

# SUFFOLK COUNTY WATER AUTHORITY

## Production Control - Bay Shore, New York

### INTER-OFFICE CORRESPONDENCE

**DATE:** June 21, 2021

**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

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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 May 17, 2021 to date.

#### **PFC's**

Since the last update, Production Control has placed in service two (2) new GAC systems. Pierson St #2 (Nesconset) and Flint Ln #1 (Selden) have all been assigned to GAC systems to remove PFOA/PFOS. With these systems on-line, all SCWA wells that have PFOA/PFOS levels above the MCL will either be on treatment or will be out of service; except for Hallock Ave #1. Hallock is currently being blended below the MCL.

The Engineering department has an additional two (2) GAC systems on order for Hallock Ave (Smithtown) and Horseblock Rd (Farmingville). The concrete pads for these systems are ready for delivery. Horseblock Rd was delivered to the site on 06/17/21 and installation has begun. The system for Hallock is scheduled to be delivered on June 24<sup>th</sup>.

#### **1,4-dioxane**

SCWA submitted final contract plans to NYSDOH for the Smith St East Farmingdale AOP system in late March 2021. The Health Department approved these plans on June 1, 2021. The bid documents for this AOP are in final preparations and will be published when complete.

Design work and contract preparation continues with regards to the mechanical installation, controls, and peroxide delivery systems contracts that will be required to build the AOP systems. Site work continues for future AOP sites and electrical upgrade work where required continues. The Furnish & Deliver contract for 16 AOP reactors representing the wells at sites awarded WIIA grants had a bid opening date of January 21, 2021. The bid was awarded to Xylem, Inc. and they have executed the contract and a Purchase Order has been issued. We are now entering the submittal approval stage. Delivery of the first four reactors is currently projected to be in November 2021. The mechanical and electrical plans for Flower Hill Rd were submitted to NYSDOH in early June for their review and approval.

Two contracts were awarded for AOP building additions at 7 locations: Hollywood Pl, McKay Rd, Waterside Dr, Sunken Meadow Park, Broadway, Falcon Dr, and Flower Hill Rd. These additions will house 13 AOP systems. Foundation work is nearly complete at Flower Hill Rd. and is complete at Waterside Rd, McKay Rd, and Hollywood Pl. Foundation work for Falcon Dr. has begun. Metal building additions have been installed at Waterside, and Hollywood. The steel framing has been erected at McKay Rd. A public meeting was held with Village of Northport officials and the public regarding the construction plans for the AOP systems at Douglas Avenue; a favorable response was received. Demolition of the existing house and cottage was completed on 06/17/21 and site work can continue to receive two new GAC systems. GAC vessels for the AOP system are scheduled to be delivered in late June. The concrete contractor has already mobilized to the site to begin work for the GAC pads.

The AOP pilot work needed to obtain NYSDOH approval for the use of AOP at any of our sites continues. Production Control staff utilizing our mini-AOP reactor pilot trailer have completed pilot testing of twenty-eight (28) wells. Pilot testing on Lawrence Rd #4 and #3 (Kings Park) has begun. These will be the last two wells to be piloted. Analysis of the data obtained to date has revealed no surprises in terms of by-product formation resulting from the AOP process. Last month, the Authority requested a waiver from further pilot testing from NYSDOH due to the extensive amount of data already provided and similar results at every site we have piloted. Another requirement for AOP system design is Water Quality Characterization. This is necessary for every well receiving AOP treatment. It helps identify compounds besides 1,4 dioxane that may be competing for the hydroxyl radicals created during AOP. SCWA has received Board approval to enter into an agreement with the University of North Carolina at Charlotte to perform this testing moving forward.

The new well Old Dock Rd #2 (Kings Park) has been drilled and the well building is currently under construction. CM has installed the yard piping tie-ins. This well was drilled with the knowledge that it will require an AOP treatment system. It will replace 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.

## **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, are being blended to below the MCL 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.

