

SUFFOLK COUNTY WATER AUTHORITY

Production Control - Bay Shore, New York

INTER-OFFICE CORRESPONDENCE

DATE: April 15, 2024

TO: Jeffrey Szabo, CEO

FROM: Michael O'Connell, Director of Production Control
Timothy Kilcommons, P.E., Chief Engineer & Dir. of R&D

SUBJECT: Emerging Contaminants Action Plan Monthly Update

The Suffolk County Water Authority has for years proactively addressed emerging contaminants in groundwater such as the perfluorinated compounds PFOA and PFOS and 1,4-dioxane, both through comprehensive testing and the development and implementation of innovative treatment technologies.

The following is the latest monthly update to the Emerging Contaminants Action Plan requested by the SCWA Board to provide the public with up-to-date information about the steps being taken to ensure that SCWA meets or surpasses the rigorous regulations established by New York State to remove these compounds from our groundwater. This update covers the period from March 26, 2024, to date.

PFAS

A new GAC system for Oxhead Rd #2 (Stony Brook) has been installed and carbon loading has been scheduled on April 25. A new system for Church St Hol #2 (Holbrook) has been installed and carbon loading is scheduled for May 15. The new system for Foxcroft Ln #1A and #2 (East Patchogue) has been installed and new resin was loaded on April 12. All these wells remain out of service pending completion and sampling.

A new GAC system for Hurtin Blvd. #3 (Smithtown) has been delivered. CM is currently completing the installation of the yard piping. The well remains in service as levels are below the MCL. The GAC will be placed in service in the spring of 2024.

New GAC systems for Boyle Rd PJ #2 (Terryville), Blue Point Rd #4A (Holtsville), Morris Ave #2A (Holtsville) and Wheat Path #1 (Port Jefferson) have been delivered and yard piping installation by CM has been completed. All four systems have carbon loading complete or scheduled over the next 3 weeks. These systems will be placed in service after completion and sampling. The wells remain in service as the levels are below the MCL.

Currently, there are 3 untreated wells that have PFAS levels above the MCL. These wells are all out of service. Additional GAC systems are on order for other wells and site work continues prior to receiving delivery of these systems and others. New sites include Crystal Brook Hollow Rd #2 and #4

(Mt. Sinai) Station Rd #2A and #3A (North Bellport), Hurtin Blvd #1 (Smithtown), Wheat Path #3 (Port Jefferson) and Horseblock Rd #2 (Farmingville).

On October 5, 2022, the New York State Department of Health published, in the State Register, its intent to regulate an additional 23 PFAS compounds. The proposed regulation will set Maximum Containment Levels (MCLs) for an additional four (4) PFAS compounds, set a MCL for a combined 6 PFAS compounds and monitoring and public notification requirements for another 19 PFAS compounds. Recent actions in Albany by the NYS Drinking Water Quality Council have the future of this proposed regulation in question. The most recent recommendation by the Council for water suppliers to notify the public at detection of any of these compounds has left the drinking water industry wondering what a final regulation might look like. Where this goes in light of recent EPA actions is currently unknown.

On April 10, 2024, the EPA published the final rule to set MCLs for PFOA and PFOS at 4.0 parts per trillion (PPT). This is significantly less than the current NYS MCL of 10 PPT and will supersede it. The EPA also set MCLs of 10.0 for an additional 3 PFAS compounds and a calculated Hazard Index MCL of 1 for a group of 5 PFAS compounds. Compliance with these new MCLs must be completed before April 10, 2029. Since the Authority was well on its way to meeting ½ the NYS MCL of 10.0 ppt; we are in a good position to be in compliance with the new MCLs well before 2029. The PFOA/PFOS status list will be updated next month to include all wells impacted by the new MCLs.

1,4-dioxane

Work continues to progress on the installation of the seventeen (17) AOP systems in Phase 1 and work continues at Phase 2 sites.

Phase One Sites:

Smith St. East Farmingdale - SCWA submitted final contract plans to NYSDOH for this AOP system in late March 2021. The Health Department approved these plans on June 1, 2021. The Board awarded the contract for this project in September 2021. Construction of the GAC building addition for the AOP equipment is complete and electrical work for the AOP has begun. The existing generator fuel tank was removed to make way for a new larger generator that can power the well and AOP system. That generator has been delivered and placed in service. Delivery of the AOP reactors has been made to the new AOP building addition.

Flower Hill Rd (Halesite) – All construction related to the AOP systems at this site is complete. SCWA received approval from NYSDOH on 7/7/23. Well #1 was placed on AOP treatment on 07/11/23. Well #2 was placed on AOP treatment on 07/28/23 and Well #3 went on treatment on 08/03/23. To date the systems are performing as designed.

