

**New York City Department of Environmental Protection
Bureau of Water Supply**

Annual Report on FAD Budget and Staffing

September 2020

*Prepared in accordance with Section 9.0 of the NYSDOH
2017 Filtration Avoidance Determination*



Prepared by: DEP, Bureau of Water Supply

Staffing

Section 9.0 of the 2017 Filtration Avoidance Determination (FAD) requires that New York City Department of Environmental Protection (DEP) maintain the level of staffing, funding and expertise necessary to support all elements of the City's Long Term Watershed Protection Program. Annually, DEP is required to identify actual filled positions versus available positions for each division and section involved in supporting the watershed protection programs. Table 1 summarizes the current staffing level for each division and section involved in supporting the City's watershed protection programs. At the end of FY20, 91.8% of all positions within the Bureau of Water Supply have been filled.

DEP analyzes recent hiring trends to determine the best and most efficient way to maintain an appropriate level of staffing. Determining which positions should be advertised solely on the City of New York's internal advertising site, NYC Jobs, and which positions should also be advertised externally is crucial for us to maintain competency throughout all our Directorates as well as our various FAD Programs. In FY20, the Bureau of Water Supply advertised five key positions across eight different media platforms. Those positions included critical roles such as a Restoration Ecologist, two Project Manager positions, Forestry Program Data Coordinator and a Technical Advisor for Reservoir Releases and Policy Development.

Funding

Section 9.0 of the FAD requires that DEP provide written notification as to whether the City budget for the upcoming fiscal year includes sufficient funding to allow the City to meet its obligations under the FAD. Table 2 summarizes capital funds disbursed and appropriated for FY20 through FY24 to support existing and new obligations under the FAD programs. The table reflects the capital commitments contained in the April 2020 Executive Budget. The capital budget is adjusted from time to time throughout the year to meet program needs and accommodate schedule changes. Table 3 summarizes expense funds disbursed in FY20, budgeted for FY21, and planned for the outer years to support existing and new obligations of the FAD programs. Capital and Expense funds authorized by the NYC Office of Management and Budget (OMB) are sufficient to support the City's Long Term Watershed Protection Program.

Although DEP revenues fell only slightly below target in FY20, COVID-19 significantly affected the City's overall finances. The full impact is not yet known but the City remains committed to supporting the watershed protection program.

Contracts

Section 9.0 of the FAD also requires that DEP provide the status of key partnership contracts including contract issues (i.e., change orders, planning for successor contract) and funding projections. Table 4 summarizes the current contracts and planned contract actions with our watershed partners as of June 30, 2020. These contracts represent approximately half of all watershed protection contracts. The remaining contracts consist of: support services for the Land Acquisition Program, delegation agreements with county health departments, and contracts supporting the Waterfowl Management program, stormwater BMP maintenance, wetland LiDAR project and sanitary sewer mapping.

Water Rates

DEP's water and wastewater services are funded entirely by ratepayers. Rates borne by property owners are the only source of the revenue to support these services, which are essential for public health and quality of life. Given the current health crisis, and related fiscal impacts, DEP adopted a 0.0% rate increase for both in-City and upstate wholesale customers¹ in FY21. While other costs in New York City are higher for residents, the water rates are below the average for the thirty largest U.S. cities. With nearly 20% of the New York City population living below the federal poverty threshold, and another 25% earning less than 150% of the poverty level, it is imperative that DEP continue to strive to keep water and sewer rates as affordable as possible.

DEP is committed to providing relief for low income ratepayers². Several existing affordability programs for low-income homeowners and multi-family housing properties that are expected to benefit as many as 60,000 customers and 40,000 units, respectively, will continue during FY21 with a combined budget of \$20 million:

- The Home Water Assistance Program provides a bill credit of \$115 to 60,000 low income households. Income verification is performed by other governmental agencies, and eligible property lists are provided to DEP and the Water Board—customers do not need to apply or take other action to receive the credit.
- The Multifamily Water Assistance Program provides a bill credit of \$250 per affordable residential unit to up to 40,000 units located in multifamily properties with at least fifteen years remaining on a rental affordability agreement with either the NYC Department of Housing Preservation and Development or the NYC Housing Development Corporation. Considering the COVID-19 pandemic, DEP is not assessing the 10% surcharge for FY20, and will not include the 10% surcharge in the FY21 annual billing.
- The Leak Forgiveness Program is designed to provide financial relief to customers while also incentivizing water conservation. The program covers self-reported leaks that the property owner fixes and repaired leaks are eligible for 50% credit of the charges on the leak.
- Freezing the minimum charge. Customers who use less than 92 gallons per day are billed at the minimum water charge of \$1.27 per day, including wastewater charges. DEP freezing the minimum charge for the sixth consecutive year at the FY14 rate, benefitting many single family homeowners, including many senior citizens. For customers billed based on the minimum charge, the annual water and sewer bill is \$464 per year.