Similar strategies apply to 1,4-dioxane management. We continue to add blending where we can. As water demand has increased with the warmer weather, we have had to utilize wells that have 1,4-dioxane levels above the MCL. Wells with levels of 1,4-dioxane over the MCL are programmed in our SCADA system that they are the last wells on and the first wells off. 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. We are also scheduling and exchanging carbon on all wells that have exceeded the MCL where we have a carbon system in place. Carbon does remove 1,4-dioxane, not well, but it does for a short period of time. Therefore, with new carbon, we can keep the levels as low as possible. This has and will continue to escalate our carbon and labor expenses.

SCWA applied for a MCL deferral to the NYSDOH. The application was approved on January 7, 2021.

Cc: J. Pokorny  
K. Durk  
T. Hopkins

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

6/21/2021

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	15/19	I/S	On GAC	4/24/2020	195-20-00-0068	\$ 37,512
1	Church St Hol	1A	12/10	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 - pending additional GAC installation			
1	Foxcroft Ln	1A	5.1/30	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	8.1/5.0	I/S	Blended inside #1A - Seasonal well, #1A seasonal GAC. Last blend was 4.4/2.7	7/18/2019		
1	Smith St	8	ND/5.3	I/S	Monitor			
1	Station Rd	1A	11/50	I/S	On outdoor GAC - Seasonal	3/14/2020	055-19-00-0015	\$ 417,765
1	Station Rd	2A	7.6/7.0	I/S	Runs inside Well #1A when #1A is in service.			
1	Station Rd	3A	4.4/5.1	I/S	Monitor - Level goes down when #1A is in service in summer			
10	Ruth Blvd	3	ND/7.8	I/S	Piped to existing GAC. Currently @ 1/2 MCL, monitor		055-19-00-0018	\$ 23,057
11	St. Johnsland Rd	1	6.1/2.9	I/S	Monitor - new to list			
12	Blue Point Rd	1	6.4/4.4	I/S	Blended with any other well. Last blend 3.7/2.9	10/31/2016		
12	Carrol St	2	4.1/2.5	I/S	Blended - no further action planned	8/18/2016		
12	Hallock Ave	1	ND/16	I/S	Blend with Well #2 and #3 - GAC scheduled for delivery June 2021, last blend 7.0	5/11/2021		
12	Hallock Ave	2	ND/6.8	I/S				
12	Hallock Ave	3	ND/7.6	I/S	With rotations, runs every other day		195-21-00-0061	\$ 758,862
12	Liberty St	2	8.8/4.6	I/S	With rotations, runs every other day - no further action planned			
12	Liberty St	3	7.2/3.1	I/S	With rotations, runs every other day - no further action planned			
12	Lincoln Ave	2	4.8/17	I/S	Blended; New GAC vessels delivered. Yard piping completed. Sampling new piping. Well I/S and assigned to GAC "B" 03/19/2021.	3/19/2021	195-21-00-0065	\$ 549,854
12	Morris Ave	1	4.7/3.9	I/S	Monitor - Has been Non detect when Well #4 is in service		195-20-00-0059	\$ 576,048
12	Morris Ave	4	4/19	I/S	On outdoor GAC - Seasonal	6/28/2020	195-20-00-0054	\$ 118,797
12	Pierson St	1	10/4.3	I/S	Assigned to new GAC "A" system 5/10/21	5/10/2021	195-21-00-0068	\$ 639,167
12	Pierson St	2	13/9.8	I/S	GAC delivered 12/30/20. Piping by CM complete. Initial carbon fill scheduled 5/24/21. Well assigned to GAC 5/26/21	5/26/2021	195-21-00-0068	\$ 639,167
12	Plymouth St	1A	8.2/13.0	I/S	Assigned to new GAC "B" system 4/13/2021	4/13/2021	195-21-00-0062	\$ 634,044
12	Plymouth St	2A	6.2/10	I/S	Assigned to new GAC "A" system 4/29/2021	4/29/2021	195-21-00-0062	\$ 634,044
12	Sy Ct	3	14/6.3	I/S	On outdoor GAC - Seasonal	10/28/2020	195-20-00-0056,	\$ 724,517
12	Townline Rd Nes	1A	9/14	I/S	On GAC	2/10/2020	055-19-00-0014	\$ 100,412
12	Wheeler Rd	3	22/16	I/S	Well I/S and assigned to GAC "A" 03/08/21	3/8/2021	195-21-00-0063	\$ 75,433
12	Wheeler Rd	4	ND/2.9	I/S	Since Well #3 went on GAC, levels have dropped more than 70%. Monitor			
12	Wheeler Rd	5	2.5/6.5	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	2.1/6.8	I/S	Monitor - Level has been below 5.0. Can blend if needed.			
15	Bicycle Path	1	7.8/2.4	I/S	Blended for Mn for many years. Monitor. Last blend was 2.3/ND			
15	Boyle Rd PJ	2	8.0/4.3	I/S	Blended for nitrates for many years. Last blend was 4.8/2.3	7/31/2007		
15	Boyle Rd South	1	5.5/4.2	I/S	Monitor			
15	Daniel Webster Dr	1	5.1/2.7	I/S	Monitor			

