Albany Pool Communities Long Term Control Plan Status (District Projects)

District Project Name	Description	Purpose/Benefits	CSO Outfall No.	Project Milestones/Deadlines	LTCP Project Budget	Grant Funds	Grant Source	Total Completed Cost to District*	Status	Annual Volume Captured / CSO Volume Reduction (MG)	Community Level Annual CSO Reduction (%)	Regional Annual Untreated CSO Reduction(%)
North Plant Disinfection Project	New Chemical Disinfection System at the ACSD North Plant for wet-weather flows up to 88 mgd, or flows exceeding normal dry-weather flows of ~19 mgd.	Reduce bacteria load to Hudson River, improve water quality during the seasonal disinfection period.	N/A	Completed Plans & Specifications: 9/12/13 NTP to Construction: 1/1/14 Construction Completion Date: 10/1/14 Operational Start-Up Date: 10/1/14	$3,750,000	$2,400,000	WQIP	$2,300,000	Project Completed	N/A	N/A	N/A
South Plant Disinfection Project	New UV disinfection facility at the ACSD South Plant for wet-weather flows up to 45 mgd (with expansion capabilities to 60 mgd), or flows exceeding normal dry-weather flows of ~17 mgd.	Reduce bacteria load to Hudson River, improve water quality during the seasonal disinfection period.	N/A	Completed Plans & Specifications: 9/12/13 NTP to Construction: 1/1/14 Construction Completion Date: 10/1/14 Operational Start-Up Date: 10/1/14	$3,380,000	$2,400,000	WQIP	$2,300,000	Project Completed	N/A	N/A	N/A
Primary Sludge Degritting	Upgrade primary sludge degritting capacity to accommodate increased flow to the plant during peak wet-weather conditions.	Maximize flow to the plant for treatment, reduce CSO frequency and volume.	N/A	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/18 Operational Start-Up Date: 12/15/18	$3,120,000	$840,000	EFCWIIA	$2,280,000	Project Completed	N/A	N/A	N/A
Evaluation of Secondary Clarification Improvements	Re-evaluate the wet-weather capacity of the WWTP to determine if secondary clarification improvements are needed for future growth and peak wet-weather flow of 63.5 MGD. Evaluate	Performed after completion of process and pump station upgrades completed under other LTCP Projects, this re-evaluation	N/A	Task Start Date: 6/1/19 Task Completion Date: 6/1/20	$50,000				Program Underway			
Upgrade Pump Stations Located in Rensselaer	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.	Improve conveyance of wet-weather flows to WWTP, thereby reducing surcharging and subsequent CSO discharges.	R-002 to 010 (once regulators are opened)	Completed Plans & Specifications: 3/1/14 NTP to Construction: 7/1/14 Construction Completion Date: 4/15/15 Operational Start-Up Date: 4/15/15	$14,000,000			$5,670,000	Project Completed	2.00	1.00%	0.02%
Upgrade Pump Stations Located in Troy	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).		T-002 to 044	Completed Plans & Specifications: 9/1/14 NTP to Construction: 3/1/15 Construction Completion Date: 4/1/16 Operational Start-Up Date: 4/1/16	$15,000,000			$6,10,000	Project Completed	179.00	4.00%	14.48%
Regulator Capacity Improvements	Optimization of conveyance of wet-weather flows to the WWTP by modifying up to 40 regulators.	Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor and thus decrease CSOs.	T-001 to 043, 046A, 046B , 047 R-002, 003, 006,	Completed Plans & Specifications: 10/1/14 NTP to Construction: 4/1/15 Construction Completion Date: 12/15/15 Operational Start-Up Date: 12/15/15	$280,000			$100,000	Project Completed	30.00	0.64%	0.24%

Communities' Project Budget	Grant Funds	Total Completed Cost to Districts	Total Investment	Annual Volume Captured / CSO Volume Reduction (MG)	Community Level Annual CSO Reduction (%)	Regional Annual Untreated CSO Reduction(%)
$39,580,000	$5,640,000	$12,650,000.00	$18,290,000.00	211.00	5.64%	14.74%

*District costs not part of the Communities' Cost Share

Albany Pool Communities Long Term Control Plan Status (Community Projects)

Community Project Name	Description	Purpose/Benefits	CSO Outfall No.	Project Milestones/Deadlines	LTCP Project Budget	Grant Funds	Grant Source	Total Completed Cost to Pool Communities*	Status	Annual Volume Captured / CSO Volume Reduction (MG)	Community Level Annual CSO Reduction (%)	Regional Annual Untreated CSO Reduction(%)
Bouck Tide Gate Installation, City of Albany	Install tide gate on CSO 013 (Bouck Regulator).	Removal of direct inflow from the Hudson River during high tide periods. Installation of the tide gate will result in additional conveyance capacity within the interceptor, thereby providing greater capture of wet-weather flows from the CSS. In addition, the removal of inflow will result in lower flows to the WWTP during dry-weather periods.	A-013	Construction Completion Date: 2012	$160,000			$155,670	Project Completed			