Hollywood Pl (Huntington) - All construction related to the AOP system at this site is complete. SCWA received approval to operate from NYSDOH on 8/4/23. Well #1 was placed on AOP treatment on 08/09/23. The system has been performing as designed.

McKay Rd. (Huntington Station) - All construction related to the AOP system at this site is complete. SCWA received approval to operate from NYSDOH on 8/4/23. Well #1 was placed on AOP treatment on 08/07/23. The system has been performing as designed.

Waterside Rd. (Northport) – All construction related to the AOP system at this site is complete. Well #2 was placed on AOP treatment on 08/28/23. The system has been performing as designed.

Douglas Ave (Northport) - All construction related to the AOP system at this site is complete. Well #1 was placed on AOP treatment on 08/23/23. Well #2 was placed on AOP treatment on 09/21/23. Both systems have been performing as designed.

Falcon Dr. (Hauppauge) – All construction related to the three (3) AOP systems at this site are complete. Pump #2A was placed on AOP treatment on 03/25/24. Pump #2B was placed on AOP treatment on 04/02/24 and Well #1 was placed on AOP treatment on 04/03/24. All three systems are currently performing as designed.

Broadway (Huntington)– The two (2) AOP reactors have been installed and mechanical installation is complete. System start-up and testing has occurred. We have received a hydrogen peroxide delivery. We have received final approval from Suffolk County DOH and have requested final approval from NYSDOH. We hope to secure their approval in the next week and go in service after that.

Old Dock Rd (Kings Park) - The new well Old Dock Rd #2 has been drilled and construction has been completed. This well was constructed with the knowledge that it will require an AOP treatment system. It is replacing Carlson Ave #5 and #6 (Kings Park), both of which require AOP but are very old wells and are located on a site that does not have enough room for more treatment systems. A contract for the new AOP/GAC building was awarded in April 2023. Also approved was the AOP reactor for Well #2. A new GAC system for Well #2 has been delivered. CM has completed yard piping tie-ins for the additional GAC. Currently the building contractor is working on installing the building wall panels.

Middleville Rd (Fort Salonga) – Removal of the building over the existing one GAC system is complete and that building was re-installed at the CR 111 pump station in Manorville over an existing outdoor GAC system. A second GAC system for Well #1 was installed and CM has completed the yard piping installation. A new AOP/GAC building for both systems is complete. SCWA's electrical contractor has installed power/light/heat to the building. The AOP mechanical contract for the installation of the two AOP systems and peroxide storage was awarded in April 2023. AOP equipment mechanical installation is in progress.

Phase Two Sites:

Sunken Meadow Park (Kings Park) – The GAC building addition has been completed. Both wells remain in service and are under the MCL.

Lawrence Rd (Kings Park) - CM has completed the installation of piping for four new GAC systems at Lawrence Rd. for future AOP systems at that site and PC has placed two of the four systems in service. A contract for two AOP/GAC buildings was awarded in June 2023. Currently the building contractor is nearing completion on constructing the two buildings.

Peconic St (Lakeland) – An additional GAC system for Well #2 has been delivered and CM is currently installing yard piping. A contract for an AOP/GAC building over the 2 systems was awarded and the building construction has been completed; the electrical contractor can now mobilize.

Site work continues for future AOP sites and electrical upgrade work where required continues.

Emerging Contaminant Wells Current Status

As of this writing, all wells that have PFOA or PFOS above the current MCL are either being treated to remove the contaminants or have been removed from service until treatment is installed. Wells that are above ½ of the MCL continue to be blended or have their run time managed to maintain lower levels. Additional GAC systems for these wells continue to be designed and ordered. The current lead time for GAC systems is at least 12 months.

Similar strategies apply to 1,4-dioxane management. Wells that have 1,4-dioxane above the MCL are on treatment, out of service or being blended with other wells so that 1,4-dioxane levels entering distribution are below the MCL. Treatment is either by an AOP system or GAC. Carbon does remove 1,4-dioxane, not well, but it does for a short period of time. This has and will continue to escalate our carbon and labor expenses, but this approach ensures that the water entering our system has the lowest possible 1,4-dioxane concentrations while at the same time ensures our ability to meet demand for both domestic and emergency use by our customers.

The Authority has and continues to make constant progress on the completion of Phase 1 of the Emerging Contaminant Action Plan. Site work, foundations and equipment procurement have begun for Phase 2 of the Emerging Contaminant Action Plan. We are now beginning the planning stages for Phase 3 to eventually include all wells that have detections of PFC's and 1,4-dioxane.