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 (\$)
15	Dare Rd	2	5.3/4.7	I/S	No action planned, continue to monitor			
15	Edgewood SJ	1A	13.0/5.9	I/S	Blended for Nitrates - New GAC vessels installed in existing building. Initial carbon fill completed 05/11/21. Assigned to GAC 05/14/21	5/14/2021	195-21-00-0064	\$ 579,263
15	Fairmount Medford	3	22/33	I/S	On outdoor GAC - Seasonal	5/19/2020	195-20-00-0052	\$ 609,567
15	Flint Ln	1	4.8/2.9	I/S	New GAC will load in Spring. Assigned to new GAC "B" 05/28/21	5/28/2021	195-20-00-0057	\$ 157,860
15	Flint Ln	2	5.4/6.0	I/S	New GAC will load in Spring. Assigned to new GAC "B" 05/15/21	5/15/2021	195-20-00-0063	\$ 1,051,739
15	Hawkins Rd	3	4.4/5.9	I/S	Continue to monitor			
15	Horseblock Rd	1	10/3.5	I/S	Already blended for nitrates. GAC System delivery 06/21. Last blend 5.7/2.2	5/12/2013	195-21-00-0067	\$ 724,023
15	Oxhead Rd	1A	3.8/110.0	I/S	On outdoor GAC - Seasonal	6/7/2017	055-17-00-0014	\$ 265,494
15	Oxhead Rd	2A	6.5/7.2	I/S	Blended inside #3. Last blend was 4.1/4.6	5/20/2017		
15	Oxhead Rd	4	2.8/7.8	I/S	Blended inside #1A, Last blend was ND/5.6	7/1/2017		
15	Stem Ln	1	6.2/23	I/S	On outdoor GAC - Seasonal	8/6/2020	195-20-00-0058, 195-20-00-0062	\$ 672,080
15	Strathmore Ct	1	5.2/2.8	I/S	With rotations, runs every third day - no further action planned			
15	Strathmore Ct	3	6.6/5.4	I/S	With rotations, runs every third day - no further action planned			
15	Wheat Path	1	5.9/2.6	I/S	With rotations, runs every third day - no further action planned			
20	Gus Guerrera	1	ND/23.0	I/S	On outdoor GAC - Seasonal	7/27/2016	055-17-00-0016	\$ 182,842
20	Gus Guerrera	2	ND/2.2	I/S	Removed from GAC due to decrease in levels 11/2020	7/11/2017		
20	Meetinghouse Rd	12A	47.0/150.0	I/S	On GAC	6/10/2016	055-17-00-0015	\$ 788,844
20	Meetinghouse Rd	14	27.0/220.0	I/S	Same as above	6/10/2016	055-18-00-0015	
20	Meetinghouse Rd	17	150.0/1,510.0	I/S	Same as above	6/10/2016		
20	Meetinghouse Rd	19	96.0/440.0	I/S	Same as above	6/10/2016		
20	Meetinghouse Rd	22	ND/15	I/S	On GAC	7/27/2016	055-17-00-0013	\$ 29,528
20	Old Country Rd	1A	2.4/4.8	I/S	Blended with #3 and throttled. Last blend was ND/2.8	7/30/2007		
20	Old Country Rd	4	10/48	I/S	On outdoor GAC - Seasonal	6/26/2020	055-19-00-0020, 195-20-00-0053	\$ 802,282
23	Bridgehampton Rd	2A	3/36	I/S	On GAC	10/1/2019		
23	Long Springs Rd	1A	9/8	I/S	On outdoor GAC - Seasonal	4/20/2020	055-19-00-0019	\$ 35,490
23	North Magee	3	2/13	O/S				
23	West Prospect	1	7/20	I/S	Loaded carbon in existing empty vessel	3/18/2019		
23	West Prospect	2A	ND/5.4	I/S	Monitor, seasonal well, runs in last call for Fe			
32	County Rd 31	1	ND/22	O/S	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** \$ 12,700,176

