



LAKE COUNTY PUBLIC WATER DISTRICT

Phone - Area Code 847 - 746-2052 Fax - 847 - 746-1852

500 - 17th STREET ZION ILLINOIS 60099

March 23, 2022

Michael L. Brown, Division Manager
Division of Public Water Supplies/Bureau of Water
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Dear Mr. Brown:

The Illinois Environmental Protection Agency (IEPA) has conducted a statewide investigation into the occurrence of Per- and Polyfluoroalkyl Substances (PFAS) in finished water produced by community water supplies. As part of this investigation, IEPA sampled and analyzed the District's finished water for PFAS and has requested that the District inform you of the test results."

PFAS comprises a group of many manmade substances that have been produced for many years for applications ranging from water and stain proofing to firefighting. While some PFAS may no longer be in production, they can persist in the environment.

Neither IEPA nor US EPA have developed enforceable drinking water standards (MCLs) for PFAS. IEPA has developed for groundwater health-based "guidance" levels for the small number of PFAS for which appropriate information is available. These guidance levels are not regulatory limits. The District's source of supply is Lake Michigan. Although the guidance is for groundwater, IEPA has applied it to the District's surface water supply as benchmarks for comparison with sampling results

IEPA sampled District finished water for PFAS in November and December, 2020 and January 2021. The sampling results as summarized by IEPA are contained in the attached Appendix A. In a letter to the District, IEPA stated: "Illinois EPA compared the detected levels of PFAS in the analytical results from your CWS to the guidance levels and none of the results exceeded those levels".



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The District has continued to monitor for PFAS in sampling as may be required by IEPA.

If you have questions, please contact:

Sincerely,

Gerold L. Topcik
Board Chairman

GLT/klj

cc: Barb Lieberoff, Office of Community Relations
Illinois Environmental Protection Agency

Brian Koch, Division of Environmental Health
Illinois Department of Public Health

Appendix A

TP01 – Sampled 11/9/2020		
PFAS Analyte (Acronym)	Guidance Level	Sample Results
Perfluorobutanesulfonic acid (PFBS)	140,000 ng/L (0.14 mg/L)	ND
Perfluoroheptanoic acid (PFHpA)	----- ^a	ND
Perfluorohexanesulfonic acid (PFHxS)	140 ng/L (0.00014 mg/L)	ND
Perfluorononanoic acid (PFNA)	21 ng/L (0.000021 mg/L)	ND
Perfluorooctanesulfonic acid (PFOS)	14 ng/L (0.000014 mg/L)	2.1
Perfluorooctanoic acid (PFOA)	2 ng/L (0.000002 mg/L)	ND
Perfluorodecanoic acid (PFDA)	----- ^a	ND
Perfluorododecanoic acid (PFDoA)	----- ^a	ND
Perfluorohexanoic acid (PFHxA)	560,000 ng/L (0.56 mg/L)	ND
Perfluorotetradecanoic acid (PFTA)	----- ^a	ND
Perfluorotridecanoic acid (PFTrDA)	----- ^a	ND
Perfluoroundecanoic acid (PFUnA)	----- ^a	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	----- ^a	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	----- ^a	ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	----- ^a	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	----- ^a	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	560 ng/L (0.00056 mg/L)	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	----- ^a	ND

^a No toxicity criteria available

Minimum Reporting Level (MRL) = 2.0 ng/L

ND = Not Detected

Nanograms per Liter (ng/L) = Part per Trillion (ppt)

TP01 – Sampled 12/15/2020		
PFAS Analyte (Acronym)	Guidance Level	Sample Results
Perfluorobutanesulfonic acid (PFBS)	140,000 ng/L (0.14 mg/L)	ND
Perfluoroheptanoic acid (PFHpA)	----- ^a	ND
Perfluorohexanesulfonic acid (PFHxS)	140 ng/L (0.00014 mg/L)	ND
Perfluorononanoic acid (PFNA)	21 ng/L (0.000021 mg/L)	ND
Perfluorooctanesulfonic acid (PFOS)	14 ng/L (0.000014 mg/L)	2.4
Perfluorooctanoic acid (PFOA)	2 ng/L (0.000002 mg/L)	ND
Perfluorodecanoic acid (PFDA)	----- ^a	ND
Perfluorododecanoic acid (PFDoA)	----- ^a	ND
Perfluorohexanoic acid (PFHxA)	560,000 ng/L (0.56 mg/L)	ND
Perfluorotetradecanoic acid (PFTA)	----- ^a	ND
Perfluorotridecanoic acid (PFTrDA)	----- ^a	ND
Perfluoroundecanoic acid (PFUnA)	----- ^a	ND

