

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

**Annual Report on FAD Budget and Staffing**

**September 2021**

*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 FY21, 89.9% of all positions within the Bureau of Water Supply have been filled. However, these vacancies are not evenly spread across the Bureau and some Sections have significant staffing shortages.

DEP analyzes recent hiring trends to determine the best and most efficient way to maintain our current 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 the Bureau of Water Supply to maintain consistency throughout all its Directorates and various FAD Programs. In FY21, due to the COVID pandemic, the Bureau of Water Supply did not do any external advertising and only filled critical, high-level positions through internal postings.

## **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 FY21 through FY25 to support existing and new obligations under the FAD programs. The table reflects the capital commitments contained in the April 2021 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 FY21, budgeted for FY22, and planned for the outer years to support existing and new obligations under the FAD programs. Capital and expense funds provided by the NYC Office of Management and Budget (OMB) are sufficient to support the City's Long Term Watershed Protection Program.

The COVID pandemic resulted in several new workflows and procedures in FY21. Most notably, a digital platform for processing procurements and contract payments was quickly implemented to address the pandemic-related office closures. While there was a learning curve for City staff and external partners, this workflow has performed well and is a more efficient process overall. During FY21, additional approvals were required for most procurements, contract payments and all contract actions. This, combined with the challenges of telework for City staff and program partners and the new workflow for payments, resulted in some payment delays. However, budgets for the FAD contracts and wastewater treatment plant operation and maintenance obligations were not impacted. Despite the challenges resulting from the pandemic, DEP made more than \$98 million in payments to support FAD programs in FY21.

## **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 DEP’s watershed partners as of June 30, 2021. 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. In total, there are approximately 60 formal contracts supporting the watershed protection program.

## **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 local public health and quality of life and are highly regulated at the state and federal levels. DEP adopted a 2.76% rate increase in FY22 for both in-City and north of the City customers<sup>1</sup>. While other costs in New York City are higher for residents, the water rates remain 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 20% 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 rate payers and managing the system demand<sup>2</sup>. In FY22, the existing affordability programs for low-income homeowners and multi-family housing properties will be expanded by \$10 million. These programs are expected to benefit as many as 96,000 small property owners and 48,000 affordable apartment units, respectively, reflecting up to an additional 45,000 new customers and up to an additional 8,000 affordable apartment units.

- The Home Water Assistance Program will be expanded by \$8 million to provide an increased bill credit of \$145 to up to 96,000 low income households. Customers do not need to apply or take other action to receive the credit, since DEP and the Water Board work with other governmental entities to identify eligible properties.
- The Multifamily Water Assistance Program, which provides a bill credit of \$250 per affordable residential unit, will be expanded by up to \$2 million to include up to 48,000 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. The ranking formula first introduced in FY19, that allocates credits by assigning a preference to the most affordable units, based on area median income, would continue to be used in FY22.
- Customers who use less than 902 gallons per day are billed at the minimum water charge of \$1.27 per day, including wastewater charges. DEP proposes to freeze the minimum charge for the sixth consecutive year at the FY14 rate, benefitting many single-family

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<sup>1</sup> The entitlement rate for upstate customers rose 8.82% but the excess rate equaled the in-City rate increase. The full NYC FY22 rate schedule is available here:

[https://www1.nyc.gov/assets/nycwaterboard/downloads/pdf/rates/fy2022\\_rates.pdf](https://www1.nyc.gov/assets/nycwaterboard/downloads/pdf/rates/fy2022_rates.pdf)

<sup>2</sup> Information on the City’s Customer Assistance Programs is available here:

<https://www1.nyc.gov/site/dep/pay-my-bills/financial-assistance-programs.page>

homeowners, including many senior citizens. For customers billed based on the minimum charge, the annual water and sewer bill is \$464 per year.

- 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.

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 reductions<sup>3</sup>. Although the COVID-19 pandemic temporarily paused some of DEP's water conservation initiatives, DEP's Water Demand Management Program continues to make progress towards achieving the 20 million gallons per day (MGD) of water savings goal established in the 2018 Water Demand Management Plan.

