

PFAS/PFOS Levels in the City of Chicago

City of Chicago Emerging Contaminant Study	Sample Dates: May, September, December 2009 / April, August 2010 / January 2011		Lake Michigan			Drinking Water		
	Analyte	Number of Samples Tested	Lowest Level that can be Detected	# Samples with Detections	Min (ng/L)	Max (ng/L)	# Samples with Detections	Min (ng/L)
Perfluorooctane sulfonate (PFOS)	35	0.2	23	0.55	2.8	12	0.52	2.8

*Water samples were collected from the shore intakes, offshore crib intakes and finished water outlets at the Jardine and Sawyer Water Purification Plants

PFAS Investigation by Illinois EPA							
Date Sampled	Analyte	Facility	Sample Point	Value	Unit (ng/L)	Method	MRL
10/29/2020	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorooctanesulfonic acid (PFOS)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorodecanoic acid (PFDA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorohexanoic acid (PFHxA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorododecanoic acid (PFDoA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorotridecanoic acid (PFTTrDA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluoroundecanoic acid (PFUnA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	N-ethyl Perfluorooctanesulfonamidoacetic acid	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	N-methyl Perfluorooctanesulfonamidoacetic acid	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	HFPO-DA/GenX	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	ADONA	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	9CI-PF3ONS/F-53B Major	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	11CI-PF3OUdS/F-53B Minor	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorotetradecanoic acid (PFTeDA)	JWPP	North Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorooctanoic acid (PFOA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorooctanesulfonic acid (PFOS)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorobutanesulfonic acid (PFBS)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluoroheptanoic acid (PFHpA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorohexanesulfonic acid (PFHxS)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorononanoic acid (PFNA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorodecanoic acid (PFDA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorohexanoic acid (PFHxA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorododecanoic acid (PFDoA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorotridecanoic acid (PFTTrDA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluoroundecanoic acid (PFUnA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	N-ethyl Perfluorooctanesulfonamidoacetic acid	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	N-methyl Perfluorooctanesulfonamidoacetic acid	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	HFPO-DA/GenX	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	ADONA	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	9CI-PF3ONS/F-53B Major	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	11CI-PF3OUdS/F-53B Minor	SWPP	79th St Outlet	ND	ng/L	537.1	2.0
10/29/2020	Perfluorotetradecanoic acid (PFTeDA)	SWPP	79th St Outlet	ND	ng/L	537.1	2.0

***ND" stands for "not detected" and means the result was less than the Method Reporting Limit (MRL)

Chicago's PFOA and PFOS results in UCMR3							
Date Sampled	Analyte	Facility	Sample Point	Value	Unit (ug/L)	Method	MRL
4/28/2014	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ug/L	537	0.09
4/28/2014	Pefluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ug/L	537	0.01
4/28/2014	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ug/L	537	0.03
4/28/2014	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ug/L	537	0.02
4/28/2014	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ug/L	537	0.02
4/28/2014	Perfluorooctane sulfonate (PFOS)	JWPP	North Outlet	ND	ug/L	537	0.04
8/13/2014	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ug/L	537	0.09
8/13/2014	Pefluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ug/L	537	0.01
8/13/2014	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ug/L	537	0.03
8/13/2014	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ug/L	537	0.02
8/13/2014	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ug/L	537	0.02
8/13/2014	Perfluorooctane sulfonate (PFOS)	JWPP	North Outlet	ND	ug/L	537	0.04
10/7/2014	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ug/L	537	0.09
10/7/2014	Pefluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ug/L	537	0.01
10/7/2014	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ug/L	537	0.03
10/7/2014	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ug/L	537	0.02
10/7/2014	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ug/L	537	0.02
10/7/2014	Perfluorooctane sulfonate (PFOS)	JWPP	North Outlet	ND	ug/L	537	0.04
1/13/2015	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ug/L	537	0.09
1/13/2015	Pefluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ug/L	537	0.01
1/13/2015	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ug/L	537	0.03
1/13/2015	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ug/L	537	0.02
1/13/2015	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ug/L	537	0.02
1/13/2015	Perfluorooctane sulfonate (PFOS)	JWPP	North Outlet	ND	ug/L	537	0.04
4/28/2014	Perfluorobutanesulfonic acid (PFBS)	SWPP	79th St Outlet	ND	ug/L	537	0.09
4/28/2014	Pefluoroheptanoic acid (PFHpA)	SWPP	79th St Outlet	ND	ug/L	537	0.01
4/28/2014	Perfluorohexanesulfonic acid (PFHxS)	SWPP	79th St Outlet	ND	ug/L	537	0.03
4/28/2014	Perfluorononanoic acid (PFNA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
4/28/2014	Perfluorooctanoic acid (PFOA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
4/28/2014	Perfluorooctane sulfonate (PFOS)	SWPP	79th St Outlet	ND	ug/L	537	0.04
8/13/2014	Perfluorobutanesulfonic acid (PFBS)	SWPP	79th St Outlet	ND	ug/L	537	0.09
8/13/2014	Pefluoroheptanoic acid (PFHpA)	SWPP	79th St Outlet	ND	ug/L	537	0.01
8/13/2014	Perfluorohexanesulfonic acid (PFHxS)	SWPP	79th St Outlet	ND	ug/L	537	0.03
8/13/2014	Perfluorononanoic acid (PFNA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
8/13/2014	Perfluorooctanoic acid (PFOA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
8/13/2014	Perfluorooctane sulfonate (PFOS)	SWPP	79th St Outlet	ND	ug/L	537	0.04
10/7/2014	Perfluorobutanesulfonic acid (PFBS)	SWPP	79th St Outlet	ND	ug/L	537	0.09
10/7/2014	Pefluoroheptanoic acid (PFHpA)	SWPP	79th St Outlet	ND	ug/L	537	0.01
10/7/2014	Perfluorohexanesulfonic acid (PFHxS)	SWPP	79th St Outlet	ND	ug/L	537	0.03
10/7/2014	Perfluorononanoic acid (PFNA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
10/7/2014	Perfluorooctanoic acid (PFOA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
10/7/2014	Perfluorooctane sulfonate (PFOS)	SWPP	79th St Outlet	ND	ug/L	537	0.04
1/13/2015	Perfluorobutanesulfonic acid (PFBS)	SWPP	79th St Outlet	ND	ug/L	537	0.09
1/13/2015	Pefluoroheptanoic acid (PFHpA)	SWPP	79th St Outlet	ND	ug/L	537	0.01
1/13/2015	Perfluorohexanesulfonic acid (PFHxS)	SWPP	79th St Outlet	ND	ug/L	537	0.03
1/13/2015	Perfluorononanoic acid (PFNA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
1/13/2015	Perfluorooctanoic acid (PFOA)	SWPP	79th St Outlet	ND	ug/L	537	0.02
1/13/2015	Perfluorooctane sulfonate (PFOS)	SWPP	79th St Outlet	ND	ug/L	537	0.04

