

# **SUFFOLK COUNTY WATER AUTHORITY**

## **Production Control - Bay Shore, New York**

### **INTER-OFFICE CORRESPONDENCE**

**DATE:** February 26, 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 January 22, 2024, to date.

#### **PFAS**

New GAC systems for Oxhead Rd #2 (Setauket), Church St Hol #2 (Holbrook) and Foxcroft Ln #1A (East Patchogue) have been delivered. Piping installations by CM will be completed soon. All these wells remain out of service pending completion. They will be placed in service for the summer of 2024.

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. Production Control will begin the process of getting them ready for service in March. These systems will be placed in service after April 1. 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 (Mt. Sinai) and Station Rd #2A and #3A (North Bellport).

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. More information will be needed before the impact of this proposed regulation is fully understood.

On March 14, 2023, the EPA announced its intent to set MCLs for PFOA and PFOS at 4 parts per trillion (PPT). This is significantly less than the current NYS MCL of 10 PPT and would likely supersede it. The EPA also intends to regulate an additional 4 PFAS compounds as a group using a Hazard Index system. The full impact of the lower MCL and the Hazard Index are not completely known at this point and are under review by our Laboratory and Operations staff. It is likely however that more SCWA wells will require treatment systems because of these changes.

### **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.

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 to an SCWA site for storage until the building addition is complete has occurred.

Flower Hill Rd (Halesite) – All construction related to the AOP systems at this site is complete. SCWA received approval from NYSDOH on July 7, 2023. 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 is complete. Start-up testing and sampling has been completed and Health Department final inspection has occurred. We have received NYSDOH approval to run the systems. We are currently waiting to complete the installation of replacement Well #1A before placing in service. Existing well #1 will go into service until Well #1A is complete and WQ testing has been performed with appropriate submittals to DHS. We anticipate these systems being in service (excluding well #1A) in the next few weeks.

Broadway (Huntington) – The two (2) AOP reactors have been installed and mechanical installation is complete. System start-up and testing has occurred. We are awaiting test results to submit the final report the Health Department for final approval. We have received a hydrogen peroxide delivery. We hope to have the final Health Department inspection in the next couple of weeks. Approval for service should follow shortly after that. These 2 systems are about one month from going into service.

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

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 erecting the building.

Lawrence Rd (Kings Park) - CM has completed the installation of piping for three new GAC systems at Lawrence Rd. for future AOP systems at that site and PC has placed two of the three systems in service. A fourth set of GAC vessels was recently delivered, and CM has completed the installation of piping for these vessels. A contract for two AOP/GAC buildings was awarded in June 2023. Currently the building contractor is working on erecting the two buildings.

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 at the April 2023 Board meeting. AOP equipment mechanical installation is in progress.

Peconic St (Lakeland) – An additional GAC system for Well #2 has been delivered and CM has completed piping. A contract for an AOP/GAC building over the 2 systems has been awarded. Currently, the building contractor is working on erecting the building.

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 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  
All Wells > 1/2 MCL

2/26/2024

PFOA / PFOS

MCL = 10 ppt

Zone	Station	Well	Recent levels (PFOA/PFOS)	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 delivered 01/24.		195-24-00-0056	\$ 838,778
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 <b>New permanent resin vessels delivered and yard piping complete.</b>	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.	7/18/2019		
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/6.6	O/S	Removed from GAC due to decrease in levels 11/2020. Back on GAC in 2024?	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	O/S	Was blended. Assigned to GAC 05/05/23	5/5/2023	195-22-00-0056	\$ 516,448
1	Old Country Rd	4	4.2/17	O/S	On outdoor GAC - Seasonal	6/26/2020	055-19-00-0020, 195-20-00-0053	\$ 802,282
1	Smith St	8	ND/5.0	I/S	Monitor			
1	Station Rd	1A	5.0/3.9	O/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.			
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	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 as of 07/12/2023	7/12/2023	195-22-00-0058	\$ 516,448
12	Blue Point Rd	4A	5.5/2.6	I/S	Monitor - new to list 12/21. New GAC having piping installed		195-23-00-0059	\$ 571,130
12	Carrol St	2	6.2/4.0	I/S	Blended - no further action planned	8/18/2016		
12	Hallock Ave	1	ND/14	O/S	Assigned to new seasonal GAC system on 4/27/22.	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 <b>GAC Vessels on order</b>			
12	Hurtin Blvd	3	5.5/5.8	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	O/S	Model 10 GAC from Douglas Ave relocated. On GAC treatment 04/22/23.	4/22/2023	195-22-00-0069	\$ 94,827
12	Liberty St	3	7.0/4.6	I/S	With rotations, runs every other day - Locked in Call-3			
12	Lincoln Ave	2	ND/14	I/S	Well I/S and assigned to GAC "B" 03/19/2021.	3/19/2021	195-21-00-0065	\$ 549,854
12	Morris Ave	1	4.0/4.2	I/S	Monitor - Decreased since Well #4 went on GAC - New GAC piping complete		195-20-00-0059	
12	Morris Ave	2A	4.5/6.2	I/S	Monitor - new to list 10/21 -		195-23-00-0056	\$ 1,276,586
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/5.9	I/S	Monitor - new to list 08/14/22			
12	Pierson St	1	6.8/7.9	O/S	On Seasonal GAC	5/10/2021	195-21-00-0068	\$ 639,167
12	Pierson St	2	13/11	O/S	On Seasonal GAC	5/26/2021	195-21-00-0068	\$ 639,167