¹ The NYC FY21 rate schedule is available here:

https://www1.nyc.gov/assets/nycwaterboard/downloads/pdf/rates/fy2021_rates.pdf

² Information on the City's Customer Assistance Programs is available here: <https://www1.nyc.gov/site/dep/pay-my-bills/customer-assistance-programs.page>

Water Demand

Reducing water demand benefits the water supply system and New York City at large by increasing flexibility in our operations, reducing our energy footprint and greenhouse gas emissions (from treating less drinking water and wastewater), and keeping water bills affordable. The One Water NYC: Water Demand Management Plan identifies six key strategies for managing water demand in New York City, and details specific initiatives to be implemented between now and 2022 in order to achieve targeted water demand reductions³. Since the release of the 2013 Water Demand Management Plan, DEP has invested over \$50 million to achieve savings of approximately 10 million gallons of water per day (MGD). As DEP enters the sixth year of implementation, the 2018 Water Demand Management Plan presents DEP's goal to achieve an additional 10 MGD of savings by 2022.

One of the demand management strategies is the Municipal Water Efficiency Program which provides funding for water demand reduction projects in City-owned facilities. Under this program, DEP has completed over 35,000 fixture retrofits and upgrades in over 450 City facilities with interagency partners including the Department of Education, the Department of Parks and Recreation, the New York City Fire Department, and the City University of New York, Health and Hospitals Corporation, and the Department of Cultural Affairs—Brooklyn Botanic Garden. DEP has also evaluated its own wastewater treatment plants for water conservation opportunities and launched an annual water conservation challenge for treatment plant operators to implement best practices and monitor potable water use reductions, which has been completed at all 14 facilities.

³ The Water Demand Management Plan and additional information on conservation is available here: <https://www1.nyc.gov/site/dep/water/water-conservation.page>

Table 1. FY20 FAD Staffing

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Executive			
Deputy Commissioner	1	1	
Management & Support	4	4	
Community Water	5	4	1
Total Executive	10	9	0
Water Quality - Management			
Director - Water Quality	1	1	
Management & Support	6	6	
Subtotal	7	7	0
Water Quality - Distribution Water Quality Operations			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	12	12	
Wet Chemistry	9	8	1
Trace Metals	3	3	
Organic Chemistry	7	7	
Distribution Water Quality Field Operations - Management	1	1	
Field Operations	21	21	
Early Warning Remote Monitoring	6	6	
Distribution Water Quality Compliance - Management	1	1	
Data Management	8	7	1
Quality Assurance	4	4	
Procurement	2	2	
Health & Safety	1	1	
Distribution Science & Planning	4	4	
Subtotal	82	80	2
Water Quality - Watershed Water Quality Science & Research			
Management & Support	1	1	
Water Quality Modeling	4	4	
Water Quality Program Evaluation & Planning	4	4	
Watershed Impacts & Pathogen Assessment	4	3	1
Health Assessment & Policy Coordination	1	1	

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Subtotal	14	13	1
Water Quality - Watershed Water Quality Operations			
Management & Support	2	2	
Watershed Water Quality Systems Support	18	16	2
EOH Water Quality Operations	40	34	6
WOH Water Quality Operations	57	52	5
Subtotal	117	104	13
Total Water Quality	220	204	16
Upstate Police Force			
Chief	1	1	
Assistant Chief	1	1	
Inspector	2	2	
Captain	7	7	
Lieutenant	14	13	1
Sergeant	37	37	
Environmental Police Officers	159	151	8
Admin/Analytical/Clerical Support	30	29	1
Total Upstate Police Force	251	241	10
Watershed Protection Programs			
Director - Watershed Protection Programs	1	1	
Subtotal	1	1	0
Watershed Protection Programs - Watershed Lands & Community Planning			
Management & Support	1	1	
Land Acquisition	15	13	2
Community Planning	7	6	1
Stream Management	9	9	
Working Lands	2	2	
City Land Stewardship	14	11	3
Subtotal	48	42	6

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Watershed Protection Programs - Natural Resources Division			
Management & Support	2	2	
Ecological Research & Assessment	9	8	1
Forestry Programs	13	12	1
Wildlife Studies	3	3	
Subtotal	27	25	2
Watershed Protection Programs - Regulatory & Engineering Programs			
Management & Support	4	3	1
SEQRA Review & Administration	4	4	
Kingston Region	14	13	1
Arkville Region	9	6	3
Valhalla Region	17	13	4
Subtotal	48	39	9
Watershed Protection Programs - Core Services			
Management & Support	2	2	0
Contracts	1	1	
Budget	1	1	
Procurement	1	0	1
GIS Group	4	4	
Subtotal	9	8	1
Total Watershed Protection Programs	133	115	18
Planning			
Director - Planning	1	1	
Strategic Planning	2	2	
Capital Planning	14	13	1
Rondout West Branch Tunnel	4	4	
Emergency Planning	2	2	
Total Planning	23	22	1
Water Innovation and Research			
Director – Research Applications	1	1	
Management & Support	5	5	
Total Research Applications	6	6	

