

Albany Pool Communities  
Combined Sewer Overflow Long Term Control Plan

CSO Order on Consent  
DEC Case #CO 4-20120911-01

SEMI-ANNUAL STATUS REPORT

**SECOND TERM, 2014**  
**(July 1 to December 31)**

**March 13, 2014**



FTZ #121

# CAPITAL DISTRICT REGIONAL PLANNING COMMISSION

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March 13, 2015

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Albany, NY  
12233-3506

Re: Albany Pool Communities Second Term Semi-Annual Report

Dear Paul,

As the designated Program Coordinator on behalf of the Albany Pool Communities CDRPC herewith submits to the Department the Albany Pool Communities Semi-Annual Report. This Semi-Annual Report sets forth the status of progress made by the Pool Communities and two County Sewer Districts in complying with the milestones set forth in the Order between July 1, 2014 and December 31, 2014.

On March 12, 2015 the APCs met with DEC to discuss the comments and additional reporting requested by the Department to satisfy data requests from the U.S. EPA. Based on the Department's guidance, the APCs are evaluating methodologies to collect or generate additional data responsive to the federal requests and plan to provide those data as a supplement to this Semi Annual Report.

Sincerely,

Martin Daley  
Environmental Planner

Albany Pool Communities  
Combined Sewer Overflow Long Term Control Plan

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## 1.0 INTRODUCTION

The Albany Pool Communities Combined Sewer Overflow Long Term Control Plan Order on Consent (DEC Case #CO 4-20120911-01) was entered into by the Albany Pool Communities (APCs), Albany County Sewer District, the Rensselaer County Sewer District (Collectively the Respondents) and The New York State Department of Conservation (DEC) on January 15<sup>th</sup>, 2014.

Six municipalities in the greater Albany area of New York State make up the Albany Pool Communities and consist of the Cities of Albany, Cohoes, Rensselaer, Troy and Watervliet, and the Village of Green Island.

Pursuant to the Order, Respondents shall submit written Semi-Annual Status Reports to the Department. The Semi-annual reports shall describe the actions that have been taken toward achieving compliance with this Order during the past 6-month period.

Also pursuant to the Order, The Respondents designated an entity which reports to the respective Respondents and will be responsible to the Respondents for coordinating the smooth and efficient implementation of the LTCP and assisting the Respondents in meeting their obligations to comply with the terms of the Order on Consent. The Capital District Regional Planning Commission (CDRPC) has been selected, per the discretion of the respondents, to act as the program coordinator.

The Albany Pool Communities submitted their first Semi-annual report on September 15, 2014. This Semi-Annual Report sets forth the status of any progress made by the Pool Communities and two County Sewer Districts in complying with the milestones set forth in the Order between **July 1, 2014 and December 31, 2014**

## 2.0 Critical Events this Term

The following critical events occurred during this term:

In November, the Pool received word that Albany and Troy were successfully awarded \$1 million in Water Quality Improvement Grant funds administered by DEC. These funds will be used for the implementation of two LTCP projects: North Swan St. Park Green Infrastructure in Albany and the Monument Square Green Infrastructure Project in Troy.

The Pool Communities submitted the following two project deadline modification requests to the Department during this term:

- a) For the Partition St./Broadway Sewer and Drain Improvements project (SSS-02), the Albany Pool Communities requested a 30-day extension of the September 1, 2014 deadline for issuance of a Notice to Proceed.

The request for modification was based on the following two circumstances:

- A review by the Department of Completed Plans and Specifications that extended beyond sixty (60) days; and
- A slight delay by a third party municipality in providing the City of Rensselaer with documentation necessary for the Environmental Facilities Corporation ("EFC") to act on the City's request for funding of drinking water system renovations that will be performed along the same alignment as and contemporaneously with the Partition Street Project.

The Department approved the modification request on September 4, 2014. The City issued Notice to Proceed on October 1, 2014. Despite the 30-day delay in NTP, the project is on track to meet the Order's Schedule of Compliance Construction Completion & Operational Start Up Dates of December 31, 2015.

b) For the Cross St. Sewer Outfall Repairs and/or Replacement (TE-01) project, the Albany Pool Communities requested a 60-day extension of the December 15, 2014 deadlines for the Construction Completion and Operational Start Up.

The reason for this request was based on the following circumstances:

- Gas Main Interference,
- Impacted Groundwater; and
- Unidentified Utility Crossing
- Extended construction duration owing to unanticipated cold-weather concrete work

The City completed the project and it became operational on January 21, 2015.

### **3.0 Major Actions This Term**

#### **Discharge Notification System**

The notification system was designed as a tool for the Albany Pool Communities to comply with the terms of the LTCP and to support compliance with New York State's Sewage Pollution Right to Know Act and the LTCP developed by the Albany Pool Communities and the CDRPC. The architect of the system, the Albany Pool Joint Venture Team (APJVT), used the interactive web-based Onondaga County Discharge Notification System as a model for the Pool's system. A test bed, draft site, featuring only the City of Cohoes' CSS system and draft site language, was submitted to the Department for comment following a presentation on October 24, 2014. Incorporating many of the changes requested by the Department, the Discharge Notification System, [www.albanypool.org](http://www.albanypool.org), went live to the public on November 25<sup>th</sup>, 2014. The website provides the public with information about the likelihood of CSO discharges into the Hudson River and its tributaries within the Albany Pool Communities program area.

The system employs a probabilistic predictive system that uses results from the Pool Communities hydraulic/hydrologic model developed during the LTCP research phase of the program and precipitation data generated at the Albany International Airport. While the predicted activations are not based on real-time observations of sewer overflows the site does use conservative data in estimating the probability of combined sewer overflow events occurring. The site will be hosted for one year by APJVT, after which the APCs will determine the best place to host the site. The domain name and URL of the site will remain the same if and when it's transferred. The APJVT has continued to expand the accessibility of the site. It is now accessible via Chrome and Safari platforms. The APC will remain alert for comments from site users to DEC, the Pool itself, or CDRPC, including comments relating to the clarity of site language, and is prepared to address those as and when they arise.

A link to the site has been distributed so it can be posted on each of the pool communities' websites. This link is also available on CDRPC's website and all promotional materials for the Long Term Control Plan, including the program brochure.

### **Development of the Post-Construction Compliance Monitoring Program (PCCMP)**

Please continue to Section 7.0 for a summary outlining the creation of the Post-Construction Compliance Monitoring Program

### **Creation and Execution of IMA(s)**

The Order's Compliance Schedule required the Pool and District IMA(s) to be executed on or before April 15, 2015. In order to take advantage of the current round of Environmental Facilities Corporation (EFC) financing, which is critical to funding the Albany and Troy financial obligations to the next three year cycle of the LTCP, the APC accelerated their internal deadline for establishment of the Pool IMA to March 1, 2015. This accelerated schedule was made necessary due to EFC's requirement that the Pool members be bound together prior to execution of Bond finance authorizations and prior to Troy and Albany's submissions of their individual EFC finance applications.

Both DEC and EFC expedited their review of the draft IMAs to accommodate the APCs' accelerated schedule. Both agencies requested substantive changes to documents, including reinforced penalties for withdrawal and an assignment of responsibility among the parties for projects contained within the Order. The Pool met with EFC and DEC on several occasions to develop and modify the IMAs per the agencies' feedback.

Each of the IMAs now lays out the actions to restore compliance in the event of a breach of the respective IMA as well as establishing immediate consequences that provide a deterrent to any breach of the IMA by any one or more of the Respondent parties. The IMAs include provisions necessary to allow the Albany Pool permittees to cooperatively control the CSO discharges from the inter-municipal CSS in accordance with law, including the implementation

of an approved LTCP. The IMAs specify the funding, cost-sharing, indemnity, access and enforcement provisions necessary to finance and carry out the terms of the IMAs, an approved LTCP, and the requirements of the Order on Consent.

The Pool also created a “Matrix of Responsibility” that assigns ownership, operation, and maintenance responsibilities to the Respondents for each of the Order’s projects within the Compliance Schedule. The Matrix is referenced in the IMAs and a process consistent with the terms of the Order for assigning these responsibilities to individual Respondents was included in the IMAs.

Conditional approval of the revised draft IMAs containing these terms was received on December 8, 2014 and the Pool submitted the final, conforming copy of the IMAs to DEC on December 11, 2014. Thereafter, the Pool IMA was executed by all the Pool communities (Albany, Troy, Cohoes, Rensselaer, Watervliet, and Green Island) on February 25, 2015. The District IMAs will be executed prior to April 15, 2015.

#### **Creation of Local Development Corporation**

In addition to the required IMAs, the Respondents will form a charitable organization under the section 501(c)(3) of the Internal Revenue Code. On October 3, 2014, the Pool submitted to the Department and EFC the formation documents and bylaws for that Local Development Corporation. The LDC’s Board will consist of representatives of the communities. Among its powers, the LDC will possess the capability to contract for and administer Pool projects as determined appropriate by the communities, and will have the ability to contract for operation and maintenance of completed LTCP projects, again, as determined appropriate by the communities.

Representatives of the Pool Communities consulting team (Counsel, Bond Counsel, Financial Advisor, Engineering, and CDRPC) met several times with EFC staff in order to list on the State Intended Use Plan the Albany and Troy obligations for their share of the next three years of LTCP. Pool Communities consulting team also met with the legal and financial representatives from each of the Pool Communities to assist in preparing financial plans, budgets, and if needed, resolutions authorizing debt. The team assisted with the City of Troy and City of Albany’s applications to EFC. The applications were accompanied by a comment letter summarizing consultation from the State Historic Preservation Office, the opinion of the Pool’s counsel on obligations and compliance with SEQRA, and a plan of finance outlining each community’s contribution to the next three year program cycle.

#### **Program Management**

CDRPC has two program interns assisting program Martin Daley with LTCP projects. Kimberly Moshier is a first year graduate student at the State University at Albany, pursuing a master’s in Regional Planning. She previously interned for the Albany County Stormwater Coalition. Kim has

started work on the Albany Pool Communities Green Infrastructure Code Audit by revising the Albany Stormwater Coalition's Green Infrastructure Code Audit questionnaire for use in Troy and Rensselaer. Ayse Tezel, a second year graduate student at the State University at Albany, also pursuing a master's in Regional Planning, is currently researching Green Infrastructure Banking and programs in cities around the United States.

The Albany Pool Communities, two County Sewer Districts, and the APC consulting team continue to hold bi-monthly meetings on the second and fourth Thursdays of each month to track LTCP implementation. The Respondents, represented by CDRPC as their program coordinator, also hold monthly coordination meetings with DEC staff. These monthly meetings have been held at DEC headquarters in Albany following the second Respondent meeting of each month.

