

SUFFOLK COUNTY WATER AUTHORITY

Production Control - Bay Shore, New York

INTER-OFFICE CORRESPONDENCE

DATE: August 22, 2023

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 July 24, 2023, to date.

PFAS

A new GAC system for Morris Ave #1 (Holtsville) has been delivered. Piping installation will be performed by CM and the well remains in service as the levels are below the MCL.

Currently, there are 2 untreated wells that have PFAS levels above the MCL. These wells are both out of service. Additional GAC systems are on order for these wells and site work continues prior to receiving delivery of these systems and others.

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. Staff from the Lab, Engineering and Production Control are reviewing the impact that these new regulations will have upon SCWA operations. Many of the wells that have detections of these additional compounds are already on GAC treatment. Many of the new 23 PFC compounds have never been detected. We are already planning on installing treatment at the few sites that do not already have treatment and do not anticipate any difficulties in meeting the MCL when it is proposed to be in effect on 01/01/2025.

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 as a result 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. The contract has been executed and Engineering is reviewing shop drawings for approval. Construction of the GAC building addition for the AOP equipment is underway. 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. Electrical work for the AOP and new generator is scheduled to begin shortly. 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. Site inspection by the Health Department for final approval occurred on 06/21/23. 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. Bulk chemical storage piping is nearly complete but for a backordered valve. 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. Bulk chemical storage piping is nearly complete but for a backordered valve. 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) - Most of the construction related to the AOP system at this site is complete. Bulk chemical storage is installed. Initial start-up trials and sampling have been completed and final inspection by SCDHS occurred last week. We expect approval to operate this week.

Douglas Ave (Northport) - Demolition of the existing structures next door was completed in June 2021. A new GAC/AOP building over the new GAC vessels and reactors is complete. Bulk chemical storage is installed. Initial start-up trials and sampling have been completed and final inspection by SCDHS occurred last week. We expect approval to operate the Well #1 system this week. The Well #2 system has some more sampling to be completed before final approval is granted.

Falcon Dr. (Hauppauge) – The GAC building addition is complete. The three (3) AOP reactors have been installed. The mechanical contract for installation is in progress and is around 95% complete.

The bulk chemical storage is installed, and piping requires completion. These systems are about 2 weeks from start-up testing.

Broadway (Huntington) – The GAC building addition has been completed and the two (2) AOP reactors have been installed and are being connected. These 2 systems are around one month from start-up work and testing.

Sunken Meadow Park (Kings Park) – The GAC building addition has been completed.

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 at the April 2023 Board meeting. The building contractor has submitted shop drawings for review. 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.

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. Design for two AOP/GAC buildings is complete and a contract for this work was awarded at the June Board meeting. The contract is being conformed and contract submittals for approval are in progress.

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 has been installed and CM has completed the yard piping installation for both wells and GAC systems. A new AOP/GAC building for both systems is currently being erected. The AOP mechanical contract for the installation of the two AOP systems and peroxide storage was awarded at the April 2023 Board meeting.

Site work continues for future AOP sites and electrical upgrade work where required continues. The GAC/AOP building for Peconic St. (Lakeland) was also awarded at the June Board meeting. That contract is also being conformed and shop drawing submittals have begun.

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.

SCWA applied for a MCL deferral to the NYSDOH. The application was approved on January 7, 2021. The Authority applied for an additional one-year deferral extension for 1,4-dioxane only in July 2022. The additional year was approved by NYSDOH on August 26, 2022.

