

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

Annual Report on FAD Budget and Staffing

September 2016

*Prepared in accordance with Section 9.0 of the NYSDOH
Revised 2007 Filtration Avoidance Determination*



Prepared by: DEP, Bureau of Water Supply

Staffing

Section 9.0 of the 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 Programs. 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. Table 2 summarizes the extent of our recruitment efforts.

During FY16, DEP's Bureau of Water Supply (BWS) assumed responsibility for operations at Hillview Reservoir, the Croton Water Treatment Plant (WTP) and Jerome Park Reservoir. This resulted in an increase to BWS's authorized headcount of approximately 152 positions. Although operation of the Croton WTP and Jerome Park Reservoir is not governed by the FAD, this report includes staffing numbers for those facilities in the interest of giving a complete picture of BWS's span of operations.

At the end of FY16, 91.0% of all positions within the Bureau of Water Supply have been filled.

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 3 summarizes capital funds disbursed and appropriated for FY16 through FY20 to support existing and new obligations under the FAD programs. The table reflects the capital commitments contained in the April 2016 Executive Budget. The capital budget is adjusted from time to time throughout the year to meet programs needs and accommodate schedule changes. Table 4 summarizes expense funds disbursed in FY16, budgeted for FY17 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.

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. The Water Board adopted a FY16 water rate, which reflected a 2.97% increase over the prior year. On June 22, 2016, the Manhattan Supreme Court invalidated the Water Board's resolution approving a new Rate Schedule set to go into place July 1, 2016. The Water Board is appealing this decision because it believes it acted in the best interest of its customers and in accordance with the law. Water and sewer rates will remain at the FY16 level pending the outcome of the appeal. 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.

Table 1. FY16 FAD Staffing

Program Description	Budgeted Positions	FY16 Filled Positions	Positions in Pipeline
Executive			
Deputy Commissioner	1	1	
Management & Support	3	2	1
Total Executive	4	3	1
Water Quality - Management			
Director - Water Quality	1	1	
Management & Support	1	1	
Subtotal	2	2	0
Water Quality - Distribution Water Quality Operations			
Management & Support	2	2	
Distribution Water Quality Laboratory Operations - Management	1	1	
Microbiology	12	11	1
Wet Chemistry	11	9	2
Trace Metals	2	2	
Organic Chemistry	7	7	
Distribution Water Quality Field Operations - Management	1	1	
Field Operations	20	20	
Early Warning Remote Monitoring	6	6	
Distribution Water Quality Compliance - Management	1	1	
Data Management	8	7	1
Quality Assurance	4	3	1
Procurement	2	2	
Health & Safety	1	1	
Distribution Science & Planning	4	4	
Subtotal	82	77	5
Water Quality - Watershed Water Quality Science & Research			
Management & Support	2	2	
Water Quality Modeling	5	5	

Water Quality Program Evaluation & Planning	4	4	
Watershed Impacts & Pathogen Assessment	4	4	
Health Assessment & Policy Coordination	1	1	
Subtotal	16	16	0
Water Quality - Watershed Water Quality Operations			
Management & Support	2	2	
Watershed Water Quality Systems Support	13	12	1
EOH Water Quality Operations	47	44	3
WOH Water Quality Operations	62	60	2
Wildlife Studies	3	3	
Subtotal	127	121	6
Total Water Quality	227	216	11
Upstate Police Force			
Chief	1	1	
Assistant Chief	1	1	
Inspector	1	1	
Captain	4	4	
Lieutenant	13	13	
Sergeant	34	34	
Environmental Police Officers	167	144	23
Admin/Analytical/Clerical Support	24	20	4
Total Upstate Police Force	245	218	27
Watershed Protection Programs			
Director - Watershed Protection Programs	1	1	
Management & Support	2	2	
Subtotal	3	3	0
Watershed Protection Programs - Watershed Lands & Community Planning			
Management & Support	1	0	1
Land Acquisition	15	15	
Community Planning	5	5	
Stream Management	9	8	1
Working Lands	2	2	
Administration & Compliance	3	3	