#### 4.0 PERFORMANCE AGASINT ORDER DEADLINES

**Table 1 – Milestones Certified this Term (July 1 – December 31, 2014)**

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	Milestone Date	Status
BMP-03	Upgrade Pump Stations Located in Rensselaer	RCSD	Rensselaer	NTP to Construction	7/1/2014	NTP Issued 6/19/2014
GI-06	Documentation/Reporting of New Public and Private Green Projects	APCs	N/A	Task Start Date	8/1/2014	Task Started 7/31/2014
TE-01	Cross St. Sewer Outfall Repairs and/or Replacement	APCs	Troy	NTP to Construction	8/1/2014	NTP Issued 7/31/2014
SSS-01	Upper Washington Ave. Groundwater Recharge	APCs	Albany	NTP to Construction	8/15/2014	NTP issued 1/31/2014
BMP-05	Upgrade Pump Stations Located in Troy	RCSD	Troy	Completed Plans & Specs	9/1/2014	Completed Plans and Specs submitted 8/28/2014

BMP-02	McCormack Pump Station Upgrades	Albany Water Board	Albany	Construction Completion Date & Operational Start Up Date	9/30/2014	Construction Completion and Operational Start Up 9/30/2014
SSS-04	George St. Sewer Separation	APCs	Cohoes	Completed Plans & Specs	10/1/2016	Completed Plans and Specs submitted 9/8/2014
APW-03	Development of the Post-Construction Monitoring Program (PCMP)	APCs	N/A	Task Completion Date	10/1/2014	Task Completed 9/29/2014
BMP-04	Regulator Capacity Improvements	RCSD	Rensselaer County	Completed Plans & Specs	10/1/2014	Completed Plans and Specs submitted 10/1/2014
GI-03	Quail St. Green Infrastructure Project	APCs	Albany	Completed Plans & Specs	10/1/2014	Completed Plans and Specs submitted 10/1/2014
SSS-02	Partition St./Broadway Sewer and Drain Improvements	APCs	Rensselaer	NTP to Construction	10/1/2014 <sup>1</sup>	NTP Issued 10/24/2014
SSS-03	Melrose/Wintrop Groundwater Recharge Basins	APCs	Albany	Completed Plans & Specs	10/1/2014	Completed Plans and Specs submitted 2/28/2014
APW-01	Discharge Notification System for Albany Pool CSOs	APCs	N/A	Task Completion Date	12/1/2014	Task Completed 11/27/2014

<sup>1</sup> A modification request to extend the Notice-to-Proceed deadline for SSS-02 from September 1, 2014 to October 1, 2014 was submitted and, by letter dated September 4, 2014, was approved by the Department on 7/11/14.

GI-01	Albany Ave. Green St. Project	Village of Green Island	Green Island	Construction Completion Date & Operational Start Up Date	12/15/2014	Construction Completion and Operational Start Up 6/25/2014
TE-01	Cross St. Sewer Outfall Repairs and/or Replacement	APCs	Troy	Construction Completion Date & Operational Start Up Date	12/15/2014	1/21/2015 <sup>2</sup>
TE-02	Cross St. Trunk Sewer Rehabilitation Phase I	City of Troy	Troy	Construction Completion Date & Operational Start Up Date	12/15/2014	Construction Completion Date & Operational Start Up 10/27/2014

## 5.0 Deadlines for Upcoming Reporting Period and Associated Issues

Table 2, below, reflects the activities and deadlines established in Appendix A of the Order during the upcoming six-month reporting period. No issues or delays are anticipated.

**Table 2 – Milestones next Term (January 1 – June 31, 2015)**

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	Milestone Date	Status
BMP-05	Upgrade Pump Stations Located in Troy	RCSD	Troy	NTP to Construction	3/1/2015	NTP Issued 2/27/14
APW-05	Asset Management Plans	Albany Water Board, Cohoes, Watervliet, Green Island	Albany County	Task Start Date	4/1/2015	
BMP-04	Regulator Capacity Improvements	RCSD	Rensselaer County	NTP to Construction	4/1/2015	
GI-03	Quail St. Green Infrastructure Project	APCs	Albany	NTP to Construction	4/1/2015	
SSS-03	Melrose/Winthrop Groundwater Recharge Basins	APCs	Albany	NTP to Construction	4/1/2015	NTP issued 1/31/2014

<sup>2</sup> A Modification request was submitted to the Department on 12/18/15. The project was completed January 21, 2015.

APW-02	Execution of IMA(s) in compliance with Section V(C) of the Order on Consent	APCs	N/A	Task Completion Date	4/15/2015	
APW-06	Implementation of the Post-Construction Monitoring Program	APCs	N/A	Task Start Date	5/1/2015	

## 6.0 Description of Additional Work Performed

During the months of February and March of 2014, when implementation of the Order was in the early stages, CDRPC staff, in consultation with DEC staff, developed a project sheet template as a tool to track project status and to provide a simple and effective vehicle to quickly assess project goals, progress, milestones, roles, and responsibilities. The project sheets were developed in concert with a tracking system that uses unique identifiers, project codes based on project type. Together, the sheets and a tracking database ensure successful delivery of projects in the work and to anticipate upcoming program demands. This project sheet has continued to evolve as the reporting needs grow more sophisticated.

Project sheets for Compliance Schedule projects that have been completed, or are active during this reporting period are included with this report as **Appendix A.**<sup>3</sup>

## 7.0 Annual Post Construction Compliance Monitoring Plan Report (PCCMP)

The Order on Consent requires Respondents to submit annually with its September 1st Semi-Annual Report an annual PCCMP that is a required element for an approved LTCP.

This submission deadline was modified, with informal mutual agreement of the parties, so that the Pool would have time to analyze and report on the sampling program established by the PCCMP. It's our understanding the modified deadline was approved by the Department. Beginning with this Second Annual Report the PCCMP Report will be submitted as part of the Semi Annual Reports and will include events during their respective reporting periods.

The Pool Communities' technical team met with DEC staff on November 14 to discuss the draft PCCMP and to clarify questions and comments. On November 26, 2015, the Pool submitted to the Department a PCCMP memo responding to the Department comments made on September 17. On January 26, 2015 a revised PCCMP was submitted to the Department which

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<sup>3</sup> Note the project sheets contain updates for project activity occurring during the second term of the annual reporting cycle.

incorporated modifications to the Plan's sampling site locations and transects, revised sampling schedule and frequency, and a supplemental wet weather sampling plan (if needed).

The Pool anticipates commencement of the approved sampling program on May 1, 2015.

## 8.0 Green Infrastructure Report

The Village of Green Island completed the Albany Ave. Green St. Project (GI-01) on June 25, 2014, well ahead of the Order's Compliance Schedule dates for Construction Completion Date & Operational Start Up of 12/15/2014.

This project involved the reconstruction of approximately 1,300 linear-feet of Albany Avenue. The Village redesigned the roadway, eliminating two travel lanes in a road diet. They widened the city strip incorporating a grass area between the reconstructed sidewalk and curb, thus achieving a reduction of impervious surfaces of approximately 5%. The Village added width to sidewalk on the west side to accommodate bicyclists. The project incorporated Americast's Filterra BioRetention Systems, a pre-cast tree pit filled with a proprietary soil medium. These tree pits linked to a catch basin and an under drain that leads to an outfall. The new catch basin tree pits replaced catch basins that had previously been connected to the combined sewer system.



Capture data:

- Stormwater removed from the Sanitary Sewer System is estimated to be 8,300 CF per inch of rain (2.3 Acres x 1" of rain) = Approx. 8,300 CF or 62,000 gallons.
- On an annual basis using 37" of rainfall per year, this equates to 307,000 CF or 2.3 Million Gallons per Year.

## 9.0 Community Relations

While the Public Participation Plan referenced in the Order related to actions leading up to the development of an approvable CSO LTCP and has now been concluded, CDRPC has made several outreach presentations related to the plan during the reporting period. Not pursuant to the Order, but as a courtesy and because we believe that public education concerning programs designed to ensure that CSO events do not impair water quality is important to both the communities and the Department, we describe these outreach efforts below.

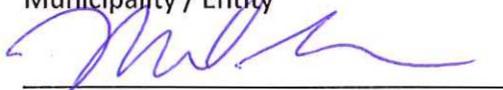
1. **Tuesday, August 26, 2014:** City of Albany Special Meeting – Representatives of the City of Albany and Water Board hosted a special public meeting to discuss the impacts of an August 5th storm that caused flooding in many parts of the City of Albany. Representatives from the Water Board shared details of many of the CSO LTCP projects, such as Quail St GI and the Upper Washington Ave. and Marion Ave. stormwater recharge basins that will help alleviate downstream flooding within the Beaver Creek trunk sewer corridor.

2. **Friday, October 17:** CDRPC program Coordinator Martin Daley, along with DEC Staff, toured the Hudson River between the Federal Dam in Troy and the Port of Albany aboard the Riverkeeper patrol boat, the R. Ian Fletcher, captained by John Lipscomb. The event provided the opportunity CDRPC and DEC to share CSO LTCP program updates, discuss upcoming projects and programs in the LTCP, and gain perspective of how the non-profit Riverkeeper organization functions as a watchdog for the health of the Hudson.

CDRPC staff attends monthly MS4 working group meetings for both Albany and Rensselaer County, informing coalition members on the progress of the LTCP. CDRPC is also a participant of the Albany County Water Quality Working Group, a body that also meets monthly, to share program progress. While these meetings are not public meetings, they are open to the public.