Woodville Pump Station Upgrades, City of Albany	Installation of a new communitor at the Woodville PS. The new communitor replaced a bar screen which was ineffective in preventing large diameter debris from entering the wet wells of the PS, especially during wet-weather events.	Increased pump reliability and efficiency, resulting in potentially less frequent CSO events at CSO 012 to the Krum Kill.	A-012	Construction Completion Date: 2012	$140,000			$67,948	Project Completed			
McCormack Pump Station Upgrades, City of Albany	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.	Increase pump reliability and efficiency.	A-016	Construction Completion Date: 9/30/14 Operational Start-Up Date: 9/30/14	$80,000			$49,968	Project Completed			
Sewer Rehabilitation Projects Throughout the City of Albany	1.) Kent Street Sewer: Relining of a section of sewer on Kent Street which is tributary to the Quail Street sub-trunk sewer, a branch of the Beaver Creek combined sewer; 2.) Hillcrest Avenue Sewer: Relining of a section on Hillcrest Avenue which is tributary to the Woodville PS; 3.) Replacement of a section of combined sewer on Beacon Avenue which is tributary to the Woodville PS.	Reduction of infiltration or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	A-016, A-012	Construction Completion Date: 12/15/13 Operational Start-Up Date: 12/15/13	$100,000			$135,942	Project Completed			
Remove Schuyler Overflow, City of Albany	The project will provide for temporary elimination of CSO 015 with monitoring of the upstream CSS. Specifically, the project will remove the regulator assembly in the regulator manhole, and replace the existing 12" connection with a new 36" connection to the Interceptor. Provided that no incidences are observed within a 24-month period, the overflow will be permanently eliminated.	Optimization project that increases conveyance of wet-weather flows to the ACSD South Treatment Plant, resulting in a reduction in annual CSO volumes and reduced impacts to the Hudson River.	A-015	Completed Plans & Specifications: 10/1/26 NTP to Construction: 4/1/27 Construction Completion Date: 12/15/27 Operational Start-Up Date: 12/15/27	$270,000							
Remove Liberty Overflow, City of Albany	The project will provide for temporary elimination of CSO 022 with monitoring of the upstream CSS. Specifically, the project will remove the regulator assembly in the regulator manhole, and replace the existing 12" connection with a new 30" connection to the Interceptor. Provided that no incidences are observed within a 24-month period, the overflow will be permanently eliminated.	Optimization project that increases conveyance of wet-weather flows to the ACSD South Treatment Plant, resulting in a reduction in annual CSO volumes and reduced impacts to the Hudson River.	A-022	Completed Plans & Specifications: 10/1/25 NTP to Construction: 4/1/26 Construction Completion Date: 12/15/26 Operational Start-Up Date: 12/15/26	$1,100,000							
Modify Bouck Regulator, City of Albany	Modification of the existing regulator structure and connection to the ACSD interceptor. Specifically, the project will replace 245 linear-feet of 12" sewer pipes with a new 30" connection to the interceptor. In addition, a new regulator will need to be installed at the regulator structure to allow for more flow to be conveyed to the treatment plant.	Optimization project that increases conveyance of wet-weather flows to the ACSD South Treatment Plant, resulting in a reduction in annual CSO volumes and reduced impacts to the Hudson River.	A-013	Completed Plans & Specifications: 10/1/26 NTP to Construction: 4/1/27 Construction Completion Date: 12/15/27 Operational Start-Up Date: 12/15/27	$250,000				Under Construction			
Improvements at up to Eleven Regulators, City of Cohoes	Optimization project that includes modification of eleven (11) existing regulator structures: Mohawk St (007), Duncan (012), Ontario (006), Main/Saratoga (015), Continental (005), Cedar (011), Hudson Ave (001), Bridge St (002), Van Schaick (003), Myrtle Ave (004), Peach St (010)	Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.	C-001 to 007, 010 to 012, 015	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$100,000	$130,973	NYSDEC WQIP	$57,506	Project Completed	2.34	11.14%	0.02%
