



Final Clean Water Fund

Financial Assistance Programs Municipal Water Pollution Control State Fiscal Years 2018 and 2019

- Section 1: Program Authorization and Objectives
- Section 2: Meeting Future Clean Water Fund Demands and Economic Benefits to the State
- Section 3: Municipal Funding Programs
 - Section 3a: Priority Project Program (Grant & Loan)
 - Section 3b: Set-Asides and Reserves (Grant & Loan)
 - Section 3c: Collection System Improvement Program (Loan)

Section 1: Program Authorization and Objectives

Authorizations:

The purpose of this document is to present the Department of Energy & Environmental Protection's (Department or DEEP) state and federal funding assistance programs for municipal and state water pollution control projects during state fiscal years 2018 (FY18: July 1, 2017 - June 30, 2018) and 2019 (FY19: July 1, 2018 - June 30, 2019). This document describes the uses of funds available under Sections 22a-478 and 22a-483 of the Connecticut General Statutes (CGS) and federal funds under the Water Quality Act of 1987.

A public hearing on this document (hereafter referred to as “the Priority List”) was held at DEEP Headquarters on May 3, 2018 at 9:30 am in the 5th floor auditorium of 79 Elm Street, Hartford, Connecticut in accordance with state and federal regulations regarding public participation. The Priority List has been made available to local officials, consulting engineers, and other government agencies involved with the projects prior to the hearing. All oral and written testimony presented at the hearing was considered in the development of the final Priority List.

The Department was funding projects in accordance with the FY16 and FY17 Priority List. The unallocated balances from that Priority List were considered in the development of FY18 and FY19 Priority List. The anticipated funding for the next two-year planning period is as follows:

	FY18 Funds Authorized	FY19 Funds Authorized
State General Obligation Bonds	\$ 0	\$ 85,000,000
State Revenue Bonds	\$158,200,000	\$350,300,000
Federal Capitalization Grant	\$ 19,663,000	\$ 16,000,000 ⁽¹⁾

(1) Anticipated grant level.

Requirements of the Federal Capitalization Grant:

The anticipated requirements for the federal FY18 and federal FY19 Capitalization Grants are as follows:

- 10% of the grant shall be used for green infrastructure, energy efficiency, or other environmentally innovative projects. The projects that are deemed eligible for funding are identified in Section 3b;
- 10% to 30% of the Federal Capitalization Grant shall be applied as grant;

Funding Levels Based Upon Project Type:

The Clean Water Fund program is defined by Sections 22a-475 through 22a-483 of the CGS and by regulations adopted February 19, 1992 pursuant to CGS 22a-482. The State's Clean Water Fund program provides grants equal to 20% of the eligible project costs and a loan for the remainder of the project costs to be repaid over not more than 20 years at 2% interest for most water pollution control projects. Exceptions to this are noted below.

Combined Sewer Overflow (CSO) projects receive grants equal to 50% of the eligible project costs and a loan for the remainder of the project costs to be repaid over not more than 20 years at 2% interest.

Nutrient (Nitrogen or Phosphorus) Removal projects receive grants equal to 30% of the project costs associated with nutrient removal, and 20% grants on the balance of the eligible project

costs. The remainder of the cost is funded with a loan to be repaid over not more than 20 years at 2% interest.

On May 26, 2016, Public Act 16-57 entitled “*An Act Concerning Phosphorus Reduction Reimbursements to Municipalities*” was signed into law. Public Act 16-57 provides a 50% grant on phosphorus removal components of a treatment plant upgrade for treatment plants that 1) enter into a construction contract before July 1, 2019 and 2) have a NPDES permit limit with an average monthly effluent total phosphorus limit of less than or equal to 0.31 mg/l. Public Act 16-57 does not change the schedule in the NPDES permit for complying with the final phosphorus limit.

Small Community projects receive grants of 25% of the eligible project cost and a loan for the remainder of the costs to be repaid over not more than 20 years at 2% interest.

Collection System Improvement projects are eligible for a 2% interest loan.

Management System

As required by Section 22a-482-1(b) of the Regulation of Connecticut State Agencies (RCSA), a priority list is established for the purpose of determining funding assistance available for sewerage projects. This list is effective upon adoption and shall remain in effect until adoption of the subsequent Priority List. The intended effective period is from the date of adoption through June 30, 2019.

The Priority List management system (Section 22a-482-1(c)(1) through (5) of the RCSA) includes sections on priority rating criteria, project ranking mechanism, order of priority funding, public hearing and revisions to the Priority List. The Priority List has been developed in accordance with such system.