Zone	Station	Well	Recent levels (PFOA/PFOS)	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	1A	6.8/13	I/S	On GAC	4/13/2021	195-21-00-0062 195-23-00-0063	\$ 934,044
12	Plymouth St	2A	4.8/9.3	I/S	On GAC	4/29/2021	195-21-00-0062, 195-23-00-0063	\$ 1,096,359
12	Station Rd	3A	4.0/4.8	O/S	Just went over MCL			
12	Sy Ct	3	12/8.1	O/S	On Seasonal GAC	10/28/2020	195-20-00-0056, 195-20-00-0061	\$ 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	Assigned to GAC "A" 03/08/21	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/5.0	I/S	Monitor - Level has been below 5.0. Can blend if needed.			
15	Bicycle Path	1	6.1/3.6	I/S	Blended for Mn for many years. Monitor. Last blend was 2.0/ND			
15	Boyle Rd PJ	2	6.1/3.9	I/S	Blended for nitrates for many years. Last blend was 3.6/ND. New GAC delivered 10/19/23. Yard piping complete, will be ready for spring	7/31/2007	195-23-00-0058	\$ 1,004,170
15	Boyle Rd South	1	6.4/4.9	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	O/S	Blended with any other well.	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	4.9/2.6	O/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	5.0/3.8	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, 195-20-00-0052	\$ 609,567
15	Flint Ln	1	4.9/4.2	O/S	On Seasonal GAC	5/28/2021	195-20-00-0057	\$ 157,860
15	Flint Ln	2	5.9/4.8	O/S	On Seasonal GAC	5/15/2021	195-20-00-0063	\$ 1,051,739
15	Hawkins Rd	3	7.3/7.9	O/S	Blended with Well #2.	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	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	5/20/2017	195-23-00-0057	\$ 696,679
15	Oxhead Rd	4	2.5/5.9	O/S	Blended inside #1A, Last blend was ND/5.8	7/1/2017		
15	Stem Ln	1	4.2/21	O/S	On Seasonal GAC	8/6/2020	195-20-00-0058, 195-20-00-0062	\$ 672,080
15	Strathmore Ct	1	4.2/2.1	O/S	Well screen failure - will be retired and replaced by #1A in future		195-22-00-0057	\$ 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	6.9/3.3	I/S	With rotations, runs every third day - GAC system delivered 11/1/23. <b>Yard piping installation completed.</b>		195-23-00-0067	\$ 1,025,075
15	Wheat Path	3	5.4/2.0	I/S	First time over 1/2 MCL 03/09/23			
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	Loaded carbon in existing empty vessel	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	O/S	On outdoor GAC - Seasonal	8/19/2020	195-20-00-0055, 195-20-00-0060	\$ 691,008

Zone	Station	Well	Recent levels (PFOA/PFOS)	Current Status	Action plan (Planning window = 4 months)	Date Treatment I/S or Blend Started	Authorization(s)	Authorization(s) Value to Date (\$)
66	West Neck SI	6	6.3/7.1	I/S	First time over 1/2 MCL 09/07/23			

**Total Funds Authorized to date for PFAS related work** \$ 21,506,907

**Total Funds Authorized to date for Emerging Containment Work** \$ 50,932,075

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

2/26/2024

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	0.60	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 ND	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	1.21	I/S	All work complete. Waiting for bulk peroxide delivery. Using 55-gal drums until 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	IN SERVICE
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.		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.		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	3	0.76	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	2.55	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	IN SERVICE
6	Flowerhill Rd	2	2.08	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	IN SERVICE
6	Flowerhill Rd	3	1.37	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	IN SERVICE
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	0.62	I/S	With rotations, runs every other day. Mini AOP pilot complete.				2
6	Mayfair Dr	2	1.11	I/S	With rotations, runs every other day. Mini AOP pilot complete. GAC changed 11/20/23. Last GAC Eff was 0.15				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	0.69	I/S	Blended inside Well #3. Last blend was 0.38	8/7/2021			3
6	Woodchck Hillw	3	0.77	I/S	With rotations, runs every other day. GAC exchanged 08/15/23				3
7	McKay Rd	1	1.71	I/S	All work complete. Waiting for bulk peroxide delivery. Using 55-gal drums until 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	IN SERVICE
9	Douglas Ave	1	3.75	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	IN SERVICE