**Total Funds Authorized to date for Emerging Containment Work** \$ 23,634,691

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

6/21/2021

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 (\$)
1	Albany Ave	6	0.66	I/S	Blended w/ 4A - Last blend 0.26	8/23/2016		
1	Barton Ave	2A	2.05	O/S	Blended w/ any other well. Last blend was 0.78	2/19/2019		
1	Brook Ave	4	0.60	O/S	O/S for Mn			
1	Forty First St	6	0.80	I/S	Blended with Well #5 for operational control. Last blend was 0.26	8/23/2004		
1	Great Neck Rd	1	3.40	O/S	2 well blend was below 1.0. Blended	10/31/2016		
1	Harvest Ln	1A	1.80	I/S	Locked in Call-3. Last blend 0.83	10/31/2017		
5	Hollywood Pl	1	0.74	I/S	Lock in Call-2 to minimize run time. One of two well fields in Zone. Mini AOP pilot complete.		195-20-00-0068,	
5	Mill Lane	13A	0.69	I/S	Blow-off basin modified, GAC Bldg addition complete. With rotations, runs every third day. New carbon in April '21		195-21-00-0052	\$ 518,835
6	Broadway	1A	2.00	I/S	Mini-AOP pilot complete; site work, piping has been relocated. Blended with Well #2 and #3. Last blend was 0.4		195-20-00-0066, 195-21-00-0053	\$ 200,023
6	Broadway	2	1.26	I/S	Mini-AOP pilot complete; site work, piping has been relocated; Well locked in lower call to minimize run time. New carbon 06/06/21. Last GAC Eff was 0.05		195-20-00-0066, 195-21-00-0053	\$ 200,023
6	Broadway	3	0.72	I/S	Monitor; mini-AOP pilot complete; site work, piping has been relocated		195-20-00-0066, 195-21-00-0053	\$ 200,023
6	Flowerhill Rd	1	2.67	I/S	Runs blended with two other wells, last on - first off. Mini AOP pilot complete; piping has been relocated; PSE&G service upgrade and Control Room elec upgrade completed; GAC Bldg addition foundation complete. Carbon changed 06/10/21.		195-20-00-0020, 195-21-00-0051	\$ 168,625
6	Flowerhill Rd	2	2.59	I/S	New carbon 09/20, Locked in Fire Call. 4/21 GAC EFF was Non detect. Mini AOP pilot complete; site work; building expansion project; PSE&G service upgrade complete, Control Room elec upgrade completed.		195-20-00-0020, 195-21-00-0051	\$ 168,625
6	Flowerhill Rd	3	1.73	I/S	New carbon 10/20, Locked in Call-4; 4/21 GAC Eff was Non detect. Mini AOP pilot complete; site work; building expansion project; PSE&G service upgrade complete, Control Room elec upgrade completed.		195-20-00-0020, 195-21-00-0051	\$ 168,625
6	Jennings Rd	1	0.57	O/S	With rotations, runs every other day. O/S for pump failure 4/20/21			
6	Jennings Rd	3	0.72	I/S	With rotations, runs every other day			
6	Mayfair Dr	1	0.47	I/S	With rotations, runs every other day. *GAC Effluent sample. Mini AOP pilot complete			
6	Mayfair Dr	2	0.89	I/S	With rotations, runs every other day. *GAC Effluent sample. Mini AOP pilot complete			
6	Woodchck Hillw	1A	1.00*	I/S	Blended with Wells #2 and #3. *GAC Eff sample	9/25/2020		
6	Woodchck Hillw	3	0.59	I/S	With rotations, runs every other day			
7	McKay Rd	1	1.68	I/S	Mini AOP pilot complete; GAC building addition in progress. GAC vessel painting and rehab complete		195-20-00-0070, 195-21-00-0055	\$ 465,219
9	Douglas Ave	1	2.73	I/S	Mini AOP pilot complete			
9	Douglas Ave	2	1.20	I/S	Mini AOP pilot complete			
9	Middleville	1	1.18	I/S	Blended - Mini AOP pilot complete; site work project authorized; new GAC vessels delivered.		195-21-00-0059, 195-21-00-0070	\$ 630,573
9	Middleville	2	0.87	I/S	Mini AOP pilot complete		195-21-00-0059	\$ 159,693

