

# Hillsborough County South-Central System UCMR 5 Quarter 1 Results

Client: Hillsborough Co Public Utilities Dept  
Project/Site: UCMR5: South Central

Job ID: 810-69991-1

**Client Sample ID: Central TP WTP**

**Lab Sample ID: 810-69991-1**

Date Collected: 07/17/23 13:16

Matrix: Drinking Water

Date Received: 07/18/23 09:00

PWSID Number: FL6290787

## Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0072		0.0050	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoropentanoic acid (PFPeA)	0.0137		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorohexanoic acid (PFHxA)	0.0108		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoroheptanoic acid (PFHpA)	0.0048		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorobutanesulfonic acid (PFBS)	0.0050		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluorooctanesulfonic acid (PFOS)	0.0054		0.0040	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		08/03/23 08:12	08/04/23 08:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		08/03/23 08:12	08/04/23 08:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0020		0.0020	ug/L		08/03/23 08:12	08/04/23 08:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0050		0.0050	ug/L		08/03/23 08:12	08/04/23 08:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		08/03/23 08:12	08/04/23 08:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		08/03/23 08:12	08/04/23 08:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030	ug/L		08/03/23 08:12	08/04/23 08:09	1

## Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0047		0.0047	ug/L		07/24/23 08:59	07/27/23 10:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0057		0.0057	ug/L		07/24/23 08:59	07/27/23 10:11	1
Perfluorotetradecanoic acid (PFTA)	<0.0076		0.0076	ug/L		07/24/23 08:59	07/27/23 10:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.0066		0.0066	ug/L		07/24/23 08:59	07/27/23 10:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	88		70 - 130			07/24/23 08:59	07/27/23 10:11	1
13C2 PFHxA	87		70 - 130			07/24/23 08:59	07/27/23 10:11	1
13C2 PFDA	90		70 - 130			07/24/23 08:59	07/27/23 10:11	1
13C3 HFPO-DA	86		70 - 130			07/24/23 08:59	07/27/23 10:11	1

## Method: EPA 200.7 UCMR5 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		07/24/23 13:00	07/25/23 16:33	1

**Hillsborough County South-Central System UCMR 5 Quarter 1 Results (Continued)**

Client: Hillsborough Co Public Utilities Dept  
 Project/Site: UCMR5: South Central

Job ID: 810-75660-1

**Client Sample ID: Lithia WTP/Lithia Springs Water Treatment**

**Lab Sample ID: 810-75660-1**

**Plant**

Date Collected: 08/28/23 08:50

Matrix: Drinking Water

Date Received: 08/29/23 09:00

PWSID Number: FL6290787

**Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoropentanoic acid (PFPeA)	0.0043		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorohexanoic acid (PFHxA)	0.0032		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		08/15/23 08:25	09/16/23 14:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		08/15/23 08:25	09/16/23 14:19	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		08/15/23 08:25	09/16/23 14:19	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		08/15/23 08:25	09/16/23 14:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		08/15/23 08:25	09/16/23 14:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		08/15/23 08:25	09/16/23 14:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030	ug/L		08/15/23 08:25	09/16/23 14:19	1

**Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<0.0047		0.0047	ug/L		07/24/23 08:59	07/27/23 10:00	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<0.0056		0.0056	ug/L		07/24/23 08:59	07/27/23 10:00	1
Perfluorotetradecanoic acid (PFTA)	<0.0075		0.0075	ug/L		07/24/23 08:59	07/27/23 10:00	1
Perfluorotridecanoic acid (PFTrDA)	<0.0066		0.0066	ug/L		07/24/23 08:59	07/27/23 10:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	80		70 - 130			07/24/23 08:59	07/27/23 10:00	1
13C2 PFHxA	85		70 - 130			07/24/23 08:59	07/27/23 10:00	1
13C2 PFDA	90		70 - 130			07/24/23 08:59	07/27/23 10:00	1
13C3 HFPO-DA	82		70 - 130			07/24/23 08:59	07/27/23 10:00	1

**Method: EPA 200.7 UCMR5 - Metals (ICP)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<9.00		9.00	ug/L		07/24/23 13:00	07/25/23 16:31	1