One of the demand management strategies is the Municipal Water Efficiency Program which provides funding for water demand reduction projects in City-owned facilities. Despite pandemic-related challenges, DEP was able to complete municipal building retrofits in partnership with the NYC Department of Citywide Administrative Services, and water-saving equipment upgrades in DEP's Water Resource Recovery Facilities. DEP also made considerable progress with moving forward on four capital projects: water recirculation project in Central Park, valve replacement project in Prospect Park, fixture retrofits in New York City public school facilities, and fixture retrofits in a City College of New York facility. Through the Municipal Water Efficiency Program, DEP will continue to advance water efficiency, metering, education, reuse, and water loss control in City-owned facilities.

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<sup>3</sup> 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. FY21 FAD Staffing**

<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
<b>Executive</b>			
Deputy Commissioner	1	1	
Management & Support	8	8	
Operational and Water Quality Modeling	9	8	1
<b>Total Executive</b>	<b>19</b>	<b>18</b>	<b>1</b>
<b>Water Quality &amp; Innovation</b>			
Director - Water Quality	1	1	
Management & Support	7	6	
<b>Subtotal</b>	<b>8</b>	<b>7</b>	<b>1</b>
<b>Water Quality &amp; Innovation - Distribution Water Quality Operations</b>			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	12	10	2
Wet Chemistry	8	8	
Trace Metals	3	3	
Organic Chemistry	6	6	
Distribution Water Quality Field Operations - Management	1	1	
Field Operations	17	16	1
Early Warning Remote Monitoring	6	5	1
Distribution Water Quality Compliance - Management	1	0	1
Data Management	4	3	1
Quality Assurance	3	2	1
Procurement	2	1	1
Health & Safety	1	0	1
Distribution Science & Planning	4	3	1
<b>Subtotal</b>	<b>71</b>	<b>61</b>	<b>10</b>
<b>Water Quality &amp; Innovation - Watershed Water Quality Operations</b>			
Management & Support	3	3	
Watershed Water Quality Systems Support	18	16	2
EOH Water Quality Operations	36	36	
WOH Water Quality Operations	49	49	
<b>Subtotal</b>	<b>106</b>	<b>104</b>	<b>2</b>

<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
<b>Water Quality &amp; Innovation – Water Innovation &amp; Research</b>			
Management & Support	1	0	1
Water Quality Program Evaluation & Planning	5	4	1
Watershed Impacts & Pathogen Assessment	3	3	
Health Assessment & Policy Coordination	1	1	
<b>Subtotal</b>	<b>10</b>	<b>8</b>	<b>2</b>
<b>Total Water Quality &amp; Innovation</b>	<b>195</b>	<b>180</b>	<b>15</b>
<b>Upstate Police Force</b>			
Chief	1	1	
Inspector	2	2	
Deputy Inspector	1	1	
Captain	7	5	2
Lieutenant	14	13	1
Sergeant	37	36	1
Environmental Police Officers	159	169	-10
Admin/Analytical/Clerical Support	30	29	1
<b>Total Upstate Police Force</b>	<b>251</b>	<b>256</b>	<b>-5</b>
<b>Watershed Protection Programs</b>			
Director - Watershed Protection Programs	1	1	
<b>Subtotal</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Watershed Protection Programs - Watershed Lands &amp; Community Planning</b>			
Management & Support	2	1	1
Land Acquisition	16	11	5
Community Planning	7	5	2
Stream Management	9	7	2
Working Lands	2	1	1
City Land Stewardship	15	11	4
<b>Subtotal</b>	<b>51</b>	<b>36</b>	<b>15</b>



<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
<b>Watershed Protection Programs - Natural Resources Division</b>			
Management & Support	2	2	
Ecological Research & Assessment	9	8	1
Forestry Programs	13	12	1
Wildlife Studies	3	3	
<b>Subtotal</b>	<b>27</b>	<b>25</b>	<b>2</b>
<b>Watershed Protection Programs - Regulatory &amp; Engineering Programs</b>			
Management & Support	4	3	1
SEQRA Review & Administration	4	4	
Kingston Region	15	13	2
Arkville Region	9	6	3
Valhalla Region	18	14	4
<b>Subtotal</b>	<b>50</b>	<b>40</b>	<b>10</b>
<b>Watershed Protection Programs - Core Services</b>			
Management & Support	2	2	
Contracts	1	1	
Budget	1	1	
Procurement	1	0	1
GIS Group	4	4	
<b>Subtotal</b>	<b>9</b>	<b>8</b>	<b>1</b>
<b>Total Watershed Protection Programs</b>	<b>138</b>	<b>110</b>	<b>28</b>
<b>Planning</b>			
Director - Planning	1	1	
Strategic Planning	2	2	
Capital Planning	13	11	2
Rondout West Branch Tunnel	4	4	
Emergency Planning	2	2	
<b>Total Planning</b>	<b>22</b>	<b>20</b>	<b>2</b>
<b>Management Services &amp; Budget</b>			
Director - Management Services & Budget	1	1	
Management & Support	1	1	
Employee Services	1	1	
Human Resources	15	12	3