Swan Street and Hamilton Street Regulator Improvements, Village of Green Island	Optimization project that includes modification of two (2) existing regulator structures: Removal of the orifice at Swan Street, raise weir height at Hamilton Street.	Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.	GI-002, 003	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$20,000	$2,387		$7,300	Project Completed	3.66	79.57%	0.03%
Improvements at Five Regulators, City of Watervliet	Optimization project that includes modification of five (5) existing regulator structures: 25th Street, 14th Street, 7th Street, 6th Street, and 3rd Street.	Optimization project that increases capacity of regulators to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.	W-001 to 004, 006	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$50,000	$3,894		$17,785	Project Completed	4.75	98.96%	0.04%
18th Street and Avenue A Weir Improvements, City of Watervliet	Optimization project that includes modification of the existing regulator structure, increasing the size of the connection pipe.	Eliminates operational challenges within the regulator and increases capacity of regulator to convey more combined sewage to the interceptor, thus reducing the frequency and volume of CSOs.	W-005	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$40,000	$2,380		$18,051	Project Completed			
Partition Street Trunk Sewer Evaluation, City of Rensselaer	Inspect and evaluate the condition of the sewer passing under the railroad tracks. Identify any needed repairs based upon results of CCTV inspection.	Improve conveyance capacity of sewer, thereby reducing surcharging and subsequent CSO discharges.	R-006	Task Start Date: 9/1/13 Task Completion Date: 3/1/14	$50,000			$0	Project Completed	N/A	N/A	N/A
Outside Community Metering	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.	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.	T-001, 024, 045	Completed Plans & Specifications: 10/1/17 Construction Start Date: 4/1/18 Construction Completion Date: 12/15/18 Operational Start-Up Date: 12/15/18	$2,070,000				Under Construction			
Elberon Place Area Storm Water Storage Phases I and II, City of Albany	Connection of the stormwater collection system in the vicinity of Elberon Place to a pipe storage gallery to reduce peak flows conveyed to the CSS.	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.	A-016	Construction Completion Date: 2012	$250,000			$249,673	Project Completed			
Lawnridge/Grove/Glendale/ Forrest Avenue Separation Phase II, City of Albany	Connection of catch basins to a storm sewer collection system, which is tributary to the Academy Road Detention Basin constructed under Phase I. This detention basin stores stormwater prior to discharging to the Hackett Boulevard sub-trunk sewer which is a branch of the Beaver Creek combined sewer.	Reduction in the stormwater peak flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	A-016	Construction Completion Date: 2012	$340,000			$447,425	Project Completed			
Mariette Place Stormwater Storage Facility, City of Albany	Connection of catch basins in the Marietta Place vicinity to a storage facility to reduce peak flows conveyed to the CSS.	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.	A-013	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/18 Operational Start-Up Date: 12/15/18	$350,000			$253,139	Project Completed	2.00	0.03%	0.05%
Marion Avenue Stormwater Storage Structures, City of Albany	Construct Stormwater Storage Tank to store 197,000 Gallons of stormwater collected from a new stormwater collection system in the vicinity of Marion Avenue and Western Avenue. Discharge is controlled and does not discharge to the Beaver Creek Trunk Sewer until adequate capacity exists following storms.	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.	A-016	Construction Completion Date: 2012	$510,000			$394,805	Project Completed			
Mereline Combined Sewage Storage, City of Albany	Connection of catch basins in the Mereline Avenue vicinity to a storage facility to reduce peak flows conveyed to the CSS.	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.	A-013	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	$640,000				Plan and Spec Completed			

Upper Washington Avenue Groundwater Recharge, City of Albany	Construction of dry wells and infiltration gallery beneath the street pavement in Upper Washington Avenue, between Brevator Street and Winthrop Avenue. These will replace catch basins which had formerly collected stormwater and discharged it into the Winthrop Avenue sub-trunk sewer which is a branch of the Beaver Creek combined sewer.	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.	A-016	Completed Plans & Specifications: 2/15/14 NTP to Construction: 8/15/14 Construction Completion Date: 12/15/15 Operational Start-Up Date: 12/15/15	$200,000			$264,035	Project Completed	11.60	0.16%	0.28%