Cc: J. Pokorny
T. Schneider
J. Milazzo

Emerging Contaminant Wells Current Status

4/15/2024

All Wells > 1/2 MCL

PFOA / PFOS MCL = 10.0 ppt Future MCL = 4 .0 ppt
 PFHxS/PFNA Future MCL = 10 ppt
 Hazard Index (PFBS,PFHxS, PFNA, HFPO-DA) = calculated figure of 1 - Future

Zone	Station	Well	Recent levels (PFOA/PFOS)	Recent levels (PFHxS/PFNA)	Recent levels Hazard Index	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
1	Bellmore Ave	1	9.1/8.8			O/S	On GAC. Well screen failed, well being retired and replaced in the future.	4/24/2020	195-20-00-0068	\$ 37,512
1	Church St Hol	1A	12/4.7			O/S	On outdoor GAC - Seasonal	5/7/2019		
1	Church St Hol	2	8.7/4.6			O/S	O/S 11/2/18 - New GAC system piped. Sampling before loading		195-24-00-0056	\$ 838,778
1	Fisher Ave	4	2.4/5.0	2.3/ND	0.25	I/S	Monitor			
1	Foxcroft Ln	1A	5.4/29			O/S	Received DHS approval to treat with resin (ion exchange) in portable GAC system; first approval of resin for PFC's in NY. Outdoors - seasonal New permanent resin vessels delivered & piped. Resin in on 04/13/24.	5/30/2019	055-18-00-0019	\$ 165,590
1	Foxcroft Ln	2	4.8/11			O/S	Blended inside #1A - Seasonal well, #1A seasonal GAC. Last blend was 2.9/5.5. Will now remain out of service pending the installation of treatment. See above	7/18/2019	195-24-00-0057	\$ 249,936
1	Gus Guerrero	1	6.1/100			O/S	On outdoor GAC - Seasonal	7/27/2016	055-17-00-0016	\$ 182,842
1	Gus Guerrero	2	ND/ND			I/S	Removed from GAC due to decrease in levels 11/2020.	7/11/2017		
1	Meetinghouse Rd	12A	25/480			I/S	On GAC	6/10/2016	055-17-00-0015	\$ 788,844
1	Meetinghouse Rd	14	180/480			I/S	Same as above.	6/10/2016	055-18-00-0015	
1	Meetinghouse Rd	17	350/3400			I/S	Same as above	6/10/2016		
1	Meetinghouse Rd	19	95/1100			I/S	Same as above	6/10/2016		
1	Meetinghouse Rd	22	2.9/58			I/S	On GAC	7/27/2016	055-17-00-0013	\$ 29,528
1	Old Country Rd	1A	3.1/6.9			I/S	On outdoor GAC - Seasonal	5/5/2023	195-22-00-0056	\$ 516,448
1	Old Country Rd	4	4.2/17			I/S	On outdoor GAC - Seasonal	6/26/2020	055-19-00-0020, 195-20-00-0053	\$ 802,282
1	Railroad Ave	2	4.2/3.3	ND/ND	0.14	I/S	Monitor			
1	Smith St	8	ND/3.5			I/S	Monitor			
1	Station Rd	1A	5.0/3.9			I/S	On outdoor GAC - Seasonal	3/14/2020	055-19-00-0015	\$ 417,765
1	Station Rd	2A	6.1/4.4			O/S	Runs inside Well #1A when #1A is in service. New GAC on order			