Cc: J. Pokorny
T. Schneider
T. Hopkins

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

8/22/2023

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	I/S	On outdoor GAC - Seasonal	5/7/2019		
1	Church St Hol	2	8.7/4.6	O/S	O/S 11/2/18 - pending additional GAC installation			
1	Foxcroft Ln	1A	6.1/33	I/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	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	ND/52	I/S	On outdoor GAC - Seasonal	7/27/2016	055-17-00-0016	\$ 182,842
1	Gus Guerrero	2	ND	I/S	Removed from GAC due to decrease in levels 11/2020.	7/11/2017		
1	Meetinghouse Rd	12A	7.5/120	I/S	On GAC	6/10/2016	055-17-00-0015	\$ 788,844
1	Meetinghouse Rd	14	400/1050	O/S	Same as above. Out of service for pump failure	6/10/2016	055-18-00-0015	
1	Meetinghouse Rd	17	350/7170	I/S	Same as above	6/10/2016		
1	Meetinghouse Rd	19	80/760	I/S	Same as above	6/10/2016		
1	Meetinghouse Rd	22	4.8/130	I/S	On GAC	7/27/2016	055-17-00-0013	\$ 29,528
1	Old Country Rd	1A	3.1/6.9	I/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	I/S	On outdoor GAC - Seasonal	6/26/2020	055-19-00-0020, 195-20-00-0053	\$ 802,282
1	Smith St	8	ND/4.7	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	2.9/3.0	I/S	Runs inside Well #1A when #1A is in service.			
10	Ruth Blvd	2	ND/4.6	I/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	I/S	Well assigned to GAC "B" 09/08/22 - Seasonal	9/8/2022	055-19-00-0018	\$ 23,057
11	St. Johnsland Rd	1	5.0/3.9	I/S	Monitor - new to list 06/21 (6.1/2.8)			
12	Blue Point Rd	1	5.9/4.1	I/S	On outdoor GAC - Seasonal as of 07/12/2023	7/12/2023	195-22-00-0058	\$ 516,448
12	Blue Point Rd	4A	6.6/3.0	I/S	Monitor - new to list 12/21. New GAC on order		195-23-00-0059	\$ 571,130
12	Carrol St	2	6.4/4.1	I/S	Blended - no further action planned	8/18/2016		
12	Hallock Ave	1	ND/6.5	I/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/4.2	I/S	Levels have dropped with Well #1 on GAC, monitor			
12	Hallock Ave	3	2.5/7.4	I/S	Levels drop when Well #1 on GAC is in service, monitor. Locked in Call-2			
12	Horseblock Rd	2	5.6/2.2	I/S	Monitor - new to list 08/21			
12	Hurtin Blvd	3	3.9/3.1	I/S	Engineering for GAC started, GAC ordered			
12	Liberty St	2	10.0/6.1	I/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	8.0/5.3	I/S	With rotations, runs every other day - Locked in Call-3			
12	Lincoln Ave	2	ND/11	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	5.4/6.8	I/S	Monitor - Decreased since Well #4 went on GAC - GAC delivery 6/22/23		195-20-00-0059	
12	Morris Ave	2A	5.4/3.9	I/S	Monitor - new to list 10/21 -		195-23-00-0056	\$ 1,276,586
12	Morris Ave	4	5.6/23	I/S	On outdoor GAC - Seasonal	6/28/2020	195-20-00-0054	\$ 118,797
12	Nichols Rd	2A	ND/6.5	I/S	Monitor - new to list 08/14/22			
12	Pierson St	1	6.8/7.9	I/S	On Seasonal GAC	5/10/2021	195-21-00-0068	\$ 639,167
12	Pierson St	2	13/11	I/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 Seasonal GAC	4/13/2021	195-21-00-0062	
12	Plymouth St	2A	4.8/9.3	I/S	On Seasonal GAC	4/29/2021	195-23-00-0063	\$ 934,044
12	Station Rd	3A	3.5/4.0	I/S	Monitor - Level goes down when #1A is in service in summer. Lowered in call		195-21-00-0062	\$ 634,044
