



BOROUGH OF ESSEX FELLS
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January 20, 2023

Dear Residents and Water Customers,

Enclosed is a regulatory notice advising you of the results of 4th quarter 2022 water quality tests conducted on our water system. The test results confirm that the water we are supplying to you continues to meet New Jersey's drinking water standard for PFOA and all other state and federal water quality requirements. Please review the notice for details.

As you will recall from prior updates, PFOA levels in the water being delivered have been within the maximum standard of 14 parts per trillion since October 2021. We initially accomplished this, in response to new state regulations and a PFOA exceedance in the third quarter of 2021, by shutting down wells with higher levels of PFOA and changing the way we blend the water sources that remained in service. In May 2022, our first treatment facility to remove PFOA began operating. That interim facility allowed us to return some of the wells that were taken offline to service, while keeping overall PFOA levels within the New Jersey standard.

Our plans for a larger PFOA treatment facility, which will remove PFOA on a permanent basis from the water drawn from 13 of our 16 wells, were submitted to the NJ Department of Environmental Protection in the summer of 2022 and are awaiting various approvals. The NJDEP's review process is taking longer than expected. As a result, although we had initially hoped that the new facility would begin operating in April 2023, that will not be possible. Subject to receiving final NJDEP approval shortly, we anticipate awarding procurement and construction contracts for the 13-well permanent treatment facility in the next several months and having the facility completed in early 2024.

You should expect to receive quarterly notices like the enclosed document until permanent PFOA treatment systems are operating at all our treatment plants, including those we are not currently using. These updates are required by law and are simply meant to keep you informed about your drinking water and the capital improvements we are making in response to new regulations and the prior MCL exceedance.

Sincerely,

Edward A. Davis
Mayor
Borough of Essex Fells

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

The Essex Fells Water System Had Levels of Perfluorooctanoic Acid (PFOA) Above A Drinking Water Standard.

The Essex Fells Water System Incurred a One-Year Violation Because Our Permanent Treatment Facility Was Not in Operation by August 17, 2022, One Year After the Date of Our Initial PFOA Maximum Contaminant Level (MCL) Exceedance.

January 20, 2023

As you know, our water system previously violated a New Jersey drinking water standard for PFOA. The level of PFOA in the water being delivered to you is now within the New Jersey standard, but we must take additional steps to remediate the original PFOA violation on a permanent basis at all of our treatment facilities. As our customers, you have a right to know what happened, what you should do, and what we have already done and are doing to correct this situation.

You were previously notified of the PFOA maximum contaminant level (MCL) violations in public notices issued on September 16, 2021, December 15, 2021, March 15, 2022, June 15, 2022 and October 19, 2022. Per the federal Safe Drinking Water Act, we will continue to provide you with an updated public notice every 3 months until we complete all approved remedial measures and return to compliance with the MCL at all of our treatment facilities, including those that are currently offline. The most recent public notice and updates regarding this matter are available at <https://www.essexfellsboro.com/pages/PFOA>.

Essex Fells Water Department routinely monitors for the presence of federal and state regulated drinking water contaminants. New Jersey adopted a maximum contaminant level (MCL), for PFOA in 2020 and monitoring began in 2021. The MCL for PFOA is 0.014 micrograms per liter ($\mu\text{g/L}$) (or 14 parts per trillion) and is based on a running annual average (RAA), in which the four most recent quarters of monitoring data are averaged. During the third quarter of 2021 (July 1, 2021 to September 30, 2021) we initially exceeded the MCL for PFOA at all three (3) of our treatment plants (TPs). Per the New Jersey Safe Drinking Water Act, our water system is required to take any action necessary to bring the water into compliance with the applicable MCL within one year from the initial violation.

Treatment plants (TPs) TP002015 and TP003020 remain above the standard but are offline, not delivering water to the public. It should be noted for these treatment plants, the RAA for PFOA is based on samples collected previously as there are no current results since the source is no longer being used. See the table and “What is being done” below for more information.

TP001001 is the only treatment plant currently in use and the most recent results are within the drinking water standard. Please see the table below. This was initially accomplished, in October 2021, by shutting down some of the 13 wells that supply TP001001 and adjusting operational protocols. We also constructed an interim PFOA treatment facility for two (2) of our other wells at TP001001, which began operating on May 19, 2022. We submitted our application for NJ Department of Environmental Protection (NJDEP) approval to construct a larger, permanent PFOA treatment facility at TP001001, which we expect to be completed in 2024. See “What is being done” below for more information. Nevertheless, since the larger, permanent treatment facility was not operating at TP001001 by August 17, 2022, one year after the date of our initial PFOA MCL exceedance, our water system incurred an additional violation of the New Jersey Safe Drinking Water Act.

On December 21, 2022 we received results for a sample collected on December 8, 2022 showing that the water leaving the treatment plant in use had a PFOA level of 0.00913 $\mu\text{g/L}$ (9.13 parts per trillion). With this latest result, the RAA for PFOA based on samples collected over the last year is now 0.0111 $\mu\text{g/L}$ (11.1 parts per trillion).

The fourth quarter 2022 PFOA value, the RAA based on samples collected during the past four quarters, and the current status of each treatment plant are summarized in the table below.