This document incorporates the priority ranking systems for grant-eligible priority projects and the loan-only collection system improvement projects, and includes listing of the fundable projects for both programs.

Projects will be removed from the Priority List if they have been fully funded by the Clean Water Fund, if funded by any other means, if no longer eligible for funding, or if the municipality withdraws the project from consideration.

Reserves

In developing the fundable portion of the Priority List and the intended use plan, the State has established a number of set-asides and reserves required or allowed under federal and state regulations. Reserves have been considered for:

- (a) Program administrative costs
- (b) Water quality management
- (c) Planning projects
- (d) Design projects
- (e) Small community projects
- (f) Infiltration and inflow rehabilitation projects
- (g) Pump station rehabilitation projects
- (h) Green infrastructure projects
- (i) Collection system improvement projects

Program Administrative Costs

The costs of administering the Clean Water Fund are covered by a combination of federal grants and state bonds. Section 35.2020(a) of the Code of Federal Regulations provides that the State may set aside from the federal capitalization grant of FY18 and FY19 a reserve not to exceed 4 percent of Title VI appropriations for the purpose of administration. In addition to these federal dollars, the state may set aside an amount not to exceed 4 percent of the total bonding authorization to cover the reasonable costs of administering the program. These administrative expenses are allowed in accordance with appropriate tax laws and bonding practices.

Water Quality Management

Section 604(b) of the 1987 Amendment to the Federal Water Pollution Control Act is applicable to Title VI only. This section is intended to provide a funding source to states for water quality management planning as defined by 205(j) and 303(e) of the Federal Act. The funding level is one percent of the total state allotment or \$100,000, whichever is greater. Accordingly, \$196,630 has been reserved from federal FY18 and \$160,000 from federal FY19 for this purpose.

Small Communities

A “small community” means a municipality with a population of 5,000 or less, or highly dispersed sections of large municipalities. The regulations adopted pursuant to CGS Section 22a-482 require that a reserve of funds sufficient to finance the construction of at least one small community project per year be established.

Revisions to the Priority List

The Department reserves the right to evaluate the usage of funds in all of the reserves and the fundable construction projects at any time during the last six months of each fiscal year and to reallocate underutilized funds into any other reserve or construction project as determined by the Commissioner. This shall be done in accordance with the requirements of Section 22a-482-1 (c) (5) (Revisions to the Priority List) of the RCSA.

Revisions of the Priority List may be made at any time during the funding period in accordance with public participation requirements and all other established procedures. A public hearing with appropriate notice shall be held on all significant changes to the list and all parties affected by such changes will be notified directly. If the State determines that a change must be made and that such a change is not significant, or the affected municipality has been previously notified, a public hearing may be waived.

If the passage of a public act or budgetary rescissions results in a reduction in the amount of funding authorized in either FY18 or FY19, the final Priority List will be revised without a public notice and public hearing. In order to account for a reduction in funding, DEEP will make adjustments in the funding reserves that are underutilized for new projects. Specifically, DEEP will revise Section 3b of the *Set-Asides and Reserves* and Section 3c of the *Collection System Improvement Program*. If adjusting those reserves is insufficient to account for the reduction in funding, then the lowest priority point projects listed in the table for *Fundable Construction Projects* will not receive funding. Any changes to the final Priority List will be posted on DEEP’s website.

Section 2: Meeting Future Clean Water Fund Demands and Economic Benefits to the State

The FY18 and FY19 state capital budget will continue a trend of generous support for the ongoing improvement of our aging wastewater infrastructure. Current funding authorizations will further stimulate our recovering economy through the creation or retention of jobs for construction contractors, equipment manufacturers, construction materials suppliers, design and management professionals, and supporting businesses and industries. The availability of CWF financing will reduce the burden on ratepayers and taxpayers from stable, low interest financing as well as grant dollars to municipal wastewater treatment authorities.

Despite these recent gains and successes, the need for CWF financing continues to exceed available resources. Consistent with the priority list scoring process (See Section 3a) and in accordance with the RCSA Section 22a-482-1(c), available funding is proposed to address priority water quality areas. The priority needs of the state still remain achieving CSO abatement as required under Long Term Control Plans, meeting the nitrogen load allocation required by the Total Maximum Daily Load (TMDL) for the Long Island Sound and phosphorus reduction to control nutrient enrichment of streams. Although this priority list also has reserves for funding planning, design, small community projects and collection system improvements; department staff will primarily focus on moving CSO control and nutrient removal (nitrogen and phosphorus) projects out to construction first and then focus on providing the necessary support to move the various funding reserves forward.