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Management Services & Budget			
Director - Management Services & Budget	1	1	
Management & Support	1	1	
Employee Services	1	1	
Human Resources	15	12	3
Facilities - Valhalla & Kingston	17	17	0
Upstate Fleet Services, Fuels & Chemicals	17	16	1
Procurement & Expense	26	23	3
Total Management Services & Budget	78	71	7
Source Water Operations			
Director - Source Water Operations	1	1	
Management & Support	1	1	
Subtotal	2	2	0
Source Water Operations Compliance & Technical Services			
Hazmat & Spill Management	5	4	1
Subtotal	5	4	1
Instrumentation SCADA			
Instrumentation & SCADA	3	3	
Subtotal	3	3	0
Source Water Operations - Water Operations			
Management & Support	3	3	
Compliance & Procurement	7	7	
Hydroelectric	8	7	1
Shaft Maintenance	9	8	1
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance	19	19	
Shokan Region - Management & Support	3	3	
Shokan Region - Maintenance	37	29	8
Downsville Region - Management & Support	1	1	
Downsville Region - Maintenance	27	25	2
Highlands Region - Management & Support	2	1	1
Highlands Region - Maintenance	42	40	2

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Engineering	3	3	
Subtotal	162	147	15
Source Water Operations - Engineering & Construction			
Management & Support	3	3	
Engineering & Construction	20	18	2
Subtotal	23	21	2
Source Water Operations - Reservoir Operations			
Management	1	0	1
Reservoir Operations	12	12	
Watershed Monitoring & Operations Support	8	8	
Subtotal	21	20	1
Source Water Operations - Wastewater			
Management & Support	6	6	
Wastewater Treatment Operations	42	39	3
Engineering & Tech Maintenance	12	11	1
Subtotal	60	56	4
Total Source Water Operations	276	253	23
Water Treatment Operations			
Director - Water Treatment Operations	1	1	
Management & Support	2	2	
Subtotal	3	3	0
Water Treatment Operation North			
Management & Support	3	3	
Operations	46	38	8
Instrumentation & Controls	4	3	1
Engineering	13	11	2
Trades	30	29	1
Field Maintenance	10	9	1
Subtotal	106	93	13
Water Treatment Operation South			
Management & Support	4	4	

Program Description	Budgeted Positions	FY20 Filled Positions	Positions in Pipeline
Operations	71	60	11
Instrumentation & Controls	5	5	
Engineering	4	4	0
Trades	29	27	2
Field Maintenance	16	16	
Subtotal	129	116	13
Quality Assurance			
Management & Support	2	2	
Quality Assurance	17	17	
Subtotal	19	19	0
Total Water Treatment Operations	257	231	26
Environmental Health & Safety			
Director - Environmental Health & Safety	1	1	
Management & Support	5	4	1
Facilities Compliance	18	16	2
Project & Field Compliance	5	4	1
Environmental Projects	5	5	
EH&S Core Services	6	6	
Total Environmental Health & Safety	40	36	4
Total Bureau of Water Supply	1294	1188	105
Percentage of Positions Filled = 91.8%			

Additional staff support for certain FAD Programs is provided by other units within DEP and the City including the Bureau of Engineering Design and Construction, the Bureau of Legal Affairs, the Office of Environmental Planning and Assessment, the Bureau of Public Affairs and the New York City Law Department.

Table 2. FY20 FAD Capital Budget

Programs		Contractor	FY20 Payments	Open Contract Amounts	FY21 Budget ⁴	FY22 Budget	FY23 Budget	FY24 Budget	Total Costs FY20-FY24
Environmental Infrastructure									
3.4	WWTP Upgrade Program	Environmental Facilities Corp.	\$663,521	\$31,641,056	\$0	\$0	\$0	\$0	\$32,304,577
3.4	Capital Equipment Replacement Program	Multiple Agreements	\$680,991	\$31,528,317	\$0	\$0	\$0	\$0	\$32,209,308
3.3	Community Wastewater Management	Catskill Watershed Corp.	\$8,604,000	\$27,669,000	\$1,000,000	\$0	\$0	\$0	\$37,273,000
3.1	Sewer System Extension Program	Multiple Agreements	\$579,461	\$479,812	\$0	\$0	\$0	\$0	\$1,059,273
3.5	Stormwater Retrofit WOH Program	Catskill Watershed Corp.	\$0	\$6,226,702	\$0	\$0	\$0	\$0	\$6,226,702
3.5	Future Stormwater Controls	Catskill Watershed Corp.	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protection/Remediation									
4.6	Flood Hazard Mitigation Program	Catskill Watershed Corp.	\$4,000,000	\$4,000,000	\$8,000,000	\$0	\$0	\$0	\$16,000,000
4.2	Land Acquisition Hard Costs ⁵	Multiple Agreements	\$2,710,944	\$7,982,867	\$11,869,000	\$7,000,000	\$5,000,000	\$3,131,000	\$37,693,811
4.2	Land Acquisition Soft Costs	Multiple Agreements	\$596,113	\$3,821,037	\$0	\$5,889,000	\$0	\$0	\$10,306,150
4.3	Land Management Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.4	Watershed Agricultural & Forestry Program	Watershed Agricultural Council	\$7,375,293	\$30,988,318	\$0	\$0	\$0	\$0	\$38,363,611
4.6	Stream Management Program	Multiple Agreements	\$6,126,174	\$40,310,251	\$0	\$3,700,000	\$0	\$0	\$50,136,425
4.9	EOH Non-Point Source Control	Multiple Agreements	\$16,685,286	\$8,815,544	\$0	\$0	\$0	\$0	\$25,500,830
4.10	Kensico Water Quality Programs	Multiple Agreements	\$5,123,182	\$9,246,793	\$0	\$0	\$0	\$0	\$14,369,975
4.11	Catskill Turbidity Control - Shaft 4	Multiple Agreements	\$34,964	\$1,183,051	\$0	\$0	\$0	\$0	\$1,218,016