10	Ruth Blvd	2	ND/4.6			O/S	Well assigned to GAC 5/18/21 - Seasonal	5/18/2022	055-21-00-0007	\$ 670,255
10	Ruth Blvd	3	ND/7.7			O/S	Well assigned to GAC "B" 09/08/22 - Seasonal	9/8/2022	055-19-00-0018	\$ 23,057
11	St. Johnsland Rd	1	4.5/3.5	2.2/ND	0.23	I/S	Monitor - new to list 06/21 (6.1/2.8)			
12	Blue Point Rd	1	6.4/3/4			O/S	On outdoor GAC - Seasonal	7/12/2023	195-22-00-0058	\$ 516,448
12	Blue Point Rd	4A	5.5/2.6			I/S	New GAC system installed, piped and loaded. Waiting on lab results		195-23-00-0059	\$ 571,130
12	Carrol St	2	6.2/4.0	2.5/ND	0.30	I/S	Blended - no further action planned	8/18/2016		
12	Fairmount Medford	2	4.1/2.2	ND/ND	0.21	I/S	Monitor			
12	Hallock Ave	1	ND/14			I/S	On outdoor GAC - Seasonal	4/27/2022	195-21-00-0061	\$ 758,862
12	Hallock Ave	2	ND			O/S	Levels have dropped with Well #1 on GAC, monitor			
12	Hallock Ave	3	ND/3.7			O/S	Levels drop when Well #1 on GAC is in service, monitor. Locked in Call-2			
12	Horseblock Rd	2	7.9/2.8			I/S	Monitor - new to list 08/21 GAC Vessels on order			
12	Hurtin Blvd	3	5.5/4.7	5.0/ND	0.64	I/S	GAC delivered, CM piping in progress. Will be ready for spring.		195-24-00-0051	\$ 909,619
12	Liberty St	2	10.0/6.1			I/S	On outdoor GAC - Seasonal	4/22/2023	195-22-00-0069	\$ 94,827
12	Liberty St	3	6.2/4.2			I/S	With rotations, runs every other day - Locked in Call-3 New GAC on order			
12	Lincoln Ave	2	ND/12			I/S	On GAC	3/19/2021	195-21-00-0065	\$ 549,854
12	Morris Ave	1	3.8/3.2			I/S	Monitor - Decreased since Well #4 went on GAC - Mobil resin relocated to site		195-20-00-0059	
12	Morris Ave	2A	4.5/6.2			I/S	Monitor - new to list 10/21 - New GAC piped. Sampling before loading		195-23-00-0056	\$ 1,276,586
12	Morris Ave	3	4.0/3.0	13/ND	1.49	I/S	GAC system will be on next order			
12	Morris Ave	4	4.9/19			O/S	On outdoor GAC - Seasonal	6/28/2020	195-20-00-0054	\$ 118,797
12	Nichols Rd	2A	ND/9.3	5.2/ND	0.77	I/S	Monitor - new to list 08/14/22. GAC on order			
12	Pierson St	1	6.8/7.9			I/S	On outdoor GAC - Seasonal	5/10/2021	195-21-00-0068	\$ 639,167
12	Pierson St	2	13/11			I/S	On outdoor GAC - Seasonal	5/26/2021	195-21-00-0068	\$ 639,167
12	Pierson St								195-21-00-0062	
12	Plymouth St	1A	6.8/13			I/S	On GAC	4/13/2021	195-23-00-0063	\$ 934,044

