



Station 20, Well 20

Evergreen Avenue, New Hyde Park, N.Y.

Status:	Out of Service since January 27, 2021
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples Collected on January 14, 2021)	1,4 – dioxane (.330 parts per billion) PFOS (10.6 parts per trillion) PFOA (11.6 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA.	
Phase I Construction Project Chronological Progress:	
<p>May 2020 Pilot Study Performed</p> <p>August 2020 Pilot Study Report Sent to NYS Department of Health (“NYSDOH”)</p> <p>October 2020 Full Site Engineering Report Complete and Sent to NYSDOH</p> <p>November 2020 Project Plans and Specifications Complete and sent to NYSDOH</p> <p>December 2020 Construction Start Date with Estimated Completion Date of April 2021</p> <p>March 15, 2021 GAC Vessels Arrived</p> <p>May 2021 Estimated Well Startup and Completed Works Approval</p>	
Regulatory Approvals Dates	<p>Pilot Study Report April 2021</p> <p>Full Engineering Report April 2021</p> <p>Approval of Overall Project May 2021</p>
Phase I Current Status	
<p>All water assets are now installed. April 19th and 20th Bacteria samples will be taken from the air stripper and Well 20. Bacteria samples on the clearwell will be taken the week of April 14th. GAC vessels will be rinsed and backwashed during the week of April 14th. Arsenic sampling will take place at the end of next week. Target date for clean samples and approval to go to system is the second week of May. Approval request to utilize drainage system on Evergreen Avenue is ongoing but not expected to hold up GSAC treatment process going into service in time for peak demand season.</p>	
Phase 2 Construction Project Permanent Building and Site Work Chronological Progress:	
<p>January 2021 Design of Permanent GAC Building</p> <p>March 2021 Estimated Bid Date</p>	

June 2021 Estimated Construction Start Date

December 2021 Estimated Completion Date

Phase 3 Construction Project Installation of AOP Treatment, Replacement of Elevated Storage Tank and Site Rehabilitation

Estimated Date of Engineering Report December 2022

Project Start Date September 2023

Estimated Completion Date December 2024

Station 28, Well 28

Miriam Parkway, Elmont, N.Y.

Status:	April 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples collected on March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (4.3 parts per trillion) PFOA (13.2 parts per trillion)
Most Recent Treated Water Test Results: (Samples collected on March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (<1.8 parts per trillion) PFOA (<1.8 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA.	
Phase 1 Construction Project Chronological Progress:	
November 2019 Full Site Engineering Report Complete and Sent to NYSDOH November 2019 Project Plans and Specifications Complete and sent to NYSDOH December 2019 Construction Start Date with Estimated Completion Date of May 2020 June 2020 Estimated Well Startup and Completed Works Approval	
Regulatory Approvals Dates	Full Engineering Report March 2020 Approval of Overall Project June 2020
Phase 2 Construction Project Temporary Fabric Enclosures:	
January 2021 Enclosure Installation Started February 2021 Enclosure Installation Complete	
Phase 3 Construction of Permanent Building around GAC Vessels	
Permanent building installation to take place beginning January 2023	
**** Well 28 running to system through new treatment. Water quality is in compliance with all NYSDOH Standards	

Station 35, Well 35A

Cisney Avenue, Floral Park, N.Y.

