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September 10, 2018

**Peter Maier, EIT**  
**Wastewater Permits Section**  
**Division of Water**  
**NYSDEC**  
**625 Broadway, 4<sup>th</sup> Floor**  
**Albany, NY**  
**12233-3506**

Re: Albany Pool Communities 2018 First Term Semi-Annual Report

Mr. Maier,

As the designated Program Coordinator on behalf of the Albany Pool Communities CDRPC herewith submits to the Department the Albany Pool Communities 2018 First Term 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 January 1, 2018 and June 30, 2017.

If you have questions about this report, please do not hesitate to contact me.

Best,

**Martin Daley**  
Director of Water Quality Programs/ Albany Pool Communities CSO LTCP Project Manger

Albany Pool Communities  
Combined Sewer Overflow Long Term Control Plan

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

SEMI-ANNUAL STATUS REPORT

**First Term, 2018**  
**(January 1 to June 30)**

**September 10, 2018**

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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 Water Purification 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.

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 **January 1, 2018 and June 30, 2018**.

In the November 13, 2014 semi-annual report comment letter from DEC to the respondents, the Department requested a “table that reports the details of each community shall be updated in each report to indicate any changes in volumes captured, population/area trends...” Because US Census population estimates are not available until the following calendar year, the 2017 population projections for the CSO communities for the 2017 Second Term Semi Annual report have been included with this report.

## **2.0 CRITICAL EVENTS THIS TERM**

None.

## **3.0 MAJOR ACTIONS THIS TERM**

Grants and Financing

The Albany Water Board has entered into the second phase of financing for their shares of the LTCP projects slated for 2018-2022. The Albany Water Board has entered into a separate financing for the “Big-C” Satellite Treatment and Floatables Control Facility.

## **4.0 PERFORMANCE AGAINST ORDER DEADLINES**

Additional details on project development can be found in the project sheets, Appendix A.

**Table 1 – Milestones Certified this Term (January 1, 2018 – June 30, 2018)**

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	LTCP Milestone Date	Milestone Met	Status
TE-04	Investigate Non-CSO Bacteria Sources Along Mill Creek, Poesten Kill, & Wynants Kill	APCs	Troy, Rensselaer	Task Completion	12/15/17	12/15/17	The report dated December 15, 2017 summarizing the investigation, including the March 20, 2018 response to the Department's comments dated January 19, 2018, has been approved. The information will be incorporated into the respective Troy & Rensselaer Asset Mgmt. Plans & the improvements completed accordingly.
APW-07	Hudson River Water Quality Public Advisory	APCs	Pool-Wide	Task Start Date	4/1/2018	3/7/2018	Grammercy Communications has been retained to develop an improved website and communications materials for this project.
BMP-10	Outside Community Metering	APCs	Troy	NTP to Construction	4/1/2018	3/29/2018	This project is on schedule. Structure delivery is anticipated the week of the September 10th. Installation will occur in September and October.
SSS-07	Hoosick St. Storm Sewer Extension	APCs	Troy	NTP to Construction	4/1/2018	3/29/2018	<b>Project completed 9/7/18.</b>

STCF-01	Floatables Control Facility for CSO 026 Outfall (Regulators Maiden, Steuben and Orange)	APCs	Albany	NTP to Construction	4/1/2018	3/29/2018	These projects are being advanced in unison and completion is anticipated this year. For Maiden Lane the screens are anticipated for deliver the week of 9/10. At Steuben crews will begin connecting to the County interceptor. Construction at Orange St. is starting the week of 9/10. At Jackson and Livingston, a comprehensive archeological survey is underway.
STCF-02	Floatables Control Facility for CSO 030 Outfall (Regulators Quackenbush, Jackson and Livingston)	APCs	Albany	NTP to Construction	4/1/2018	3/29/2018	

## 5.0 DEADLINES FOR UPCOMING REPORTING PERIOD AND ASSOCIATED ISSUES

Table 2, below, reflects the activities and deadlines established in Appendix B of the Order during the upcoming six-month reporting period. No issues or delays are anticipated. More details on project status can be found in the project sheets, Appendix A of this report.