Zone	Station	Well	Recent levels (PFOA/PFOS)	Recent levels (PFHxS/PFNA)	Recent Levels Hazard Index	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
12	Plymouth St	2A	4.8/9.3			I/S	On GAC	4/29/2021	195-21-00-0062,	\$ 1,096,359
12	Station Rd	3A	4.0/4.8			O/S	Just went over MCL. New GAC on order		195-23-00-0063	
12	Sy Ct	3	12/8.1			O/S	On outdoor GAC - Seasonal	10/28/2020	195-20-00-0056,	\$ 724,517
12	Townline Rd Nes	1A	9.6/9.9			I/S	On GAC	2/10/2020	055-19-00-0014	\$ 100,412
12	Wheeler Rd	3	11/13			I/S	On GAC	3/8/2021	195-21-00-0063	\$ 75,433
12	Wheeler Rd	4	ND/ND			I/S	Since Well #3 went on GAC, levels have dropped. Monitor			
12	Wheeler Rd	5	2.7/6.1			I/S	On GAC	9/6/2019	055-19-00-0017	\$ 15,888
12	William Floyd Pkwy	3A	ND/4.1	ND/ND		I/S	Monitor - Level has been below 5.0. Can blend if needed.			
15	Bicycle Path	1	5.9/2.8	ND/ND	0.24	I/S	Blended for Mn for many years. Monitor. Last blend was ND/ND			
15	Boyle Rd PJ	2	6.1/3.7			I/S	Blended for nitrates for many years. Last blend was 2.7/2.3. New GAC delivered and piped. Sampling before loading.	7/31/2007	195-23-00-0058	\$ 1,004,170
15	Boyle Rd South	1	6.4/4.9	4.1/ND	0.52	I/S	Monitor			
15	College Rd	2	4.0/ND			I/S	Monitor, blended with #4 for chlorides. First time above 1/2 MCL 02/22. Last blend ND/ND.	10/27/2016		
15	Crystal Brook Hollw	2	4.4/3.6			I/S	Blended with any other well. New GAC on order	5/15/2023		
15	Crystal Brook Hollw	4	4.6/6.3			I/S	Monitor - new to list 08/21			
15	Daniel Webster Dr	1	6.2/3.1	ND/ND	0.25	I/S	Monitor			
15	Dare Rd	2	5.0/5.2	2.1/ND	0.30	I/S	Monitor			
15	Edgewood Ave SJ	1A	14/4.7			I/S	On GAC	5/14/2021	195-21-00-0064	\$ 579,263
15	Edgewood Ave SJ	2	6.0/4.7			I/S	Monitor. First time PFOA above 1/2 MCL 02/22			
15	Fairmount Medford	3	13/20			O/S	On Seasonal GAC	5/19/2020	055-19-00-0021,	\$ 609,567
15	Flint Ln	1	4.9/4.2			O/S	On Seasonal GAC	5/28/2021	195-20-00-0052	\$ 157,860
15	Flint Ln	2	5.9/4.8			O/S	On Seasonal GAC	5/15/2021	195-20-00-0057	\$ 1,051,739
15	Hawkins Rd	3	7.3/7.9	6.5/ND	0.77	O/S	Blended with Well #2. New GAC on order	5/25/2023		
15	Horseblock Rd	1	7.7/2.8			I/S	Already blended for nitrates. Assigned to GAC "B" on 12/27/21	12/27/2021	195-21-00-0067	\$ 724,023
15	North Country Rd	1	4.7/3.8	2.1/ND	0.20	I/S	Monitor. Replacement Well #1A coming soon			
15	Oxhead Rd	1A	5.2/68			O/S	On Seasonal GAC	6/7/2017	055-17-00-0014	\$ 265,494
15	Oxhead Rd	2A	6.4/8.9			O/S	Blended inside #3. Last blend was 4.1/6.1 New GAC delivered. Piping installed	5/20/2017	195-23-00-0057	\$ 804,724
15	Oxhead Rd	4	2.5/5.9			O/S	Blended inside #1A, Last blend was ND/5.8	7/1/2017	195-24-00-0061	\$ 500,448
15	Stem Ln	1	4.2/2.1			O/S	On Seasonal GAC	8/6/2020	195-20-00-0058,	\$ 672,080
15	Strathmore Ct	1	4.2/2.1			O/S	Well screen failure - will be retired and replaced by #1A in future		195-20-00-0062	\$ 500,448
15	Strathmore Ct	3	4.1/3.6			O/S	GAC system delivered, yard piping complete. Assigned to GAC 5/6/2023	5/6/2023		
15	Wheat Path	1	5.9/2.2			I/S	With rotations, runs every third day - GAC system delivered 11/1/23. Sampling before loading.			
15	Wheat Path	3	6.0/3.8	4.2/ND	0.50	I/S	First time over 1/2 MCL 03/09/23 - GAC system ordered		195-23-00-0067	\$ 1,025,075
23	Bridgehampton Rd	2A	3/36			I/S	On GAC	10/1/2019		
23	Long Springs Rd	1A	9.2/8.8			O/S	On Seasonal GAC	4/20/2020	055-19-00-0019	\$ 35,490
23	North Magee	3	2/13			O/S				
23	West Prospect	1	5.2/9.9			I/S	On GAC	3/18/2019		
23	West Prospect	2A	ND/4.5			O/S	Monitor, seasonal well, runs in last call for Fe			
26	South Fulton	2	5.5/5.9			O/S	Seasonal well			
32	County Rd 31	1	ND/8.3			I/S	On outdoor GAC - Seasonal	8/19/2020	195-20-00-0055,	\$ 691,008
66	West Neck Sl	5	5.1/2.3	ND/ND	0.22	I/S	First time over 1/2 MCL 02/21/24			
66	West Neck Sl	6	6.3/7.1	ND/ND	0.19	I/S	First time over 1/2 MCL 09/07/23			
	Various						Multiple GAC Filtration Systems		195-24-00-0052	\$ 7,485,696

