**What did we look for?**

The table below provides information on the 17 fluorochemicals we tested for in the GenX Exposure Study. For simplicity, in our reports to study participants, we refer to each chemical by its short name. A CAS number is a unique numerical identifier assigned to each chemical. Laboratory analysis was done on a triple quadrupole mass spectrometer. Additional details on the method can be found in scientific papers by Sun *et al.,* 2016 and Strynar *et al.,* 2015 (see references below). Laboratory results for PFMOAA, Nafion byproduct 2, PFO2HxA, PFO3OA and PFO4DA chemicals are considered *semi-quantitative*. This means that, while we are confident of whether each chemical was present or not, we do not know its exact concentration because the analytical tools needed for quantification were not available at the time of the laboratory work.

References:

1. Sun, M., Arevalo, E., Strynar, M., Lindstrom, A., Richardson, M., Kearns, B., Pickett, A., Smith, C., Knappe, D. R. (2016). Legacy and emerging perfluoroalkyl substances are important drinking water contaminants in the Cape Fear River Watershed of North Carolina. *Environmental Science & Technology Letters, 3*(12), 415-419.
2. Strynar, M., Dagnino, S., McMahen, R., Liang, S., Lindstrom, A., Andersen, E., McMillan, L., Thurman, M., Ferrer, I., Ball, C. (2015). Identification of novel perfluoroalkyl ether carboxylic acids (PFECAs) and sulfonic acids (PFESAs) in natural waters using accurate mass time-of-flight mass spectrometry (TOFMS). *Environmental Science & Technology, 49*(19), 11622-11630.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Short Name | Chemical Name | Chemical Formula | CAS Number |
| 1 | GenX (HFPO-DA) | Perfluoro-2-propoxypropanoic acid | C6HF11O3 | 13252-13-6 |
| 2 | PFOA | Perfluorooctanoic acid | C8HF15O2 | 335-67-1 |
| 3 | PFOS | Perfluorooctane sulfonic acid | C8HF17SO3 | 1763-23-1 |
| 4 | PFPeA | Perfluoropentanoic acid | C5HF9O2 | 2706-90-3 |
| 5 | PFHxA | Perfluorohexanoic acid | C6HF11O2 | 307-24-4 |
| 6 | PFHpA | Perfluoroheptanoic acid | C7HF13O2 | 375-85-9 |
| 7 | PFBA | Perfluorobutanoic acid | C4HF7O2 | 375-22-4 |
| 8 | PFNA | Perfluorononanoic acid | C9HF17O2 | 375-95-1 |
| 9 | PFDA | Perfluorodecanoic acid | C10HF19O2 | 335-76-2 |
| 10 | 6:2 FTS | 6:2 fluorotelomer sulfonate | C8H5F13SO3 | **27619-97-2** |
| 11 | PFBS | Perfluorobutane sulfonic acid | C4HF9SO3 | 375-73-5 |
| 12 | PFHxS | Perfluorohexane sulfonic acid | C6HF13SO3 | 355-46-4 |

Laboratory results for the following chemicals are considered semi-quantitative:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 13 | PFMOAA | Perfluoro-2-methoxyacetic acid | C3HF5O3 | 674-13-5 |
| 14 | Nafion byproduct 2 | Ethanesulfonic acid, 2-[1-[difluoro(1,2,2,2-tetrafluoroethoxy)methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro- | C7H2F14O5S | 749836-20-2 |
| 15 | PFO2HxA | Perfluoro(3,5-dioxahexanoic) acid | C4HF7O4 | 39492-88-1 |
| 16 | PFO3OA | Perfluoro(3,5,7-trioxaoctanoic) acid | C5HF9O5 | 39492-89-2 |
| 17 | PFO4DA | Perfluoro(3,5,7,9-tetraoxadecanoic) acid | C6HF11O6 | 39492-90-5 |