Other issues that will likely add to the CWF demands, but for which costs cannot be precisely determined at this time include:

- Tighter effluent limits for metals;
- Control of pharmaceuticals and personal care products; and
- Adaptation to address climate change effects of flooding and sea level rise.

Section 3: Municipal Funding Programs

Section 3a: Priority Project Grant-Loan Program

Priority Project Ranking System

Regulations adopted pursuant to CGS 22a-439 and 22a-482 (Section 22a-482-1(c) of the RCSA) and under 40 CFR Part 35 specify the use of a priority system for determining the funding of municipal projects.

The priority system and Priority List include project information and point ratings which become the basis for committing available and anticipated state and federal funds. Projects on the Priority List are rated on several criteria which emphasize the impact of each upon public health, the improvement of water quality and water resource utilization. Both, the federal regulations governing the development of this document, 40 CFR 35.2015 and 35.2020, and state law, CGS 22a-439 and 22a-478, stress the need to fund projects which improve "priority water quality areas", i.e. specific stream segments or bodies of water where municipal discharges have resulted in the impairment of a designated use or significant public health risk, and where the reduction of pollution from the municipal discharges will substantially restore surface or groundwater uses. Based on the priority rating system and other specific management criteria, all anticipated eligible sewerage projects as requested by the municipalities or identified by DEEP have been ranked for funding purposes and appear on the Priority List.

The Priority List contains the fundable portion, consisting of those projects anticipated to be funded from any unobligated balance of prior year carry-over funds and the FY18 and FY19 allotments. The priority rating score, which is developed from the priority rating system for every project, becomes the prime consideration in the overall Priority List ranking.

The criteria, which establish the priority rating number, are shown below. The application of this rating system to each individual project request that was received is shown in Table 1. Note that the criteria are evaluated against existing conditions, and not against future, 20-year flow projections. In cases where the priority rating number is the same for two or more projects, preference will be given to that project ready to proceed at the earliest date.

- I. Project impacts potable water supply – (10 points maximum).**
 - A. Impaired water supply affecting less than 25 people – 2 points.
 - B. Impaired water supply affecting 26 to 100 people – 4 points.
 - C. Impaired water supply affecting 101 to 1,000 people – 6 points.
 - D. Impaired water supply affecting 1,001 to 5,000 people – 8 points.
 - E. Impaired water supply affecting more than 5,000 people – 10 points.

- II. Project is necessary for attainment of State water quality goals – (28 points maximum)**
 - A. Project is necessary for attainment of water quality standards where the impacted water resource is:
 - 1. Smaller than main stem of a sub-regional drainage basin or groundwater goals will be attained – 5 points.
 - 2. Main stem of sub-regional drainage basin – 10 points.
 - 3. Main stem of regional drainage basin – 15 points.
 - 4. Main stem of major drainage basin – 20 points.
 - 5. Projects which impact coastal areas are considered the equivalent of a regional drainage basin and assigned – 15 points.
 - B. Project will enable the water body to meet minimum dissolved oxygen standards – 8 points.

- III. Project will enhance specific water resource values – (24 points maximum).**
 - A. Fishery resources - (6 points maximum).
 - 1. Project will improve recreational fisheries – 3 points.
 - 2. Project will improve anadromous fisheries – 6 points.
 - 3. Project will open new streams for fish stocking programs – 6 points.
 - B. Shellfish resources – (6 points maximum).
 - 1. Project will lower coliform bacterial levels in the waters of shellfish beds – 3 points.
 - 2. Project will open new areas for shell fishing – 6 points.
 - C. Swimming – (6 points maximum).
 - 1. Project will enhance existing swimming opportunities – 3 points.
 - 2. Project will allow for new swimming opportunities – 6 points.
 - D. Eutrophication – (6 points maximum).
 - 1. Project will reduce eutrophication of a lake or impoundment by diverting septic system discharges out of a drainage basin – 3 points.
 - 2. Project will reduce eutrophication of a lake or impoundment

by providing nutrient removal in a municipal treatment plant
or by relocating an existing treatment plant discharge – 6 points.

IV. Population equivalent (including commercial and industrial waste) initially served by the project – (12 points maximum).

- A. Less than 5,000 2 points.
- B. 5,000 but less than 10,000 4 points.
- C. 10,000 but less than 20,000 6 points.
- D. 20,000 but less than 40,000 8 points.
- E. 40,000 but less than 75,000 10 points.
- F. 75,000 or greater 12 points.