Total Funds Authorized to date for PFAS related work \$ 21,864,888

Total Funds Authorized to date for Emerging Containment Work \$ 51,290,056

Zone	Station	Well	Recent levels (PFOA/PFOS)	Recent levels (PFHxS/PFNA)	Recent levels Hazard Index	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
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Actions typed in RED have occurred in the past 30 days.

Wells highlighted in green are being treated to remove contaminant

Emerging Contaminant Wells Current Status
All Wells > 1/2 MCL

4/15/2024

1,4 Dioxane MCL = 1.0 ppb

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
1	Albany Ave	6	0.78	I/S	Blended w/ 4A - Last blend 0.48	8/23/2016			
1	Barton Ave	2A	2.05	O/S	Blended w/ any other well. Last blend was 0.78. To remain O/S	2/19/2019			
1	Bay Shore Rd	2	0.52	I/S	First sample above 1/2 MCL 10/13/22. Monitor				
1	Bellmore Ave	3	0.69	I/S	On GAC. Last GAC eff was 0.39, changed 02/9/23				
1	Brook Ave	4	0.60	O/S	O/S for Mn				
1	Forty First St	6	0.74	I/S	Blended with Well #5 for operational control. Last blend was 0.11	8/23/2004			
1	Great Neck Rd	1	3.40	O/S	Blended w/ 2 wells was below 1.0. To remain O/S	10/31/2016			
1	Harvest Ln	1A	2.01	O/S	Locked in Call-3. Last blend 0.85. To remain O/S	10/31/2017			
5	Hollywood Pl	1	1.12	I/S	All work complete. AOP system placed in service 08/09/2023.	8/9/2023	195-20-00-0068, 195-21-00-0052, 195-22-00-0008	\$ 1,097,085	1
5	Mill Lane	13A	0.81	O/S	O/S for pump failure				
5	Mill Lane	14A	0.57	I/S	1st time over 0.5, runs every 3rd day.				
6	Broadway	1A	2.18	O/S	Mechanical installation complete. Waiting on trial run test results. New carbon installed. Holding off for AOP start-up. Waiting for DOH approval		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	2	0.78	I/S	Mechanical installation complete. Waiting on trial run test results. GAC change done 11/14/23. Waiting for DOH approval		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	3	0.88	I/S	Monitor; mini-AOP pilot complete; site work, piping has been relocated.		195-20-00-0066, 195-21-00-0053	\$ 200,023	2
6	Flowerhill Rd	1	1.85	I/S	All construction complete. AOP system placed in service 07/11/2023	7/11/2023	195-20-00-0020, 195-21-00-0051, 195-22-00-0007	\$ 618,674	1
6	Flowerhill Rd	2	1.52	I/S	All construction complete. AOP system placed in service 07/28/2023	7/28/2023	195-20-00-0020, 195-21-00-0051, 195-22-00-0007	\$ 618,674	1
6	Flowerhill Rd	3	0.78	I/S	All construction complete. AOP system placed in service 08/03/2023	8/3/2023	195-20-00-0020, 195-21-00-0051, 195-22-00-0007	\$ 618,674	1
6	Harbor Rd	2A	0.50	I/S	First time a 1/2 MCL 5/24/23				
6	Jennings Rd	1	0.67	I/S	With rotations, runs every other day.				3
6	Jennings Rd	3	0.66	I/S	With rotations, runs every other day				3
6	Mayfair Dr	1	0.83	I/S	Mini AOP pilot complete. On GAC.				2
6	Mayfair Dr	2	0.88	I/S	Mini AOP pilot complete. GAC changed 11/20/23. Last GAC Eff was 0.28				2
6	Woodchck Hillw	1A	1.06	O/S	Blended with Wells #2 and #3. Last blend was 0.90.	9/25/2020			2
6	Woodchck Hillw	2	0.19	I/S	Blended inside Well #3. Last blend was 0.38	8/7/2021			3
6	Woodchck Hillw	3	0.68	I/S	With rotations, runs every other day. GAC exchanged 08/15/23				3
7	McKay Rd	1	1.25	I/S	All work complete. AOP system placed in service 08/07/2023.	8/7/2023	195-20-00-0070, 195-21-00-0055, 195-22-00-0009	\$ 1,062,719	1
9	Douglas Ave	1	1.98	I/S	All construction complete. AOP system placed in service 08/23/2023	8/23/2023	195-22-00-0051, 195-22-00-0053, 195-21-00-0066, 195-22-00-0051, 195-23-00-0007	\$ 1,739,215	1

