



## Per-(Poly) Fluoroalkyl Substances (PFAS)

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### Analysis of Per-(Poly) Fluoroalkyl Substances (PFAS)

GEL Laboratories, LLC (GEL) offers analysis of PFAS by EPA Method 537.1 for drinking water and offer Method 537.1 modified for liquid, solid, tissue, and Aqueous Film Forming Foams (AFFF) samples using LC/MS/MS technology to detect and differentiate the compounds. GEL holds DoD ELAP ISO17025:2017 accreditation for these methods, the modification being fully compliant with QSM 5.3 Table B-15. GEL is NELAP certified for drinking water, non-potable water, and liquid and solid wastes (including soils) using these methods.

A complete list of 45 PFAS compounds (including GenX) offered and associated limits are provided on the back of this document.

Our extensive history supporting the Department of Defense, coupled with our dedicated team of chemists makes GEL the right choice for meeting your data quality objectives for projects requiring PFAS analysis.

### Snapshot of PFC Methodology and Capability:

- GEL has three AB SCIEX Triple Quad 5500 LC/MS/MS Systems dedicated to this analysis.
- Full compliance with QSM 5.3 Table B-15 for Non-potable Water, AFFF, Liquid and Solid Wastes
- Full compliance with EPA Method 537.1 for Drinking Water
- NELAP Certified for Drinking Water, Non-Potable Water, and Liquids and Solid Wastes
- Multiple state certifications in all matrices, where available
- 45 Compounds (Including GenX)

Analyte	CAS Number	Water Limits			Soil Limits		
		MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)	MDL (ug/KG)	LOD (ug/KG)	LOQ (ug/KG)
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	13252-13-6	0.66	1.32	2	0.165	0.33	0.5
Perfluorooctanesulfonate (PFOS)	1763-23-1	0.66	1.32	2	0.165	0.33	0.5
Perfluoroundecanoic acid (PFUdA)	2058-94-8	0.72	1.44	2	0.165	0.33	0.5
N-methylperfluoro-1-octanesulfonamidoacetic acid	2355-31-9	1.32	2.64	4	0.19	0.38	0.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.66	1.32	2	0.165	0.33	0.5
Perfluoropentanesulfonate (PFPeS)	2706-91-4	0.66	1.32	1.88	0.165	0.33	0.5
Fluorotelomer sulfonate 6:2 (6:2 FTS)	27619-97-2	0.66	1.32	1.9	0.39	0.78	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid	2991-50-6	1.32	2.64	4	0.275	0.55	1
Perfluorohexanoic acid (PFHxA)	307-24-4	0.66	1.32	2	0.165	0.33	0.5
Perfluorododecanoic acid (PFDoA)	307-55-1	0.66	1.32	2	0.165	0.33	0.5
Perfluorooctanoic acid (PFOA)	335-67-1	0.66	1.32	2	0.165	0.33	0.5
Perfluorodecanoic acid (PFDA)	335-76-2	0.66	1.32	2	0.37	0.74	1
Perfluorodecanesulfonate (PFDS)	335-77-3	0.66	1.32	1.94	0.165	0.33	0.5
Perfluorohexanesulfonate (PFHxS)	355-46-4	0.66	1.32	1.82	0.165	0.33	0.5
Perfluorobutyric acid (PFBA)	375-22-4	0.82	1.64	2	0.165	0.33	0.5
Perfluorobutanesulfonate (PFBS)	375-73-5	0.8	1.6	1.78	0.165	0.33	0.5
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.66	1.32	2	0.165	0.33	0.5
Perfluoroheptanesulfonate (PFHpS)	375-92-8	0.66	1.32	1.9	0.19	0.38	0.5
Perfluorononanoic acid (PFNA)	375-95-1	0.66	1.32	2	0.165	0.33	0.5
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.66	1.32	2	0.165	0.33	0.5
Fluorotelomer sulfonate 8:2 (8:2 FTS)	39108-34-4	1.32	2.64	3.84	0.385	0.77	1
Perfluorononanesulfonate (PFNS)	68259-12-1	0.7	1.4	1.92	0.165	0.33	0.5
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.66	1.32	2	0.165	0.33	0.5
Perfluorooctanesulfonamide (PFOSA)	754-91-6	0.66	1.32	1.86	0.165	0.33	0.5
Fluorotelomer sulfonate 4:2 (4:2 FTS)	757124-72-4	0.66	1.32	1.88	0.4	0.8	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	763051-92-9	1.32	2.64	3.768	0.33	0.66	1
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.66	1.32	2	0.395	0.79	1
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.66	1.32	2	0.39	0.78	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	756426-58-1	0.66	1.32	1.864	0.33	0.66	1
Fluorotelomer sulfonate 10:2 (10:2 FTS)	120226-60-0	1.32	2.64	3.84	0.33	0.66	1

		Water Limits			Soil Limits		
4,8-Dioxa-3H-perfluorononanoic acid (DONA, ADONA)	919005-14-4	0.66	1.32	2	0.33	0.66	1
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.66	1.32	4	0.41	0.82	1
N-methylperfluoro-1-octanesulfonamide (N-MeFO-SA)	31506-32-8	1.32	2.64	4	0.435	0.87	1
Perfluorooctadecanoic acid (PFODA)	16517-11-6	0.66	1.32	2	0.39	0.78	1
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.66	1.32	2	0.165	0.33	1
Sodium 2,2,4,4,6,6,8,8,10,10,12,12,12-tridecafluoro-3,5,7,9,11-pentaoxadodecanoate	39492-91-6	1.32	2.64	4	0.5	1	1
4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G)	801212-59-9	1.32	2.64	4	0.5	1	1
Nafion Byproduct 1	29311-67-9	1.32	2.64	4	0.5	1	1
Nafion Byproduct 2	749836-20-2	1.32	2.64	4	0.5	1	1
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	39492-90-5	1.32	2.64	4	0.5	1	1
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	39492-89-2	1.32	2.64	4	0.5	1	1
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	39492-88-1	1.32	2.64	4	0.5	1	1
Perfluoro-2-methoxyacetic acid (PFMOAA)	674-13-5	1.32	2.64	4	0.5	1	1
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	377-73-1	1.32	2.64	4	0.5	1	1
Perfluoro-4-methoxybutanic acid (PFMOBA)	863090-89-5	1.32	2.64	4	0.5	1	1