Melrose/Winthrop Groundwater Recharge Basins, City of Albany	Construction of dry wells and infiltration galleries beneath the street pavement in the Melrose Avenue vicinity. These will replace catch basins which had formerly collected stormwater and discharged it into the Melrose Avenue sub-trunk sewer which is a branch of the Beaver Creek combined sewer system.	Removing flows from the combined sewer will reduce loads, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	A-016	Completed Plans & Specifications: 10/1/14 NTP to Construction: 4/1/15 Construction Completion Date: 12/15/16 Operational Start-Up Date: 12/15/16	$200,000							
Vliet Street Sewer Rehabilitation, Replacement and Separation Phase I, City of Cohoes	Continuation of sewer separation and rehabilitation work along Vliet Street.	Reduction of stormwater flows and infiltration to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	C-007	Completed Plans & Specifications: 12/15/23 NTP to Construction: 4/1/22 Construction Completion Date: 12/15/23 Operational Start-Up Date: 12/15/23	$1,930,000							
Manor Avenue Sewer Rehabilitation, Replacement and Separation, City of Cohoes	Sewer separation and rehabilitation work along Manor Avenue.	Reduction of stormwater flows and infiltration to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	C-007	Completed Plans & Specifications: 10/1/26 NTP to Construction: 4/1/27 Construction Completion Date: 12/15/27 Operational Start-Up Date: 12/15/27	$1,430,000							
Columbia Street Phase II Separation, City of Cohoes	Continuation of the sewer separation and rehabilitation work along Columbia Street.	Reduction of stormwater flows and infiltration to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	C-008, 015	Completed Plans & Specifications: 10/1/21 NTP to Construction: 4/1/22 Construction Completion Date: 12/15/22 Operational Start-Up Date: 12/15/22	$1,000,000							
George Street Sewer Separation, City of Cohoes	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.	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.	C-008, 015	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$420,000		Project completed by private developer	$0	Project Completed	0.20	0.10%	0.01%
Middle Vliet Street Sewer Separation, City of Cohoes	Sewer separation and rehabilitation work in the vicinity of Middle Vliet Street, including: Harvard Street, Berkshire Street, Beacon Avenue, and Edward Road.	Reduction of stormwater flows and infiltration to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency and intensity of CSO events.	C-007	Completed Plans & Specifications: 10/1/16 NTP to Construction: 4/1/17 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$1,430,000	$1,072,500	NYSDEC WQIP		Project Completed	0.06	0.03%	0.01%
2011 Storm Sewer Improvements, City of Cohoes	Various stormwater improvements throughout the City, including separation of combined sewers as well as elimination CSO #13.	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.	C-013	Construction Completion Date: 2012	$1,500,000	$790,380	NYSDEC WQIP	$1,424,292	Project Completed	12.00	5.71%	0.10%
Partition Street/Broadway Sewer and Drain Improvements, City of Rensselaer	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.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	R-006	Completed Plans & Specifications: 3/1/14 NTP to Construction: 9/1/14 Construction Completion Date: 12/31/15 Operational Start-Up Date: 12/31/15	$2,800,000	$7,836,906	NYSEFC Principal Reduction	$5,541,256	Project Completed	2.00	1.00%	0.02%
Broadway Sewer Separation and Dry-Weather Overflow Elimination Project, City of Rensselaer (Prior Order on Consent for Elimination of Unpermitted Outfall at Broadway Only)	Sewer separation along Broadway, along with the elimination of the undocumented overflow point to Mill Creek.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs. Eliminated CSO to Mill Creek at Broadway.	R-003	Construction Completion Date: 2012	$1,790,000				Project Completed	2.80	1.40%	0.02%
Washington Avenue Sewer Improvements and Elimination of Farley Drive CSO, City of Rensselaer (Prior Order on Consent for Elimination of Unpermitted Outfall at Farley Drive Only)	Performed sewer separation along Washington Avenue, and permanently closed CSO 012.	Eliminates CSO discharging to a tributary waterbody.	R-012	Construction Completion Date: 2011	$3,000,000				Project Completed	0.01	0.10%	0.00%