<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
Facilities - Valhalla & Kingston	20	18	2
Upstate Fleet Services, Fuels & Chemicals	13	11	2
Procurement & Expense	30	27	3
<b>Total Management Services &amp; Budget</b>	<b>81</b>	<b>71</b>	<b>10</b>
<b>Source Water Operations</b>			
Director - Source Water Operations	1	1	
Management & Support	1	0	1
<b>Subtotal</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Source Water Operations Compliance &amp; Technical Services</b>			
Hazmat & Spill Management	4	3	1
<b>Subtotal</b>	<b>4</b>	<b>3</b>	<b>1</b>
<b>Instrumentation SCADA</b>			
Instrumentation & SCADA	3	3	
<b>Subtotal</b>	<b>3</b>	<b>3</b>	<b>0</b>
<b>Source Water Operations - Water Operations</b>			
Management & Support	3	3	
Compliance & Procurement	6	5	1
Hydroelectric	7	6	1
Shaft Maintenance	9	7	2
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance	19	17	2
Shokan Region - Management & Support	3	1	2
Shokan Region - Maintenance	37	33	4
Downsville Region - Management & Support	1	1	
Downsville Region - Maintenance	27	24	3
Highlands Region - Management & Support	3	2	1
Highlands Region - Maintenance	42	38	4
Engineering	3	1	2
<b>Subtotal</b>	<b>161</b>	<b>139</b>	<b>22</b>
<b>Source Water Operations - Engineering &amp; Construction</b>			
Management & Support	3	3	
Engineering & Construction	19	16	3

<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
<b>Subtotal</b>	<b>22</b>	<b>19</b>	<b>3</b>
<b>Source Water Operations - Reservoir Operations</b>			
Management	1	1	
Reservoir Operations	16	14	2
Watershed Monitoring & Operations Support	7	6	1
<b>Subtotal</b>	<b>24</b>	<b>21</b>	<b>3</b>
<b>Source Water Operations - Wastewater</b>			
Management & Support	7	7	
Wastewater Treatment Operations	40	37	3
Engineering & Tech Maintenance	11	9	2
<b>Subtotal</b>	<b>58</b>	<b>53</b>	<b>5</b>
<b>Total Source Water Operations</b>	<b>274</b>	<b>239</b>	<b>35</b>
<b>Water Treatment Operations</b>			
Director - Water Treatment Operations	1	1	
Management & Support	2	2	
<b>Subtotal</b>	<b>3</b>	<b>3</b>	<b>0</b>
<b>Water Treatment Operation North</b>			
Management & Support	3	3	
Operations	58	49	9
Instrumentation & Controls	6	6	
Engineering	10	5	5
Trades	30	28	2
Field Maintenance	12	10	2
<b>Subtotal</b>	<b>119</b>	<b>101</b>	<b>18</b>
<b>Water Treatment Operation South</b>			
Management & Support	4	4	
Operations	73	63	10
Instrumentation & Controls	5	4	1
Engineering	6	5	1
Trades	31	27	4
Field Maintenance	15	11	4
<b>Subtotal</b>	<b>134</b>	<b>114</b>	<b>20</b>

<b>Program Description</b>	<b>Budgeted Positions</b>	<b>FY21 Filled Positions</b>	<b>Positions in Pipeline</b>
<b>Quality Assurance</b>			
Management & Support	1	1	
Quality Assurance	11	11	
<b>Subtotal</b>	<b>12</b>	<b>12</b>	<b>0</b>
<b>Total Water Treatment Operations</b>	<b>268</b>	<b>230</b>	<b>38</b>
<b>Environmental Health &amp; Safety</b>			
Director - Environmental Health & Safety	1	1	
Management & Support	3	2	1
Facilities Compliance	18	16	2
Project & Field Compliance	6	5	1
Environmental Projects	4	3	1
EH&S Core Services	7	6	1
<b>Total Environmental Health &amp; Safety</b>	<b>39</b>	<b>33</b>	<b>6</b>
<b>Total Bureau of Water Supply</b>	<b>1280</b>	<b>1151</b>	<b>129</b>
<b>Percentage of Positions Filled = 89.9%</b>			

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 Bureau of Environmental Planning and Assessment, the Bureau of Public Affairs and Communications, and the New York City Law Department.