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that this document and its attachments were prepared under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained therein. I further certify, based on my inquiry of those individuals immediately responsible for obtaining the information, that I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

City of Rensselaer  
Municipality / Entity



Signature

MICHAEL S. BROWN

Name

ENGINEER AIDE

Title

3/13/15

Date

City of Cohoes  
Municipality / Entity

Signature

Name

Title

Date

City of Troy  
Municipality / Entity

Signature

Name

Title

Date

City of Albany  
Municipality / Entity

Signature

Name

Title

Date

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that this document and its attachments were prepared under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained therein. I further certify, based on my inquiry of those individuals immediately responsible for obtaining the information, that I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

City of Rensselaer  
Municipality / Entity

City of Cohoes  
Municipality / Entity

\_\_\_\_\_  
Signature

*Carry F. Nathan*  
Signature

\_\_\_\_\_  
Name

*Carry F. Nathan*  
Name

\_\_\_\_\_  
Title

*CITY Engineer*  
Title

\_\_\_\_\_  
Date

*3/13/15*  
Date

City of Troy  
Municipality / Entity

City of Albany  
Municipality / Entity

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Date

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that this document and its attachments were prepared under my direction or supervision in a manner designed to ensure that qualified and knowledgeable personnel properly gather and present the information contained therein. I further certify, based on my inquiry of those individuals immediately responsible for obtaining the information, that I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

City of Rensselaer  
Municipality / Entity

City of Cohoes  
Municipality / Entity

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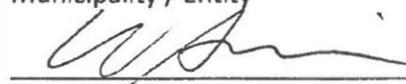
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City of Troy  
Municipality / Entity

City of Albany  
Municipality / Entity

  
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Signature

Chris E. Whelan  
Name

William D. Simco, P.E.  
Name

Superintendent  
Title

Deputy Commissioner  
Title

3-16-15  
Date

3-13-15  
Date

City of Watervliet  
Municipality / Entity

Village of Green Island  
Municipality / Entity

David Dressel  
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David Dressel  
Name

\_\_\_\_\_  
Name

Water + Sewer Dept  
Title

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Title

3/16/15  
Date

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Date

Albany County Sewer District  
Municipality / Entity

Rensselaer County Sewer District  
Municipality / Entity

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Date

Albany Pool Communities

Semi-annual Status Report

DEC Case #CO 4-20120911-01

Second Term, 2014

City of Watervliet  
Municipality / Entity

Village of Green Island  
Municipality / Entity

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Signature

*f. c. ward*  
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Name

*Sean E. Ward*  
\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

*Executive Assistant to the Mayor*  
\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

*March 13, 2015*  
\_\_\_\_\_  
Date

Albany County Sewer District  
Municipality / Entity

Rensselaer County Sewer District  
Municipality / Entity

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Date

City of Watervliet  
Municipality / Entity

Village of Green Island  
Municipality / Entity

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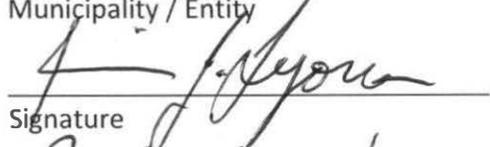
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Date

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Date

Albany County Sewer District  
Municipality / Entity

Rensselaer County Sewer District  
Municipality / Entity

  
Signature

\_\_\_\_\_  
Signature

Richard J. Lyons  
Name

\_\_\_\_\_  
Name

Executive Director  
Title

\_\_\_\_\_  
Title

3/13/2015  
Date

\_\_\_\_\_  
Date

Albany Pool Communities

Semi-annual Status Report

DEC Case #CO 4-20120911-01

Second Term, 2014

City of Watervliet  
Municipality / Entity

Village of Green Island  
Municipality / Entity

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Signature

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Signature

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Name

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Name

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Title

\_\_\_\_\_  
Title

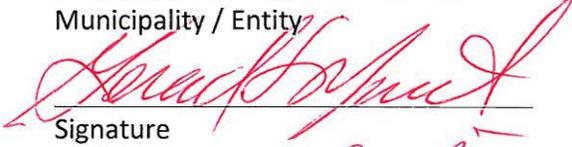
\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Albany County Sewer District  
Municipality / Entity

Rensselaer County Sewer District  
Municipality / Entity

\_\_\_\_\_  
Signature

  
Signature

\_\_\_\_\_  
Name

Bernard S. Moynihan  
Name

\_\_\_\_\_  
Title

Administrative Director  
Title

\_\_\_\_\_  
Date

3/12/15  
Date

## **Appendix A: Project Sheets**

## SSS-01: Upper Washington Ave. Groundwater Recharge Basins

### General description

Construction of dry wells and infiltration gallery beneath the street pavement in Upper Washington Ave., between Brevator St. and Winthrop Ave. These will replace catch basins which had formerly collected stormwater and discharged it into the Winthrop Ave. sub-trunk sewer which is a branch of the Beaver Creek combined sewer.

### Purpose

Reduces local flooding and reduces both the incidence and frequency of combined sewer discharge to the surface, as well as reducing the frequency and intensity of CSO events.

SPDES Permit#	Project Location
NY-002 5747	 
Project Cost (Millions)	
\$0.20	
Funding source	
Project funded through Water Board (Credit)	
Own	
Water Board	
Maintain	
Albany Water Board	
Cost-sharing	
APCs	
Certification	
APCs	
Manage construction	
Albany Water Board	
Operation	
Albany Water Board	
Enforcement	
Albany Water Board	
Outfall#	Contact Information
A-016	Albany Water Board
Affected Waterbodies	William Simcoe
Hudson River	(518) 434-5300 / wsimcoe@albanyny.gov
Discharge reduction amount	

Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 2/15/14	2/28/2014
Notice to Proceed to Construction: 8/15/14	1/31/2014
Construction Completion Date: 12/15/15	6/5/2014
Operational Start-Up Date: 12/15/15	6/5/2014

### Status

**3/13:** Project was put out to bid and a contractor was selected (August Bohl). **3/27:** NTP was issued 1/31/2014. **4/24:** This project is currently under construction **5/22:** Construction of structures 100% complete, inspected, and accepted by engineer, currently contractor performing final restoration work. **7/10:** This project is near completion and was advanced ahead of schedule. **8/14:** Revised approval letter from DEC received on 7/11. **9/11:** Certification forms submitted on NTP, construction complete, and operational start date milestones. This project is complete.

## SSS-03 Melrose/Winthrop Groundwater Recharge Basins

### General description

Construction of dry wells and infiltration galleries beneath the street pavement in the Melrose Ave. vicinity. These will replace catch basins which had formerly collected stormwater and discharged it into the Melrose Ave. sub-trunk sewer which is a branch of the Beaver Creek combined sewer system.

### Purpose

Reduces local flooding and reduces both the incidence and frequency of combined sewer discharge to the surface, as well as reducing the frequency and intensity of CSO events.

### SPDES Permit#

NY-002 5747

### Project Cost (Millions)

\$0.20

### Funding source

Project funded through Water Board (Credit)

### Own

Albany Water Board

### Maintain

Albany Water Board

### Cost-sharing

APCs

### Certification

APCs

### Manage construction

Albany Water Board

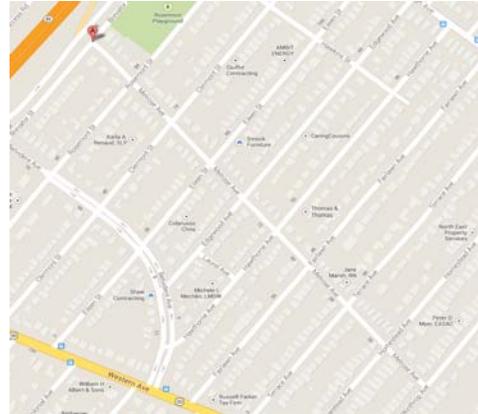
### Operation

Albany Water Board

### Enforcement

Albany Water Board

### Project Location



### Outfall#

A-016

### Contact Information

Albany Water Board

### Affected Waterbodies

Hudson River

William Simcoe

(518) 434-5300 / wsimcoe@albanyny.gov

### Discharge reduction amount

### Consent Order Milestones

Completed Plans and Specs: 10/1/14

### Date Milestone Met

10/1/2014

NTP to Construction: 4/1/15

4/1/2015

Construction Completion Date: 12/15/16

12/15/2014

Operational Start-Up Date: 12/15/16

12/15/2014

### Status

**3/27:** No update at this time **4/24:** No update at this time. **5/22:** No update at this time. **7/10:** Plans and specs submitted as part of SSS-01 big package in 2/14. Construction of structures 100% complete, inspected, and accepted by engineer, currently contractor performing final restoration work. **8/14:** Revised approval letter from DEC received on 7/11. **9/11:** Certification forms submitted on NTP, construction complete, and operational start date milestones. This project is complete.

## BMP-02: McCormack Pump Station Upgrades

### General description

Installation of a new communitor at the McCormack PS. The new communitor will replace a bar screen system which was ineffective in preventing large diameter debris from entering the wet wells of the PS, especially during wet-weather events.

### Purpose

Increase pump reliability and efficiency.

#### SPDES Permit#

NY-002 5747

#### Project Cost (Millions)

\$0.08

#### Funding source

Project funded through Water Board (Credit)

#### Own

Albany Water Board

#### Maintain

Albany Water Board

#### Cost-sharing

APCs

#### Certification

Albany Water Board

#### Manage construction

Albany Water Board

#### Operation

Albany Water Board

#### Enforcement

Albany Water Board

#### Project Location



#### Outfall#

A-016

#### Contact Information

Albany Water Board

#### Affected Waterbodies

Normanskill Creek, Hudson River

William Simcoe

(518) 434-5300 / wsimcoe@albanyny.gov

### Discharge reduction amount

#### Consent Order Milestones

Construction Completion Date: 9/30/14

Operational Start-Up Date: 9/30/14

#### Date Milestone Met

9/30/2014

9/30/2014

### Status

**2/18:** Awaiting parts for Comminutor and installation of pumps. Has been through board of contract and supply and will be put out to bid. **3/27:** Put out to Bid 4/8/14, with Bids due 4/22/14. **4/24:** Bids have been received. A recommendation for the low bid on the Comminutor was made to the water board. The bid needs to be reviewed by the board of contract and supply before being awarded. **5/12:** Bid has been reviewed by Board of Contract and supply and was awarded. **5/22:** Contract signed, Communitor ordered, expected ship date is June 15th, if shipped on time expected completion by first of July. **7/10:** Parts received and anticipate full installation by 9/1. **8/14:** Installation underway anticipated completion date of 9/30. **10/9:** The comminutor has been installed and project completion expected on 9/30. **11/13:** Project has been completed and certified.

## GI-02: North Swan St. Park Revitalization

### General description

The proposed project will reduce impervious surfaces by approximately 25%, and will evaluate the feasibility of various GI practices including: dry swales, tree plantings, stormwater planter(s), soil restoration/de-compaction and permeable pavers/pavement treatments.

### Purpose

It's the City's intent to "green-up" the park's existing infrastructure, using EPA's fix-it-first philosophy. Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

### SPDES Permit#

NY-002 5747

### Project Cost (Millions)

\$0.15

### Funding source

Partially funded by NYS DEC Water Quality Improvement Grant, 2013: \$87,914

### Own

City of Albany

### Maintain

City of Albany, APCs GI only

### Cost-sharing

APCs

### Certification

APCs

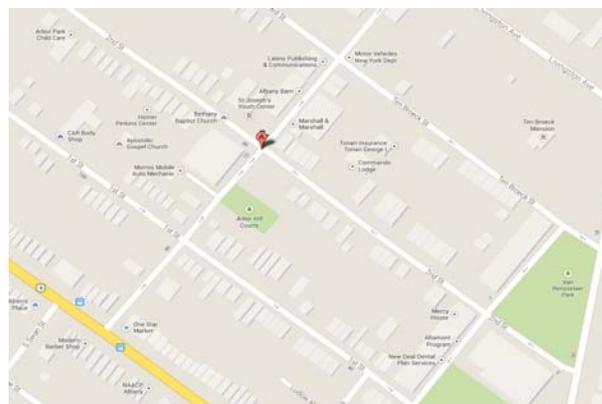
### Manage construction

Albany Water Board

### Operation

### Enforcement

### Project Location



### Outfall#

A-030

### Contact Information

Albany Water Board

### Affected Waterbodies

Hudson River

William Simcoe

(518) 434-5300 / [wsimcoe@albanyny.gov](mailto:wsimcoe@albanyny.gov)

### Discharge reduction amount

Reduction of 0.041 ac-ft. of water quality treatment & a runoff reduction volume of 0.029 ac-ft. with an estimated reduction in total Suspended Solids (TSS) of approximately 11 tons/yr., Total Phosphorus (TP) of 82 lbs./yr., & Total Nitrogen (TN) of 524 lbs./yr.