123rd Street Stream Separation, City of Troy	Divert unnamed stream from combined sewer.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	T-002	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	$4,540,000				Plan and Spec Completed			
Van Buren Street Stream Separation, City of Troy	Divert unnamed stream from combined sewer.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	T-041	Completed Plans & Specifications: 10/1/22 NTP to Construction: 4/1/23 Construction Completion Date: 12/15/24 Operational Start-Up Date: 12/15/24	$4,740,000							
Polk Street Stream Separation, City of Troy	Divert unnamed stream from combined sewer.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	T-044	Completed Plans & Specifications: 10/1/21 NTP to Construction: 4/1/22 Construction Completion Date: 12/15/22 Operational Start-Up Date: 12/15/22	$2,170,000							
113th Street Stream Separation, City of Troy	Diversion of an unnamed stream from the CSS. The stream enters the CSS at 11th Street and conveys flows north to 113th Street in a 36-inch sewer. The project proposes to disconnect all sanitary connections from the 36-inch sewer, with transfer to an 18-inch sewer upstream of the regulator. Upon completion of the project, the collection system upstream of regulator A13R2 will be dedicated to stormwater and stream flows only, and the regulator will be disconnected from the interceptor.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	T-013, 013A	Construction Completion Date: 2013	$1,430,000			$210,886	Project Completed			
Hoosick Street Storm Sewer Extension, City of Troy	Separation of existing storm sewer from the combined sewer.	Removal of inflow from CSS to increase conveyance of wet-weather flows, and reduce the frequency and volume of CSOs.	T-024	Completed Plans & Specifications: 10/1/17 NTP to Construction: 4/1/18 Construction Completion Date: 12/15/18 Operational Start-Up Date: 12/15/18	$1,050,000				Project Completed			
Performance of a Codes and Local Law Review	Educate land use decision makers, municipal and/or municipal designated engineers in green infrastructure techniques; Inventory existing Comprehensive Plans and Local Laws for Green Infrastructure strategies and Smart Growth principles; Research other green infrastructure local laws and develop a Model Local Law or guidelines beneficial to the unique needs of the APCs; and Present these model local law(s) or guidelines to the land use decision makers associated with each	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.	N/A	Task Start Date: 8/1/15 Task Completion Date: 8/1/16	$1,430,000	$129,589	NYSDOS LGE	$16,074	Project Completed	N/A	N/A	N/A
Green Infrastructure Technical Design Guidance	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.	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.	N/A	Task Start Date: 8/1/15 Task Completion Date: 8/1/17	$150,000							
Documentation/Reporting of New Public and Private Green Projects	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	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.	N/A	Task Start Date: 8/1/14 Task Completion Date: 3/1/19	$50,000			$0	Program Underway	N/A	N/A	N/A
Completion of a Feasibility Assessment for a "Green Infrastructure Banking System"	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.	This task will evaluate the feasibility and potential benefits associated with "green banking".	N/A	Task Start Date: 8/1/15 Task Completion Date: 8/1/17	$75,000	$50,000	NYSDEC Estuary Grant	$20,600	Project Completed	N/A	N/A	N/A
Quail Street Green Infrastructure Project, City of Albany	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.	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.	A-016	Completed Plans & Specifications: 10/1/14 NTP to Construction: 4/1/15 Construction Completion Date: 12/15/16 Operational Start-Up Date: 12/15/16	$1,800,000	$1,795,500	NYSEFC GIGP Grant	$534,761	Project Completed	8.87	0.12%	0.22%

North Swan Street Park Revitalization, City of Albany	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.	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.	A-030	Completed Plans & Specifications: 12/15/13 NTP to Construction: 6/15/14 Construction Completion Date: 12/15/15 Operational Start-Up Date: 12/15/15	$150,000	$87,914	NYSEFC GIGP Grant	$61,507	**Project Completed**	**0.01**	**0.00%**	**0.00%**