Treatment Plant (TP)	Most Recent Sample Collection Date	Fourth Quarter 2022 PFOA Value	Running Annual Average	Current Status of Treatment Plants
TP001001	12-08-2022	0.00913 µg/L	0.0111 µg/L	Online and in service. Interim treatment facility in operation as of 5-19-2022 on 2 of 13 wells. Larger, permanent treatment facility has been designed and submitted for approval; we anticipate awarding construction contracts in first quarter 2023 and completing the permanent facility in 2024.
TP003020	N/A	N/A	N/A	Offline as of 9-24-2021 and undergoing treatment design.
TP002015	N/A	N/A	N/A	Offline as of 9-24-2021 and undergoing treatment design.

We are required to keep you informed of the status of any treatment plant with a PFOA MCL violation even if it has been shut off and is no longer delivering water, as the violation still persists. That is why TP003020 and TP002015 are listed in the above table, even though they are presently offline.

What is PFOA?

Perfluorooctanoic acid (PFOA) is a member of the group of chemicals called per- and polyfluoroalkyl substances (PFAS), used as a processing aid in the manufacture of fluoropolymers used in non-stick cookware and other products, as well as other commercial and industrial uses, based on its resistance to harsh chemicals and high temperatures. PFOA has also been used in aqueous film-forming foams for firefighting and training, and it is found in consumer products such as stain-resistant coatings for upholstery and carpets, water-resistant outdoor clothing, and grease proof food packaging. Major sources of PFOA in drinking water include discharge from industrial facilities where it was made or used and the release of aqueous film-forming foam. Although the use of PFOA has decreased substantially, contamination is expected to continue indefinitely because it is extremely persistent in the environment and is soluble and mobile in water.

What does this mean?

**People who drink water containing PFOA in excess of the MCL over time could experience problems with their blood serum cholesterol levels, liver, kidney, immune system, or, in males, the reproductive system. Drinking water containing PFOA in excess of the MCL over time may also increase the risk of testicular and kidney cancer. For females, drinking water containing PFOA in excess of the MCL over time may cause developmental delays in a fetus and/or an infant. Some of these developmental effects may persist through childhood.*

* For specific health information, see https://www.nj.gov/health/ceohs/documents/pfas_drinking%20water.pdf.

What should I do?

- Anyone concerned about their health should consult with their personal healthcare provider.
- The New Jersey Department of Health advises that infant formula and other beverages for infants, such as plain water or juice, should be prepared with bottled water when PFOA is elevated in drinking water.
- Pregnant, nursing, and women considering having children may choose to use bottled water or a home filter designed to remove PFOA for drinking and cooking to reduce exposure to PFOA.
- Other people may also choose to use bottled water for drinking and cooking to reduce exposure to PFOA or a home water filter that is certified to reduce levels of PFOA.
- Home water treatment devices are available that can reduce levels of PFOA. If a water treatment device is used, it is important to follow the manufacturer's guidelines for maintenance and operation. For more specific information regarding the effectiveness of home water filters for reducing PFOA, visit the National Sanitation Foundation (NSF) International website, <http://www.nsf.org/>. [NSF does not certify reduction of PFOA to the NJ MCL for PFOA.]
- Boiling your water will not remove PFOA.

For more information on the New Jersey state standards, see <https://www.nj.gov/dep/watersupply/pdf/pfoa-pfos-faq.pdf> or <https://www.nj.gov/dep/pfas/drinking-water.html>.

For additional information regarding PFOA from the federal government, including fact sheets and answers to frequently asked questions, please refer to the following resources from the United States Environmental Protection Agency (EPA): <https://www.epa.gov/sdwa/drinking-water-health-advisories-pfoa-and-pfos>. Note that EPA has not established standards for PFOA.

What is being done?

As indicated above, Essex Fells has constructed a PFOA treatment facility for two (2) of our wells at TP001001 and has shut down the other two treatment plants (TP002015 and TP003020). We have also adjusted operational protocols, including the manner in which we blend our water sources that remain in service, in order to reduce the overall level of PFOA in the water being delivered to our customers. As a result of these steps, Essex Fells is currently supplying water that is below the 0.014 µg/L MCL for PFOA and meets all other water quality standards. Design plans and specifications for a larger PFOA treatment facility at TP001001, which will remove PFOA contaminants on a permanent basis from the water drawn from 13 of our 16 wells, have been submitted to the NJDEP. We anticipate awarding procurement and construction contracts in the next several months and having such facility completed in 2024. Our engineers and other professionals are in the process of finalizing the design and project details for two additional PFOA treatment facilities at TP002015 and TP003020 which will remove PFOA on a permanent basis from water drawn from our 3 remaining wells and allow us to bring those three wells back into service.

To view all the drinking water quality data collected by Essex Fells Water Department visit https://www9.state.nj.us/DEP_WaterWatch_public/index.jsp and enter NJ0706001 for the PWSID.

For more information, please contact William Ryden at 973-650-1029 or wryden@anderson-denzler.com. You may also contact the Essex Fells Water Department by mail at 318 Runnymede Road, Essex Fells, NJ 07021.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Essex Fells Water Department, Water System ID#: NJ0706001.

Date distributed: January 20, 2023