12	Sy Ct	3	16/7.3	I/S	On Seasonal GAC	10/28/2020	195-20-00-0056,	
12	Townline Rd Nes	1A	9.6/9.9	I/S	On GAC	2/10/2020	195-20-00-0061	\$ 724,517
12	Wheeler Rd	3	15/21	I/S	Assigned to GAC "A" 03/08/21	3/8/2021	055-19-00-0014	\$ 100,412
12	Wheeler Rd	4	ND/ND	I/S	Since Well #3 went on GAC, levels have dropped. Monitor		195-21-00-0063	\$ 75,433
12	Wheeler Rd	5	2.7/6.1	I/S	On GAC - Was 18/32, big drop in level at HOP in March '21	9/6/2019	055-19-00-0017	\$ 15,888
12	William Floyd Pkwy	3A	2.1/5.0	I/S	Monitor - Level has been below 5.0. Can blend if needed.			
15	Bicycle Path	1	7.6/4.0	I/S	Blended for Mn for many years. Monitor. Last blend was ND/ND	7/31/2007	195-23-00-0058	\$ 1,004,170
15	Boyle Rd PJ	2	8.0/4.5	I/S	Blended for nitrates for many years. Last blend was 5.1/3.0. Next round of GACs			
15	Boyle Rd South	1	6.8/4.6	I/S	Monitor			
15	College Rd	2	4.6/2.0	I/S	Monitor, blended with #4 for chlorides. First time above 1/2 MCL 02/22. Last blend	10/27/2016		
15	Crystal Brook Hollw	2	7.5/6.4	I/S	ND/ND.	5/15/2023		
15	Crystal Brook Hollw	4	8.4/4.3	I/S	Blended with any other well.			
15	Daniel Webster Dr	1	4.9/2.6	I/S	Monitor - new to list 08/21			
15	Edgewood Ave SJ	1A	14/4.7	I/S	Monitor			
15	Edgewood Ave SJ	2	4.6/3.3	I/S	New GAC vessels installed in existing building. Assigned to GAC 05/14/21	5/14/2021	195-21-00-0064	\$ 579,263
15	Fairmount Medford	3	10/15	I/S	Monitor. First time PFOA above 1/2 MCL 02/22			
15	Flint Ln	1	3.9/3.0	I/S	On Seasonal GAC	5/19/2020	055-19-00-0021,	
15	Flint Ln	2	5.8/5.0	I/S	On Seasonal GAC	5/28/2021	195-20-00-0052	\$ 609,567
15	Hawkins Rd	3	4.0/4.5	I/S	On Seasonal GAC	5/15/2021	195-20-00-0057	\$ 157,860
15	Horseblock Rd	1	7.7/2.8	I/S	On Seasonal GAC		195-20-00-0063	\$ 1,051,739
15	Oxhead Rd	1A	5.2/68	I/S	Continue to monitor			
15	Oxhead Rd	2A	4.8/6.4	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	4	2.7/4.1	O/S	On Seasonal GAC	6/7/2017	055-17-00-0014	\$ 265,494
15	Stem Ln	1	4.2/21	I/S	Blended inside #3. Last blend was 3.5/4.8 GAC on order	5/20/2017	195-23-00-0057	\$ 696,679
15	Strathmore Ct	1	4.2/2.1	O/S	Blended inside #1A, Last blend was ND/3.1	7/1/2017		
15	Strathmore Ct	3	4.1/3.6	I/S	On Seasonal GAC	8/6/2020	195-20-00-0058,	
15	Wheat Path	1	5.1/2.8	I/S	Well screen failure - will be retired and replaced by #1A in future		195-20-00-0062	\$ 672,080
15	Wheat Path	3	4.4/3.2	I/S	GAC system delivered, yard piping complete. Assigned to GAC 5/6/2023	5/6/2023	195-22-00-0057	\$ 500,448
23	Bridgehampton Rd	2A	3/36	I/S	With rotations, runs every third day - GAC system ordered			
23	Long Springs Rd	1A	9.2/8.8	I/S	First time over MCL 03/09/23			
23	North Magee	3	2/13	O/S	On GAC	10/1/2019		
23	West Prospect	1	5.2/9.9	I/S	On Seasonal GAC	4/20/2020	055-19-00-0019	\$ 35,490
23	West Prospect	2A	ND/4.5	I/S				
26	South Fulton	2	5.5/5.9	O/S	Loaded carbon in existing empty vessel	3/18/2019		
32	County Rd 31	1	ND/5.7	I/S	Monitor, seasonal well, runs in last call for Fe			
					Seasonal well			
					On outdoor GAC - Seasonal	8/19/2020	195-20-00-0055,	
							195-20-00-0060	\$ 691,008