### Consent Order Milestones

Completed Plans and Specs: 12/15/13

### Date Milestone Met

2/28/2014

Notice to Proceed to Construction: 6/15/14

6/11/2014

Construction Completion Date: 12/15/15

Operational Start-Up Date: 12/15/15

### Status

**2/18/14:** Applied for funding in the WQIP program in December of '13. **3/13:** Bid has been prepared and is being reviewed by board of contract and supply. Should be on track for NTP. Park project manager was City Planning director, who left office, has shifted to senior planner. **3/18:** Comments received DEC. 3/26 AWB staff met with project engineer and City Departments about DEC comments. MJ Engineering will review the comments. **4/24:** AWB staff, project engineer, CDRPC, and APJVT met collectively with DEC to discuss the comments and responses to the Department's comments. A revised set of plans and specs will be submitted to the Department. **5/12:** Plans and specs have been approved by DEC and on-time NTP is anticipated. **5/22:** Project Bids received, on the schedule to be presented to the Board of Contract & Supply June 3rd for award. **7/10:** NTP was issued and the Department notified of this step on 6/12. **8/14:** Demolition work has begun and is being managed by City DGS. **10/9:** Site work ongoing **11/13:** No update at this time. **1/08/15:** Significant headway has been made in demolition. Project activity has stopped for winter and will resume in warmer weather.

# GI-03: Quail Street Green Infrastructure Project

## General description

The proposed project lies along Quail Street from Madison Avenue to Central Avenue, approximately 3,850 linear feet, and includes a \$1.8M "Green Component" to increase infiltration and water quality. The project includes a collaborative educational component to be performed in conjunction with the College of St. Rose and the University of Albany's Downtown Campus.

## Purpose

Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

## SPDES Permit#

NY-002 5747

## Project Cost (Millions)

\$2.60

## Funding source

\$1.80 from GIGP grant

## Own

City of Albany

## Maintain

City of Albany, APCs GI only

## Cost-sharing

APCs

## Certification

APCs

## Manage constructor

City of Albany Planning Dept.

## Operation

City of Albany and APCs (GI component)

## Enforcement

## Project Location



## Outfall#

A-016

## Contact Informator

Albany Water Board

## Affected Waterbodies

Hudson River

William Simcoe

(518) 434-5300 / wsimcoe@albanyny.gov

## Discharge reduction amount

DEC has requested a 20% RRV to be achieved

## Consent Order Milestones

Completed Plans and Specs: 10/1/14

Notice to Proceed to Construction: 4/1/15

Construction Completion Date: 12/15/16

Operational Start-Up Date: 12/15/16

## Date Milestone Met

10/1/2014

## Status

**4/24:** No update at this time. Developing plans and specs with feedback from North Swan St. GI project.  
**5/22:** Hershberg & Hershberg is currently performing survey work, sub contractor Dente has been hired for Geotechnical work. Once survey and geotechnical work completed work on the RFP for engineering design services will start.  
**7/10:** City engineering, water department, and planning staff have been meeting with CDRPC and the APJVT to review infiltration and site plan data. We will contact the Department about a meeting to discuss the findings and steps moving forward.  
**8/14:** Met city, engineering, and consultant team on 7/21 to review soil and survey work - preliminary planning underway. Anticipate meeting with DEC GI team to review soil and site plan findings, discuss implementation proposals.  
**9/11:** The city has put out bids for a project engineer and selected CHA to develop plans and specs.  
**10/9:** CHA anticipates on-time delivery of completed plans and specs 11/13.  
**10/13:** Delivery of plans and specs via the FTP on October 1, 2014. Awaiting department comments and when the Department is ready, a meeting to discuss the project and DEC's comments would be beneficial.  
**11/08/15:** DEC approved the plans and specs via email on 11/6. On time NTP is expected. City anticipates bid to go out on 1/23 and is considering additional sewer separation and sewer work on Elberon that could tie into Quail St.  
**2/12:** Bids due on 2/13. Anticipate award and NTP on time.  
**3/12:** Construction bids were received on 2/20 and the contract was awarded on 3/3. The contract award amount is \$2,595,000.

# "Big C" Disinfection and Floatables Control Facility

## General description

The proposed satellite treatment facility provides CSO controls for flows up to 75 mgd to reduce floatable and fecal coliform discharges to the Hudson River. The "Big C" Disinfection Project would provide treatment consisting of screening and disinfection for an additional ~285MGal on an average annual basis.

## Purpose

The project provides a cost-effective, regional solution to enhance the "recovery time" for the Hudson River during periods of combined sewer overflows; and contributes to the treatment of greater than 85% of all wet weather flows from a regional perspective.

## SPDES Permit#

NY-0025747

## Project Cost (Millions)

\$45.00

## Funding source

CWSRF Bond Financing

## Own

City of Albany

## Maintain

APCs

## Cost-sharing

APCs

## Certification

APCs

## Manage construction

## Operation

APCs

## Enforcement

APCs

## Outfall#

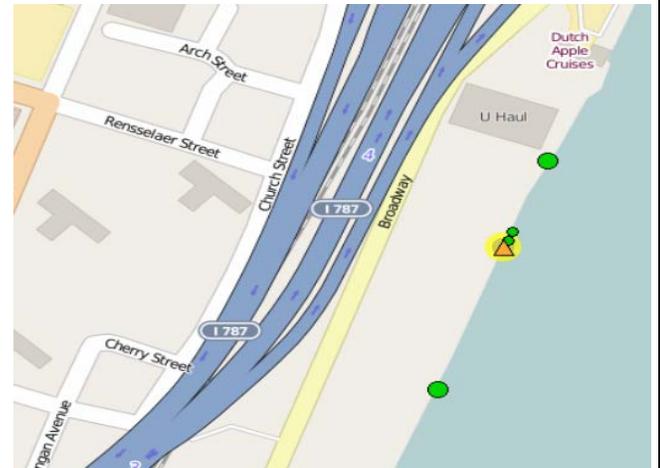
A-016

## Affected Waterbodies

Hudson River

## Discharge reduction amount

## Project Location



## Contact Information

Albany Water Board

William Simcoe

(518) 434-5300 / [wsimcoe@albanyny.gov](mailto:wsimcoe@albanyny.gov)

## Consent Order Milestones

## Date Milestone Met

Begin Preliminary Design Report: 8/1/15

Completed Preliminary Design Report: 8/1/16

Begin SEQR & Eminent Domain Process: 2/1/17

Completed SEQR & Eminent Domain Process: 2/1/21

Begin Final Design: 12/15/18

Completed Final Plans & Specifications: 10/1/20

NTP to Construction: 4/1/21

Construction Completion Date: 12/15/22

Operational Start-Up Date: 5/1/23

## Status

**3/12:** No update at this time.



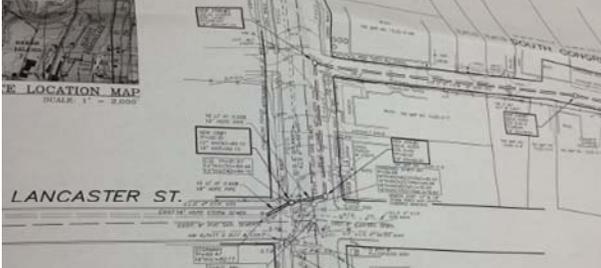
## SSS-04 George St. Sewer Separation

### General description

Extension of the existing separated storm sewer on Lancaster Street, south of Columbia Street, which currently re-enters the CSS at George Street; and run the sewer approximately 1,000 linear-feet to the stone arch under George Street Park. As part of local mitigation for the Lexington Hill Project, the City has requested the developer, Capital District Properties to complete the project.

### Purpose

Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events at two outfalls, including "Little C"

SPDES#	Project Location
NY-003 1046	  
Project Cost	
\$0.42	
Funding source	
Developer	
Own	
City of Cohoes	
Maintain	
City of Cohoes	
Cost-sharing	
None	
Certification	
APCs	
Manage construction	
Cohoes	
Operation	
City of Cohoes	
Enforcement	
City of Cohoes	
Outfall#	Contact Information
C-008, 015	City of Cohoes
Affected Waterbodies	Gary Nathan, PE
Hudson River	(518) 233-2131 / gnathan@ci.cohoes.ny.us
Discharge reduction amount	
Will remove 100k gallons from system on peak flow, average of 36k gallons per day.	
Consent Order Milestones	Date Milestone Met
Completed Plan and Specs: 10/1/16	9/25/2014
NTP to Construction: 4/1/17	
Construction Completion Date: 12/15/17	
Operational Start-Up Date: 12/15/17	

### Status

**3/27:** Project may be moving along quicker than anticipated. **4/24:** No update at this time **5/12:** No update at this time **7/10:** Preliminary plans and specs submitted to Albany County Health Department at the behest of DEC Region 4 **8/14:** Final plans being developed and it's anticipated they will be submitted next month. **9/11:** CDRPC will meet with city staff on 9/8 to install the FTP site and submit completed plans and specs electronically to the department. **10/9:** Complete plans and specs for this project were submitted via the FTP site on 9/8. **11/13:** Awaiting DEC comment/approval letter. **1/08/15:** Plans and specs were approved by DEC and DOH on 11/17. Construction anticipated to start around April 15 depending upon weather and when the blacktop plants are open.

## GI-01 Albany Ave. Green St. Project

### General description

Reconstruction of approximately 1,300 linear-feet of Albany Street. The Village is proposing to redesign the roadway, incorporating low impact development principles, to achieve a reduction of impervious surfaces of approximately 10%.

