$5,631,000</b>
<b><u>Sullivan County:</u></b>		
<b>Town of Fallsburg WWTPs</b>		
South Fallsburg WWTP:	<b>\$8,202,000</b>	
Loch Sheldrake WWTP:	<b>\$13,207,000</b>	
Mountaindale WWTP:	<b>\$8,202,000</b>	
Total Projects Listed:		<b>\$29,611,000</b>
<b>Village of Kiryas Joel WWTP (4):</b>	<b>\$2,422,000</b>	
	<b>\$2,783,000</b>	
	<b>\$1,620,000</b>	
	<b>\$994,000</b>	
Total Projects Listed:		<b>\$7,819,000</b>







## Appendix C: Worksheet for Grant Need Calculations from Round II

<u>County/Community</u>	<u>Grant Amount (applied)</u>	<u>Totals</u>
<b><u>Westchester:</u></b>		
County-	\$5,000,000	
Yonkers-	\$5,000,000	
North Salem-	\$500,000	
North Castle-	\$1,450,000	
Mamaroneck-	\$250,000	\$12,200,000
<b><u>Rockland:</u></b>		
Orangetown-	\$2,100,000	
Haverstraw-	\$5,000,000	
Suffern-	\$275,000	\$7,375,000
<b><u>Putnam:</u></b>		
Cold Spring-	\$600,000	\$600,000
<b><u>Dutchess:</u></b>		
City of Poughkeepsie-	\$5,000,000	
Town of Poughkeepsie-	\$3,000,000	
Village of Wappingers Falls (CW) -	\$5,000,000	
Village of Wappingers Falls (DW) -	\$3,000,000	\$16,000,000
<b><u>Orange:</u></b>		
City of Middletown (CW) -	\$3,500,000	
City of Middletown (DW) -	\$5,000,000	
City of Newburgh-	\$5,000,000	\$13,500,000
<b><u>Sullivan:</u></b>		
Village of Kiryas Joel-	\$3,000,000	
Town of Liberty-	\$2,112,388	
Town of Fallsburg-	\$2,146,743	\$7,259,131
<b><u>Ulster:</u></b>		
City of Kingston (CW) -	\$2,350,000	
City of Kingston (DW) -	\$2,034,000	<u>\$4,384,000</u>
<b>Overall Total:</b>		<b>\$61,318,131</b>



**Appendix D: Clean Water Infrastructure Grant and Finance Awards  
from Round I and II for Hudson Valley Region**

The municipalities receiving grants on December 15, 2015 from Round I of the Clean Water Infrastructure program from EFC are:

County	Municipality	Grant Amount	Estimated Loan Amount	Estimated Total Project Cost
Dutchess	Pawling, Village of	\$1,708,566	\$1,139,044	\$2,847,610
Dutchess	Poughkeepsie, City of	\$2,000,000	\$9,688,000	\$11,688,000
Orange	Cornwall, Town of	\$1,151,720	\$3,455,159	\$4,606,879
Orange	Middletown, City of	\$150,000	\$450,000	\$600,000
Sullivan	Liberty, Town of	\$403,187	\$1,209,560	\$1,612,747
<b>Totals:</b>		<b>\$5,413,473</b>	<b>\$15,941,763</b>	<b>\$21,355,236</b>

The municipalities receiving grants on August 12, 2016 from Round II of the Clean Water Infrastructure program from EFC are:

NYS Water Grant	Applicant Name	County	Estimated Project Cost	Estimated SRF Loan Amount	Estimated Grant Award
Clean Water	Fallsburg, Town of	Sullivan	\$8,586,970	\$6,440,227	\$2,146,743
Clean Water	Kingston, City of	Ulster	\$2,350,000	\$1,762,500	\$587,500
Drinking Water	Kingston, City of	Ulster	\$3,390,000	\$1,356,000	\$2,034,000
Drinking Water	Kiryas Joel, Village of	Orange	\$23,701,684	\$20,701,684	\$3,000,000
Drinking Water	Liberty, Town of	Sullivan	\$3,520,646	\$1,408,258	\$2,112,388
Clean Water	Mamaroneck, Village of	Westchester	\$1,000,000	-----	\$250,000
Clean Water	Middletown, City of	Orange	\$3,901,380	\$2,926,035	\$975,345
Clean Water	Newburgh, City of	Orange	\$12,500,000	\$9,375,000	\$3,125,000



**Appendix D - Continued**

Drinking Water	North Castle, Town of	Westchester	\$1,450,000	\$580,000	\$870,000
Clean Water	Poughkeepsie, City of	Dutchess	\$11,226,000	\$8,419,500	\$2,806,500
Drinking Water	Poughkeepsie, Town of	Dutchess	\$7,113,000	\$4,113,000	\$3,000,000
Clean Water	Wappingers Falls, Village of	Dutchess	\$20,000,000	\$15,000,000	\$5,000,000
Drinking Water	Wappingers Falls, Village of	Dutchess	\$5,028,305	\$2,028,305	\$3,000,000
Totals:				\$74,110,509	\$28,907,476

Charts came from Governor's announcements for Environmental Facilities Corporation (EFC)  
Clean Water Infrastructure Grants program.  
(Dec.15 2015 and Aug.12, 2016 News Releases)





## **Acknowledgement and Sources**

The information in this report was gathered through web-based source material, outreach calls and emails, public documents and individuals who provided interviews. We acknowledge these sources.

NYSDEC SPEDES Permit system data base as well as agency plans and reports  
EPA Clean Water Wastewater Infrastructure Needs Survey (2014)  
NYS Draft 2017 IUP for Clean Water  
Mid-Hudson Pattern 2015 Hudson Valley Infrastructure Report  
NYSDEC and EFC public information announcements on Clean Water Grant Awards  
NYS Water Infrastructure Improvement Act of 2015  
Hudson Valley local government and community websites  
Interviews and correspondence with numerous Hudson Valley/Westchester local government officials and experts in the Clean Water Infrastructure field.

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## **Whale of a Comeback for Long Island Sound**

When it comes to environmental cleanups, the Long Island Sound has made great strides over the past 25 years thanks to historic investments to upgrade wastewater treatment plants to remove nitrogen pollution and toxic runoff.



Increased investments by the federal government, states and communities have created thousands of construction jobs and have contributed to the return of marine life throughout the Sound. Living proof appeared in 2016 with the various sightings of humpback whales breaching off the shores of Norwalk, CT and New Rochelle, NY.



As a founding organization of the Clean Water Jobs Coalition, the Construction Industry Council has spearheaded the conservation campaign to revitalize Long Island Sound. There is still much to be done.





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