Total Funds Authorized to date for PFAS related work

\$ 18,271,119

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 (\$)
Total Funds Authorized to date for Emerging Containment Work								\$ 40,971,804

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

8/22/2023

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)	Authorization(s) Value to Date (\$)	AOP Construction Phase
1	Albany Ave	6	0.72	I/S	Blended w/ 4A - Last blend 0.40	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	0.54	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 ND, changed 02/9/23				
1	Brook Ave	4	0.60	O/S	O/S for Mn				
1	Forty First St	6	0.66	I/S	Blended with Well #5 for operational control. Last blend was 0.23	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	1.08	I/S	All work complete. Bulk storage lacks one valve for completion. 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	1
5	Mill Lane	13A	0.75	I/S	With rotations, runs every third day. New carbon in April '22				
6	Broadway	1A	2.18	I/S	Mini-AOP pilot and GAC Bldg expansion complete. Mechanical installation in progress. GAC changed 08/17/2023. Last GAC Eff was ND.		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	2	1.07	I/S	Mini-AOP pilot and GAC Bldg expansion complete. Mechanical installation in progress. New carbon 7/27/23. Last GAC Effluent - ND.		195-20-00-0066, 195-21-00-0053	\$ 200,023	1
6	Broadway	3	0.74	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	3.57	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	2.71	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	1.01	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	0.57	I/S	With rotations, runs every other day.				3
6	Jennings Rd	3	0.76	I/S	With rotations, runs every other day				3
6	Mayfair Dr	1	0.48	I/S	With rotations, runs every other day. Mini AOP pilot complete.				2
6	Mayfair Dr	2	0.83	I/S	With rotations, runs every other day. Mini AOP pilot complete.				2
6	Woodchck Hillw	1A	0.99	I/S	Blended with Wells #2 and #3. Last blend was 0.90.	9/25/2020			2
6	Woodchck Hillw	2	0.38	I/S	Blended inside Well #3. Last blend was 0.55	8/7/2021			3
6	Woodchck Hillw	3	0.63	I/S	With rotations, runs every other day. GAC exchanged 08/15/23				3
7	McKay Rd	1	1.55	I/S	All work complete. Bulk storage lacks one valve for completion. 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	1
9	Douglas Ave	1	4.59	O/S	Mini AOP pilot, new GAC vessels in service. GAC/AOP building complete. Mechanical work for AOP install complete. Start up samples complete. SCDHS inspection 08/16/23. Waiting for approval		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)	Authorization(s) Value to Date (\$)	AOP Construction Phase
9	Douglas Ave	2	2.85	I/S	Mini AOP pilot, new GAC vessels in service. GAC/AOP building complete. Mechanical work for AOP install complete. Start up and sampling in progress. New carbon 05/11/23. Last GAC Eff - ND		195-22-00-0051, 195-22-00-0053, 195-21-00-0066, 195-22-00-0051, 195-23-00-0007, 195-21-00-0059, 195-21-00-0070	\$ 1,739,215	1
9	Middleville	1	1.05	O/S	Blended - Mini AOP pilot complete; site work project started; new GAC vessels delivered. Last blend was 1.03. Building construction 75 % complete		195-22-00-0063	\$ 730,573	1