**Table 2 – Milestones next Term (July 1, 2018 – December 31, 2018)**

Unique Identifier	Item Description	Responsible Party (LTCP)	Project Location	Action Required	LTCP Milestone Date	Status
SSS-08	123rd St. Stream Separation	APCs	Troy	Completed Plans and Specs	10/15/2018	Project is on schedule for plans and specs submittal. Borings are complete, and design is at 75%.
SSS-09	Mereline Combined Sewage Storage	APCs	Albany	Completed Plans and Specs	10/1/2018	The project is on schedule.

BMP-10	Outside Community Metering	APCs	Troy	Construction Completion Date & Operational Start Up Date	12/15/2018	This project is on schedule. Structure delivery is anticipated the week of September 10 <sup>th</sup> . Installation will occur in September and October.
PIW-01	Primary Sludge Degritting	APCs	RCSD	Construction Completion Date & Operational Start Up Date	12/15/2018	<b>Project completed 6/13/2018.</b>
SSS-06	Mariette Place Stormwater Storage Facility	APCs	Albany	Construction Completion Date & Operational Start Up Date	12/15/2018	<b>Project completed 7/27/17.</b>
SSS-07	Hoosick St. Storm Sewer Extension	APCs	Troy	Construction Completion Date & Operational Start Up Date	12/15/2018	<b>Project completed 9/7/18.</b>
STCF-03	"Big C" Disinfection and Floatables Control Facility	APCs	Troy	Begin Final Design	12/15/2018	Community input on the preliminary design and Lincoln Park's proposed green infrastructure and recreational improvements is being solicited. The Water Board is also consulting with the Water Purification District on design and operations.

## 6.0 DESCRIPTION OF ADDITIONAL WORK PERFORMED

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**.

## 7.0 COMMUNITY RELATIONS

In May, The CSO Pool Communities Corporation retained Grammercy Communications, a full-service PR and marketing firm. Grammercy will provide their guidance and expertise to aid the Corporation in launching a new website platform that will improve the accessibility and legibility of the program and its progress. The project is part of the Long-Term Control Plan as

task “APW-07,” a “notification system to inform the public on the progress of the Albany Pool CSO LTCP Implementation and associated water quality improvements identified through the Post Construction Compliance Monitoring Program.” The site, coupled with an annual report the Pool will develop with Grammercy’s assistance will provide the public with a better understanding of CSO impacts on the water quality of the Hudson River and its tributaries.


CDRPC continues to maintain the CSO Corporation website (<http://cdrpc.org/programs/water-quality/combined-sewer-overflow-cso/albany-cso-pool-communities-corporation/>) This page functions as the primary communication tool for the Pool communities, featuring information and links for the LTCP, the Discharge Notification System, and meeting schedules for the Pool IMA Board. A section titled “Albany Pool Communities CSO Long Term Control Plan in the News” functions as a clearing house for Pool projects and programs that have been featured in the media.

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.