### Purpose

The project is proposing the use of Filterra BioRetention Systems, as manufactured by Americast, in an effort to demonstrate the performance of these systems. Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

### SPDES#

003-3031

### Project Cost

0.25 credit

### Funding source

Village of Green Island credit

### Own

Village of Green Island

### Maintain

Village, APC for GI

### Cost-sharing

### Certification

Village of Green Island

### Manage construction

Village of Green Island

### Operation

Village of Green Island

### Enforcement

Village of Green Island

### Outfall#

GI-004

### Affected Waterbodies

Hudson River

### Discharge reduction amount

### Consent Order Milestones

Construction Completion Date: 12/15/14

Operational Start-up Date: 12/15/14

### Project Location



### Contact Information

Sean Ward

Village of Green Island

(518) 273-2201 / seanw@villageofgreenisland.com

### Status

**3/27:** Awaiting warmer weather to apply top coat to the street. **4/24:** Blacktop layer expected to be applied on 4/25 (Weather permitting) **5/22:** Blacktop has been laid down. Awaiting official word from contractor before certifying completion. **7/10:** Project close to complete, pending final payment to contractor for as built. **8/10:** This project is complete. Certificate of completion was presented to the Department on 7/10.

## APW-01 Discharge Notification System for Albany Pool CSOs

<b>General description</b>	
Development of a public notification system for discharges of Albany Pool CSOs.	
<b>Purpose</b>	
Compliance with the requirements of Sewage Pollution Right to Know Act (ECL § 17-0826-a).	
<b>SPDES Permits</b>	<b>Project Cost (Millions)</b>
NY 002 5747, 003 1046, 002 6026, 009 9309, 003 0899, 003 3031	\$0.215
<b>Funding source</b>	<b>Cost-sharing</b>
Funded through DOS Lge grant	APCs
<b>Manage Construction</b>	<b>Contact Information</b>
CDRPC	Martin Daley
<b>Certification</b>	CDRPC
APCs	(518) 453-0850 / mdaley@cdrpc.org
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Task Start Date: 12/1/13	12/1/2013
Task Completion Date: 12/1/14	11/27/2014
<b>Status</b>	
<p>Meeting and working with APCs, DEC to determine best system to develop. <b>3/27</b>: Researching Onondaga county model for discharge notification system and website. Will submit pre-order task start certificate. <b>4/24</b>: Will be contact with Onondaga County and "Save the rain" program staff. Pre-order certificate language pending approval &amp; host Arcadis engineering at May 8th meeting to discuss program. <b>5/22</b>: Presentation by Arcadis has been sent to the communities. Working with DOS re: MWBE contract and bidding requirements <b>7/10</b>: Arcadis working on program through APJVT contract. <b>8/14</b>: Discharge notification system will similar to that of Onondaga County and will use the City of Cohoes outfalls as a as a pilot. It is anticipated that a presentation will be made to the communities on August 28, 2014 and submitted to DEC by September 11 for review. It is anticipated the project will be up and running by the December 1st deadline specified in the Order. <b>9/11</b>: Arcadis presented the model system to the communities to review and comment, on August 28th. Arcadis will make necessary modifications and send the communities a secure link to check on modifications before meeting with DEC with the draft program. <b>10/9</b>: Arcadis presented the model system to DEC staff on 9/16 and is in the process of updating and scaling up the program. <b>11/13</b>: Arcadis has 'scaled up' the system for all of the communities and revised based upon community and DEC input. Remaining tasks involve streamlining the look and user interface, establishing a domain, and fixing small display issues. <b>1/08/15</b>: The task is complete and the system is operational at <a href="http://www.albanypool.org">www.albanypool.org</a>. DEC comments on the site have been received and the consultant team is working to improve access across browser platforms and web-enabled devices. <b>3/12</b>: The site has continued to be updated and is no accessible via Google Chrome and Safari Browsers. The developer is continuing to improve accessibility.</p>	

**APW-02 Execution of IMA(s) in compliance with Section V(C) of the Order on Consent**

<b>General description</b>	
Development of APCs governance structure for implementation of the LTCP.	
<b>Purpose</b>	
Definition of the policies and protocols for adherence by the six (6) APCs and two (2) sewer districts in regards to the implementation of the CSO LTCP.	
<b>SPDES Permits</b>	<b>Project Cost (Millions)</b>
NY 002 5747, 003 1046, 002 6026, 009 9309, 003 0899, 003 3031, 002 6867, 008 7971	\$0.78
<b>Funding source</b>	<b>Cost Sharing</b>
NYSDOS Local Government Efficiency Grant	APCs
<b>Manage construction</b>	<b>Contact Information</b>
CDRPC	Martin Daley
<b>Certification</b>	CDRPC
APCs	(518) 453-0850 / mdaley@cdrpc.org
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Task Start Date: 1/15/14	1/1/2013
Task Completion Date: 4/15/15	
<b>Status</b>	
<p>3/27: Communities have reviewed local laws and have not found any that need to be revised/enacted to carry out the IMA. Districts may need MOA with boards for authorizations are necessary to carry out the IMA. Respondents reviewed procurement requirements for the Local Development Corp. Respondents discussing preliminary designations of responsibility in the Responsibility Matrix, particularly Operations &amp; Maintenance. Bond Counsel is developing a 1-page potential financing report that will dovetail into the IMA. 4/24: Bond counsel and financial officer reviewing draft IMA language for incorporation of Capital Improvements Plan and Financial Plan. Held preliminary meeting with EFC on 4/23. 5/22: Draft copy of IMA and LDC policies to CDRPC for internal review completed, the next phase will collect feedback from EFC. 7/10: EFC review complete (anticipated 7/3) delivered to communities for review on 7/10 (anticipated) 8/14: Draft APC IMA, draft Sewer District IMA, LDC formation documents, model resolutions, and related materials delivered to pool for review. The communities will have roughly one month to review and submit comments or questions. It is anticipated that an IMA will be completed by August 28, 2014 for submittal to DEC for review and approval. 9/11: Legal team meeting with the city of Albany to work through some questions related to city vs. Water Board responsibilities. 10/9: An early October delivery is anticipated, though Albany still needs to provide their "ok." 11/13: The draft IMAs and LDC documents were delivered to DEC on 10/3 for comment. The communities plan to meet with DEC on November 14th to walk the Department through the documents and address any concerns. 1/08/15: The three IMAs have been accepted by DEC and a responsibility matrix tabulated. The IMAs schedule was advanced to take advantage of EFC financing that closes on 3/2/15. Thus, the APC communities will authorize and execute the IMA prior to bond resolutions, which need to be in place by 3/2. 2/12: To date all communities with the exception of Troy have executed the Pool IMA. District IMAs will be executed next month (not needed for EFC) <b>3/12</b>: The six Pool Communities executed the Pool IMA on 2/25/15. The IMA was submitted to DEC and EFC.</p>	

**APW-03 Development of the Post-Construction Monitoring Program (PCMP)**

<b>General description</b>	
Provides definition of the sampling locations, protocols and frequency for the collection of water quality data.	
<b>Purpose</b>	
Data to be used to assess the benefits associated with the LTCP, and demonstrate compliance with water quality standards.	
<b>SPDES Permits</b>	<b>Project Cost (Millions)</b>
NY 002 5747, 003 1046, 002 6026, 009 9309, 003 0899, 003 3031	\$0.02
<b>Funding source</b>	<b>Cost-sharing</b>
	APCs sharing cost of program
<b>Manage construction</b>	<b>Contact Information</b>
CDRPC	Martin Daley
<b>Certification</b>	CDRPC
APCs	(518) 453-0850 / mdaley@cdrpc.org
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Task Start Date: 4/1/14	3/27/2014
Task Completion Date: 10/1/14	11/27/2014
<b>Status</b>	
<p><b>3/27:</b> CDRPC is beginning to develop this task with the communities and has discussed options for moving forward and the timeline with the technical committee and project consultants. Identifying process for putting the project out to bid. <b>4/24:</b> APJVT working on potential program that CDRPC will review before bringing forward to APCs. <b>5/22:</b> No update at this time. <b>7/10:</b> No update at this time (APJVT putting a draft of the program together) <b>8/14:</b> Awaiting updated water quality standard guidance. <b>9/11:</b> Program previously outlined in LTCP, but awaiting updated water quality standard guidance 10/9: The communities have received DEC's program memo, dated 9/27, and will submit a letter in response. <b>11/13:</b> The communities are evaluating the Department's recommended modifications/expansion of the PCMP and will respond accordingly. <b>1/08/15:</b> Final PCCMP will be presented to the communities on 1/08. <b>2/12:</b> Final PCCMP letter and plan have been submitted to DEC for approval. <b>3/12:</b> Awaiting DEC comments on final PCMP and Enterococcus sampling program.</p>	

**APW-04 Sewer System Operations, Maintenance and Inspection Plans**

**General description**

Documents and improves current procedures for operation, maintenance and inspection of each community's combined sewer system. Scope to be further developed within the established budget based upon the goals and needs of each community.

**Purpose**

Provides for improved system performance and CSO capture.

**SPDES Permits**

NY 002 5747, 003 1046, 003 0899, 003 3031

**Project Cost (Millions)**

\$0.15

**Funding source**

Local funds

**Cost-sharing**

Communities advancing on own, will be credited

**Certification**

Albany Water Board, Cohoes, Watervliet, Green Island

**Contact Information**

Martin Daley

**Manage construction**

CDRPC

CDRPC

(518) 453-0850 / mdaley@cdrpc.org

**Consent Order Milestones**

Task Start Date: 4/1/14

**Date Milestone Met**

3/27/2014

Task Completion Date: 12/1/15

**Status**

Communities on the East side of the River (Troy and Rensselaer) performed this task with the assistance of CDM Smith. Communities on the West side will coordinate efforts to develop plans that are consistent. Project may need to go out to bid. **4/24:** The City of Troy shared their plans, which the communities are currently reviewing to model their own plans. **5/22:** APC Technical Committee hosted CDM Smith for presentation on Troy and Rensselaer plans **7/10:** Communities are working on their individual plans **8/14:** No update at this time **9/11:** No update at this time **10/9:** No update at this time **11/13:** No update at this time. **1/08/15:** Communities will review RCSD plans in context of DEC comments. Will present these comments to the communities at February APC meeting. **2/12:** Focus on preparing the EFC applications and financial plan, this presentation has been postponed until March. **3/12:** No update at this time

**APW-05 ASSET MANAGEMENT PLANS**

**General description**

Allows for prioritization of rehabilitative measures based upon condition and criticality of infrastructure. Helps to reduce the risk of failure of critical infrastructure and improves reliability of the collection system to convey wastewater to the WWTP for treatment during dry and wet weather conditions.

**Purpose**

Allows for prioritization of rehabilitative measures based upon condition and criticality of infrastructure. Helps to reduce the risk of failure of critical infrastructure and improves reliability of the collection system to convey wastewater to the WWTP for treatment during dry and wet weather conditions.