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 (\$)
9	Sunken Meadow	1	1.11	I/S	Piping relocated - Mini AOP pilot complete. Last GAC Eff was 0.84		195-20-00-0065, 195-21-00-0056	\$ 234,602
9	Sunken Meadow	2	0.81	I/S	Monitor; piping relocated - Mini AOP pilot complete		195-20-00-0065, 195-21-00-0056	\$ 234,602
9	Waterside Rd	2	1.03	I/S	Mini AOP pilot complete; blow-off basin complete; GAC Bldg expansion foundation complete, <b>building erection almost complete</b> . Last GAC Eff was 0.83		195-20-00-0069, 195-21-00-0054	\$ 608,715
9	Wayne Ct	1	1.07*	I/S	Lock in Call-2. Mini AOP pilot complete; *GAC Effluent sample. Carbon changed on 06/08/21			
10	Church St NPT	1	0.91	I/S	Nitrate Blend w/ Washington - last blend 0.48; mini AOP pilot complete	7/25/2007		
10	Church St NPT	2	0.95	I/S	Nitrate Blend w/ Washington - last blend 0.55; mini AOP pilot complete	8/22/2007		
10	Reservoir Ave	1A	0.78*	I/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; PSE&G service upgrade completed; mini AOP pilot complete.	1/22/2016	195-21-00-0069	\$ 36,327
10	Reservoir Ave	2	0.64*	I/S	Nitrate Blend w/ Washington - *GAC Effluent Sample; PSE&G service upgrade completed; mini AOP pilot complete.	5/25/2012	195-21-00-0069	\$ 36,327
10	Ruth Blvd	1	0.66	I/S	With rotations, runs every other day			
10	Ruth Blvd	3	0.61	I/S	With rotations, runs every other day - monitor Now piped to GAC			
10	South Spur	1	1.60	I/S	Blended with Well #3, last blend was 0.6	6/8/2021		
10	South Spur	2	1.38	O/S	Remain O/S - Try to blend if we need more supply			
10	South Spur	3	0.75	I/S	Seasonal GAC - monitor			
11	Carlson Ave	5	2.16	O/S	Remain O/S - Long term, retire and replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311
11	Carlson Ave	6	3.11	O/S	Remain O/S - Long term, retire and replace w/ Old Dock Rd #2; drilling of Old Dock #2 completed		040-20-0009, 040-20-00-0010	\$ 598,311
11	Carlson Ave	7	0.82	I/S	Monitor - <b>Piped and assigned to existing GAC 06/04/21</b>		195-21-00-0074	\$ 27,414
11	Cornell Dr	2	0.80	I/S	Rotates Call-1, Call-2 daily, so only runs every other day			
11	Kings Park Rd	2A	0.53	I/S	Rotates Call-1, Call-2 daily, so only runs every other day			
11	Lawrence Rd	1A	0.90	I/S	With rotations, runs every other day - monitor			
11	Lawrence Rd	3	3.73	O/S	O/S pending AOP		195-21-00-0066	\$ 594,459
11	Lawrence Rd	4	0.90	I/S	Blended w/ Well #1A and #3 - Monitor - Last blend was 0.7. <b>AOP mini-pilot started</b>	9/17/2020	195-21-00-0066	\$ 594,459
11	Old Dock Rd	1	0.54*	I/S	Locked in Call-2, Mini AOP Pilot complete, *GAC Eff sample			
11	Wicks Rd	1	0.69	I/S	With rotations, runs every other day - monitor			
12	Commercial Blvd	2	1.13	O/S	Well failed and retired, have permit for Well #2A; drill in Fall '21. GAC piping relocated to allow for building expansion		195-21-00-0060	\$ 45,583
12	Commercial Blvd	3	5.37	I/S	<b>AOP completed - Station Treated sample is Negative</b>	3/1/2018	055-14-00-0016	\$ 909,474
12	Eastwood Blvd	2A	2.11	O/S	Leave O/S			
12	Eastwood Blvd	3	0.52	I/S	<b>Monitor. On GAC. First time over 1/2 MCL</b>			
12	Falcon Dr	1	0.63	I/S	Lock in Call-2. Mini AOP Pilot complete, piping relocated, building expansion awarded, bldg design submittals in. GAC Vessels rebuilt.		195-20-00-0067, 195-21-00-0057	\$ 217,314
12	Falcon Dr	2A	1.44	O/S	Throttled to 500 gpm, Blended w/ #1. , Mini AOP Pilot complete, piping relocated, building expansion awarded, bldg foundation to begin soon		195-20-00-0067, 195-21-00-0057	\$ 217,314
12	Falcon Dr	2B	1.53	O/S	Leave O/S pending AOP. Mini AOP pilot complete, piping relocated, building expansion awarded, bldg foundation to begin soon		195-20-00-0067, 195-21-00-0057	\$ 217,314
12	Lincoln	2	0.49	I/S	Monitor, throttled to 1,200 gpm and on GAC			
12	Oval Dr	4	0.57	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	8/15/2016		