⁴ Budget values reflect the approved Executive Budget (April 2020).

⁵ Includes funding for purchases and partner contracts including the Streamside Acquisition Program, Forest Conservation Easement Program and Flood Buyout Program.

Programs		Contractor	FY20 Payments	Open Contract Amounts	FY21 Budget ⁴	FY22 Budget	FY23 Budget	FY24 Budget	Total Costs FY20-FY24
Watershed Monitoring, Modeling & GIS									
5.1	Watershed Monitoring	Multiple Agreements	\$0	\$0	\$0	\$139,000	\$103,000	\$187,000	\$429,000
5.2	Modeling Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.3	Geographic Information System Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals			\$53,179,929	\$203,892,749	\$20,869,000	\$16,589,000	\$5,000,000	\$3,131,000	\$303,090,678

Table 3. FY20 FAD Expense Budget

Programs		Contractor	FY20 Disbursements	FY21	FY22	Total Costs FY20-FY22
SWTR Filtration Avoidance Criteria Requirements						
2.0	Watershed Program Expert Panel	NASEM	\$311,847	\$163,309	\$0	\$475,156
Environmental Infrastructure						
3.1	Septic and Sewer Programs	Catskill Watershed Corp.	\$15,800,000	\$8,200,000	\$8,200,000	\$32,200,000
3.2-3.4	WWTP O&M Programs	Multiple Purchases	\$16,589,682	\$18,856,244	\$18,056,244	\$53,502,170
3.5	Stormwater Programs	Catskill Watershed Corp.	\$0	\$800,199	\$800,199	\$1,600,398
	Catskill Watershed Corp Operating funds	Catskill Watershed Corp.	\$556,520	\$1,296,520	\$1,296,520	\$3,149,560
Protection/Remediation						
4.1	Waterfowl Management Program	HDR	\$1,437,858	\$1,790,144	\$1,800,000	\$5,028,002
4.2	Land Acquisition Program	Multiple Purchases	\$712,802	\$2,213,574	\$2,213,574	\$5,139,950
4.3	Land Management Program	Multiple Purchases	\$1,854,903	\$25,496	\$0	\$1,880,399
4.4-4.5	Watershed Agricultural & Forestry Program	WAC	\$6,046,001	\$7,776,824	\$8,300,331	\$22,123,156
4.6	Stream Management Program	Multiple Contracts	\$4,808,062	\$7,748,163	\$7,748,163	\$20,304,387
4.8	Ecosystem Protection	Multiple Purchases	\$436,802	\$463,414	\$980,923	\$1,881,139
4.9-4.10	EOH Nonpoint Source & Kensico Programs	Transit Construction Corp.	\$3,039,299	\$1,825,000	\$700,000	\$5,564,299
4.11	Catskill Turbidity Program	Multiple Contracts	\$0	\$0	\$0	\$0
Watershed Monitoring, Modeling & GIS						
5.1	Monitoring	Multiple Purchases	\$466,804	\$167,240	\$167,240	\$801,284
5.2	Modeling	Multiple Purchases	\$286,013	\$620,000	\$620,000	\$1,526,013
5.3	GIS	Multiple Purchases	\$286,597	\$379,170	\$379,170	\$1,044,937
Regulatory Program						
6.1	Delegation	Multiple County Contracts	\$327,975	\$491,028	\$491,028	\$1,310,031

Programs		Contractor	FY20 Disbursements	FY21	FY22	Total Costs FY20-FY22
6.1	EOH Future Stormwater Controls	Multiple Purchases	\$0	\$100,000	\$100,000	\$200,000
	Watershed Rules & Regulations		\$140,000	\$0	\$0	\$140,000
Catskill/Delaware Filtration Plant Design						
7.1	Catskill/Delaware Filtration Plant Design	Hazen & Sawyer	\$922,950	\$4,900,000	\$4,900,000	\$10,722,950
In-City Programs						
8.1	WDRAP	NYC Dept. of Health	\$14,410	\$20,000	\$20,000	\$54,410
Education & Outreach						
10	Public Education	Catskill Watershed Corp.	\$198,243	\$235,000	\$235,000	\$668,243
Totals			\$54,236,769	\$58,071,325	\$57,008,391	\$169,316,485

Table 4. FAD Contract Status Report

Streamside Acquisition Program (Catskill Center)

Contract Information:

Description: CAT-435
This program provides funding for the Catskill Center to act as an agent for DEP, allowing the City to permanently acquire critical lands with riparian buffers.
Start Date: 07/15/2015
End Date: 07/13/2022

Budget Information:

Total Contract Cost:	\$8,000,000
Total payments as of 06/30/20:	\$3,813,455
Available Contract Balance:	\$4,186,545
Amounts in Reserve:	\$606,641

Contract Actions:

The 2017 FAD required the City to add \$3 million to the current contract within 18 months of the FAD being executed. That contract amendment was approved on 07/18/2019.