<b>SPDES Permits</b>	<b>Project Cost (Millions)</b>
NY 002 5747, 003 1046, 003 0899, 003 3031	\$0.35
<b>Manage construction</b>	<b>Cost-sharing</b>
CDRPC	Communities advancing on own, will be credited
<b>Funding source</b>	<b>Contact Information</b>
Local funds	Martin Daley
<b>Certification</b>	CDRPC
Albany Water Board, Cohoes, Watervliet, Green Island	(518) 453-0850 / mdaley@cdrpc.org
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Task Start Date: 4/1/15	
Task Completion Date: 12/1/17	

**Status**

**1/08/15:** Awaiting asset management plan guidance from DEC, which will be helpful in for this task. **2/12:** Troy and Rensselaer will be meeting with DEC at the end of the month to discuss these plans. We anticipate these final plans to drive development and content of AMPs for west side communities. **3/12:** No update at this time

## GI-06 Documentation/Reporting of New Public and Private Green Projects

### General description

The objective of this task is to provide a mechanism by which to document the installation of “green practices or infrastructure” within the individual communities; and to assess the use of green practices within new development and redevelopment projects for both public and private sectors.

### Purpose

This task will document the extent and acceptance of green strategies within the APCs, and will generate the estimated runoff volume reduction on an annual basis.

SPDES Permits	Project Cost (Millions)
NY 002 5747, 003 1046, 003 0899, 003 3031	\$0.05
Funding source	Cost-sharing
	APCs
Manage construction	Contact Information
CDRPC	Martin Daley
Certification	CDRPC
APCs	(518) 453-0850 / mdaley@cdrpc.org
Consent Order Milestones	Date Milestone Met
Task Start Date: 8/1/14	7/31/2014
Task Completion Date: 3/1/19	

### Status

**3/27:** As GI projects are developed so too will this program to document. **4/24:** No update at this time **5/22:** No update at this time **7/10:** No update at this time **8/14:** Task has begun, working with APJVT on program **9/11:** No update at this time **10/6:** No update at this time **11/13:** The standard tool and methodology for collecting and evaluating the data will need to be created, as well as the format for disseminating this info - potentially in the semi-annual report structure. **1/08/15:** A reporting tool has been created and will be reviewed by the APCs before being submitted to DEC. **2/12:** Communities are reviewing the draft form. **3/12:** No update at this time.

## GI-07 Performance of a Codes and Local Law Review

### General description

This task will identify and evaluate various models associated with the potential implementation of a green infrastructure banking system, including Stormwater In-Lieu Fees and Stormwater Retention Credit Banking.

### Purpose

In general, these efforts set in motion the necessary outreach to land use decision makers, reinforced with targeted educational programs, to begin the process of re-tooling existing laws to embrace green infrastructure strategies.

### SPDES Permits

NY 002 5747, 003 1046, 003 0899, 003 3031

### Project Cost (Millions)

\$0.10

### Funding source

### Cost-sharing

N/A

### Manage constructor

CDRPC

### Contact Informator

Martin Daley

### Certification

APCs

CDRPC

(518) 453-0850 / mdaley@cdrpc.org

### Consent Order Milestones

### Date Milestone Met

Task Start Date: 8/1/15

Task Completion Date: 8/1/16

### Status

**7/10:** Developing "road map" program outline for DEC comment. Due to CDRPC's application for program funding in the 2014 round of the CFA, the APCs are attempting to advance this program well ahead of schedule. **8/14:** Delivered "road map" of potential program to DEC for review and comment. **9/11:** Draft timeline for the project has been submitted to DEC for review. **10/9:** A program timeline was submitted to the Department for review and comment. **11/13:** CDRPC is evaluating efforts that may accelerate the timeline of the program, and collect some of the benchmark data early and in house. **1/08/15:** CDRPC has slightly modified the survey instrument used in Albany County to "catch up" Rensselaer and Troy and provide similar gap data. The instrument will be reviewed by the APCs prior to deliver to DEC. Application for grant funding from the Consolidated Funding Application was not awarded. **2/12:** CDRPC has distributed the survey for comment from APCs. Also in development of survey to track GI code changes in west side communities. **3/12:** Developing survey for east side, follow-up for west side. Cohoes has passed several amendments to local code concerning GI. Albany county reviewing land use regulations pertaining to GI.

## GI-08 Completion of a Feasibility Assessment for a "Green Infrastructure Banking System"

### General description

This task will identify and evaluate various models associated with the potential implementation of a green infrastructure banking system, including Stormwater In-Lieu Fees and Stormwater Retention Credit Banking.

### Purpose

This task will evaluate the feasibility and potential benefits associated with "green banking."

SPDES Permits	Project Cost (Millions)
NY 002 5747, 003 1046, 003 0899, 003 3031	\$0.08
Funding source	Cost-sharing
Manage construction	Contact Information
CDRPC	Martin Daley
Certification	CDRPC
APCs	(518) 453-0850 / mdaley@cdrpc.org
Consent Order Milestones	Date Milestone Met
Task Start Date: 8/1/15	
Task Completion Date: 8/1/17	

### Status

**1/08/15:** Application for grant funding from the Consolidated Funding Application was not awarded. The program is envisioned as an in-lieu-fee (ILF) approach for stormwater management occurs in circumstances where a permittee provides funds to an ILF sponsor instead of completing specific stormwater mitigation onsite. In general, a public entity, or entity designated by the public office would act as an aggregator to develop stormwater retention projects on public or private lands and receive payment from entities who cannot meet stormwater retention regulations with onsite mitigation. This model may also be able to support stormwater credits being offered to developers as a means to incentivize investment of private funds within designated priority areas/zones for redevelopment. The project is envisioned to evaluate:

- Stormwater Retention Credit Banking: Market based solution similar to wetland mitigation banking systems. Under this model, private property owners install stormwater best management practices on private lands and sell excess retention credits to permitted entities. The feasibility assessment will include the following tasks:
  - Projected Development Demand
  - In-house Human Capital Assessment
  - Topographical Assessment
  - Stormwater Retention Strategies and Site Evaluations
  - Financial Assessment of ILF Costs and Fee Calculations, or Off-Site Credits

**2/12:** Researching plans in other communities collecting data on scope of plan, cost, authors, boundaries, etc. Will use this research to develop RFP and workplan for consultant. **3/12:** No update at this time

## GI-09 Green Infrastructure Technical Design Guidance

### General description

Provides each community with assistance in developing green infrastructure guidance for public and private application of green infrastructure. Scope to be further developed within the established budget based upon the goals and needs of each community.

### Purpose

Provides consistent pool-wide standards and details for application of green infrastructure (GI) for management of stormwater. Implementation of GI practices will help to reduce inflow to the combined sewer system resulting in reduced frequency and volume of CSO discharges.

### SPDES Permits

NY 002 5747, 003 1046, 003 0899, 003 3031

### Project Cost (Millions)

\$0.15

### Funding source

### Cost-sharing

APCs

### Manage construction

CDRPC

### Contact Information

Martin Daley

### Certification

APCs

CDRPC

(518) 453-0850 / mdaley@cdrpc.org

### Consent Order Milestones

Task Start Date: 8/1/15

### Date Milestone Met

Task Completion Date: 8/1/17

### Status

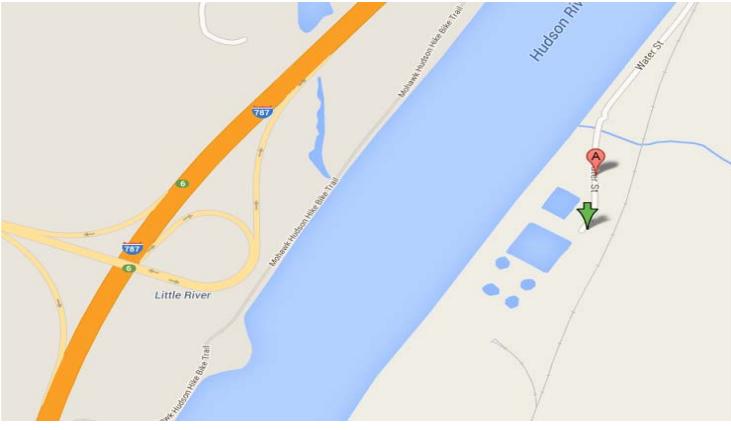
**1/08/15:** Applied for funding through the Consolidated Funding program but was not awarded. Will need to develop scope of program and if needed, RFP for consultant assistance. **2/12:** No update at this time **3/12:** No update at this time

## BMP-03 Upgrade Pump Stations Located in Rensselaer

<b>General description</b>	
Rensselaer Pump Station Upgrades (Aikens and Forbes) - replace pumps, repair/replace sluice gates and isolation valves, new channel grinders, new emergency generators, new control system for communication with WWTP. Increase pump station capacity: Aiken from 10.4 MGD to 14 MGD. Forbes from 14.4 MGD to 17.2 MGD.	
<b>Purpose</b>	
Improve conveyance of wet-weather flows to WWTP, thereby reducing surcharging and subsequent CSO discharges.	
<b>SPDES Permit#</b>	<b>Project Location</b>
NY-008 7971	
<b>Project Cost (Millions)</b>	
\$14.00	
<b>Funding source</b>	
RCSD	
<b>Own</b>	
RCSD	
<b>Maintain</b>	
RCSD	
<b>Cost-sharing</b>	
<b>Manage construction</b>	
RCSD	
<b>Operation</b>	
RCSD	
<b>Enforcement</b>	
RCSD	
<b>Outfall#</b>	
R-002 to 010 (once regulators are opened)	
<b>Affected Waterbodies</b>	<b>Contact Information</b>
Hudson River	Gerry Mosckinski
<b>Certification</b>	RCSD
RCSD	(518) 283-2235 / GMoscinski@rensco.com
<b>Discharge reduction amount</b>	
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Completed Plans and Specs: 3/1/14	2/28/2014
NTP to Construction: 7/1/14	6/19/2014
Construction Completion Date: 8/15/15	
Operational Start-Up Date: 8/1/15	
<b>Status</b>	

Completed plans and specs have been submitted. On schedule. 3/27: DEC Comment letter received. 5/22: Construction started on May 1st, pads for generator poured - slide gates and generator expected soon. 7/10: NTP has been issued ahead of schedule. Generator sets have been delivered and set, slide gates being installed. 7/24: no update at this time. 9/11: RCSD estimates that the project is roughly 50% along. Piping work has yet to be started. 10/9: Construction ongoing. 11/13: The generators are in. Electrical work underway. National Grid scheduled to visit. Installation of pumps scheduled for the end of the month. 1/08/15: We anticipate submission of a modification request letter to the Department very shortly. The modification request letter will provide a complete update. 2/12: On January 16 the District requested a modification of the construction completion and operational start up dates, due to delays in MCC procurement and testing, National Grid coordination and energizing, and harmonic filter procurement. DEC granted the extension request dates of 8/15 in a memo on 1/28. On Thursday, January 22 a flooded dry well was the result of a plug valve not fully closing at the Aiken Ave. Pump Station. This happened while the station's first pump was pulled for replacement resulting in wastewater flowing back from the force main into the dry well to a depth of several feet before flow could be stopped. Gerry Moscinski alerted Derek Thorsland straight away to notify the Department of the situation. The dry well was dewatered that day and the station remained in operation however, unfortunately, the three new pump motors were all staged on the floor of the dry well at the time and subsequently became submerged. The construction contractor is now working with Troy Belting to have the motors shipped to their shop for testing as they are certified by the motor manufacturer. Troy Belting will then make a recommendation as to what refurbishment is required to make the motors reliable for operation. Refurbishment time should be 4-6 weeks followed by a couple days to install. We will have a better estimate once Troy Belting gets a look at the motors. The County, CDM Engineering, and the contractor have been working hard to address this issue, and the team has identified a few opportunities to compress the installation schedule as to not lose time due to this setback. To keep the project moving on schedule, the team plans to have the affected new motors refurbished so that they can be installed. Thus, the station will operate at the required increased capacity with the new pumps and refurbished motors. At this time we do not believe there will be a delay in getting the station project complete and operational by August 15. In the meantime the County will be evaluating the cost/benefit of having new replacement motors assembled and shipped. New motors would take about 12-14 weeks for the order to be fulfilled and 14-16 weeks for installation. If the County elects to install replacement motors, they estimate these brand new motors could be in service prior to 8/15. 3/12: National Grid has energized the station. The motors are back from Troy Belting. Motors from Forbes aver that did not get wet will be used for the first few installs with the intent new motors will be arriving as needed.