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
9	Douglas Ave	2	0.51	I/S	All construction complete. AOP system placed in service 09/21/2023	9/21/2023	195-22-00-0051, 195-22-00-0053, 195-21-00-0066, 195-22-00-0051, 195-23-00-0007	\$ 1,739,215	1
9	Middleville	1	1.05	O/S	Blended - Mini AOP pilot complete; site work project started; new GAC vessels delivered and piped. Building complete. Mechanical contract to install equipment in progress. Mini AOP pilot complete. Building complete. Mechanical contract to install equipment in progress. Piping relocated - Mini AOP pilot complete. GAC Bldg expansion complete Piping relocated - Mini AOP pilot complete. GAC Bldg expansion complete		195-21-00-0059, 195-21-00-0070, 195-22-00-0063, 195-24-00-0007	\$ 1,207,123	1
9	Middleville	2	0.56	I/S			195-21-00-0059, 195-24-00-0007	\$ 636,243	1
9	Sunken Meadow	1	0.42	I/S			195-20-00-0065, 195-21-00-0056	\$ 234,602	2
9	Sunken Meadow	2	0.62	I/S			195-20-00-0065, 195-21-00-0056	\$ 234,602	2
9	Waterside Rd	2	0.98	I/S		All construction complete. AOP system placed in service 08/28/2023	8/28/2023	195-20-00-0069, 195-21-00-0054, 195-23-00-0009	\$ 1,087,465
9	Wayne Ct	1	0.67	I/S	Lock in Call-2. Mini AOP pilot complete. Last GAC Effluent - ND. Last GAC exchange on 11/28/23				2
10	Church St NPT	1	0.84	I/S	Nitrate Blend w/ Washington - last blend 0.46; mini AOP pilot complete.	7/25/2007			2
10	Church St NPT	2A	0.75	I/S	Nitrate Blend w/ Washington - last blend 0.13; mini AOP pilot complete.	8/22/2007			2
10	Reservoir Ave	1A	0.41	I/S	Nitrate Blend w/ Washington - Elec service upgrade and mini AOP pilot complete. Last blend - 0.24	1/22/2016	195-21-00-0069	\$ 36,327	3
10	Reservoir Ave	2	0.48	I/S	Nitrate Blend w/ Washington - Elec service upgrade and mini AOP pilot complete. Last blend - 0.31	5/25/2012	195-21-00-0069	\$ 36,327	3
10	Ruth Blvd	1	0.66	O/S	With rotations, runs every other day				
10	Ruth Blvd	2	0.45	O/S	First time over 1/2 MCL 10/07/22. Monitor, on GAC				
10	Ruth Blvd	3	0.57	O/S	With rotations, runs every other day - monitor. Now on seasonal GAC w/ Well #1				
10	South Spur	1	1.45	O/S	Blended with Well #3. Needs carbon exchange	6/8/2021			
10	South Spur	2	1.38	O/S	Remain O/S				
10	South Spur	3	0.76	O/S	Seasonal GAC - monitor				
11	Blue Spruce Ln	2A	0.47	I/S	First time above 1/2 MCL 09/22 - monitor				
11	Blue Spruce Ln	2B	0.58	I/S	First time above 1/2 MCL 01/24 - monitor				
11	Carlson Ave	5	2.16	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2				NONE
11	Carlson Ave	6	3.11	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2				NONE
11	Carlson Ave	7	1.04	I/S	On GAC - Carbon changed 12/7/23. Last GAC Eff 0.74		195-21-00-0074	\$ 27,414	2
11	Cornell Dr	2	0.88	I/S	Reduced pumping. Last GAC Eff 0.81				3
11	Kings Park Rd	2A	0.89	I/S	Rotates Call-1, Call-2 daily, Blended with Well #1A. Last blend 0.51	9/26/2022			
11	Lawrence Rd	1A	0.95	I/S	New GAC installed - and I/S. New GAC/AOP building under construction		195-22-00-0061, 195-24-00-0054, 195-23-00-0062	\$ 1,400,568	2
11	Lawrence Rd	3	3.73	O/S	O/S pending AOP. New GACs for AOP delivered and piped. New GAC/AOP building under construction		195-23-00-0055, 195-24-00-0054	\$ 1,784,775	2
11	Lawrence Rd	4	1.27	O/S	Blended w/ Well #1A or #2A - AOP mini-pilot complete. Assigned to new GAC 06/16/22. Last blend was - 4.7. Carbon exchanged 06/06/23. New GAC/AOP building under construction.	9/17/2020	195-21-00-0066, 195-24-00-0054	\$ 1,188,918	2