V. Health Related Issues - (6 points).

Project will eliminate ponding of sewage from failing septic systems, backup of sewage into basements, or overflow of sewage in streets (CSO correction projects are not eligible for points).

VI. Miscellaneous – (20 points maximum).

- A. Project involves the upgrading of an existing primary facility in order to comply with secondary treatment standards – 5 points.
- B. Project will result in the DEEP rescinding an Order concerning a sewer connection moratorium – 5 points.
- C. Project will eliminate nuisance odors associated with treatment processes or pump stations but exclusive of large-scale expansion or upgrading of treatment facilities – 5 points.
- D. Remedial action will improve treatment plant operations where treatment standards are already being achieved (Note that projects receiving points under this category cannot also claim points under category VIII) – 5 points.

VII. Connecticut Housing Partnership Program - Development Designation

Community has received development designation - 0 points.

Public Act No. 88-305 established a Connecticut housing partnership program, and amended CGS 22a-478, requiring the Commissioner of DEEP to consider the formation of a housing partnership program with a development designation as a factor in making grants and loans. However, the Department of Economic and Community Development (DECD) has discontinued the housing partnership program, and is no longer maintaining a list of qualifying communities. Therefore, the priority points for such a program have been revised from 3 (on prior lists) to zero at this time.

VIII. Implementation of Long Island Sound TMDL

All projects which are designed to meet the final goals for nitrogen reduction per the Long Island Sound TMDL continue to receive points under this criterion. In order to prioritize the projects based on net impacts to Long Island Sound, a range of 15 to 32 points, rounded to the nearest whole number, based on their equalized baseline load, was established. This is in lieu of assigning each such project the full 32 points from Categories II.A.5 (15 pts), II.B (8 pts), III.A.1 (3 pts) and III.D.2 (6 pts). The actual formula for determining the points for each facility under this criterion is:

$$\text{Priority Points} = 14 + (\text{equalized baseline load, in lbs/day})^{0.368}$$

Once a facility has been constructed that is designed to or has demonstrated the ability to achieve the final nitrogen permit limit, it is no longer eligible for priority points under this criteria. This criteria constitutes a deviation from the existing regulations and has been approved by an action of the Commissioner dated February 2, 2002 and has been consistently applied.

Projects incorporating both phosphorus and nitrogen removal components shall only receive credit for one type of nutrient removal. These types of projects shall be rated two separate ways: the first score shall include points for phosphorus removal and no points under category VIII for nitrogen removal; the second score shall include points for nitrogen removal under category VIII, with no credit for phosphorus removal. The greater of the two scores shall carry forward.

Category I, II and III Projects

The priority rating system also includes a project ranking mechanism as permitted by federal and state regulations. The ranking system allows the State to put certain lower priority projects in a favorable position for funding for certain specific reasons. Any project listed in Category I, II, or III will be funded first without regard to priority points prior to funding other construction projects in order of priority points. In general, the rank of the project depends on its priority number, but the Commissioner **may**, in accordance with Clean Water Fund regulations, choose to assign a higher rank for projects which fall into one of the following categories:

Category I - Consists of projects for which:

- A complete financing application for construction was submitted to the DEEP for review during the previous funding period,
- The project was on the fundable portion of the year's priority list, and
- A Clean Water Fund agreement has not been executed for the project.

These applications have undergone preliminary review and represent the good faith efforts of the municipality to comply with program requirements. Funding for planning and design, initially funded by the municipality, may be recouped in the future, if the construction of the project is awarded Clean Water Fund assistance. It should be stressed that any project placed in this category must come from the fundable portion of the previous Priority List.

Category II - Consists of projects where previously funded segments of pollution abatement facilities have been built and are not usable or are severely restricted in use until the remainder of the project is fully constructed and operational.

Category III - Consists of projects which remedy documented pollution of potable water supplies.

At this time, the Commissioner has chosen to select one project for funding which fits the definition of Category I. No Category II or III projects have been selected for funding.