Please note, the Bureau of Police & Security always show an over hire when they run a police academy. They are now back below authorized headcount.

**Table 2. FY21 FAD Capital Budget**

Programs		Contractor	FY21 Payments	Open Contract Amounts	FY22 Budget <sup>4</sup>	FY23 Budget	FY24 Budget	FY25 Budget	Total Costs FY21-FY25
<b>Environmental Infrastructure</b>									
3.1	Sewer System Extension Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3	Community Wastewater Management	Catskill Watershed Corp.	\$27,059,000	\$610,000	\$0	\$24,120,000	\$0	\$0	\$51,789,000
3.4	WWTP Upgrade Program	EFC, NEIWPCC	\$0	\$31,641,056	\$0	\$0	\$0	\$0	\$31,641,056
3.4	Capital Equipment Replacement Program	NEIWPCC	\$8,770,432	\$17,257,885	\$0	\$0	\$0	\$0	\$26,028,317
3.5	Stormwater Retrofit WOH Program	Catskill Watershed Corp.	\$1,812,030	\$4,414,651	\$0	\$10,000,000	\$0	\$0	\$16,226,680
3.5	Future Stormwater Controls	Catskill Watershed Corp.	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Protection/Remediation</b>									
4.1	Waterfowl Management	Multiple Agreements	\$0	\$0	\$185,000	\$0	\$0	\$250,000	\$435,000
4.6	Flood Hazard Mitigation Program	Catskill Watershed Corp.	\$2,000,000	\$2,000,000	\$0	\$11,000,000	\$0	\$0	\$15,000,000
4.2	Land Acquisition Hard Costs <sup>5</sup>	Multiple Agreements	\$1,689,880	\$10,056,715	\$35,969,000	\$8,400,000	\$0	\$0	\$56,115,595
4.2	Land Acquisition Soft Costs	Multiple Agreements	\$295,395	\$2,718,763	\$0	\$0	\$0	\$0	\$3,014,158
4.4	Watershed Agricultural & Forestry Program	Watershed Agricultural Council	\$4,070,076	\$26,918,242	\$0	\$0	\$20,000,000	\$0	\$50,988,318
4.6	Stream Management Program	Multiple Agreements	\$7,722,860	\$29,346,760	\$2,124,000	\$0	\$4,000,000	\$25,000,000	\$68,193,620
4.9	EOH Non-Point Source Control	Multiple Agreements	\$932,541	\$7,667,220	\$0	\$0	\$15,000,000	\$500,000	\$24,099,761
4.10	Kensico Water Quality Programs	Multiple Agreements	\$4,829,918	\$6,095,518	\$0	\$0	\$0	\$0	\$10,925,436
4.11	Catskill Turbidity Control - Shaft 4	Multiple Agreements	\$0	\$0	\$1,500,000	\$0	\$1,000,000	\$9,500,000	\$12,000,000

<sup>4</sup> Budget values reflect the approved Executive Budget (April 2021).

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

Programs		Contractor	FY21 Payments	Open Contract Amounts	FY22 Budget <sup>4</sup>	FY23 Budget	FY24 Budget	FY25 Budget	Total Costs FY21-FY25
<b>Watershed Monitoring, Modeling &amp; GIS</b>									
5.1	Watershed Monitoring	Multiple Agreements	\$0	\$0	\$137,000	\$103,000	\$187,000	\$250,000	<b>\$677,000</b>
5.2	Modeling Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
5.3	Geographic Information System Program	Multiple Agreements	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Totals</b>			<b>\$59,182,133</b>	<b>\$138,726,808</b>	<b>\$39,915,000</b>	<b>\$53,623,000</b>	<b>\$40,187,000</b>	<b>\$35,500,000</b>	<b>\$367,133,941</b>