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)	Authorization(s) Value to Date (\$)	AOP Construction Phase
9	Douglas Ave	2	0.94	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	IN SERVICE
9	Middleville	1	1.05	O/S	Blended - Mini AOP pilot complete; site work project started; new GAC vessels delivered and piped. Building complete. <b>Mechanical contract to install equipment in progress.</b>		195-21-00-0059, 195-21-00-0070 195-22-00-0063, 195-24-00-0007	\$ 1,207,123	1
9	Middleville	2	0.66	I/S	Mini AOP pilot complete. Building complete. <b>Mechanical contract to install equipment in progress.</b>		195-21-00-0059, 195-24-00-0007	\$ 636,243	1
9	Sunken Meadow	1	0.42	I/S	Piping relocated - Mini AOP pilot complete. GAC Bldg expansion complete		195-20-00-0065, 195-21-00-0056	\$ 234,602	2
9	Sunken Meadow	2	0.62	I/S	Piping relocated - Mini AOP pilot complete. GAC Bldg expansion complete		195-20-00-0065, 195-21-00-0056	\$ 234,602	2
9	Waterside Rd	2	0.71	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	IN SERVICE
9	Wayne Ct	1	0.88	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	0.80	I/S	Nitrate Blend w/ Washington - last blend 0.46; mini AOP pilot complete.	7/25/2007			2
10	Church St NPT	2A	0.95	I/S	Nitrate Blend w/ Washington - last blend 0.13; mini AOP pilot complete.	8/22/2007			2
10	Reservoir Ave	1A	0.49	I/S	Nitrate Blend w/ Washington - Elec service upgrade and mini AOP pilot complete. Last blend - 0.51	1/22/2016	195-21-00-0069	\$ 36,327	3
10	Reservoir Ave	2	0.60	I/S	Nitrate Blend w/ Washington - Elec service upgrade and mini AOP pilot complete. Last blend - 0.39	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	6/8/2021			
10	South Spur	1	1.45	O/S	Blended with Well #3. Needs carbon exchange				
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	0.89	I/S	On GAC - Carbon changed 12/7/23. Last GAC Eff ND		195-21-00-0074	\$ 27,414	2
11	Cornell Dr	2	0.51	I/S	Rotates Call-1, Call-2 daily, so only runs every other day.				3
11	Kings Park Rd	2A	0.92	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	O/S	New GAC installed - and I/S. <b>New GAC/AOP building under construction</b>		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. <b>New GAC/AOP building under construction</b>		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. <b>New GAC/AOP building under construction.</b>	9/17/2020	195-21-00-0066, 195-24-00-0054	\$ 1,188,918	2
11	Old Dock Rd	1	1.15	I/S	Locked in Call-2, Mini AOP Pilot complete. <b>New AOP/GAC building structure under construction.</b> New GAC on 08/22/23. Last GAC Eff 0.78		195-22-00-0071, 195-24-00-0053	\$ 1,466,006	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)	Authorization(s) Value to Date (\$)	AOP Construction Phase
11	Old Dock Rd	2	1.18	O/S	New well to replace Carlson Ave #5 and #6. New GAC delivered. <b>Building structure under construction.</b>		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	0.54	I/S	First time above 1/2 MCL 11/22. Monitor				
11	Wicks Rd	1	0.62	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	5.23	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	0.72	I/S	Lock in Call-2. Mini AOP Pilot, GAC building expansion complete. GAC Vessels rebuilt. Mechanical installation of AOP complete. <b>DOH Approval received. I/S in early March 2024.</b>		195-20-00-0067, 195-21-00-0057, 195-23-00-0008	\$ 519,664	1
12	Falcon Dr	2A	1.44	O/S	Mini AOP Pilot GAC building expansion complete. Mechanical installation of AOP complete. <b>DOH approval received. I/S in early March 2024.</b>		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. <b>DOH approval received. I/S in early March 2024.</b>		195-20-00-0067, 195-21-00-0057, 195-23-00-0008	\$ 519,664	1
12	Lincoln	2	0.49	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	0.87	I/S	Monitor - 1st sample over 1/2 MCL 11/23/21. 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	0.48	I/S	Monitor				
15	Boyle Rd PJ	2	0.33	I/S	Nitrate Blend - monitor	7/31/2007			
15	Boyle Rd PJ	3	0.55	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	0.63	I/S	Nitrate Blend - monitor. Last blend was 0.37. Now on GAC	5/12/2013			
15	Jayne Blvd	1	0.52	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	0.55	I/S	First time above 1/2 MCL 11/23, Monitor				
15	Kayron Dr	1A	0.44	I/S	First time above 1/2 MCL 11/22. Monitor				
15	N Washington	1	0.94	I/S	Short timeclock for winter				3
15	Oxhead Rd	2A	0.77	O/S	Blended w/ #3 - monitor - Last blend was 0.51 <b>Need to change blend in spring</b>	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

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
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. <b>Building addition complete, electric and mechanical installation in progress.</b>		190-19-00-0004, 195-21-00-0071	\$ 1,349,309	
60	Smith St Ef	1	22.30	O/S			195-20-00-0072 195-21-00-0058 195-22-00-0054 195-20-00-0051	\$ 562,630 \$ 851,784 \$ 452,905 \$ 220,000	1
	Various Various Bulk Storage, pads Various				Electrical Service Upgrades for AOP Electrical Service Upgrades for AOP Contract awarded Mini-AOP by-products pilot testing project				
<b>Total Funds Authorized to date for 1,D related work</b>								<b>\$ 29,425,167</b>	

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

Wells highlighted in green are being treated to remove contaminant