GIS Support	4	4	
Subtotal	39	37	2
Watershed Protection Programs - Natural Resources Division			
Management & Support	2	2	
Natural Resources Management	35	31	4
Subtotal	37	33	4
Watershed Protection Programs - Regulatory & Engineering Programs			
Management & Support	3	2	1
Compliance & Administration	5	4	1
Wastewater Treatment Programs	12	11	1
Stormwater Programs	15	15	
SSTS Compliance & Inspection	10	10	
WWTP Compliance & Inspection	6	6	
Subtotal	51	48	3
Watershed Protection Programs - WWTP Upgrade Program			
Management & Support	2	2	
Subtotal	2	2	0
Total Watershed Protection Programs	132	123	9
Planning			
Director - Planning	1	1	
Strategic Planning	1	1	
Capital Planning	14	14	
Rondout West Branch Tunnel	3	3	
Hydro Development & Special Projects	1	1	
Emergency Planning	3	3	
Total Planning	23	23	0
Management Services & Budget			
Director - Management Services & Budget	1	1	
Management & Support	1	1	
Employee Services	1	1	
Human Resources	6	5	1
Facilities - Valhalla & Kingston	17	15	2

Upstate Fleet Services, Fuels & Chemicals	16	14	2
Procurement & Expense	23	18	5
Total Management Services & Budget	65	55	10
Source Water Operations			
Director - Source Water Operations	1	1	
Management & Support	2	2	
Subtotal	3	3	0
Source Water Operations Compliance & Technical Services			
Hazmat & Spill Management	6	6	
Subtotal	6	6	0
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	7	5	2
Grahamsville Region - Management & Support	1	1	
Grahamsville Region - Maintenance	23	21	2
Shokan Region - Management & Support	5	5	
Shokan Region - Maintenance	36	32	4
Downsville Region - Management & Support	1	0	1
Downsville Region - Maintenance	28	28	
Highlands Region - Management & Support	2	2	
Highlands Region - Maintenance	41	41	
Subtotal	162	152	10
Source Water Operations - Engineering & Construction			
Management & Support	1	1	
Engineering & Construction	20	15	5
Subtotal	21	16	5

Source Water Operations - Reservoir Operations			
Management	1	1	
Reservoir Operations	12	11	1
Watershed Monitoring & Operations Support	8	7	1
Subtotal	21	19	2
Source Water Operations - Wastewater			
Management & Support	9	9	
Wastewater Treatment Operations	37	36	1
Engineering & Tech Maintenance	10	9	1
Subtotal	56	54	2
Total Source Water Operations	272	253	19
Water Treatment Operations			
Director - Water Treatment Operations	1	1	
Management & Support	1	1	
Subtotal	2	2	0
Water Treatment Operation North			
Management & Support	4	4	
Operations	47	38	9
Instrumentation & Controls	9	8	1
Engineering	4	3	1
Trades	28	27	1
Field Maintenance	10	7	3
Subtotal	102	87	15
Water Treatment Operation South			
Management & Support	4	4	
Operations	82	74	8
Instrumentation & Controls	6	4	2
Engineering	9	8	1
Trades	29	24	5
Field Maintenance	13	13	
Subtotal	143	127	16
Quality Assurance			

Management & Support	1	1	
Quality Assurance	17	14	3
Subtotal	18	15	3
Total Source Water Operations	265	231	34
Environmental Health & Safety			
Director - Environmental Health & Safety	1	1	
Management & Support	4	4	
Facilities Compliance	16	14	2
Project & Field Compliance	5	5	
Environmental Projects	5	5	
EH&S Core Services	8	6	2
Total Environmental Health & Safety	39	35	4
Total Bureau of Water Supply			
	1272	1157	115
Percentage of Positions Filled = 91.0%			