Fundable Projects: Category I

<u>CWF#</u>	<u>Municipality</u>	<u>Description</u>	<u>Cost (\$M)</u>
671	Enfield	WPCF Improvements	\$28.6

Fundable FY18 Projects: Construction
(In Order of Priority Points)

<u>Pts.</u>	<u>CWF #</u>	<u>Municipality</u>	<u>Project Description</u>	<u>Cost (\$M)</u>
43	668	New Haven	CSO Projects	12
41	677	Waterbury	WPCF Upgrade including Phosphorus Removal	32
40	TBD	MDC	Improvements at Hartford WPCF	16
37	TBD	Torrington	WPCF Upgrade including Phosphorus Removal	76
37	651	Southington	WPCF Upgrade including Phosphorus Removal	58
35	TBD	Plainville	WPCF Upgrade including Phosphorus Removal	16
33	680	Thomaston	WPCF Upgrade including Phosphorus Removal	2
32	688	Killingly	WPCF Upgrade including Phosphorus Removal	30

Fundable FY19 Projects: Construction
(In Order of Priority Points)

<u>Pts.</u>	<u>CWF #</u>	<u>Municipality</u>	<u>Project Description</u>	<u>Cost (\$M)</u>
43	TBD	Bridgeport	CSO Projects	15
42	TBD	Norwich	CSO Sewer Separation	8
41	678	Danbury	WPCF Upgrade including Phosphorus Removal	94
40	TBD	MDC	CSO: Tunnel Contracts 3, 4 & 5; Kane Brook ⁽²⁾	190
40	TBD	MDC	Improvements at Hartford WPCF	24
39	705	Vernon	WPCF Upgrade including Phosphorus Removal	95
39	710	Meriden	WPCF Upgrade including Phosphorus Removal	50
37	TBD	Wallingford	WPCF Upgrade including Phosphorus Removal	47
33	702	Ridgefield	WPCF Upgrade including Phosphorus Removal	49
30	TBD	MDC	East Hartford WPCF for Nitrogen Removal	14
23	TBD	Plymouth	WPCF Upgrade including Phosphorus Removal	5
22	TBD	MDC	Windsor WPCF Upgrade for Nitrogen Removal	4

- (1) TBD – Clean Water Fund number to be determined at time of agreement execution.
- (2) Prior to bidding Contract #4 of the South Hartford Conveyance and Storage Tunnel, the Department will assess the availability of grant funds to fully fund this contract. If Contract #4 is not funded as a FY19 project, it becomes a Category II project in the next Priority List.

Section 3b: Set-Asides and Reserves

As previously noted, in developing the fundable portion of the Priority List and the intended use plan, the State has established a number of set-asides and reserves required or allowed under federal and state regulations. These reserved funds are accessed on a first-come, first-served basis unless otherwise noted, and do not rely on a priority point score for allocation to qualifying municipalities.

Reserve for Planning Projects

(55% grant)

FY18	\$1M
FY19	\$1M

Planning funds will be distributed on a first come, first served basis (as complete applications are filed) until the funds are depleted. In order for a planning project to be eligible, Quality Based Selection (QBS) must be used to choose an engineering consultant for that specific project.

After the planning reserve funds are depleted, municipalities may proceed with planning by utilizing local funds, and retain eligibility for future reimbursement of eligible costs provided the municipality has received prior written approval of the fees and scope of work from the Department. Municipalities that expend funds for eligible planning efforts without receiving prior written approval from the Department will not be eligible for reimbursement at a later date.

Reserve for Design Projects

<u>(Non-CSO: 20% grant/80% Loan; CSO: 50% grant/50% Loan)</u>	FY18	\$5M
	FY19	\$10M

Design funds will be made available only for those projects that can be expected to be reached on the Priority List for construction funding within three years. The QBS process must be followed in the selection of the design engineer. If the design engineer was selected by the town through a QBS process during the planning phase, the town may continue to use the same engineering consultant.

For design costs associated with collection system improvements in Section 3c of the priority list, the Department will not process separate design agreements. Rather, the Department will require the municipalities to seek prior written approval on the design fees and to then complete design with local financing. The municipality may then recoup the design cost (as loan) by including them in the construction application for Clean Water Fund financing. This process is permitted by RCSA Section 22a-482-2(d)(3) of the Clean Water Fund Regulations.

Design funds will be awarded on a first-come first-served basis (as complete applications are filed) until the funds run out. After that, municipalities may proceed with design by utilizing local funds, and retain eligibility for future reimbursement of eligible costs provided the municipality has received prior written approval of the fees and scope of work from the Department. In such cases, funding for design may be recouped at the time the construction of the project is awarded Clean Water Fund assistance. Municipalities that expend funds for eligible design efforts without receiving prior written approval from the Department will not be eligible for reimbursement at a later date.