**Table 3. FY21 FAD Expense Budget**

Programs		Contractor	FY21 Disbursements	FY22	FY23	Total Costs FY21-FY23
<b>SWTR Filtration Avoidance Criteria Requirements</b>						
2.0	Watershed Program Expert Panel	NASEM	\$107,298	\$0	\$0	<b>\$107,298</b>
<b>Environmental Infrastructure</b>						
3.1	Septic and Sewer Programs	Catskill Watershed Corp.	\$5,575,534	\$8,200,000	\$8,200,000	<b>\$21,975,534</b>
3.2-3.4	WWTP O&M Programs	Multiple Purchases	\$15,787,600	\$18,546,869	\$18,446,869	<b>\$52,781,338</b>
3.5	Stormwater Programs	Catskill Watershed Corp.	\$651,843	\$900,199	\$900,199	<b>\$2,452,241</b>
	Catskill Watershed Corp Operating funds	Catskill Watershed Corp.	\$1,214,936	\$1,330,000	\$1,330,000	<b>\$3,874,936</b>
<b>Protection/Remediation</b>						
4.1	Waterfowl Management Program	HDR	\$1,574,407	\$1,800,000	\$1,800,000	<b>\$5,174,407</b>
4.2	Land Acquisition Program	Multiple Purchases	\$620,887	\$2,198,574	\$2,198,574	<b>\$5,018,035</b>
4.3	Land Management Program	Multiple Purchases	\$25,496	\$0	\$0	<b>\$25,496</b>
4.4-4.5	Watershed Agricultural & Forestry Program	WAC	\$6,278,970	\$8,500,000	\$8,000,000	<b>\$22,778,970</b>
4.6	Stream Management Program	Multiple Contracts	\$5,299,974	\$8,127,335	\$7,548,890	<b>\$20,976,199</b>
4.8	Ecosystem Protection	Multiple Purchases	\$261,151	\$1,846,476	\$1,765,274	<b>\$3,872,901</b>
4.9-4.10	EOH Nonpoint Source & Kensico Programs	Multiple Contracts	\$761,221	\$924,475	\$700,000	<b>\$2,385,696</b>
4.11	Catskill Turbidity Program	Multiple Contracts	\$0	\$0	\$0	<b>\$0</b>
<b>Watershed Monitoring, Modeling &amp; GIS</b>						
5.1	Monitoring	Multiple Purchases	\$166,913	\$167,240	\$167,240	<b>\$501,393</b>
5.2	Modeling	Multiple Purchases	\$310,391	\$620,000	\$620,000	<b>\$1,550,391</b>
5.3	GIS	Multiple Purchases	\$372,116	\$488,273	\$376,170	<b>\$1,236,559</b>
<b>Regulatory Program</b>						
6.1	Delegation	Multiple County Contracts	\$213,619	\$491,028	\$491,028	<b>\$1,195,675</b>

Programs		Contractor	FY21 Disbursements	FY22	FY23	Total Costs FY21-FY23
6.1	EOH Future Stormwater Controls	Multiple Purchases	\$0	\$120,000	\$100,000	\$220,000
	Watershed Rules & Regulations		\$0	\$0	\$0	\$0
<b>Catskill/Delaware Filtration Plant Design</b>						
7.1	Catskill/Delaware Filtration Plant Design	Hazen & Sawyer	\$6,067	\$4,729,124	\$3,298,462	\$8,033,653
<b>In-City Programs</b>						
8.1	WDRAP	NYC Dept. of Health	\$9,560	\$20,000	\$20,000	\$49,560
<b>Education &amp; Outreach</b>						
10	Public Education	Catskill Watershed Corp.	\$220,379	\$235,000	\$235,000	\$690,379
<b>Totals</b>			<b>\$39,458,360</b>	<b>\$59,244,593</b>	<b>\$56,197,706</b>	<b>\$154,900,660</b>



**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 06/30/2021: \$4,446,871

Available Contract Balance: \$3,553,129

Amounts in Reserve: \$648,790.37\*

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 July 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 which was completed by December 15, 2020. If it is decided to expand and extend the Program, the City will execute a new contract.

\*\$563,133.18 of these funds are committed to projects.

**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 06/30/2021: \$173,940

Available Contract Balance: \$1,326,060

Amounts in Reserve: \$0

Contract Actions:

Per the 2017 FAD, a contract amendment was registered on February 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 1997 MOA.