Route 32 Green Street Project, City of Watervliet	Reconstruction of approximately 0.71 mile of Rt. 32. The project would remove and replace approximately 152,080 square-feet of roadway with new pavement, and 30,416 square-feet 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.	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.	Potential CSO's effected, W-001 to 004	Completed Plans & Specifications: 10/1/15 NTP to Construction: 4/1/16 Construction Completion Date: 12/15/17 Operational Start-Up Date: 12/15/17	$1,000,000			$1,087,332	**Project Completed**	**1.33**	**2.77%**	**0.01%**
Monument Square Green Infrastructure Project, City of Troy	The project would be located in a highly visible area of Downtown Troy (home of the popular Farmers Market), and would promote public education and awareness. Approximately 11,543 square-feet of sidewalk and 22,476 square-feet of roadway would be replaced with porous pavement or pavers; which would intercept stormwater runoff and 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.	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 and intensity of CSO events.	T-030	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	$1,500,000	$317,578	NYSDEC WQIP	$108,857	**Project Completed**	**0.76**	**0.02%**	**0.01%**
Albany Avenue Green Street Project, Village of Green Island	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%.	The project is proposing the use of Filterra BioRention 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.	GI-004	Construction Completion Date: 12/15/14 Operational Start-Up Date: 12/15/14	$250,000			$250,000	**Project Completed**	**3.70**	**8.04%**	**0.03%**
"Big C" Disinfection and Floatables Control Facility, City of Albany	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.	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.	A-016	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	$45,000,000	$10,000,000	NYSEFC IMG Grant		**Final Design**			
Floatables Control Facility for CSO 026 Outfall (Regulators Maiden, Steuben and Orange), City of Albany	The proposed floatables facility will collect floatable debris and materials associated with CSOs from the Maiden, Steuben and Orange regulator structures.	The project will provide for the collection of floatables from the combined sewer overflows (CSOs) in the vicinity of the Corning Preserve.	A-026	Completed Plans & Specifications: 10/1/17 NTP to Construction: 4/1/18 Construction Completion Date: 12/15/19 Operational Start-Up Date: 12/15/19	$4,000,000	$5,000,000	NYSDEC WQIP		**Under Construction**			
Floatables Control Facility for CSO 030 Outfall (Regulators Quackenbush, Jackson and Livingston), City of Albany	The proposed floatables facility will collect floatable debris and materials associated with CSOs from the Quackenbush, Jackson and Livingston regulator structures.	The project will provide for the collection of floatables from the combined sewer overflows (CSOs) in the vicinity of the Corning Preserve.	A-030	Completed Plans & Specifications: 10/1/17 NTP to Construction: 4/1/18 Construction Completion Date: 12/15/19 Operational Start-Up Date: 12/15/19	$4,000,000							
"Little C" Floatables Control Facility, City of Cohoes	The proposed floatables facility will collect floatable debris and materials associated with the 'Little C" outfall in Cohoes, discharging to the Mohawk River.	The proposed floatables facility will collect floatable debris and materials associated with the largest CSO in Cohoes.	C-008, 015	Completed Plans & Specifications: 10/1/24 NTP to Construction: 4/1/25 Construction Completion Date: 12/15/26 Operational Start-Up Date: 12/15/26	$2,870,000							
Cross Street Sewer Outfall Evaluation, City of Troy	Evaluation of repair of the existing 48-inch diameter outfall downstream of the regulator for CSO 045. Required limits of repair and/or replacement alternatives will be determined.	Determine repairs required to eliminate unpermitted discharges to the Wynants Kill, and restore the existing outfall to the Hudson River.	N/A	Task Completion Date: 10/7/13	$60,000			$573,214	**Project Completed**	**N/A**	**N/A**	**N/A**
Cross Street Sewer Outfall Repairs and/or Replacement, City of Troy	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.	Repairs required to elimination unpermitted discharges to the Wynants Kill.	T-045	Completed Plans & Specifications: 4/1/14 NTP to Construction: 8/1/14 Construction Completion Date: 12/15/14 Operational Start-Up Date: 12/15/14	$640,000				**Project Completed**			