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	----- ^a	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	----- ^a	ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	----- ^a	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	----- ^a	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	560 ng/L (0.00056 mg/L)	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	----- ^a	ND

^a No toxicity criteria available

Minimum Reporting Level (MRL) = 2.0 ng/L

ND = Not Detected

Nanograms per Liter (ng/L) = Part per Trillion (ppt)

TP01DUP – Sampled 12/15/2020		
PFAS Analyte (Acronym)	Guidance Level	Sample Results
Perfluorobutanesulfonic acid (PFBS)	140,000 ng/L (0.14 mg/L)	ND
Perfluoroheptanoic acid (PFHpA)	----- ^a	ND
Perfluorohexanesulfonic acid (PFHxS)	140 ng/L (0.00014 mg/L)	ND
Perfluorononanoic acid (PFNA)	21 ng/L (0.000021 mg/L)	ND
Perfluorooctanesulfonic acid (PFOS)	14 ng/L (0.000014 mg/L)	2.6
Perfluorooctanoic acid (PFOA)	2 ng/L (0.000002 mg/L)	2.1
Perfluorodecanoic acid (PFDA)	----- ^a	ND
Perfluorododecanoic acid (PFDoA)	----- ^a	ND
Perfluorohexanoic acid (PFHxA)	560,000 ng/L (0.56 mg/L)	ND
Perfluorotetradecanoic acid (PFTA)	----- ^a	ND
Perfluorotridecanoic acid (PFTrDA)	----- ^a	ND
Perfluoroundecanoic acid (PFUnA)	----- ^a	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	----- ^a	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	----- ^a	ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	----- ^a	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	----- ^a	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	560 ng/L (0.00056 mg/L)	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	----- ^a	ND

^a No toxicity criteria available

Minimum Reporting Level (MRL) = 2.0 ng/L

ND = Not Detected

Nanograms per Liter (ng/L) = Part per Trillion (ppt)

TP01 – Sampled 1/19/2021		
PFAS Analyte (Acronym)	Guidance Level	Sample Results
Perfluorobutanesulfonic acid (PFBS)	140,000 ng/L (0.14 mg/L)	ND
Perfluoroheptanoic acid (PFHpA)	----- ^a	ND
Perfluorohexanesulfonic acid (PFHxS)	140 ng/L (0.00014 mg/L)	ND
Perfluorononanoic acid (PFNA)	21 ng/L (0.000021 mg/L)	ND
Perfluorooctanesulfonic acid (PFOS)	14 ng/L (0.000014 mg/L)	ND
Perfluorooctanoic acid (PFOA)	2 ng/L (0.000002 mg/L)	ND
Perfluorodecanoic acid (PFDA)	----- ^a	ND
Perfluorododecanoic acid (PFDoA)	----- ^a	ND
Perfluorohexanoic acid (PFHxA)	560,000 ng/L (0.56 mg/L)	ND
Perfluorotetradecanoic acid (PFTA)	----- ^a	ND
Perfluorotridecanoic acid (PFTrDA)	----- ^a	ND
Perfluoroundecanoic acid (PFUnA)	----- ^a	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	----- ^a	ND
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	----- ^a	ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	----- ^a	ND
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	----- ^a	ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	560 ng/L (0.00056 mg/L)	ND
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	----- ^a	ND

^a No toxicity criteria available

Minimum Reporting Level (MRL) = 2.0 ng/L

ND = Not Detected

Nanograms per Liter (ng/L) = Part per Trillion (ppt)