The 2017 FAD also requires the City to make available an additional \$8 million within 18 months of a written determination to expand and extend the Program beyond the current pilot area (Schoharie Basin) following a formal evaluation to be completed by 12/15/2020. If it is decided to expand and extend the Program, the City will execute a new contract.

Local Consultation Fund (CWC)

Contract Information:

Description: CATWAT5
This program covers eligible costs to communities related to their review of the City's proposed land acquisitions.
Start Date: 04/07/1997
End Date: 08/25/2026

Budget Information:

Total Contract Cost:	\$1,500,000
Total payments as of 06/30/20:	\$173,940
Available Contract Balance:	\$1,326,060
Amounts in Reserve:	\$0

Contract Actions:

Per the 2017 FAD, a contract amendment was registered on 02/15/2018 to increase the funding from \$30,000 to \$40,000 for each incorporated town and village, and to make available up to \$5,000 for municipalities to review DEP's updated Town Level Assessments.

**Community Wastewater Management Program III
(CWC)**

Contract Information:

Description: DEL-392
This program allows CWC to administer funds to establish septic maintenance districts or construct community septic systems for communities identified in the MOA.

Start Date: 02/25/2014

End Date: 02/23/2024

Budget Information:

Total Contract Cost:	\$38,100,000
Total payments as of 06/30/20:	\$34,431,000
Available Contract Balance:	\$3,669,000
Amounts in Reserve:	\$28,731,953

Contract Actions:

DEP has met prior obligations of funding \$37,200,000 in earlier contracts. The current contract, DEL-392, was amended in 2019 to add \$8.6 million to reflect increased cost estimate of the remaining block grant.

**Shokan Wastewater Treatment Plant
(CWC)**

Contract Information:

Description: CAT-483
Contract to design and build a wastewater treatment plant for the Town of Shokan.

Start Date: 12/1/2017

End Date: 12/1/2024

Budget Information:

Total Contract Cost:	\$25,000,000
Total payments as of 06/30/20:	\$200,000
Available Contract Balance:	\$24,800,000
Amounts in Reserve:	\$2,697

Contract Actions:

Contract registered on 6/5/2019. CWC was allowed to borrow funds from the Catskill Fund for the Future to initiate the planning phase of the project and the contract start date was retroactive to allow repayment of those initial funds. DEP will seek to secure additional funding and amend the contract to reflect the current anticipated project cost.

**Future Stormwater Controls (MOA 128)
(CWC)**

Contract Information:

Description: CAT-482
This program funds the design, construction, and maintenance of stormwater controls and individual residential stormwater plans located West of Hudson.
Start Date: 05/21/2019
End Date: 05/21/2021

Budget Information:

Total Contract Cost:	\$4,720,869
Total payments as of 06/30/20:	\$4,720,869
Available Contract Balance:	\$0
Amounts in Reserve:	\$4,720,869

Contract Actions:

The original Stormwater Controls contract, CATWAT3 (\$31.7 million), was registered at the time of the MOA and has since been closed. CWC still has approximately \$14,152,883 remaining of those original funds after transferring approximately \$18 million to other CWC programs. The current CAT-482 contract amount of \$4,720,869 is a requirement of the 2017 FAD.

**Future Stormwater Controls (MOA 145)
(CWC)**

Contract Information:

Description: CAT-449
This program funds the design and implementation of stormwater controls for new residences, small businesses and low-income housing both West of Hudson and East of Hudson.
Start Date: 12/01/2018
End Date: 11/28/2028

Budget Information:

Total Contract Cost:	\$2,500,000
Total payments as of 06/30/20:	\$1,569,421
Available Contract Balance:	\$930,579
Amounts in Reserve:	\$871,334

Contract Actions:

Cash flow for this program was analyzed and an amendment to add \$2,500,000 is currently under review by the ACCO's Office.

**Local Flood Hazard Mitigation Program
(CWC)**

Contract Information:

Description: CAT-442
 This program allows CWC to work with watershed communities to review their towns' local flood assessments and determine any mitigation thereof.

Start Date: 06/01/2015
 End Date: 05/29/2025

Budget Information:

Total Contract Cost: \$17,000,000
 Total payments as of 06/30/20: \$10,732,000
 Available Contract Balance: \$6,268,000
 Amounts in Reserve: \$3,024,752
 Estimated Burn Rate per year:
 Funding Depleted by:

Contract Actions:

DEP anticipates that a successor contract will be needed prior to 2025. Since more projects have required expense funding than originally anticipated, \$3 million has been transferred from capital to expense without any change in the total contract cost.