9	Middleville	2	0.76	I/S	Mini AOP pilot complete. Building project 75% complete		195-21-00-0059	\$ 159,693	1
9	Sunken Meadow	1	0.69	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	0.94	I/S	All site work and mechanical construction complete. Start up and sampling complete. SCDHS inspection 08/16/23. Waiting for approval.		195-20-00-0069, 195-21-00-0054, 195-23-00-0009	\$ 1,087,465	1
9	Wayne Ct	1	0.96	I/S	Lock in Call-2. Mini AOP pilot complete; Carbon changed on 12/12/22. Last GAC Effluent - 0.97. Scheduling a GAC exchange				2
10	Church St NPT	1	1.00	I/S	Nitrate Blend w/ Washington - last blend 0.54; mini AOP pilot complete.	7/25/2007			2
10	Church St NPT	2	0.93	I/S	Nitrate Blend w/ Washington - last blend 0.52; mini AOP pilot complete.	8/22/2007			2
10	Reservoir Ave	1A	0.66	I/S	Nitrate Blend w/ Washington - Elec service upgrade and mini AOP pilot complete. Last blend - 0.48	1/22/2016	195-21-00-0069	\$ 36,327	3
10	Reservoir Ave	2	0.55	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	0.71	I/S	With rotations, runs every other day				
10	Ruth Blvd	2	0.42	I/S	First time over 1/2 MCL 10/07/22. Monitor, on GAC				
10	Ruth Blvd	3	0.55	I/S	With rotations, runs every other day - monitor. Now on seasonal GAC w/ Well #1				
10	South Spur	1	1.66	I/S	Blended with Well #3. Last blend was 0.44	6/8/2021			
10	South Spur	2	1.38	O/S	Remain O/S				
10	South Spur	3	0.70	I/S	Seasonal GAC - monitor				
11	Blue Spruce Ln	2A	0.42	I/S	First time above 1/2 MCL 09/22 - monitor				
11	Carlson Ave	5	2.16	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311	NONE
11	Carlson Ave	6	3.11	O/S	Remain O/S - Retire & replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311	NONE
11	Carlson Ave	7	0.88	I/S	On GAC - Carbon changed 09/24/22. Last GAC Eff 0.86		195-21-00-0074	\$ 27,414	2
11	Cornell Dr	2	0.80	I/S	Rotates Call-1, Call-2 daily, so only runs every other day	9/26/2022			3
11	Kings Park Rd	2A	0.73	I/S	Rotates Call-1, Call-2 daily, Blended with Well #1A. Last blend 0.35				
11	Lawrence Rd	1A	1.67	I/S	New GAC installed - and I/S		195-22-00-0061 195-23-00-0062	\$ 516,448	2
11	Lawrence Rd	3	3.73	O/S	O/S pending AOP. New GACs for AOP delivered and piped. Blended w/ Well #1A or #2A - AOP mini-pilot complete. Assigned to new GAC 06/16/22.		195-23-00-0055	\$ 900,655	2
11	Lawrence Rd	4	1.65	I/S	Last blend was - 1.4. Carbon exchanged 06/06/23	9/17/2020	195-21-00-0066	\$ 1,188,918	2
11	Old Dock Rd	1	1.20	I/S	Locked in Call-2, Mini AOP Pilot complete. New AOP/GAC building foundation under construction. New GAC scheduled for 08/22/23. Last GAC Effluent -		195-22-00-0071 195-22-00-0059, 195-22-00-0071	\$ 92,781	1
11	Old Dock Rd	2	1.18	O/S	New well to replace Carlson Ave #5 and #6. New GAC delivered.			\$ 609,229	2
11	Schuyler Dr	1A	0.54	I/S	First time above 1/2 MCL 11/22. Monitor				
11	Wicks Rd	1	0.61	I/S	With rotations, runs every other day - monitor				

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
------	---------	------	----------------------	-------------------	--	---	------------------	--	------------------------------

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

Wells highlighted in green are being treated to remove contaminant