Status:	April 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results: (Samples collected March 11, 2021)	1,4 – dioxane (.680 parts per billion) PFOS (5.3 parts per trillion) PFOA (8.1 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process (“AOP”) to remove 1,4 – dioxane.	
Phase I Construction Project Chronological Progress:	
<p>April 2020 Pilot Study Performed</p> <p>August 2020 Pilot Study Report Sent to NYS Department of Health (“NYSDOH”)</p> <p>October 2020 Full Site Engineering Report Complete and Sent to NYSDOH</p> <p>December 2020 Project Plans and Specifications Complete and sent to NYSDOH</p> <p>January 2021 Construction Start Date with Estimated Completion Date of May 2021</p> <p>March 2021 GAC Vessels Expected to Arrive</p> <p>March 2021 AOP Enclosure Expected to Arrive</p> <p>April 2021 AOP Equipment Expected to Arrive</p> <p>June 2021 Estimated Well Startup and Completed Works Approval</p>	
Regulatory Approvals Dates	<p>Pilot Study Report March 2021</p> <p>Full Engineering Report NCDOH April 2021 (Awaiting comments from NYSDOH)</p> <p>Approval of Overall Project June 2021</p>
Phase I Current Status	
<p>The Water Authority experienced several weeks of delay due to weather conditions. The AOP enclosure arrived on March 4, 2021 and is set. The AOP reactor is scheduled to arrive on April 13, 2021. The GAC vessel manufacturer has been delayed by one month and are now scheduled for delivery on April 28th. Given the proximity of this site to the LIRR we are required to receive Coordination approval which was received April 3, 2021. During these delays contractors continued to work on site piping and other essential project items. Target date for approval to go to system remains at June 2021.</p>	

Phase 2 Construction Project Permanent GAC Building and Site Work Chronological Progress:

April 2021 Design of Permanent GAC Building

April 2021 Estimated Bid Date for Permanent GAC Building

July 2021 Estimated Construction Start Date for Permanent GAC Building; expected to take 6 months

Phase 3 Construction Project Demolition of Existing Well House to Raise Wells and Site Rehabilitation Work:

Project will start following the installation of all Water Authority wellhead treatment for emerging contaminants for all Water Authority impacted wells.

Note: Well 35 at this site is out of service due to high levels of iron.

Station 40, Wells 40 & 40A (Headquarters Site) Union Turnpike, New Hyde Park, N.Y.

Status:	April 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results:	
Well 40 (Samples collected March 11, 2021)	1,4 – dioxane (.590 parts per billion) PFOS (4.9 parts per trillion) PFOA (8.5 parts per trillion)
Well 40A (Samples collected March 11, 2021)	1,4 – dioxane (1.20 parts per billion) PFOS (6.3 parts per trillion) PFOA (9.5 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process (“AOP”) to remove 1,4 – dioxane.	
Phase I Construction Project Chronological Progress:	
April 2020 Pilot Study Performed August 2020 Pilot Study Report Sent to NYS Department of Health (“NYSDOH”)	
Regulatory Approvals Dates	Pilot Study Report March 2021 Full Engineering Report NCDOH April 2021 (Awaiting comments from NYSDOH) Approval of Overall Project June 2021
<p>*Water Authority is awaiting NYSDOH comments on Pilot Study.</p> <p>Available space for wellhead treatment at this site is an obstacle to preparing the full engineering report and to prepare project design and specifications. This site serves as the Water Authority headquarters location.</p> <p>In December 2020 the Water Authority acquired one section of property adjacent to this well station. The Water Authority has begun action to acquire a second property adjacent to this site which will provide adequate space for the installation of new wellhead treatment systems. Eminent Domain procedures have begun, a public hearing is scheduled for April 19, 2021, and we expect results toward obtaining this adjacent property by July 2021.</p> <p>The Water Authority has instructed the engineering firm of H2M Group to prepare a request for blending proposal of the two wells located at Station 40. This report is in draft form and expected to be forwarded</p>	

in April 2021. The Engineering Report is expected to be complete by May 2021 using the assumption that the adjacent property is acquired.

Potential delays could occur toward the procurement of necessary treatment system assets. It is expected to take 3-4 months to obtain GAC vessels and 6-7 months to obtain an AOP reactor.

Station 44, Wells 44, 44A, 44B, 44C Chelsea Street, Elmont, N.Y.