Reserve for Construction of Green Infrastructure

<u>(Non-CSO: 20% grant/80% Loan; CSO: 50% grant/50% Loan)</u>	FY18	\$2M
	FY19	\$2M

There is interest to improve the quality of the stormwater before it reaches the receiving stream, minimize the amount of combined sewage that discharges into the environment, and provide alternative means of providing electrical energy at treatment plants. This reserve includes the following types of construction projects:

- Categorically eligible energy efficiency projects as defined by EPA. Examples include cost-effective renewable energy components at treatment plants and projects that achieve a 20% reduction in energy consumption at treatment plants. (20% grant/80% loan);
- Community demonstration projects of green infrastructure technologies to promote infiltration of stormwater into the ground in combined sewer overflow areas (50% grant/50% loan), for CSO communities that are working toward compliance with their CSO Long Term

Control Plans (Bridgeport WPCA, the Greater New Haven WPCA, the Metropolitan District, and Norwich Public Utilities).

Reserve for Construction of Small Community Projects
(25% Grant/75% Loan)

FY18	\$0M
FY19	\$26M

This set-aside allows for the funding of small community projects that will mitigate an existing documented community pollution problem. The projects covered under FY19 included the following:

- Marlborough, Phase IV of their sewer project - \$4M
- Miami Beach Assoc., Old Colony Beach Assoc., Old Lyme Shores Beach Assoc. - \$22M

Section 3c: Collection System Improvement Program

In accordance with Section 22a-478(c)(8) of the CGS, the funding of collection system improvement projects is permissive (“sewer collection system improvements may receive a loan for one hundred percent of the eligible cost...”). This is different from the priority project grant-loan program which is obligatory if funding is available.

It is important to note that this program is a subset of the Clean Water Fund and the only changes to the Clean Water Fund program are the funding level and the requirement for a separate priority system. All other aspects of the Clean Water Fund program, including the statutes and regulations, cost effectiveness of projects and environmental review apply to the collection system improvement program. Quality Based Selection must be used to choose an engineering consultant for that specific project. All administrative procedures applicable to the Clean Water Fund program apply to the collection system improvement program as well.

As indicated in Section 3b, the Department will not process separate design agreements for collection system improvements. Rather, the Department will require the municipalities to seek prior written approval on the design fees and to then complete design with local financing rather than a Clean Water Fund loan. The municipality may then recoup the design cost by including them in the construction application for Clean Water Fund financing. This process is permitted by RCSA Section 22a-482-2(d)(3) of the Clean Water Fund Regulations.

For each municipality, there is a project limit of \$4 million per year and shall be administered on a first come, first served basis. For regional wastewater utilities that are responsible for the operation and maintenance of the entire collection system in the region, the limit per year is \$4 million times the number of communities in the region. These project funding limits apply to each of the funding reserves below.

Fundable FY18 and FY19 Construction Projects (Collection System Improvement Program)

Reserve for Construction of Collection System Improvement
Projects (Loan Only)

FY18	\$20M
FY19	\$30M

This reserve will be available for the following types of sanitary sewer projects:

- Rehabilitation and/or replacement of sanitary sewers that cannot be adequately repaired through lining alone;

- Construction of relief sewers in separated sewer systems to address hydraulic overloading of existing sewers;
- Construction of sewers to eliminate sanitary sewer pump stations; and
- Extension of sanitary sewers to solve an existing community pollution problem.

<u>Reserve for Construction of I/I Rehabilitation Projects (Loan Only)</u>	FY18	\$20M
	FY19	\$30M

Infiltration and Inflow (I/I) rehabilitation projects are designed to reduce the volume and frequency of extraneous flow (storm and surface water inflow and groundwater infiltration) entering sanitary sewer systems. Projects funded under this reserve minimize sewage overflows resulting from system surcharge, reduce hydraulic overloading and energy consumption, improve treatment efficiency, and reserve capacity for future wastewater needs.

<u>Reserve for Construction of Pump Station Rehabilitation Projects (Loan Only)</u>	FY18	\$20M
	FY19	\$30M

Projects funded under this reserve are for pump station improvement projects located in the collection system that result in a reduction in energy consumption, increase resiliency during extreme wet weather events or upgrade the ability to provide emergency power at the pumping station.