# BMP-04 Regulator Capacity Improvements

<b>General description</b>	
Optimization of conveyance of wet-weather flows to the WWTP by modifying up to 40 regulators.	
<b>Purpose</b>	
Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor and thus decrease CSOs.	
<b>SPDES Permit#</b>	<b>Project Location</b>
NY 008 7971	
<b>Project Cost (Millions)</b>	
\$0.28	
<b>Funding source</b>	
RCSD	
<b>Own</b>	
RCSD	
<b>Maintain</b>	
RCSD	
<b>Cost-sharing</b>	
<b>Certification</b>	
RCSD	
<b>Manage construction</b>	
RCSD	
<b>Operation</b>	
RCSD	
<b>Enforcement</b>	
RCSD	
<b>Outfall#</b>	<b>Contact Information</b>
T-001 to 043, 046A, 046B , 047	Gerry Mosckinski
<b>Affected Waterbodies</b>	RCSD
Hudson River	(518) 283-2235 / GMoscinski@renesco.com
<b>Discharge reduction amount</b>	
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Completed Plans and Specs: 10/1/14	10/1/2014
NTP to Construction: 4/1/15	
Construction Completion Date: 12/15/15	
Operational Start-Up Date: 12/15/15	
<b>Status</b>	
<p>3/27: Work on this project began in 2013 as part of order CO-4-20091123-154. Model output identified "trouble spots" corrective action implemented and documented. Memo to follow from CDM Smith. 5/22: All initial improvements from dry weather Order have been met. 7/10: Waiting for NYSDEC comments on dry weather Order work. 7/24: Plans and specs will be submitted by the milestone 9/11: CDM Smith will provide a with a memo that outlines what regulator gates to open/remove. The majority of the recommendations developed during LTCP development. 10/9: The county, with consultant CDM Smith, will submit plans for these regulator capacity improvements. 11/13: Memo from CDM outlining regulator improvements submitted, awaiting response from DEC. 1/08/15: Plans and specs submitted on 10/1. The District has not yet received an approval or comment letter on this project. <b>2/12</b>: On schedule for on time NTP. <b>3/12</b>: Plans and specs aproved on 3/9.</p>	

## BMP-05 Upgrade Pump Stations Located in Troy

### General description

Troy Pump Station Upgrades (106th and Monroe) - replace pumps, repair/replace sluice gates and isolation valves, new mechanical bar screens, new emergency generators, new control system for communication with WWTP. Increases pump station capacity at Monroe from 32.5 MGD to 42.5 MGD. Maintains current capacity at 106th (8 MGD).

### Purpose

Improve conveyance of wet-weather flows to WWTP, thereby reducing surcharging and subsequent CSO discharges.

SPDES Permit#	Project Location
<b>Project Cost (Millions)</b>	
\$15.00	
<b>Funding source</b>	
RCSD	
<b>Cost-sharing</b>	
<b>Own</b>	
RCSD	
<b>Maintain</b>	
RCSD	
<b>Outfall#</b>	
R-002 to 044	
<b>Own</b>	
RCSD	
<b>Operate</b>	
RCSD	
<b>Maintain</b>	
RCSD	

Affected Waterbodies	Contact Information
Hudson River	Gerry Mosckinski
<b>Certification</b>	RCSD
RCSD	(518) 283-2235 / GMoscinski@rensco.com

Discharge reduction amount

Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 9/1/14	8/28/2014
NTP to Construction: 3/1/2015	2/27/2015
Construction Completion Date: 4/1/2016	
Operational Start-Up Date: 4/1/1016	

### Status

**5/22:** Under design. **7/10:** Under design **7/24:** Update forthcoming. **9/11:** Completed plans and specs for these two pump stations were drafted by Delaware Engineering and submitted to the Department on 8/29 **10/9:** Awaiting comments on the plans and specs **11/13:** Prelim comments from EFC in hand still awaiting DEC comments/letter of approval **1/08/15:** Plans and specs approved 11/20. Project was out for bid on 12/8. The original bid opening date was 1/6 but was extended to 1/20 to widen the response field, get more competitive prices, consider the holidays, and to accommodate a bid addendum. If needed, the County legislature is planning to take steps to consider this outside of its normal legislative calendar if necessary to ensure that an authorization to award can be provided in time to allow the NTP to occur by the current deadline. **2/12:** Bid has been awarded, contractor will be submitting insurance and bond paperwork. Anticipate on time NTP. **3/12:** NTP issued on 2/27.

## SSS-02 Partition St./Broadway Sewer and Drain Improvements

### General description

Partial separation of the drainage area to Partition Street (CSO 006). Includes replacement/repair of deteriorated brick catch basins that have contributed to past regulator blockages and DWOs. Also includes approximately 7,000 LF of new storm drain and about 1,000 LF of new sanitary sewer w/ railroad crossing.

### Purpose

Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.

### SPDES Permit#

NY-002 6026

### Project Cost (Millions)

\$2.80

### Funding source

City of Rensselaer (CWSRF bond financing)

### Own

City of Rensselaer

### Maintain

City of Rensselaer

### Cost-sharing

N/A

### Manage construction

City of Rensselaer

### Operation

City of Rensselaer

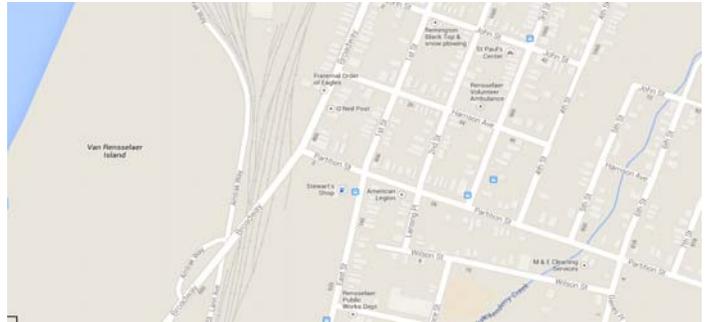
### Enforcement

N/A

### Outfall#

R-006

### Project Location



### Affected Waterbodies

Hudson River

### Contact Information

Mike Brown

### Certification

APCs

City of Rensselaer

(518) 465-1693 / mike.brown@rensselaerny.gov

### Consent Order Milestones

### Date Milestone Met

Completed Plans and Specs: 3/1/14

3/1/2014

NTP to Construction: 10/1 (30 day extension request granted by DEC)

10/1/2014

Construction Completion Date: 12/31/15

Operational Start-Up Date: 12/31/15

### Discharge reduction amount

### Status

**3/27:** Submitted plans and specs to DEC. Certificate for plans and specs submitted. Awaiting comment letter from NYSDEC. **4/24:** Based upon evaluation, it was determined less SF of storm drain pipe would need to be reconstructed. Awaiting comment letter from the department. **5/22:** No update at this time. **7/10:** No update at this time. **7/24:** Update will be forthcoming. **9/11:** This project will experience a 30-day delay for NTP. A modification request for the NTP date was submitted to the department on August 28th. **10/7:** The APC's 30-day NTP modification request was granted by DEC on 9/4. Construction bids are in final review by Creighton Manning Engineering and City Council will award the bid at its October 1st meeting. **1/08/15:** NTP was issued on 10/1. Excavation began on 1/5 on the upper end of Washington Ave. and will continue to progress downtown via Broadway to the Partition Street CSO elimination site. **2/12:** Project progressing smoothly. **3/12:** Work continues on the upper end of Washington Avenue making mainline sanitary sewer repairs and lining sanitary sewer pipe.

## BMP-14 Partition St. Trunk Sewer Evaluation

### General description

Inspect and evaluate the condition of the sewer passing under the railroad tracks. Identify any needed repairs based upon results of CCTV inspection.

### Purpose

Improve conveyance capacity of sewer, thereby reducing surcharging and subsequent CSO discharges.

<b>SPDES Permit#</b>	<b>Project Location</b>
NY-002 6026	 
<b>Project Cost (Millions)</b>	
\$0.05	
<b>Funding source</b>	
EFC CWSRF	
<b>Own</b>	
City of Rensselaer	
<b>Cost-sharing</b>	
APCs (Credit)	
<b>Manage construction</b>	
N/A	
<b>Operation</b>	
N/A	
<b>Outfall#</b>	
R-006	
<b>Affected Waterbodies</b>	<b>Contact Information</b>
Hudson River	Mike Brown
<b>Certification</b>	City of Rensselaer
City of Rensselaer	(518) 465-1693 / mike.brown@rensselaerny.gov
<b>Consent Order Milestones</b>	<b>Date Milestone Met</b>
Task Start Date: 9/1/13	
Task Completion Date: 3/1/13	
<b>Discharge reduction amount</b>	
N/A	
<b>Status</b>	
<p><b>3/27:</b> This task has been completed. Certificate of Compliance for task complete submitted. Certificate of compliance for task start (pre-Order on consent) will be submitted when language is approved. <b>4/24:</b> Awaiting Department feedback on task completion. <b>5/22:</b> No update at this time. <b>7/10:</b> The Department has acknowledged the completion of this task. <b>8/14:</b> Approval letter from DEC sent to community. Task Complete.</p>	

## TE-02 Cross St. Trunk Sewer Rehabilitation Phase I

### General description

Replacement of approximately 2,000 linear-feet of 24-inch sewer in the vicinity of Wynants Kill Way. Required limits of repair and/or replacement is currently being evaluated.