**Public Education Program
(CWC)**

Contract Information:

Description: CAT-436
 This program allows CWC to administer the public education grants program.

Start Date: 04/25/2014
 End Date: 04/23/2021

Budget Information:

Total Contract Cost: \$1,526,138
 Total payments as of 06/30/20: \$1,283,372
 Available Contract Balance: \$242,766
 Amounts in Reserve: \$5,474
 Estimated Burn Rate per year: \$225,000
 Funding Depleted by: 06/30/2021

Contract Actions:

Since the previous burn rate of \$200,000 per year has increased, an amendment has been registered to add \$100,000 to support the program in the short-term. DEP anticipates processing a renewal in late 2020 to extend this contract for five years.

Septic Maintenance Program (CWC)

Contract Information:

Description: DEL-218
This program allows CWC to assist qualifying landowners with septic pump-outs throughout the WOH watershed.

Start Date: 07/15/2003

End Date: 07/14/2023

Budget Information:

Total Contract Cost:	\$1,500,000
Total payments as of 06/30/20:	\$1,500,000
Available Contract Balance:	\$0
Amounts in Reserve:	\$1,081,909
Estimated Burn Rate per year:	\$55,000
Funding Depleted by:	06/30/2027

Contract Actions:

The contract term was extended to 07/14/2023 in 2018 and eligibility for the program was also expanded. DEP anticipates that expanded eligibility may increase the program burn rate.

Septic Repair Program (CWC)

Contract Information:

Description: CAT-415 & CAT-484
This program allows CWC to repair eligible septic systems in the WOH watershed.

Start Date: 12/01/2012 (CAT-415),
02/14/2017 (CAT-484)

End Date: 12/01/2022 (CAT-415),
02/12/2027 (CAT-484)

Budget Information:

Total Contract Cost (CAT-415):	\$46,800,000
Total payments as of 06/30/20:	\$44,824,466
Available Contract Balance:	\$1,975,534
Amounts in Reserve:	\$6,596,324
Total Contract Cost (CAT-484):	\$86,000,000
Total Payments as of 06/30/20:	\$12,200,000
Available Contract Balance:	\$73,800,000
Amounts in Reserve:	\$12,073,764

Contract Actions:

The Septic III contract (CAT-355) was previously extended until 07/19/2023 with a balance of approximately \$5.5 million that is not shown in the Reserve Amount above. The Septic IV contract (CAT-415) is currently active, and DEP anticipates making the final payment during FY21. The successor Septic V contract (CAT-484) was registered on 07/27/2019.

**Stormwater Retrofit Program
(CWC)**

Contract Information:

Description: CATWAT9 & CAT-414
This program addresses existing stormwater runoff issues through the planning, design, and construction of stormwater retrofits.

Start Date: 04/23/1997 (CATWAT9),
02/25/2014 (CAT-414)
End Date: 04/23/2022 (CATWAT9),
02/22/2024 (CAT-414)

Budget Information:

Total Contract Cost (CATWAT9):	\$17,548,050
Total payments as of 06/30/20:	\$15,324,796
Available Contract Balance:	\$2,223,255
Amounts in Reserve:	\$469,765
Total Contract Cost (CAT-414):	\$7,056,000
Total Payments as of 06/30/20:	\$1,529,127
Available Contract Balance:	\$5,526,873
Amounts in Reserve:	\$625,235

Contract Actions:

There are currently two active contracts for the Stormwater Retrofit Program. The original CATWAT9 contract has a total cost of \$17,548,050, of which more than \$2.2 million remains available. Both the expense and capital portions of this contract have been extended through 04/23/2022. The successor contract (CAT-414) remains open until 02/22/2024 with over \$5.5 million still available.

**CWC Operating Expenses
(CWC)**

Contract Information:

Description: CAT-412 (Renewal)
This program allows CWC to operate their organization and maintain their office building.

Start Date: 06/07/2019
End Date: 06/05/2024

Budget Information:

Total Contract Cost:	\$2,482,600
Total payments as of 06/30/20:	\$556,520
Available Contract Balance:	\$1,926,080
Amounts in Reserve:	\$343,660
Estimated Burn Rate per year:	TBD
Funding Depleted by:	12/30/2020

Contract Actions:

CAT-412 was renewed on 10/16/2019 with a retroactive start date of 06/07/2019. The successor contract, (CAT-486), is pending registration with an anticipated registration in late 2020, to support a significantly increased burn rate now that the new Arkville building is operational.

**East of Hudson Stormwater Grant Program
(East of Hudson Watershed Corp)**

Contract Information:

Description: CRO-574
 This program allows East of Hudson Watershed Corp. to design and construct stormwater retrofits in the EOH FAD basins and in basins connected to the Croton Falls Reservoir.
 Start Date: 06/20/2019
 End Date: 06/17/2029

Budget Information:

Total Contract Cost:	\$22,000,000
Total payments as of 06/30/20:	\$15,000,000
Available Contract Balance:	\$7,000,000
Amounts in Reserve:	\$11,420,825

Contract Actions:

The CRO-574 contract registered on 06/20/2019 and the initial payment of \$15,000,000 was made on 08/9/2019.