Table 1: FY18/FY19 Project Priority List Point Score Derivation

Town	Description	I	IIA	IIB	3A1	3A2	3A3	3B1	3B2	3C1	3C2	3D1	3D2	IV	V	VIA	VIB	VIC	VID	VII	VIII	IX	Priority Points	Project Cost (\$M)
Berlin	I/I: Rehabilitation													2									2	\$2.1
Bridgeport	CSO: Ash Creek	20	8				3							3	6								43	\$11.0
Bridgeport	CSO: Contract H Phase II	20	8				3							3	6								43	\$11.0
Bridgeport	CSO: Low Impact Development	20	8				3							3	6								43	\$3.0
Bridgeport	Green: LED Lighting												12										12	\$1.5
Bridgeport	I/I: Sewersheds 56, 91, 92												3										3	\$4.0
Bristol	WPCF Upgrade: Improvements												10						5				15	\$3.0
Bristol	Sewers: Cedar Lake (West)											3	2	6									11	\$2.4
Bristol	Sewers: Cedar Lake (East)+B1											3	2	6									11	\$6.5
Bristol	Sewers: Relief sewers for SSO control												3	6									9	\$7.5
Brookfield	Sewers: Still River Sewer Installation												2	6									8	\$2.9
Coventry	Sewers: Bolton/Coventry Town Line Extension												2	6									8	\$3.9
Danbury	WPCF Upgrade: Phosphorous Removal	15	8									6	12										41	\$97.0
Danbury	Sewers: Extend Sewers to Abandon PS												2	6									8	\$0.3
Danbury	Sewers: Gravity Sewer Extension												2	6									8	\$2.5
Danbury	Generators												3										3	\$0.5
Danbury	I/I: SSOs and Collection System												3										3	\$0.5
Danbury	Pump Station: Beaver Brook Upgrade												3										3	\$0.2
Danbury	Pump Station: Triangle Street Upgrade												3										3	\$0.3
Enfield	WPCF Upgrade: Comprehensive Upgrade												10	10					5				15	\$28.6
Fairfield	WPCF Upgrade: Comprehensive Upgrade												10	10					5				15	\$58.0
Fairfield	Green: Cogen Facility												10										10	\$1.0
Fairfield	I/I: Point Source Removal												3										3	\$1.1
Fairfield	Pump Station - Center Street Upgrade												3										3	\$2.3
Fairfield	Pump Station: Easton Turnpike Upgrade												3										3	\$1.8
Fairfield	Pump Station: Fairfield Beach Upgrade												3										3	\$1.8
Fairfield	Pump Station: Pine Creek Upgrade												3										3	\$0.8
Fairfield	Sewers: East Trunk Interceptor												2										2	\$7.5
Farmington	Pump Station: Comprehensive Upgrade												2										2	\$1.1
Farmington	Sewers: Sanitary Sewer System Piping Replacement												2										2	\$1.2
Greater New Haven	CSO: Yale Trumbull Street	20	8				3						3	6									43	\$0.8
Greater New Haven	CSO: Relief Sewer	20	8				3						3	6									43	\$3.8
Greater New Haven	CSO: West River	20	8				3						3	6									43	\$4.0
Greater New Haven	CSO: Regulator 025 and 034	20	8				3						3	6									43	\$1.0
Greater New Haven	CSO: Green Infrastructure	20	8				3						3	6									43	\$1.4
Greater New Haven	I/I: Remediation												3										3	\$3.5
Greater New Haven	I/I: Woodbridge Phase II												3										3	\$3.5
Greenwich	Resiliency: WWTP Flood Proofing												10						5				15	\$3.0
Greenwich	WPCF Upgrade: Grit Removal System												10						5				15	\$8.0
Greenwich	WPCF Upgrade: Improvements												10						5				15	\$4.3
Greenwich	Sewers: Force Main Replacement												2	6									8	\$3.8
Greenwich	I/I: Rehabilitation Sanitary Sewers												3										3	\$5.5
Greenwich	Pump Station: Electrical Controls Upgrade												3										3	\$1.8
Groton	WPCF Upgrade: Improvements												8						5				13	\$6.0
Hebron	Pump Station: Millstream PS Upgrade												1										1	\$0.5
Hebron	Pump Station: New PS Construction												1										1	\$0.5
Hebron	Pump Station: Old Railroad PS Upgrade												1										1	\$1.0
Killingly	WPCF Upgrade: Phosphorous Removal	10	8										6	8									32	\$30.0
Mansfield	Sewers: Four Corners Sewer Extension												2	6									8	\$9.0
Marlborough	Sewers SC: Phase V Low Pressure Sewer											3	2	6									11	\$4.3