*"JWPP" and "SWPP" are Jardine Water Purification Plant and Sawyer Water Purification Plant, respectively

*"Outlets" are entry points to the distribution system

*"ND" stands for "not detected" and means the result was less than the Method Reporting Limit (MRL)

Chicago's PFOA and PFOS results in UCMR5

Date Sampled	Analyte	Facility	Sample Point	Value	Unit (ug/L)	Method	MRL
1/8/2024	Perfluorobutanoic acid (PFBA)	JWPP	North Outlet	ND	ug/L	533	0.0050
1/8/2024	Perfluoropentanoic acid (PFPeA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorohexanoic acid (PFHxA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroheptanoic acid (PFHpA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorooctanoic acid (PFOA)	JWPP	North Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluorononanoic acid (PFNA)	JWPP	North Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluorodecanoic acid (PFDA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroundecanoic acid (PFUnA)	JWPP	North Outlet	ND	ug/L	533	0.0020
1/8/2024	Perfluorododecanoic acid (PFDoA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorobutanesulfonic acid (PFBS)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorohexanesulfonic acid (PFHxS)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroheptanesulfonic acid (PFHpS)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorooctanesulfonic acid (PFOS)	JWPP	North Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluoropentanesulfonic acid (PFPeS)	JWPP	North Outlet	ND	ug/L	533	0.0040
1/8/2024	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	JWPP	North Outlet	ND	ug/L	533	0.0050
1/8/2024	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	JWPP	North Outlet	ND	ug/L	533	0.0020
1/8/2024	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid	JWPP	North Outlet	ND	ug/L	533	0.0050
1/8/2024	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	JWPP	North Outlet	ND	ug/L	533	0.0050
1/8/2024	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	JWPP	North Outlet	ND	ug/L	533	0.0050
1/8/2024	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	JWPP	North Outlet	ND	ug/L	533	0.0020
1/8/2024	Perfluoro-3-methoxypropanoic acid (PFMPA)	JWPP	North Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluoro-4-methoxybutanoic acid (PFMBA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	JWPP	North Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorobutanoic acid (PFBA)	SWPP	73th St Outlet	ND	ug/L	533	0.0050
1/8/2024	Perfluoropentanoic acid (PFPeA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorohexanoic acid (PFHxA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroheptanoic acid (PFHpA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorooctanoic acid (PFOA)	SWPP	73th St Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluorononanoic acid (PFNA)	SWPP	73th St Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluorodecanoic acid (PFDA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroundecanoic acid (PFUnA)	SWPP	73th St Outlet	ND	ug/L	533	0.0020
1/8/2024	Perfluorododecanoic acid (PFDoA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorobutanesulfonic acid (PFBS)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorohexanesulfonic acid (PFHxS)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoroheptanesulfonic acid (PFHpS)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluorooctanesulfonic acid (PFOS)	SWPP	73th St Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluoropentanesulfonic acid (PFPeS)	SWPP	73th St Outlet	ND	ug/L	533	0.0040
1/8/2024	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	SWPP	73th St Outlet	ND	ug/L	533	0.0050
1/8/2024	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	SWPP	73th St Outlet	ND	ug/L	533	0.0020
1/8/2024	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid	SWPP	73th St Outlet	ND	ug/L	533	0.0050
1/8/2024	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	SWPP	73th St Outlet	ND	ug/L	533	0.0050
1/8/2024	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	SWPP	73th St Outlet	ND	ug/L	533	0.0050
1/8/2024	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	SWPP	73th St Outlet	ND	ug/L	533	0.0020
1/8/2024	Perfluoro-3-methoxypropanoic acid (PFMPA)	SWPP	73th St Outlet	ND	ug/L	533	0.0040
1/8/2024	Perfluoro-4-methoxybutanoic acid (PFMBA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030
1/8/2024	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	SWPP	73th St Outlet	ND	ug/L	533	0.0030

*"JWPP" and "SWPP" are Jardine Water Purification Plant and Sawyer Water Purification Plant, respectively

**"Outlets" are entry points to the distribution system

**"ND" stands for "not detected" and means the result was less than the Method Reporting Limit (MRL)