Start Date: 02/25/2014

End Date: 02/23/2024

### Budget Information:

Total Contract Cost:	\$38,100,000
Total payments as of 06/30/2021:	\$37,990,000
Available Contract Balance:	\$110,000
Amounts in Reserve:	\$15,502,187

### 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 project block grant.

## Shokan Wastewater Treatment Plant

(CWC)

### Contract Information:

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

Start Date: 12/01/2017

End Date: 12/01/2024

### Budget Information:

Total Contract Cost:	\$25,000,000
Total payments as of 06/30/2021:	\$24,464,000
Available Contract Balance:	\$536,000
Amounts in Reserve:	\$24,143,837

### Contract Actions:

Contract registered on June 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 is currently seeking to secure additional funding and in process of amending the contract to reflect the updated project cost of \$49,346,500.

**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 06/30/2021:	\$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 1997 MOA and has since been closed. 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:	\$6,000,000
Total payments as of 06/30/2021:	\$2,221,264
Available Contract Balance:	\$3,778,736
Amounts in Reserve:	\$1,222,851

**Contract Actions:**

An Amendment to add \$3,500,000 to this program due to an updated cash flow analysis was registered on March 22, 2021.

**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 06/30/2021:	\$13,482,000
Available Contract Balance:	\$3,518,000
Amounts in Reserve:	\$9,347,373

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 & CAT-436R  
This program allows CWC to administer the public education grants program.

Start Date: 04/25/2014 (CAT-436),  
04/24/2021 (CAT-436R)

End Date: 04/23/2021 (CAT-436),  
04/21/2026 (CAT-436R)

Budget Information:

Total Contract Cost (CAT-436):	\$1,526,138
Total payments as of 06/30/2021:	\$1,478,751
Available Contract Balance:	\$0*
Amounts in Reserve:	\$135,502
Total Contract Cost (CAT-436R):	\$1,083,558
Total Payments as of 06/30/2021:	\$25,000
Available Contract Balance:	\$1,058,558
Amounts in Reserve:	\$18,242

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. The City also registered the Renewal contract on February 23, 2021 with a term April 24, 2021 to April 21, 2026.

\*0 available since contract expired April 23, 2021.

## 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 06/30/2021:	\$1,500,000
Available Contract Balance:	\$0
Amounts in Reserve:	\$958,964
Estimated Burn Rate per year:	\$55,000
Funding Depleted by:	06/30/2027

### Contract Actions:

The contract term was extended to July 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 06/30/2021:	\$46,800,000
Available Contract Balance:	\$0
Amounts in Reserve:	\$1,658,771
Total Contract Cost (CAT-484):	\$86,000,000
Total Payments as of 06/30/2021:	\$15,800,000
Available Contract Balance:	\$70,200,000
Amounts in Reserve:	\$15,539,447

### Contract Actions:

The final Septic IV contract payment (CAT-415) was made on March 12, 2021. The successor Septic V contract (CAT-484) was registered on July 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 06/30/2021:	\$15,324,796
Available Contract Balance:	\$2,223,255
Amounts in Reserve:	\$489,454
Total Contract Cost (CAT-414):	\$7,056,000
Total Payments as of 06/30/2021:	\$3,341,157
Available Contract Balance:	\$3,714,843
Amounts in Reserve:	\$2,387,335

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 April 23, 2022. The successor contract (CAT-414) remains open until February 22, 2024 with over \$3.7 million still available.

**CWC Operating Expenses  
(CWC)**

Contract Information:

Description: CAT-412R & CAT-486  
This program allows CWC to operate their organization and maintain their office building.

Start Date: 06/07/2019 (CAT-412R),  
07/01/2021 (CAT-486)  
End Date: 06/05/2024 (CAT-412R),  
07/01/2026 (CAT-486)

Budget Information:

Total Contract Cost (CAT-412R):	\$2,482,600
Total payments as of 06/30/2021:	\$1,771,456
Available Contract Balance:	\$711,144
Amounts in Reserve:	\$794,911
Total Contract Cost (CAT-486):	\$6,650,000
Total Payments as of 06/30/2021:	\$0
Available Contract Balance:	\$6,650,000
Amounts in Reserve:	\$0

Contract Actions:

CAT-412 was renewed on October 16, 2019 with a retroactive start date of June 7, 2019. The successor contract, (CAT-486), registered on May 28, 2021 and has a Start Date of July 1, 2021. This contract will 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 06/30/2021:	\$15,000,000
Available Contract Balance:	\$7,000,000
Amounts in Reserve:	\$10,806,192

**Contract Actions:**

The CRO-574 contract registered on June 20, 2019 and the initial payment of \$15,000,000 was made on August 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 06/30/2021:	\$2,800,000
Available Contract Balance:	\$0
Amounts in Reserve:	\$2,098,086

**Contract Actions:**

An amendment to extend this contract until January 5, 2022 was registered on September 14, 2019 and another Amendment to extend this contract until January 5, 2025 is currently pending review with the ACCO's Office.