**EOH/Kensico Septic Rehabilitation & Reimbursement Program
(Environmental Facilities Corporation)**

Contract Information:

Description: CRO-495
 This program assists with the construction and maintenance of septic systems in the EOH and Kensico Basins.
 Start Date: 01/05/2009
 End Date: 01/05/2020

Budget Information:

Total Contract Cost:	\$2,800,000
Total payments as of 06/30/20:	\$2,800,000
Available Contract Balance:	\$0
Amounts in Reserve:	\$2,214,450

Contract Actions:

An amendment to extend this contract until 01/05/2022 was registered on 09/04/19.

Capital Replacement II

(New England Interstate Water Pollution Control Commission)

Contract Information:

Description: DEL-437
This program allows NEIWPCC to provide assistance to the City in the administration of the Regulatory Upgrade, Capital Replacement and Future Regulatory Upgrades Programs.

Start Date: 07/30/2019

End Date: 07/30/2029

Budget Information:

Total Contract Cost:	\$12,850,000
Total payments as of 06/30/20:	\$680,991
Available Contract Balance:	\$12,169,009
Amounts in Reserve:	\$551,576

Contract Actions:

The original Capital Replacement contract, CAT-445 (\$7,340,000), was registered on 08/07/2015 with New York State Environmental Facilities Corp. (EFC). EFC has decided to discontinue their administration of this program, so the City has since contracted with the New England Interstate Water Pollution Control Commission (NEWIPCC) for these services. The new DEL-437 contract with NEIWPCC registered on 07/26/2019 in the amount of \$12,850,000.

East of Hudson Community Wastewater Grant Program

(New England Interstate Water Pollution Control Commission)

Contract Information:

Description: CRO-597
This program will allow NEWIPCC to provide grant assistance to fund engineering studies which will evaluate water solutions for poorly functioning individual septic systems.

Start Date: 12/31/2019

End Date: 12/29/2022

Budget Information:

Total Contract Cost:	\$3,300,000
Total payments as of 06/30/20:	\$2,500,000
Available Contract Balance:	\$800,000
Amounts in Reserve:	\$2,468,830

Contract Actions:

CRO-597 registered on 12/01/2019 with a Start Date of 12/31/2019.

Ashokan Stream Management Program
(Cornell Cooperative Extension of Ulster County)

Contract Information:

Description: CAT-437 & CAT-493
 This program allows Cornell Cooperative Extension (CCE) to develop and implement stream management plans in the Ashokan basin.

Start Date: 09/01/2014 (CAT-437),
 10/01/2019 (CAT-493)
 End Date: 09/30/2019 (CAT-437),
 09/30/2024 (CAT-493)

Budget Information:

Total Contract Cost (CAT-437):	\$6,266,952
Total payments as of 06/30/20:	\$5,724,983
Available Contract Balance:	\$0
Amounts in Reserve:	\$0
Total Contract Cost (CAT-493):	\$10,564,242
Total Payments as of 06/30/20:	\$1,668,779
Available Contract Balance:	\$8,895,463
Amounts in Reserve:	\$995,399

Contract Actions:

The successor contract, CAT-493, registered on 10/02/19 and was backdated to begin on 10/01/2019. Although CAT-437 was extended until 12/31/2019, it was terminated as of 09/30/2019 to allow CAT-493 to begin on 10/01/2019.

Ashokan Stream Management Program
(Ulster County Soil and Water Conservation District)

Contract Information:

Description: CAT-446 & CAT-494
 This program allows the Ulster County Soil & Water Conservation District (SWCD) to develop and implement stream management plans in the Ashokan basin.

Start Date: 04/01/2015 (CAT-446),
 03/01/2020 (CAT-494)
 End Date: 02/29/2020 (CAT-446),
 03/01/2025 (CAT-494)

Budget Information:

Total Contract Cost (CAT-446):	\$7,453,818
Total payments as of 06/30/20:	\$5,743,123
Available Contract Balance:	\$0
Amounts in Reserve:	\$0
Total Contract Cost (CAT-494):	\$12,209,043
Total Payments as of 06/30/20:	\$831,250
Available Contract Balance:	\$11,377,793
Amounts in Reserve:	\$650,420

Contract Actions:

The successor contract, CAT-494, registered on 01/29/2020 with a Start Date of 03/01/2020. CAT-446 was terminated one month early as of February 29, 2020 to allow CAT-494 to begin on 03/01/2020.

Delaware Stream Management Program
(Delaware County Soil and Water Conservation District)

Contract Information:

Description: DEL-406 & DEL-436
 This program allows the Delaware County Soil & Water Conservation District (SWCD) to develop and implement stream management plans in the Delaware basin.