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 (\$)
12	Peconic St	2	0.89	I/S	Limited run time in winter			
12	Third Ave	3	0.72	I/S	Blended. Seasonal GAC. Last blend was 0.31. Mini AOP complete	4/1/2019		
12	Wheeler	6	0.91	I/S	On GAC. Blend with any other well. Last blend was 0.22	4/13/2021		
15	Boyle Rd N	1A	1.21	O/S	Leave O/S			
15	Boyle Rd PJ	1	0.55	I/S	Monitor			
15	Boyle Rd PJ	2	0.45	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	1.10	I/S	Blended w/ #4 - monitor - Last blend was 0.51	10/27/2016		
15	Daniel Webster	2A	0.50	I/S	Blended - monitor. Last blend was 0.13	8/23/2016		
15	Hawkins Rd	2	0.64	I/S	Rotates Call-1, Call-2 daily, so only runs every other day			
15	Horseblock Rd	1	0.78	I/S	Nitrate Blend - monitor. Last blend was 0.47	5/12/2013		
15	Jayne Blvd	1	0.47	I/S	Nitrate blend - monitor. Last blend was 0.28	6/21/2007		
15	Jayne Blvd	2A	1.02*	I/S	Blend with #5 and #1. Seasonal GAC. *GAC Effluent sample	9/17/2020		
15	Jayne Blvd	3	0.86	I/S	Blended w/#4 - monitor - Last blend was 0.47	2/19/2019		
15	Kayron Dr	1A	0.48	I/S	Rotates Call-1, Call-2 daily, so only runs every other day			
15	N Washington	1	0.80	I/S	Short timeclock for winter			
15	Oxhead Rd	2A	0.76	I/S	Blended w/ #3 - monitor - Last blend was 0.60	8/25/2016		
26	Montauk St Blvd	1A	ND	I/S	Blended. Seasonal. Level tends to increase with pumping.	4/1/2016		
60	Gazza Blvd	2	3.62	O/S	Remain O/S. Additional supply to zone from Zone 12 now.			
60	Smith St Ef	1	22.30	O/S	AOP design approved 12/10/20, going out to bid soon; Mini AOP complete		190-19-00-0004	\$ 1,249,309
	Various				Electrical Service Upgrades for AOP		195-20-00-0072	\$ 562,630
	Various				Electrical Service Upgrades for AOP		195-21-00-0058	\$ 851,784
	Various				Mini-AOP by-products pilot testing project		195-20-00-0051	\$ 220,000
<b>Total Funds Authorized to date for 1,D related work</b>								<b>\$ 10,934,515</b>

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

Wells highlighted in green are being treated to remove contaminant