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
11	Old Dock Rd	1	1.21	I/S	Locked in Call-2, Mini AOP Pilot complete. New AOP/GAC building structure under construction. New GAC on 01/18/24. Last GAC Eff 0.22		195-22-00-0071, 195-24-00-0053	\$ 1,466,006	1
11	Old Dock Rd	2	1.18	O/S	New well to replace Carlson Ave #5 and #6. New GAC delivered. Building structure under construction.		040-20-0009, 040-20-0010, 195-22-00-0059, 195-22-00-0071, 195-24-00-0053	\$ 3,179,076	2
11	Schuyler Dr	1A	0.53	I/S	First time above 1/2 MCL 11/22. On GAC				
11	Wicks Rd	1	0.52	I/S	With rotations, runs every other day - monitor				
11	Wicks Rd	2	0.55	I/S	First time above 1/2 MCL 07/22 - monitor				
12	Commercial Blvd	2A	0.74	O/S	Well #2 failed and retired. Replacement Well #2A complete. GAC piping relocated to allow for building expansion. Blended inside Well #3. Last blend was 0.14	6/10/2023	195-21-00-0060	\$ 45,583	2
12	Commercial Blvd	3	5.63	I/S	AOP completed and in service	3/1/2018	055-14-00-0016	\$ 909,474	IN SERVICE
12	Eastwood Blvd	2A	2.11	O/S	Leave O/S				
12	Eastwood Blvd	3	0.50	O/S	Monitor. On Seasonal GAC. First time over 1/2 MCL 06/21				
12	Falcon Dr	1	0.66	I/S	Lock in Call-2. Mini AOP Pilot, GAC building expansion complete. GAC Vessels rebuilt. Mechanical installation of AOP complete. I/S 04/03/24	4/3/2024	195-20-00-0067, 195-21-00-0057, 195-23-00-0008	\$ 519,664	1
12	Falcon Dr	2A	0.50	O/S	Mini AOP Pilot GAC building expansion complete. Mechanical installation of AOP complete. I/S on 03/25/24	3/25/2024	195-20-00-0067, 195-21-00-0057, 195-23-00-0008	\$ 519,664	1
12	Falcon Dr	2B	1.53	O/S	Mini AOP Pilot GAC building expansion complete. Mechanical installation of AOP complete. I/S on 04/02/24	4/2/2024	195-20-00-0067, 195-21-00-0057, 195-23-00-0008	\$ 519,664	1
12	Lincoln	2	0.45	I/S	Monitor, throttled to 1,200 gpm and on GAC.				
12	Oval Dr	4	0.63	I/S	Monitor, at or below 1/2 MCL				
12	Peconic St	1	2.60	O/S	Blended. Blend is still over 1.0 Leave O/S. New GAC installed and piped. AOP/GAC building for both wells under construction.	8/15/2016	195-23-00-0061, 195-24-00-0055	\$ 1,199,326	2
12	Peconic St	2	1.12	O/S	Just exceeded MCL. O/S until spring and will be on GAC.		195-22-00-0060, 195-24-00-0055	\$ 1,144,944	2
12	Third Ave	3	0.96	O/S	Blended. Seasonal GAC. Last blend was 0.39. Mini AOP complete	4/1/2019			2
12	Wheeler Rd	4	1.20	I/S	Blended with #3 or #5. Last blend 0.61	6/16/2023			3
12	Wheeler Rd	6	1.32	O/S	On GAC. Blend with other wells. Carbon exchanged 7/11/23. Last blend was 0.5	4/13/2021			3
15	Boyle Rd N	1A	1.21	O/S	Leave O/S				
15	Boyle Rd PJ	1	0.46	I/S	Monitor				
15	Boyle Rd PJ	2	0.43	I/S	Nitrate Blend - monitor	7/31/2007			
15	Boyle Rd PJ	3	0.60	I/S	Nitrate Blend - monitor	7/31/2007			
15	College Rd	3	0.86	O/S	Blended w/ #4 - monitor - Last blend was 0.45	10/27/2016			
15	Daniel Webster	2A	0.43	I/S	Blended - monitor. Last blend was 0.24	8/23/2016			
15	Hawkins Rd	2	0.57	I/S	Rotates Call-1, Call-2 daily, so only runs every other day				
15	Horseblock Rd	1	0.62	I/S	Nitrate Blend - monitor. Last blend was 0.38. Now on GAC	5/12/2013			
15	Jayne Blvd	1	0.44	I/S	Nitrate Blend - monitor. Last blend was 0.34. Now on GAC	6/21/2007			
15	Jayne Blvd	2A	0.97	O/S	Blend with #5 and #1. Seasonal GAC. New carbon 5/15/23. Last blend was 0.58	9/17/2020			2
15	Jayne Blvd	3	1.25	O/S	Blended w/#4 - monitor - Last blend was 0.79. GAC for future AOP being prepared	2/19/2019	195-22-00-0062	\$ 516,448	2
15	Jayne Blvd	4	0.56	I/S	First time above 1/2 MCL 11/23, Monitor				
15	Kayron Dr	1A	0.51	I/S	Has GAC. Monitor				
15	N Washington	1	0.94	O/S	Short timeclock for winter				3

Zone	Station	Well	Recent levels HOP	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)	AOP Construction Phase
15	Oxhead Rd	2A	0.77	O/S	Blended w/ #3 - monitor - Last blend was 0.51 Need to change blend in spring	8/25/2016			
15	Oxhead Rd	3	0.53	I/S	First time above 1/2 MCL 01/24 - monitor				
26	Montauk St Blvd	1A	1.00	O/S	Blended. Seasonal. Level tends to increase with pumping. Last blend was 0.59	4/1/2016			3
26	Montauk St Blvd	2	0.59	O/S	Blended. Seasonal. Level increases with pumping				
60	Gazza Blvd	2	2.30	O/S	Carbon changed 7/6/23. Last GAC Eff 0.28 AOP design approved 12/10/20, Construction contract awarded 09/21; Mini AOP complete. AOP equipment arrived. Building addition complete, electric and mechanical installation in progress.		190-19-00-0004, 195-21-00-0071	\$ 1,349,309	1
60	Smith St Ef	1	22.30	O/S					
	Various				Electrical Service Upgrades for AOP		195-20-00-0072	\$ 562,630	
	Various				Electrical Service Upgrades for AOP		195-21-00-0058	\$ 851,784	
	Bulk Storage, pads				Contract awarded		195-22-00-0054	\$ 452,905	
	Various				Mini-AOP by-products pilot testing project		195-20-00-0051	\$ 220,000	
Total Funds Authorized to date for 1,D related work								\$ 29,425,167	

Actions typed in RED have occurred in the past 30 days.

Wells highlighted in green are being treated to remove contaminant