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

MARK HENDRICKS  
Name

ENGINEERING AIDE  
Title

9/11/18  
Date

City of Cohoes  
Municipality / Entity

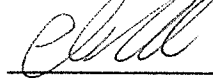
  
Signature

Garry F. Wetton  
Name

CITY ENGINEER  
Title

9/12/18  
Date

City of Troy  
Municipality / Entity

  
Signature

Chris Wheeland  
Name

Superintendent  
Title

9/13/18  
Date

City of Albany  
Municipality / Entity

  
Signature

William D. Spruce  
Name

Deputy Commissioner  
Title

9-13-18  
Date

Albany Pool Communities

Semi-annual Status Report

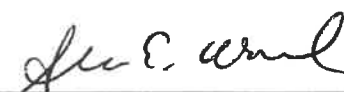
DEC Case #CO 4-20120911-01

First Term, 2018

City of Watervliet  
Municipality / Entity

Village of Green Island  
Municipality / Entity

  
Signature

  
Signature

Jeremy A. Smith  
Name

Sean E. Ward  
Name

General Manager  
Title

Executive Assistant to the Mayor  
Title

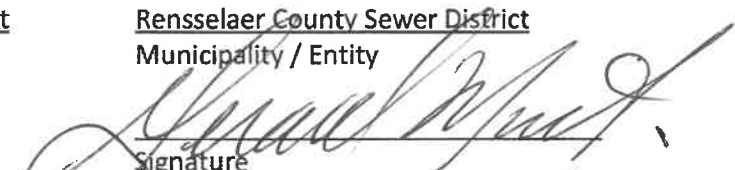
9/13/18  
Date

9/13/18  
Date

Albany County Water Purification District  
Municipality / Entity

Rensselaer County Sewer District  
Municipality / Entity

  
Signature

  
Signature

Timothy S. Murphy  
Name

DENNIS J. MOSCIAK  
Name

Executive Director  
Title

Admin. Director  
Title

9-13-18  
Date

9/13/18  
Date

## **Appendix A: Project Sheets**

## APW-07

### Hudson River Water Quality Public Advisory

**Project Description:**

Notification system to inform the public on the progress of the Albany Pool CSO LTCP Implementation and associated water quality improvements identified through the Post Construction Compliance Monitoring Program. Scope to be further developed within the established budget based upon the goals and needs of each community.

**Purpose:**

Provides the public with a better understanding of CSO impacts on the water quality of the Hudson River and its tributaries. It also provides a better understanding of the water quality improvements associated with implementation of the CSO LTCP.

**Contact Information:**

Martin Daley  
 CDRPC  
 518-453-0850  
 mdaley@cdrpc.org

Consent Order Milestones	Date Milestone Met
Task Start Date: 4/1/18	3/28/18
Task Completion Date: 4/1/19	

SPEDES Permit #s	NY 002 5747, 003 1046, 003 0899, 003 3031
LTCP Projected Project Cost (Millions)	\$0.25
Total Cost (minus in-kind)	TBD
Owned By	N/A
CSO Outfall No.	N/A
Grant Funding or other sources	N/A

**Project Status:**

**3/1/18:** Since the beginning of the program, CDRPC has maintained a project website at <http://cdrpc.org/programs/water-quality/combined-sewer-overflow-cso/>. Shortly after launching the Corporation to provide administrative support to the communities, CDRPC established a companion Corporation website at <http://cdrpc.org/programs/water-quality/combined-sewer-overflow-cso/albany-cso-pool-communities-corporation/>. These sites retain a wealth of data on the program – from reports and studies to meeting minutes and budgets. The sites are comprehensive and function as both a clearing house for data the media or public may be seeking and as a repository for policies and materials required by the Authority Budget Office. Recognizing that the goal of task APW-07 to provide the public with a better understanding of CSO impacts, the communities are evaluating the benefits and costs of putting

together a new standalone website – developed with assistance from a firm that specializes in website development and public outreach. The communities are also evaluating a method for producing materials for public distribution that could be used to promote the program and inform the public on its successes.

**7/11/18:** The Albany Pool Communities have retained the services of Grammercy Communications and Mannix Marketing to develop a new website for the program. The vendors will also develop an annual report. The report, coupled with the website, will provide the public with a better understanding of CSO impacts on the water quality of the Hudson River and its tributaries. It will also provide a better understanding of the water quality improvements associated with implementation of the CSO LTCP. The first report could be developed to summarize the LTCP program and its successes to date, as well as chart the progress of the water quality improvements made possible during the first five years of the program.

**9/10/18:** Grammercy Communications has been retained to develop an improved website and communications materials for this project. Grammercy has been meeting with the Corporation, as well as member communities for interviews. They have also been collecting presentation and prior report materials.

# BMP-10

## Outside Community Metering

### Troy, NY

**Project Description:**

Monitoring of flows from outside communities to track I/I impacts on interceptor capacities; include up to 8 connections to Troy system. SCADA connections included to Troy and RCSD for automated reporting of metered flows.

**Purpose:**

Provides supporting data to encourage outside communities to address I/I issues; while tracking available capacity for future development as well as potential billing purposes.

**Contact Information:**

Chris Wheland  
 City of Troy Public Utilities  
 (518) 237-0438 / Chris.Wheland@troyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/17	9/29/17
Construction Start Date: 4/1/18	3/29/18
Construction Completion Date: 12/15/18	
Operational Start-Up Date: 12/15/18	

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$2.07
Total Construction Cost (minus in-kind)	TBD
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	None.
Annual Volume Captured (Mgal)	N/A
Annual Percent CSO Reduction (%) (Pool-Wide)	N/A

**Project Status:**

**9/15/17:** Plan and spec submission is on schedule.

**1/11/17:** Plan and specs were submitted to NYSDEC on September 29, 2017. DEC approved the plan and spec on 11/10/17. The City is preparing to bid the project.