Update: April 7, 2021	
Status:	April 2021 In Service
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results:	
Well 44 (Samples collected March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (7.3 parts per trillion) PFOA (12.2 parts per trillion)
Well 44A (Samples collected March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (26.7 parts per trillion) PFOA (10.1 parts per trillion)
Well 44B (Samples collected March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (9.0 parts per trillion) PFOA (16.2 parts per trillion)
Well 44C (Samples collected March 9, 2021)	1,4 – dioxane (ND parts per billion) PFOS (9.2 parts per trillion) PFOA (16.2 parts per trillion)
Most Recent Treated Water Test Results:	
Well 44 / 44A (Samples collected March 9, 2021)	1,4 – dioxane (NA parts per billion) PFOS (<1.9 parts per trillion) PFOA (<1.9 parts per trillion)
Well 44B / 44C (Samples collected March 9, 2021)	1,4 – dioxane (NA parts per billion) PFOS (<1.9 parts per trillion) PFOA (<1.9 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA.	
Phase I Construction Project Chronological Progress:	
September 2019 Full Engineering report complete and sent to NYSDOH	
November 2019 Project design and specifications complete and sent to NYSDOH	

December 2019 Project Construction begins

January 2020 Calgon Carbon column testing performed

Actual Regulatory Approval Dates

Full Engineering Report March 2020

Design Approval April 2020

Approval of Overall Project in Service June 2020

Phase 2 Construction Project Temporary Fabric Vessel Enclosures:

December 2020 Construction of Fabric tent enclosures around 2 sets of vessels

January 2021 Tent Enclosures are Complete

Phase 3 Construction Project Permanent Treatment Buildings, Raising Wells and full site Rehabilitation:

August 2021 Design and Specifications for Public Bidding

October 2021 Construction starts

Project length is estimated at 1 ½ years

***Wells 44, 44A, 44B and 44C running to system through new treatment. Water quality is in compliance with all NYSDOH Standards.

Station 57, Wells 57, 57A

South 6th Street, New Hyde Park, N.Y.

Update: April 2021	
Status:	Out of Service since October 15, 2020
NYS Allowable levels:	1,4 – dioxane (1 part per billion) PFOS (10 parts per trillion) PFOA (10 parts per trillion)
Most Recent Raw Water Test Results (last test October 2020):	
Well 57	1,4 – dioxane (14.5 parts per billion) PFOS (7.9 parts per trillion) PFOA (68.7 parts per trillion)
Well 57A	1,4 – dioxane (11.9 parts per billion) PFOS (4.8 parts per trillion) PFOA (61.9 parts per trillion)
Construction Project for the Installation of Granular Activated Carbon (“GAC”) vessels to remove PFOS/PFOA and installation of Ultraviolet Advanced Oxidation Process (“AOP) to remove 1,4 – dioxane.	
Phase I Construction Project Chronological Progress of Full Site Rehabilitation:	
December 2016 Acquired property adjacent to this site	
September 2018 Pilot Study Performed	
March 2019 Pilot Study Report Sent to NYS Department of Health (“NYSDOH”)	
June 2019 Full Engineering report complete and sent to NYSDOH	
January 2020 Project design and specifications complete and sent to NYSDOH	
October 2020 Project Construction begins with Estimated Completion Date of October 2021	
Estimated Regulatory Approval Dates	Pilot Study Report July 2019 Full Engineering Report May 2020 Approval of Overall Project October 2021
This project includes a full site rehabilitation including demolition of all existing buildings, raising wells, new air stripper tower, new emergency generator, replacement of all water assets and appurtenances and new wellhead treatment for the removal of emerging contaminants.	
Current Status	
The Water Authority experienced several weeks delay resulting from Winter weather conditions. There were also delays due to unexpected storage tank piping. This project includes full demolition of assets	

which is complete. The Air Stripper and GAC buildings have foundations in place and walls are being formed at this time. Site piping is well underway. The AOP reactor has already been delivered and is stored off site. The GAC vessels are complete and ready to be shipped. The new Air Stripper is complete and ready to be shipped. The Emergency Generator is ordered and expected to be delivered by late Summer.

Despite the aforementioned delays we expect completion of this project to remain at October 2021 for approval to go into service.