Table 1: FY18/FY19 Project Priority List Point Score Derivation

Town	Description	I	IIA	IIB	3A1	3A2	3A3	3B1	3B2	3C1	3C2	3D1	3D2	IV	V	VIA	VIB	VIC	VID	VII	VIII	IX	Priority Points	Project Cost (\$M)
MDC	CSO: Tunnel Contracts 3, 4, 5, and Kane Brook	20	8							3				3	6								40	\$190.0
MDC	CSO: Green Infrastructure - Main Street	20	8							3				3	6								40	\$0.5
MDC	Hartford WPCF Upgrade: Improvements													12							28		40	\$40.0
MDC	Windsor WPCF Upgrade: Improvements													12							28		40	\$4.0
MDC	East Hartford WPCF Upgrade: Improvements													12							28		40	\$14.0
MDC	Sewers: Cedar Street Area													3	6								9	\$8.0
MDC	Sewers: Divident Brook Trunk Sewer													2	6								8	\$5.2
MDC	W. Hartford SSES Recommen.- Packages A & B													3									3	\$11.0
MDC	Wethersfield I/I Removal-Subareas RH2 and RH2B													3									3	\$9.4
MDC	Hartford Large Diameter Sanitary Sewer Rehab													3									3	\$16.7
MDC	Newington I/I Removal - Subareas N18 and N19													3									3	\$10.9
MDC	W. Hartford I/I -Subareas WH29, WH30, WH31													3									3	\$48.8
MDC	I/I: CMOM Program													3									3	\$10.0
MDC	Pump Station: Belamose Wastewater PS													3									3	\$8.0
Meriden	WPCF Upgrade: Phosphorous Removal	15	8										6	10									39	\$47.8
Middlebury	Pump Station: 4, 6, & 7 Rehabilitation													2									2	\$2.5
Middletown	I/I: Old Mill Road Project													2									2	\$0.8
Middletown	Sewers: CIPP Lining													12					5				17	\$1.4
Norwalk	Upgrade disinfection system on wet weather train																						1	\$3.2
Norwich	CSO: Sewer Separation Outfall #025	20	8							3				2	6								42	\$8.0
Old Lyme - Beach Assoc.	Sewers SC: Conveyance System to East Lyme	15												2	6								23	\$6.8
Old Lyme - MBA	Sewers SC: Collector Sewers	15												2	6								23	\$5.4
Old Lyme - OCBA	Sewers SC: Collector Sewers	15												2	6								23	\$4.7
Old Lyme - OLSBA	Sewers SC: Collector Sewers	15												2	6								23	\$5.0
Old Saybrook	Decentralized: On-site Septic Systems	15								3				2	6								26	\$6.0
Plainville	WPCF Upgrade: Phosphorous Removal	15	8										6	6									35	\$16.0
Plymouth	WPCF Upgrade: Phosphorous Removal	5	8										6	4									23	\$5.0
Putnam	Generators													6					5				11	\$1.2
Ridgefield	WPCF Upgrade: Phosphorous Removal	15	8											6	4								33	\$49.0
South Windsor	I/I: System Wide Rehabilitation													2									2	\$1.3
Southington	WPCF Upgrade: Phosphorous Removal	15	8											6	8						23		37	\$54.5
Sprague	WPCF Upgrade: Comprehensive Upgrade													2									25	\$13.0
Sprague	Sewers: Hanover PS Force Main													2	6								8	\$1.5
Stamford	Pump Station: Resiliency Upgrade													3									3	\$1.0
Stratford	Pump Station: Upgrade Equipment & Resiliency													3									3	\$12.0
Suffield	Sewers: Stony Brook Interceptor													3									8	\$2.1
Suffield	Pump Station: Comprehensive Upgrade													2									2	\$2.3
Thomaston	WPCF Upgrade: Phosphorous Removal	15	8										6	4									33	\$1.6
Torrington	WPCF Upgrade: Phosphorous Removal	15	8										6	8									37	\$72.3
Torrington	Sewers: 3-Barrel Siphone Chamber Upgrade													2	6								8	\$3.0
Torrington	Pump Station: Harris Road PS Upgrade													2									2	\$2.1
Vernon	WPCF Upgrade: Phosphorous Removal	15	8										6	10									39	\$95.0
Wallingford	WPCF Upgrade: Phosphorous Removal	15	8										6	8									37	\$28.0
Waterbury	WPCF Upgrade: Phosphorous Removal	15	8										6	12									41	\$32.0
West Haven	Outfall pipe: WPCF Effluent Outfall Line													12									12	\$18.0
West Haven	I/I: Sewer Rehabilitation													3									3	\$2.4
West Haven	Pump Station: Cove River PS Upgrade													3									3	\$4.4
West Haven	Pump Station: Main PS Upgrade													3									3	\$5.7
West Haven	Pump Station: Oyster River & Dawson PS Upgrade													3									3	\$9.9
Woodlake Tax District	WPCF Upgrade: Comprehensive Upgrade												6	2									16	\$1.8