**9/10/18:** The project was awarded to the contractor, Luizzi Bros. The project is on schedule. Structure delivery is anticipated the week of the September 10th. Installation will occur in September and October.

**PIW-01**  
**PIW-01 Primary Sludge Degritting**  
**Rensselaer County Sewer District (RCSD)**

**Project Description:**

Upgrade primary sludge degrading capacity to accommodate increased flow to the plant during peak wet-weather conditions.

**Purpose:**

Maximize flow to the plant for treatment, reduce CSO frequency and volume.

**Contact Information:**

Gerry Mosckinski  
 RCSD  
 (518) 283-2235 / GMoscinski@renesco.com

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/30/16
NTP to Construction: 4/1/17	3/31/17
Construction Completion Date: 12/15/18	6/13/18
Operational Start-Up Date: 12/15/18	6/13/18

SPEDES Permit #	NY 008 7971
LTCP Projected Project Cost (Millions)	\$3.12
Owned By	RCSD
Total Construction Cost (minus in-kind)	\$2,280,000
Affected Water Bodies	Hudson River
Grant Funding or other sources	\$840,000, NYSEFC WIIA
Annual Volume Captured (Mgal)	N/A
Annual Percent CSO Reduction (%) (Pool-Wide)	N/A

**Project Status:**

**4/14/16:** The district has published an RFP for engineering services. A walk-thru is scheduled for 4/27 and proposals are due May 12.

**7/14/16:** The District held the grit improvements project kick-off meeting last Friday, July 8 with Chazen Engineering. At the meeting the District and consultant reviewed the scope and schedule and walked through the site to review the various components of the project.

**10/16/16:** Plans and specs submitted to DEC on 9/30/2016.

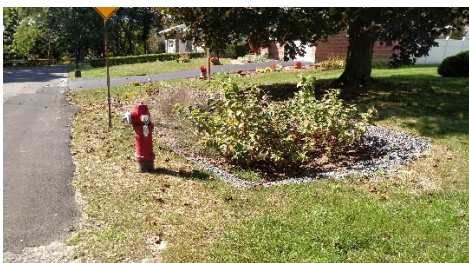
**3/1/17:** Plans and specs approved by DEC on 1/27/2017. Bids have come back and the County is working to assemble bond and insurance needed in order to issue NTP to the selected contractor. The Bond Resolution is on the County Legislature docket for March.

**9/10/18:** The project has been completed.



**SSS-06**  
**Mariette Place Stormwater Storage Facility**  
**City of Albany**

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/16	9/28/16
NTP to Construction: 4/1/17	3/31/16
Construction Completion Date: 12/15/18	6/1/17
Operational Start-Up Date: 12/15/18	6/1/17



SPEDES Permit #s	NY-0025747
LTCP Projected Project Cost (Millions)	\$0.350
Total Construction Cost (minus in-kind)	\$253,109
Owned By	City of Albany
CSO Outfall No.	A-13
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	2MG
Annual Percent CSO Reduction (%) (Pool-Wide)	.05%

**Project Description:**

Connection of catch basins in the Mariette Place vicinity to a storage facility to reduce peak flows conveyed to the CSS.

**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.

**Contact Information:**

Albany Water Board  
 William Simcoe  
 (518) 434-5300 / [wsimcoe@albanyny.gov](mailto:wsimcoe@albanyny.gov)

### **Project Status:**

**7/14/16:** The Water Board has retained Barton & Loguidice for design of this project.

**10/16:** Plans and specs for this project were submitted to DEC for review in September.

**3/1/17:** DEC issued approval of plans and specs on December 27, 2016. The project went out to bid on February 7. March 7 is the anticipated selection date for contactors. Although categorized in the LTCP as a Sewer Separation project, the Mariette Place project will incorporate Green Infrastructure elements and discharge stormwater in to a vegetated swale.