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. Vacancy Advertisements

Civil Service Title	Business Title	Division	Location	Date	Posted On
Mechanical Engineer Intern	Mechanical Engineer Intern	Catskill Div Off (Source Div)	Olivebridge	1) 7/26 - 7/29 2) 7/26 - 7/29 3) 30 Days	1) Kingston Daily Freeman 2) Oneonta Daily Star 3) Watershed Post
Stationary Engineer Electric	Stationary Engineer Electric	Catskill Div Off (Source Div)	Olivebridge	1) 7/26 - 7/29 2) 7/26 - 7/29 3) 30 Days	1) Kingston Daily Freeman 2) Oneonta Daily Star 3) Watershed Post
Computer Specialist (Software) III	Section Chief of Operations Data Management	Water System Operations	Grahamsville	60 Days	Monster.com
City Research Scientist III	Operations Support Tool Modeler	Water System Operations	Grahamsville	60 Days	Monster.com
Principal Administrative Associate II	Reporting & Publications Assistant	Deputy Commissioner's Office	Grahamsville	1) 8/2 - 8/5 2) 8/4 & 8/7 3) 30 Days	1) Middletown Times Herald Record 2) Sullivan County Democrat 3) Watershed Post
Associate Chemist	Associate Chemist	Water Quality	Valhalla, Kensico Lab	60 Days	Monster.com
Administrative Project Manager MI	Risk Manager Program Manager	Eastern Operations	Valhalla	60 Days	Monster.com
Watershed Maintainer	Watershed Maintainer	Operations	Olivebridge	1) 8/16 - 8/19 2) 8/16 - 8/19 3) 30 Days	1) Kingston Daily Freeman 2) Oneonta Daily Star 3) Watershed Post
Watershed Maintainer	Watershed Maintainer	Operations	Margaretville	1) 8/16 - 8/19 2) 8/16 - 8/19 3) 30 Days	1) Kingston Daily Freeman 2) Oneonta Daily Star 3) Watershed Post
Watershed Maintainer	Watershed Maintainer	Operations	Kingston	1) 8/23 - 8/26 2) 8/23 - 8/26 3) 30 Days	1) Kingston Daily Freeman 2) Middletown Times Herald Record 3) Watershed Post
Watershed Maintainer	Watershed Maintainer	Operations	Grahamsville	1) 8/16 - 8/19 2) 8/18 & 8/20	1) Middletown Times Herald Record 2) Sullivan County Democrat
Clerical Associate III	Clerical Associate	Management Services & Budget	Kingston	09/13 -09/16	Kingston Daily Freeman
Administrative Staff Analyst	Chief Employee Services	Management Services & Budget	Kingston	1) 9/13 - 9/16 2) 60 Days	1) Kingston Daily Freeman 2) Monster.com

Civil Service Title	Business Title	Division	Location	Date	Posted On
Procurement Analyst I	Procurement Analyst I	Management Services & Budget	Grahamsville	1) 10/4 - 10/8 2) 10/9 - 10/13 3) 30 Days	1) Middletown Times Herald Record 2) Sullivan County Democrat 3) Watershedpost.com
Mechanical Engineer Intern	Mechanical Engineer Intern	Western Operations	Olivebridge	1) 10/16 - 10/18 2) 10/16 - 10/18	1) Middletown Times Herald Record 2) The Poughkeepsie Journal
Stationary Engineer Electric	Stationary Engineer Electric	Western Operations	Olivebridge	1) 10/16 - 10/18 2) 10/16 - 10/18	1) Middletown Times Herald Record 2) The Poughkeepsie Journal
Administrative Project Manager	Risk Manager Program Manager	Eastern Operations	Valhalla	30 Days	Careerbuilder.com
Civil Engineer	Engineer	Eastern Operations	Valhalla	1) 60 Days 2) 30 Days	1) Monster.com 2) NYS Society of Professional Engineers
Watershed Maintainer	Watershed Maintainer	Water System Operations	Grahamsville	1) 12/6 - 12/9 2) 12/4 & 12/8	1) Middletown Times Herald Record 2) Sullivan County Democrat
City Planner	Recreation Program Supervisor	WPP	Kingston	60 Days	Monster.com
Civil Engineer II	Civil Engineer	WPP	Valhalla	60 Days	Monster.com
Civil Engineer II	Civil Engineer	WPP	Valhalla	30 Days	NYS Society of Professional Engineers Website
Civil Engineer II	Engineer	Eastern Operations	Valhalla	60 Days	Monster.com
Associate Project Manager II	EHS Project & Field Support	EHS	Kingston	60 Days	Monster.com
Civil Engineer	Engineer	Eastern Operations	Valhalla	30 Days	NYS Society of Professional Engineers Website
Admin. City Planner	Chief, Watershed Lands & Community Planning	WPP	Kingston	1) 4/28 - 5/1 2) 4/28 - 5/1	1) Middletown Daily Freeman 2) Kingston Daily Freeman
Civil Engineer II	Civil Engineer	Source Water Ops	Katonah	30 Days	NYS Society of Professional Engineers Website
Staff Analyst II	Contract Officer	Management Services & Budget	Kingston	1) Thursday - Sunday 2) 30 Days 3) 60 Days	1) Middletown Times Herald Record 2) Watershed Post 3) Monster.com