### Purpose

Repairs will reduce infiltration and improve conveyance capacity thus reducing the frequency and volume of CSOs during wet weather conditions. The project will also reduce exfiltration and associated risks of bacterial contamination during dry-weather conditions.

### SPDES Permit#

NY-009 9309

### Project Cost (Millions)

\$0.64

### Funding source

Troy

### Own

Troy

### Maintain

Troy

### Cost-sharing

APCs (Credit)

### Manage construction

Troy

### Operation

Troy

### Enforcement

### Outfall#

T-045

### Affected Waterbodies

Wynants Kill, Hudson River

### Certification

Troy

### Consent Order Milestones

Construction Completion Date: 12/15/14

Operational Start-Up Date: 12/15/14

### Project Location



### Contact Information

Chris Wheland

City of Troy Public Utilities

(518) 237-0438 / Chris.Wheland@troyny.gov

### Date Milestone Met

12/15/2014

12/15/2014

### Discharge reduction amount

### Status

**3/27:** On schedule. No update at this time. **4/24:** The city anticipates excavation to begin on April 28th. **5/22:** Out of the 2000 ft. line replacement there is about 300 ft. to go, then awaiting clearance form DEC move to project TE-01. **7/10:** TE-02 is for the Wynantskill sewer replacement is nearly complete. **7/24:** Minus some trees to be planted in the fall, complete. Sewer work is done and the new sewer is operational. The old sewer has been decommissioned. **9/11:** When work on the project is completed, the City will submit a certificate. **10/9:** This project is proceeding well ahead of schedule and completion is anticipated very shortly. **11/13:** This project is complete. Certificate will be filed shortly. **1/08/14:** Project completed and certified.

# TE-01 Cross St. Sewer Outfall Repairs &/or Replacement

## General description

In accordance with the recommendations identified under the evaluation, repair/replace the existing outfall pipe to the Hudson River to eliminate discharges to the Wynants Kill.

### Purpose

Repairs required to elimination unpermitted discharges to the Wynants Kill.

### SPDES Permit#

NY-009 9309

### Project Cost (Millions)

\$0.64

### Funding source

Troy

### Own

Troy

### Maintain

Troy

### Cost-sharing

APCs (Credit)

### Manage construction

Troy

### Operation

Troy

### Enforcement

### Affected Waterbodies

Wynants Kill, Hudson River

### Outfall#

T-045

### Certification

APCs

### Consent Order Milestones

Completed Plans & Specs: 4/1/14

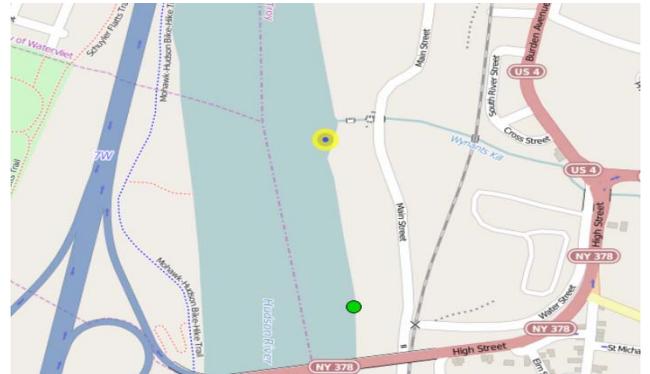
NTP Date: 8/1/14

Construction Completion Date: 12/15/14

Operational Start-Up Date: 12/15/14

### Discharge reduction amount

### Project Location



### Contact Information

Chris Wheland

City of Troy Public Utilities

(518) 237-0438 / Chris.Wheland@troyny.gov

### Date Milestone Met

3/31/2014

7/31/2014

1/21/2015

1/21/2015

### Status

**2/26:** On schedule. Examining precast cell, headwall, & connector options. Some contamination found, working on remediation. **3/27:** Anticipate sending completed plans & specs to DEC on or before 4/1. **4/24:** Plans & specs have been submitted awaiting comment letter. **5/22:** No update. Waiting for comments from DEC. **7/10:** Back to DEC for final review. Bid specs are being developed to be sent out. **7/24:** Out for bid. There was some disagreement from Native American Community but that resolved - the new pipe will be replacing older, abandoned pipe & soils previously disturbed. DEC raised concern on underwater aquatic species living along the river shoreline. Pipe order is being manufactured. Approval letter received. **9/11:** Issued NTP & certified milestone. Some sewer line prep work will be done with force account before bringing contractor on to address the outflow pipe. **10/9:** This project is proceeding on schedule. **11/13:** Project advancing on schedule. Anticipated on-time competition. **1/08/15:** Following cumulative unfrozen construction delays, on 12/5 the general contractor notified city & on December 10th the engineering team substantiated catch-up was not possible & thus a modification request was submitted to the DEC on 12/18 requesting an extension of the Construction Completion & Operational Start Dates. City negotiated a \$50,000 change order, in part to cover cold weather pours. Construction moving along. First pour was 1/2/15. Forms are being stripped. Anticipate second form will be done by 1/8. Once the pours are completed & forms are stripped, then only digging remains. 1/15: The last section of pipe was just installed. The new pipe will be able to take flow by the close of business today. 1/16: Temporary plug installed the bypass pipe. 1/17: Grout work completed in manhole, crews will block the temporary bypass with the sand bags used to plug the new pipe. Temporary plug was removed from the new pipe & placed in the bypass pipe. 1/20: The new pipe is taking water. The Creek is flowing into the new pipe via the bypass line. Due to the warm weather over the weekend the Wynantskill Creek has an ice jam from the river to the overflow pipe with of about 400 ft. This caused all the plugs to blow out. The City checked the regulator & no flow is coming from the sanitary sewer, it is strictly a stream flow issue at this point. The City is trying to review & determine a safe appropriate action to relieve the ice jam around the pipe so we can safely access the pipe & permanently plug the bypass pipe. The end of the bypass line, a 24 inch line, is about 1.5 feet under water. In order to stop flow a Dam or a plug of 3.5 or 4 ft needs to be completed without getting stuck between the ice without the ice jam the project would be done. 1/21: Crews were able to plug the pipe & are placing a permanent plug now. Bricks & mortar are being installed. The CSO signs will be relocated by this afternoon. 2/12: Project completion and operational start-up achieved on 1/21 and certified on 1/22. Aesthetic landscaping will be performed in spring, but the project is complete. **3/12:** Project has been completed and certified.

## GI-04 Monument Square Green Infrastructure Project

### General description

Located in a highly visible area of Downtown, home of the popular Farmers Market, will promote public education & awareness of GI. Approximately 11,543 sqft. of sidewalk & 22,476 square-foot of roadway would be replaced with porous pavement or pavers; which would intercept stormwater runoff & reduce flow to the CSS. It is estimated that a project of this magnitude would cost between \$1 million to \$1.5 million, dependent on subsurface percolation tests.

### Purpose

As part of this demonstration project, the City would like to use the project as a case study for developing a "green infrastructure banking system." Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency & intensity of CSO events.

### SPDES Permit#

NY-0099309

### Project Cost (Millions)

\$1.50

### Funding source

NYS DEC Water Quality Improvement Grant, 2013: \$904,400

### Cost-sharing

APCs

### Own

Troy

### Maintain

Troy (APCs GI Only)

### Operation

Troy

### Enforcement

### Manage Construction

Troy

### Outfall#

T-030

### Affected Waterbodies

Hudson River

### Certification

APCs

### Discharge reduction amount

Capture of approx. 760,000 gallons per year, During the 90th percentile rainfall event, or 1" of precipitation, approximately 21,200 gallons, will be captured & removed from the CSS. Since the regulators within the system typically "trip" or overflow for events ranging between 0.1-0.25" of precipitation, CSOs to the Hudson River will be reduced by roughly an equivalent volume during the 90th percentile event.

### Consent Order Milestones

Completed Plans & Specifications: 10/1/15

NTP to Construction: 4/1/16

Construction Completion Date: 12/15/16

Operational Start-Up Date: 12/15/16

### Project Location



### Contact Information

Chris Wheland

City of Troy Public Utilities

(518) 237-0438 / Chris.Wheland@troyny.gov

### Status

**1/08/15:** Applied for funding in WQIP program in December '13. Awarded \$904,000 in October of 2014. City is assembling contract materials for the WQIP award. CDM Smith awarded the design contract. City will be meeting with neighborhood merchants to share plans and gather input. **3/12:**

# GI-05 Route 32 Green St. Project, City of Watervliet

## General description

Reconstruction of approximately 0.71 mile of Rt. 32. The project would remove and replace approximately 152,080 sqft. of roadway with new pavement, and 30,416 sqft. of new sidewalk. Porous surfaces would be evaluated for sidewalks, parking lanes and/or travel lanes. In addition, approximately 50 trees would be removed and replaced with environmentally friendly tree pits. The final project limits, and subsequent quantities, will be determined based on engineering considerations in conjunction with available funding constraints.

## Purpose

Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.

## SPDES Permit#

003-0899

## Project Cost (Millions)

\$1.00 (GI only)

## Funding source

Applied for EFC CWSRF Financing

## Cost-sharing

APCs

## Manage construction

City of Watervliet

## Own

City of Watervliet

## Operation

City of Watervliet

## Enforcement

## Access

City of Watervliet

## Maintain

APCs - GI Only

## Indemnity

## Outfall#

W-001 to 004

## Project Location



## Affected Waterbodies

Hudson River

## Contact Information

Dave Dressel

## Certification

City of Watervliet  
(518) 785-7082 / ddressel@watervliet.com

## Discharge reduction amount

## Consent Order Milestones

Completed Plans and Specs: 10/1/15

NTP to Construction: 4/1/2016

Construction Completion Date: 12/15/17

Operational Start-Up Date: 12/15/17

## Date Milestone Met

## Status

**5/22:** No update at this time **7/10:** City planning and engineering staff met with APJVT, Capital District Transportation Committee, and CDRPC staff to talk about transportation funding options and timetable for GI only VS complete phased reconstruction of the corridor. **7/24:** No update at this time. **9/11:** CDRPC staff met with CDTA to discuss the pending Bus Rapid Transit implementation through the city, and to determine stop locations. CDTA shared the preliminary designs for their stops within the proposed GI implantation. **11/13:** Second meeting held with CDTA staff on 10/20 about Bus Rapid Transit line planned for Rte. 32 to illustrate GI practices and potential costs at the proposed Watervliet station. **1/08/14:** 12/19 City had a kickoff meeting with Weston and Sampson Engineering. A Task order for the was written up, using the feasibility study done by B&L as a starting point. **2/12:** No update at this time. **3/12:**