**9/15/17:** The project was completed on 7/27/17. Certification of project completion was submitted on 8/13/17.

**This project is complete.**

**SSS-07**  
**Hoosick Street Storm Sewer Extension**  
**City of Troy**

**Project Description:**

Separation of existing storm sewer from the combined sewer.

**Purpose:**

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

**Contact Information:**

Chris Wheland  
 City of Troy Public Utilities  
 (518) 237-0438 / Chris.Wheland@troyny.gov

**Project Status:**

**7/14/16:** Because NYSDOT was repaving this road, the City accelerated work to replace pipe (NYSDOT would otherwise have a moratorium preventing the new pavement to be ripped up). New pipe has installed under Hoosick and the city is reviewing plans to access the need for additional work.

**3/1/17:** The city of Troy is working with CDM Smith on completing the design of the separation project so new phase of construction can start. Depending on funding the next phase is anticipated to begin in the late summer or early fall 2017.

**7/13/17:** No update at this time.

**9/15/17:** The plan and spec is proceeding on schedule and will be submitted on or before 10/1.

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/17	9/29/17
NTP to Construction: 4/1/18	3/29/18
Construction Completion Date: 12/15/18	9/7/18
Operational Start-Up Date: 12/15/18	9/7/18

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$1.05
Total Construction Cost (minus in-kind)	TBD
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	TBD
Annual Percent CSO Reduction (%) (Pool-Wide)	TBD

**1/11/18:** The City submitted plans and specs to NYSDEC on 9/29/17. The Department issued formal approval of the plan and spec on 11/1/17. City is moving forward on Bidding to comply with the NTP on 4/1/2018.

**3/1/18:** The construction work for this project is out to bid. A pre-bid meeting will be held on March 5<sup>th</sup>.

**9/10/18:** This project has been completed.

**SSS-08**  
**123<sup>rd</sup> Street Sewer Separation**  
**Troy, NY**

**Project Description:**

Divert unnamed stream from combined sewer.

**Purpose:**

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

**Contact Information:**

Chris Wheland  
 City of Troy Public Utilities  
 (518) 237-0438 / Chris.Wheland@troyny.gov

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/18	
NTP to Construction: 4/1/19	
Construction Completion Date: 12/15/20	
Operational Start-Up Date: 12/15/20	

SPEDES Permit #	NY-009 9309
LTCP Projected Project Cost (Millions)	\$4.54
Total Construction Cost (minus in-kind)	TBD
Owned By	City of Troy
Affected Waterbodies	Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	TBD
Annual Percent CSO Reduction (%) (Pool-Wide)	TBD

**Project Status:**

**9/15/17:** No update at this time.

**1/9/18:** CDM Smith is developing plans and specifications to comply with the 10/1/18 deadline.

**3/1/18:** The City will be holding a design meeting on March 5.

**9/10/18:** Project is on schedule for plans and specs submittal. Borings are complete, and design is at 75%.

## SSS-09

### Mereline Combined Sewage Storage City of Albany

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/18	
NTP to Construction: 4/1/19	
Construction Completion Date: 12/15/20	
Operational Start-Up Date: 12/15/20	

**Project Description:**

Connection of catch basins in the Mariette Place vicinity to a storage facility to reduce peak flows conveyed to the CSS.

**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.

**Contact Information:**

Albany Water Board  
William Simcoe  
(518) 434-5300 / [wsimcoe@albanyny.gov](mailto:wsimcoe@albanyny.gov)

SPEDES Permit #	NY-0025747
LTCP Projected Project Cost (Millions)	\$0.640
Total Construction Cost (minus in-kind)	TBD
Owned By	City of Albany
CSO Outfall No.	A-13
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	TBD
Annual Percent CSO Reduction (%) (Pool-Wide)	TBD

**Project Status:**

**7/14/16:** The Albany Water Board is reviewing the scope of the project with Barton & Loguidice engineering.

**3/1/17:** This project is advancing ahead of schedule. The City is looking to incorporate Green Infrastructure elements in to this project.