Start Date: 10/01/2014 (DEL-406),
 07/01/2020 (DEL-436)
 End Date: 06/30/2020 (DEL-406),
 07/01/2025 (DEL-436)

Budget Information:

Total Contract Cost (DEL-406):	\$13,326,000
Total payments as of 06/30/20:	\$12,551,583.66
Available Contract Balance:	\$774,416
Amounts in Reserve:	\$0
Total Contract Cost (DEL-436):	\$20,042,976
Total Payments as of 06/30/20:	\$0
Available Contract Balance:	\$20,042,976
Amounts in Reserve:	\$0

Contract Actions:

The current DEL-406 contract was extended until 06/30/2020. Due to delays specifically related to the COVID-19 pandemic, registration of the successor contract (DEL-436) has been delayed. Contract registered on 8/21/2020 with a Start Date of 07/01/2020.

Rondout-Neversink Stream Management Program
(Sullivan County Soil and Water Conservation District)

Contract Information:

Description: CAT-443 & CAT-495
 This program allows the Sullivan County Soil & Water Conservation District (SWCD) to develop and implement stream management plans in the Rondout-Neversink basin.

Start Date: 03/01/2015 (CAT-443),
 02/28/2020 (CAT-495)
 End Date: 02/20/2020 (CAT-443),
 02/26/2025 (CAT-495)

Budget Information:

Total Contract Cost (CAT-443):	\$6,569,618
Total payments as of 06/30/20:	\$6,068,724
Available Contract Balance:	\$0
Amounts in Reserve:	\$0
Total Contract Cost (CAT-495):	\$8,672,057
Total Payments as of 06/30/20:	\$2,725,906
Available Contract Balance:	\$5,946,151
Amounts in Reserve:	\$0

Contract Actions:

The successor contract, CAT-495, registered on 03/11/20 with a Start Date of 02/28/2020. CAT-443 expired as of 02/20/2020.

Schoharie Stream Management Program
(Greene County Soil and Water Conservation District)

Contract Information:

Description: CAT-444 & CAT-496
 This program allows the Greene County Soil & Water Conservation District (SWCD) to develop and implement stream management plans in the Schoharie basin.

Start Date: 04/01/2015 (CAT-444),
 01/01/2020 (CAT-496)
 End Date: 12/31/2019 (CAT-444),
 12/30/2024 (CAT-496)

Budget Information:

Total Contract Cost (CAT-444):	\$12,881,546
Total payments as of 06/30/20:	\$8,081,100
Available Contract Balance:	\$0
Amounts in Reserve:	\$0
Total Contract Cost (CAT-496):	\$17,392,419
Total Payments as of 06/30/20:	\$2,385,940
Available Contract Balance:	\$15,006,479
Amounts in Reserve:	\$1,885,347

Contract Actions:

The successor contract, CAT-496, registered on 11/01/2019 with a Start Date of 01/01/2020. CAT-444 was terminated as of 12/31/2019 to allow CAT-496 to begin on 01/01/2020.

Agricultural & Forestry Program
(Watershed Agricultural Council)

Contract Information:

Description: CAT-487
 This program allows WAC to continue to engage farmers and forest landowners to promote the stewardship of family farms and sustainable forests in the Watershed.

Start Date: 04/01/2019
 End Date: 03/30/2025

Budget Information:

Total Contract Cost:	\$92,058,521
Total payments as of 06/30/20:	\$18,147,328
Available Contract Balance:	\$73,911,193
Amounts in Reserve:	\$2,674,881

Contract Actions:

The CAT-487 contract (successor to the CAT-433 contract) registered on 04/01/2019 and is an active contract.

Farm & Forestry Easement Program
(Watershed Agricultural Council)

Contract Information:

Description: CAT-403
This program allows WAC to acquire conservation easements on watershed farms and forest lands.

Start Date: 06/27/2013

End Date: 12/31/2020

Budget Information:

Total Contract Cost:	\$29,000,000
Total payments as of 06/30/20:	\$22,213,678
Available Contract Balance:	\$6,786,322
Amount in Reserve:	\$44,050

Contract Actions:

The 2017 FAD requires the City to add \$11 million by 03/31/2020 to support the WAC Farm Easement Program. The 2017 FAD also requires the City to add another \$8 million to extend the WAC Forestry Easement Pilot Program within 18 months of a written determination from the FAD regulators following a formal evaluation that is now scheduled to be completed by 12/31/2019 (one year early). To address both of these FAD funding requirements, DEP has submitted for registration a successor contract (CAT-503) that is anticipated to register by the end of the year; this new contract includes \$11 million for the Farm Easement Program and \$8 million for the Forestry Easement Program in the event this latter program is extended.

Bedford Wastewater Consolidation Project
(Town of Bedford)

Contract Information:

Description: CRO-579
This program allows the Town of Bedford to create one larger sewer district by combining four existing wastewater treatment plants.

Start Date: 07/02/2019

End Date: 07/01/2024

Budget Information:

Total Contract Cost:	\$13,350,000
Total payments as of 06/30/20:	\$5,500,000
Available Contract Balance:	\$7,850,000
Amounts in Reserve:	\$0

Contract Actions:

The CRO-579 contract registered on 07/02/2019 and is an active contract.