## Capital Replacement II

(New England Interstate Water Pollution Control Commission)

### Contract Information:

Description: DEL-437  
This program allows NEIWPC 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 06/30/2021:	\$3,951,423
Available Contract Balance:	\$8,898,577
Amounts in Reserve:	\$3,168,340

### Contract Actions:

The DEL-437 contract with NEIWPC registered on July 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 06/30/2021:	\$2,500,000
Available Contract Balance:	\$800,000
Amounts in Reserve:	\$2,001,005

### Contract Actions:

CRO-597 registered on December 1, 2019 with a Start Date of December 31, 2019.



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

Contract Information:

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

Start Date: 10/01/2019 (CAT-493)

End Date: 09/30/2024 (CAT-493)

Budget Information:

Total Contract Cost (CAT-493):	\$10,564,242
Total payments as of 06/30/2021:	\$4,753,292
Available Contract Balance:	\$5,810,950
Amounts in Reserve:	\$2,118,218

Contract Actions:

CAT-493 registered on October 2, 2019 and was backdated to begin on October 1, 2019.

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

Contract Information:

Description: CAT-494  
This program allows the Ulster County SWCD to develop and implement stream management plans in the Ashokan basin.

Start Date: 03/01/2020 (CAT-494)

End Date: 03/01/2025 (CAT-494)

Budget Information:

Total Contract Cost (CAT-494):	\$12,209,043
Total payments as of 06/30/2021:	\$1,798,250
Available Contract Balance:	\$10,410,793
Amounts in Reserve:	\$1,254,135

Contract Actions:

CAT-494 registered on January 29, 2020 with a Start Date of March 1, 2020.

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

Contract Information:

Description: DEL-436  
 This program allows the Delaware County SWCD to develop and implement stream management plans in the Delaware basin.

Start Date: 07/01/2020 (DEL-436)

End Date: 07/01/2025 (DEL-436)

Budget Information:

Total Contract Cost (DEL-436):	\$20,042,976
Total payments as of 06/30/2021:	\$2,440,535
Available Contract Balance:	\$17,602,441
Amounts in Reserve:	\$355,620

Contract Actions:

DEL-436 registered on August 21, 2020 with a Start Date of July 1, 2020.

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

Contract Information:

Description: CAT-495  
 This program allows the Sullivan County SWCD to develop and implement stream management plans in the Rondout-Neversink basin.

Start Date: 02/28/2020 (CAT-495)

End Date: 02/26/2025 (CAT-495)

Budget Information:

Total Contract Cost (CAT-495):	\$8,672,057
Total payments as of 06/30/2021:	\$3,319,494
Available Contract Balance:	\$5,352,633
Amounts in Reserve:	\$1,567,676

Contract Actions:

CAT-495 registered on March 11, 2020 with a Start Date of February 28, 2020.

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

Contract Information:

Description: CAT-496  
 This program allows the Greene County SWCD to develop and implement stream management plans in the Schoharie basin.

Start Date: 01/01/2020 (CAT-496)  
 End Date: 12/30/2024 (CAT-496)

Budget Information:

Total Contract Cost (CAT-496):	\$17,392,419
Total payments as of 06/30/2021:	\$5,544,833
Available Contract Balance:	\$11,847,586
Amounts in Reserve:	\$3,227,795

Contract Actions:

CAT-496 registered on November 1, 2019 with a Start Date of January 1, 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 06/30/2021:	\$27,027,286
Available Contract Balance:	\$65,031,235
Amounts in Reserve:	\$734,915

Contract Actions:

The CAT-487 contract registered on April 1, 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 06/30/2021:	\$23,270,365
Available Contract Balance:	\$5,729,635
Amount in Reserve:	\$10,201.53*

Contract Actions:

The 2017 FAD requires the City to add \$11 million by March 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 December 31, 2019. DEP is working to register a contract, CAT-503, to provide the additional funding by December 31, 2021.

\*This does not include Federal PPP and borrowing of CAT-450 funds.

**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 06/30/2021:	\$11,000,000
Available Contract Balance:	\$2,350,000
Amounts in Reserve:	\$9,391,812

Contract Actions:

The CRO-579 contract registered on July 2, 2019 and is an active contract.