**9/15/15:** At this time engineering proposals have been provided by Barton and Loguidice.

**1/11/18:** The Engineering contract was awarded to Barton and Loguidice on 10/11/17.

**3/1/18:** No update at this time.

**9/10/18:** The project is on schedule for on time plan and spec submittal.

**STCF-01 & STCF-02**  
**Floatables Control Facilities for CSO 026 (Regulators Maiden, Steuben and Orange) CSO 030 (Regulators: Quackenbush, Jackson and Livingston)**  
**City of Albany**

**Project Description:**

The proposed floatables facilities will collect floatable debris and materials associated with CSOs from the Maiden, Steuben, Orange, Quackenbush, Jackson and Livingston regulator structures.

**Purpose:**

The projects will provide for the collection of floatables from the combined sewer overflows (CSOs) in the vicinity of the Corning Preserve.

Consent Order Milestones	Date Milestone Met
Completed Plans and Specs: 10/1/17	9/28/17
NTP to Construction: 4/1/18	3/29/18
Construction Completion Date: 12/15/19	
Operational Start-Up Date: 12/15/19	

**Contact Information:**

Albany Water Board  
 William Simcoe  
 (518) 434-5300 / [wsimcoe@albanyny.gov](mailto:wsimcoe@albanyny.gov)

SPEDES Permit #	NY0025747
LTCP Projected Projects Cost (Millions)	\$8.00
Total Construction Cost (minus in-kind)	TBD
Owned By	Albany Water Board
CSO Outfall No.	A-026
Grant Funding or other sources	NYSDEC WQIP up to \$5m
Annual Volume Captured (Mgal)	TBD
Annual Percent CSO Reduction (%) (Pool-Wide)	TBD

**Project Status:**

**6/1/17:** The preliminary design for this project has been completed along with soil surveys and borings. The Albany Water Board will submit this project to the State Intended Use Plan and apply for WQIP funding.

**9/15/17:** An application for WQIP funding has been submitted to NYSDEC through the CFA.

**1/11/18:** Plans and spec for these projects, advanced in unison, were submitted to the NYSDEC on 9/28/17. The Department approved the plan and spec on 11/2/17. Advertisement for bidders is January 2018. Bids will be received in February of 2018.

**3/1/18:** No update at this time.



**9/10/18:** NYSDEC has been included on the detailed weekly progress reports for these projects distributed by the water board. For Maiden Lane the screens are anticipated for deliver the week of 9/10. At Steuben crews will begin connecting to the County interceptor. Construction at Orange St. is starting the week of 9/10. At Jackson and Livingston, a comprehensive archeological survey is underway.

**TE-04**  
**Investigate Non-CSO Bacteria Sources along Mill Creek,  
 Poesten Kill, & Wynants Kill**  
**Rensselaer and Troy, NY**

**Project Description:**

Inspect condition of sewers running parallel and crossing the Poesten Kill, Wynantskill, Mill and Mill Creek to identify repairs that could reduce infiltration and exfiltration.

**Purpose:**

Potential repairs will reduce infiltration to the CSS, thereby 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.

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Consent Order Milestones	Date Milestone Met
Task Start Date: 4/1/16	11/16/2015
Task Completion Date: 12/15/17	12/15/17

SPEDES Permit #	NY-009 9309, NY-002 6026
LTCP Projected Project Cost (Millions)	\$.15
Total Construction Cost (minus in-kind)	\$8,242
Owned By	N/A
Affected Waterbodies	Mill Creek, Poesten Kill, Wynants Kill, & Hudson River
Grant Funding or other sources	None
Annual Volume Captured (Mgal)	N/A
Annual Percent CSO Reduction (%) (Pool-Wide)	N/A

## **Project Status:**

**4/1/16:** In November, 2015, the Rensselaer Land Trust applied for grant funding for a water quality sampling program. The proposed sampling program will help the communities identify sources of bacteria in these Hudson River tributaries. The application was supported by the Pool. The communities are optimistic that, if funded, this sampling program will provide data to help the communities identify sources and causes of bacteria in the tributaries, provide new sources for lab support, and raise awareness of potential programs to improve water quality in these tributaries.

**7/14/16:** The Rensselaer Land Trust application to the EPA Small Waters program was not funded, but the RLT is applying to this year's Estuary program. In the meantime, the City is to start some in house sampling in August for bacteria and Coliform to get a baseline where the streams enter the city and just before they terminate at the Hudson.