Table 3. FY16 FAD Capital Budget

Program	Contracting Entity	FY16 Disbursements (Payments)	Costs Scheduled for Disbursements 2017 - 2020	APPROPRIATIONS*				Total Program Costs FY16-FY20
				FY17	FY18	FY19	FY20	
Environmental Infrastructure								
WWTP Upgrade Program	Environmental Facilities Corp.	\$8,729,142	\$24,716,047.41	\$0	\$15,000,000	\$0	\$0	\$48,445,189
Capital Equipment Replacement Program	Environmental Facilities Corp.	\$134,852	\$7,205,148	\$0	\$0	\$0	\$0	\$7,340,000
New Sewage Treatment Infrastructure	Catskill Watershed Corp. & Environmental Facilities Corp.	\$-	\$17,081,846	\$0	\$0	\$0	\$0	\$17,081,846
Community Wastewater Management	Catskill Watershed Corp.	\$-	\$29,500,000	\$0	\$0	\$0	\$0	\$29,500,000
Sewer System Extension Program	Multiple with private contractors	\$3,763,000	\$5,319,800	\$818,000	\$1,000,000	\$0	\$0	\$10,900,800
Stormwater Retrofit WOH Program	Catskill Watershed Corp.	\$495,254	\$9,083,227	\$875,000	\$0	\$0	\$0	\$10,453,481
Protection and Remediation								
Flood Hazard Mitigation Program	Catskill Watershed Corp.	\$4,000,000	\$11,000,000	\$0	\$0	\$0	\$0	\$15,000,000
Land Acquisition Hard Costs	Watershed Landowners & Partnerships	\$14,209,000	\$20,100,000	\$0	\$0	\$0	\$64,190,000	\$98,499,000
Land Acquisition Soft Costs	Multiple Agreements	\$1,560,061	\$6,934,014	\$3,120,000	\$0	\$0	\$0	\$11,614,075
Land Management Program	Multiple Agreements	\$432,676	\$167,804	\$1,353,000	\$0	\$0	\$0	\$1,953,481
Watershed Agricultural & Forestry Program	Watershed Agricultural Council	\$5,070,508	\$2,337,291	\$0	\$0	\$0	\$0	\$7,407,799

Program	Contracting Entity	FY16 Disbursements (Payments)	Costs Scheduled for Disbursements 2017 - 2020	APPROPRIATIONS*				Total Program Costs FY16-FY20
				FY17	FY18	FY19	FY20	
Stream Management Program	Multiple Agreements	\$3,989,000	\$22,907,295	\$2,782,000	\$6,023,000	\$0	\$0	\$35,701,295
Kensico Water Quality Programs	Multiple with private contractors	\$13,300	\$255,139	\$306,000	\$0	\$0	\$0	\$574,439
EOH Non-Point source Control	Multiple with private contractors	\$5,500,000	\$0	\$17,545,000	\$0	\$0	\$0	\$23,045,000
Catskill turbidity Control - Operations Support Tool	Gannett Fleming/Hazen & Sawyer PC, JV	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
Catskill Turbidity Control - Shaft 4 & Stop Shutters	Multiple with private contractors	\$3,547,331	\$463,709	\$0	\$0	\$0	\$0	\$4,011,040
Watershed Monitoring, Modeling and GIS								
Watershed Monitoring	Multiple with private contractors	\$78,000	\$0	\$0	\$137,000	\$0	\$0	\$215,000
Modeling Program	Multiple with private contractors	\$0	\$31,971	\$0	\$0	\$0	\$0	\$31,971
Geographic Information System Program	Multiple Agreements	\$0	\$97,509	\$1,329,000	\$0	\$0	\$0	\$1,426,509
Regulatory Programs								
CAT/DEL Ultraviolet Disinfection (UV)	Multiple with private contractors	\$3,885,257	\$21,797,899	\$2,000,000	\$0	\$0	\$0	\$27,683,156
Totals		\$55,407,381	\$178,998,700	\$30,128,000	\$23,660,000	\$150,000	\$64,190,000	\$352,534,081