Cross Street Trunk Sewer Rehabilitation Phase I, City of Troy	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.	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.	T-045	Construction Completion Date: 12/15/14 Operational Start-Up Date: 12/15/14	$640,000			$202,765	**Project Completed**			
Cross Street Trunk Sewer Rehabilitation Phase II, City of Troy	Replacement and/or rehabilitation of sewer in the vicinity of Upper Campbell Avenue. Required limits of repair and/or replacement is currently being evaluated.		T-045	Completed Plans & Specifications: 10/1/24 NTP to Construction: 4/1/25 Construction Completion Date: 12/15/25 Operational Start-Up Date: 12/15/25	$640,000							
Investigate Non-CSO Bacteria Sources Along Mill Creek, Poesten Kill, and Wynants Kill	Inspect condition of sewers running parallel and crossing Mill Creek, Poesten Kill, and Wynants Kill to identify repairs that could reduce infiltration and exfiltration.	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	N/A	Task Start Date: 4/1/16 Task Completed Date: 12/15/17	$150,000			$8,242	**Project Completed**	**N/A**	**N/A**	**N/A**
Discharge Notification System for Albany Pool CSOs	Development of a public notification system for discharges of Albany Pool CSOs.	Compliance with the requirements of Sewage Pollution Right to Know Act (ECL § 17-0826-a).	N/A	Task Start Date: 12/1/13 Task Completion Date: 12/1/14	$210,000	$61,499	NYSDOS LGE	$8,976	**Project Completed**	**N/A**	**N/A**	**N/A**
Hudson River Water Quality Public Advisory	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	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	N/A	Task Start Date: 4/1/18 Task Completion Date: 4/1/19	$250,000				**Program Underway**	**N/A**	**N/A**	**N/A**
Sewer System Operations, Maintenance and Inspection Plans (Includes ALL Pool Communities)	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.	Provides for improved system performance and CSO capture.	All outfalls.	Task Completion Date: 2013 (Troy, Rensselaer) 12/1/15	$300,000			$121,530	**Project Completed**	**N/A**	**N/A**	**N/A**
Development of the Post-Construction Monitoring Program (PCMP)	Provides definition of the sampling locations, protocols and frequency for the collection of water quality data.	Data to be used to assess the benefits associated with the LTCP, and demonstrate compliance with water quality standards.	N/A	Task Start Date: 4/1/14 Task Completion Date: 10/1/14	$20,000			$19,932	**Project Completed**	**N/A**	**N/A**	**N/A**
Implementation of the Post-Construction Monitoring Program	Collection of water quality data for Hudson River and tributaries.	Data to be used to assess the benefits associated with the LTCP, and demonstrate compliance with water quality standards.	N/A	Task Start Date: 5/1/15 Task Completion Date: 10/1/27	$525,000				**Program Underway**	**N/A**	**N/A**	**N/A**

Execution of IMA(s) in compliance with Section V(C) of the Prior Order on Consent	Development of APCs governance structure for implementation of the LTCP.	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.	N/A	Task Start Date: 1/15/14 Task Completion Date: 4/15/15	$780,000	$854,391	NYSDOS LGE	$115,211	**Project Completed**	**N/A**	**N/A**	**N/A**
Asset Management Plans (All Pool Communities)	Provides each community with assistance in developing asset management plans to improve long term management of capital investments for operation and maintenance of their collection systems. Scope to be further developed within the established budget based upon the goals and needs of each community.	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.	All outfalls.	Task Start Date: 4/1/14 and 4/1/16 Task Completion Date: 4/15/15 and 12/1/17	$600,000				**Project Completed**	**N/A**	**N/A**	**N/A**

Communities' Project Budget	Grant Funds	Total Completed Cost to Communities*	Total Investment	Annual Volume Captured / CSO Volume Reduction (MG)	Regional Annual Untreated CSO Reduction(%)
$103,240,000	**$28,135,891**	**$12,424,679.26**	**$40,560,570.56**	**56.09**	**0.85%**
*Does not include administrative costs (program management, legal, financial planning)					

District & Communities' Project Budget	Grant Funds	Total Completed Cost	Total Investment	Annual Volume Captured / CSO Volume Reduction (MG)	Regional Annual Untreated CSO Reduction(%)
$142,820,000	**$33,775,891**	**$25,074,679.26**	**$58,850,570.56**	**267.09**	**15.59%**
*Does not include administrative costs (program management, legal, financial planning)					
*Cost subject to change depending on grant and community reconciliation					

Last Update 1-20-2019