**3/1/17:** The Rensselaer Land Trust held a kick-off meeting on Monday, January 23rd. In attendance were representatives of the City of Troy, City of Rensselaer, USGS, DEC, Riverkeeper, the Watered Alliance, and CDRPC. The sampling program project will recruit and train citizen scientists to collect water samples from 18 sites along 5 tributaries of the Hudson River for enterococcus levels. The 18 sample sites were selected for one of more of the following reasons: within EJ area, within MS4 area, previously sampled as part of Albany Pool, or previously sampled as part of Priority Waterbody List. Data will be analyzed by qualified labs and an assessment will be communicated to the general public, municipal decision makers and other stakeholders. Report cards will be prepared for each site. Other outputs include creation of a baseline of water quality and fact sheets. Expected outcomes will be an increased level of awareness and knowledge of community residents and others about water quality conditions that can lead to a reduction of pollutants and improvement in water quality by introducing measures to reduce contamination sources. The sampling data will help inform the city of Troy as to sources and locations of bacterial contamination.

**7/13/17:** The Rensselaer Land Trust has completed several rounds of bacteria and emerging compound sampling program. A preliminary report was distributed to project stakeholders and the city of Troy. This data will help support findings from sewer inspections, help determine potential sources of bacterial contamination. The City of Troy purchased a camera truck which will be utilized to inspect the conditions of sewers running parallel and crossing the Poesten Kill, Wynantskill, Mill and Mill Creek to identify repairs that could reduce infiltration and exfiltration. Staff is currently being trained on using this new equipment and inspections will be scheduled.

**9/15/17:** The Rensselaer Land Trust continues to sample for bacteria in these tributaries. This data is helping the City identify potential sources of bacteria. The City will be scheduling inspections with the new camera truck and its operators. **(continued next page)**

**1/11/18:** In accordance with their Asset Management and Inspection Plans, the City of Troy and City of Rensselaer strategically deployed resources to visually inspect sections of sanitary and combined sewer pipes running directly adjacent to, and across to three tributaries. The pipes were inspected for cracks, debris, structural defects, root intrusion and other issues likely to contribute to problems such as exfiltration, infiltration or structural failure. The report enclosed summarizes the findings of the inspections. The two cities strategically identified and inspected sections of their sewer system that they deemed were could be likely sources of bacterial contamination in these three tributaries. Some sections were deemed too far from the tributaries to be likely causes of contamination. Other sections were characterized as being in good condition because of recent installation or repairs. Complimentary to the investigations, the Rensselaer Land Trust, together with the USGS, kicked off a tributary sampling program in January of. The team collected water samples from 18 sites along 5 tributaries of the Hudson River. The samples were analyzed for enterococcus and Emerging contaminants. The bacteria data was also included with the inspection report submitted to the Department on 12/15/17. The Emerging Compound Data is pending. During the inspections, the cities did discover areas that need repair or replacement. These areas have been identified in the report.

**3/1/18:** The communities have received the NYSDEC Comment Letter, dated January 19, 2018. They are working to provide supplemental data for the report along with a prioritization and repair schedule for sections of sewer lines identified in the report.

**9/10/18:** On March 20<sup>th</sup> the City of Rensselaer and City of Troy submitted to the Department a response letter to their January 19<sup>th</sup> comments. The report addressed the Department questions and pledged the commitment of the communities to incorporate certain system repairs into each City's Asset Management Plan. The report dated December 15, 2017 summarizing the investigation, including the March 20, 2018 response to the Department's comments dated January 19, 2018, has been approved.

## **Appendix B: Population Estimates**

**Population Trends - 2017**

<b>Community</b>	<b>July, 2016</b>	<b>July, 2017</b>	<b>Change in Population</b>	<b>Percent Change in Population</b>
<b>Albany</b>	98,387	98,251	-136	-0.14%
<b>Troy</b>	49,703	49,565	-138	-0.28%
<b>Cohoes</b>	16,919	16,875	-44	-0.26%
<b>Watervliet</b>	10,169	10,131	-38	-0.37%
<b>Rensselaer</b>	9,308	9,264	-44	-0.47%
<b>Green Island</b>	2,609	2,604	-5	-0.19%
<b>Pool-Wide</b>	187,095	186,690	-405	-0.22%

Population Data Source: Annual Estimates of the Resident Population (2010 - 2015), US Census Bureau, Population Division