* FY17 Amount does not include \$7,684,000 requested in Capital Funds from NYC Office of Management and Budget during FY17 September Plan

Table 4. FY16 FAD Expense Budget

Program	Contracting Entity	FY16 Disbursements	FY17	FY18	Total Program Costs FY16-FY18
Environmental Infrastructure					
Septic Rehabilitation Programs	Catskill Watershed Corp.	\$7,200,000	\$7,200,000	\$7,200,000	\$21,600,000
New Infrastructure Program	Catskill Watershed Corp.	\$2,279,001	\$2,350,850	\$2,350,850	\$6,980,701
Community Wastewater Mgmt.	Multiple Purchases	\$861,605	\$954,078	\$954,078	\$2,769,761
WWTP Upgrade Program	Multiple Purchases	\$12,447,842	\$14,293,729	\$14,579,603.98	\$41,321,175
Stormwater Retrofit Program	Catskill Watershed Corp.	\$0	\$300,000	\$300,000	\$600,000
Protection and Remediation					
Waterfowl Management Program	HDR	\$1,483,501	\$1,600,475	\$1,600,475	\$4,684,451
Watershed Agricultural Program	WAC	\$6,245,128	\$6,796,267	\$7,192,000	\$20,233,395
WAC Stewardship	WAC	\$0	\$608,000	\$608,000	\$1,216,000
Stream Management Program	Multiple SWSD	\$3,285,884	\$4,172,553	\$4,377,743	\$11,836,180
Flood Hazard Mitigation	CWC	\$0	\$500,000	\$500,000	\$1,000,000
WaLIS/GIS	Multiple Contracts and Purchases	\$526,326	\$362,862	\$380,086	\$1,269,274
Land Management	Multiple Contracts	\$115,947	\$100,000	\$164,636	\$380,583
Forestry Management	Multiple Contracts and Purchases	\$601,439	\$500,000	\$1,290,000	\$2,391,439
Catskill Watershed Corp Operating funds	CWC	\$291,575	\$291,575	\$291,575	\$874,725
LAP Advertising	Miller Advertising	\$23,841	\$35,000	\$35,000	\$93,841

Program	Contracting Entity	FY16 Disbursements	FY17	FY18	Total Program Costs FY16-FY18
Kensico Water Quality Control Programs	Transit Construction Corp	\$674,395	\$961,607	\$1,059,357	\$2,695,359
Catskill Turbidity	Multiple	\$52,535	\$350,000	\$650,000	\$1,052,535
Education Outreach	Catskill Watershed Corp.	\$224,977	\$200,000	\$210,000	\$634,977
Watershed Monitoring, Modeling and GIS					
Watershed Monitoring Programs	Multiple Purchases	\$177,656	\$175,000	\$175,000	\$527,656
Multi-tiered Water Quality Modeling Program	Multiple Purchases	\$585,119	\$620,000	\$620,000	\$1,825,119
Geographic Information Systems Program	Multiple Purchases	\$67,967	\$20,000	\$20,000	\$107,967
Regulatory Programs					
Watershed Rules & Regulations	Adverting for WRR revisions	\$0	\$100,000	\$0	\$100,000
Delegation-Local Health Departments	Contracts with Westchester, Putnam & Ulster Counties	\$149,325	\$491,028	\$491,028	\$1,131,381
Future Stormwater Controls	CWC	\$0	\$250,000	\$500,000	\$750,000
Waterborne Disease Risk Assessment Program	NYC Dept. of Health	\$13,628	\$30,300	\$30,300	\$74,228
FAD Plug	Multiple Purchases	\$2,316,863	\$2,316,863	\$2,316,863	\$6,950,589
Totals		\$39,624,554	\$45,579,187	\$47,895,595	\$133,099,336