



Chelmsford Water District

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Chelmsford Water District PFAS Summary and Update

January 14, 2022

The Chelmsford Water District (the “District”) will be providing updates regarding per- and polyfluoroalkyl substances (PFAS). The District will continue to monitor for PFAS6 in its finished water and will update the public regarding any actions or issues related to potential PFAS contamination that may be found in its water. If you need any additional information or clarification on any of these items, contact Todd Melanson, Environmental Compliance Manager 978-256-2931 tmelanson@chelmsfordwater.com

Regulatory summary and update:

On October 2, 2020, the Massachusetts Department of Environmental Protection (MassDEP) published its PFAS public drinking water standard known as a maximum contaminant level (MCL) of 20 nanograms per liter (ng/L) or ppt - individually or for the sum on the concentrations of six specific PFAS compounds. These six PFAS compounds are: perflourooctane sulfonic acid (PFOS); perfluorooctanic acid (PFOA); perfluorohexane sulfanic acid (PFHxS); perfluoronanonic acid (PFNA); Perfluoroheptanoic acid (PFHpA); and perfluorodecanoic acid (PFDA). MassDEP abbreviates this set of six PFAS compounds as “PFAS6”.

Chelmsford Water District Action Summary:

The July pre-regulatory sampling as well as the initial regulatory and confirmatory sampling rounds which occurred in November and December 2020 results were posted on the District’s Summary and Update of **January 21, 2021**. All of the individual results for the 1st, 2nd and 3rd Quarters of 2021 were posted on the District’s Summary and Update. All Summary and Updates are online at the District’s website: [District PFAS Summary and Updates](#) | [Chelmsford Water District](#)

The Monthly Compliance Sampling and Quarterly results are shown in ppt and special notes (*):

4 th Quarter Results				2021 Quarterly Average				
Sample Dates:	Oct-2021	Nov-2021	Dec-21	Jan-Mar	April-June	July-Sept	Oct-Dec	MADEP MCL
				1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
CS WTP	18.4	19.5	18.7	14	20	21	19	20
RN WTP	18.6	21.4	19.6	13	14	16	20	20
SS WTP	11.4	NA*	NA *	9.0	8.0	9.8	11	20

*: The Smith Street Plant was shut down in late October for the winter period and not subject to sampling. It will be resampled when it comes back online in the Spring of 2022.

The result concentrations require the District to continue monthly compliance monitoring which was initiated on January 2021. The **Third Quarterly Results of 21 ppt violated the PFAS6 MCL of 20 ppt** but only at the Crooked Spring WTP. This violation is a Tier 2 violation and requires a formal MassDEP approved Public Notice which has been distributed. The District has formally received its Notice of Noncompliance (NON) and has responded to MassDEP’s **issues and concerns**.

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Given the return of the Crooked Spring Water Treatment Plant (WTP) to PFAS compliance for the fourth quarter, any short term action plan requiring alternative water supplies has been tabled until such time as another Quarterly MCL violation. The District has focused on bringing on line replacement well to help balance the system and possibly reduce the concentrations of this contaminant and to complete the process of the final solution for the Crooked Spring WTP. The District's PFAS treatment pilot study performed under the MassDEP PFAS Grant/Reimbursement for Engineering and Design Work for PFAS Remediation, has completed with the best option for treatment at the Crooked Spring WTP being referred to MassDEP for review. The next phase will be the complete engineering and design process which would be followed by construction of additional treatment based on the findings of the pilot study.