From: Kloczko, Nathan F - DHS
Sent: Thursday, January 20, 2022 1:11 PM
To: Beggs, Tauren R - DNR
Subject: RE: PFAS Results for Recent Upgradient Private Well Sampling for Manitowoc City/Former Newton Tn Gravel Pit, BRRTS # 02-36-000268

Thanks for the update!

Nathan Kloczko, MPH
(he, him, his)
Site Evaluation Program Coordinator
Bureau of Environmental and Occupational Health
Division of Public Health | Wisconsin Department of Health Services
1 W. Wilson Street, Room 150 | Madison, WI 53703

cell: 608.867.4448 | phone: 608.267.3227 | fax: 608.267.4853
email: nathan.kloczko@dhs.wisconsin.gov

From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Thursday, January 20, 2022 1:02 PM
To: Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>
Subject: FW: PFAS Results for Recent Upgradient Private Well Sampling for Manitowoc City/Former Newton Tn Gravel Pit, BRRTS # 02-36-000268

Hi Nathan,

The City decided to sample private wells upgradient from the gravel pit site as proposed in their work plan received by DNR on October 28, 2021. Any private wells that were above the DHS recommended enforcement standards and/or Hazard Index were provided with Culligan water service by the City. Most private wells had PFOSA detections only. A couple had PFOSA and PFOA detections and one or two had multiple detections of other PFAS compounds in addition to PFOSA. There are multiple reports that AECOM is trying to finish up to get to DNR regarding VOC and PFAS, which will include information/justifications for other sources of PFAS besides the gravel pit. Evaluation of the PFOSA vs. other PFAS compounds will likely being the driving factor for the City's justifications for other sources besides the gravel pit.

If you have any questions, please let me know.

Regards,

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Tauren R. Beggs
Phone: (920) 510-3472
Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Kathleen McDaniel <kmcdaniel@manitowoc.org>
Sent: Thursday, January 13, 2022 10:37 AM

To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>; Kasdorf, James H Jr - DNR <James.KasdorfJr@wisconsin.gov>; Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>
Cc: Dan Koski <dkoski@manitowoc.org>; Dave Henderson <dave.henderson@aecom.com>; Greg Minikel <gminikel@manitowoc.org>; Karen Dorow <kdorow@manitowoc.org>; Witte, Edward <nwitte@gklaw.com>
Subject: Newton Gravel Pit sampling reports

Good morning DNR team,

Attached are the most recent round of potable well sampling reports for the Newton Gravel Pit. Please let us know if you have any questions.

Kathleen M. McDaniel (she/her/hers)
Manitowoc City Attorney
(920) 686-6990
kmcdaniel@manitowoc.org

Sample ID: 2741 Fricke Dr

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 30-Nov-21 15:45

Laboratory Data

Lab Sample: 2112041-09
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.979	0.979	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFPeA	2706-90-3	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFBS	375-73-5	<0.878	0.878	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
4:2 FTS	757124-72-4	<0.921	0.921	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFHxA	307-24-4	<0.790	0.790	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFPeS	2706-91-4	<0.795	0.795	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
HFPO-DA	13252-13-6	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFHpA	375-85-9	<0.907	0.907	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
ADONA	919005-14-4	<0.621	0.621	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFHxS	355-46-4	<0.999	0.999	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
6:2 FTS	27619-97-2	<1.09	1.09	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFOA	335-67-1	<0.926	0.926	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFHpS	375-92-8	<0.577	0.577	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFNA	375-95-1	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFOSA	754-91-6	<1.06	1.06	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFOS	1763-23-1	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFDA	335-76-2	<0.916	0.916	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
8:2 FTS	39108-34-4	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFNS	68259-12-1	<1.12	1.12	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
MeFOSAA	2355-31-9	<0.921	0.921	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
EtFOSAA	2991-50-6	<1.01	1.01	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFUnA	2058-94-8	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFDS	335-77-3	<0.737	0.737	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
11Cl-PF3OUdS	763051-92-9	<0.960	0.960	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFDoA	307-55-1	<0.945	0.945	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
MeFOSA	31506-32-8	<2.17	2.17	2.42		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFTrDA	72629-94-8	<0.635	0.635	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFDoS	79780-39-5	<1.37	1.37	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
PFTeDA	376-06-7	<0.790	0.790	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
EtFOSA	4151-50-2	<2.25	2.25	2.42		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
EtFOSE	1691-99-2	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
MeFOSE	24448-09-7	<1.94	1.94	2.42		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	111	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
13C3-PFPeA	IS	92.9	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1
13C3-PFBS	IS	91.9	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:24	1

Sample ID: 2748 Fricke Dr

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 30-Nov-21 10:15

Laboratory Data

Lab Sample: 2112041-07
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<1.00	1.00	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFPeA	2706-90-3	<0.748	0.748	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFBS	375-73-5	<0.896	0.896	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
4:2 FTS	757124-72-4	<0.941	0.941	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFHxA	307-24-4	<0.807	0.807	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFPeS	2706-91-4	<0.812	0.812	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
HFPO-DA	13252-13-6	<1.55	1.55	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFHpA	375-85-9	<0.926	0.926	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
ADONA	919005-14-4	<0.634	0.634	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFHxS	355-46-4	<1.02	1.02	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
6:2 FTS	27619-97-2	<1.11	1.11	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFOA	335-67-1	<0.946	0.946	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFHpS	375-92-8	<0.589	0.589	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFNA	375-95-1	<0.748	0.748	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFOSA	754-91-6	8.60	1.08	1.98	Q	B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFOS	1763-23-1	<1.12	1.12	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFDA	335-76-2	<0.936	0.936	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
8:2 FTS	39108-34-4	<1.12	1.12	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFNS	68259-12-1	<1.14	1.14	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
MeFOSAA	2355-31-9	<0.941	0.941	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
EtFOSAA	2991-50-6	<1.03	1.03	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFUnA	2058-94-8	<0.748	0.748	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFDS	335-77-3	<0.753	0.753	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
11Cl-PF3OUdS	763051-92-9	<0.980	0.980	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFDoA	307-55-1	<0.966	0.966	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
MeFOSA	31506-32-8	<2.22	2.22	2.48		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFTrDA	72629-94-8	<0.649	0.649	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFDoS	79780-39-5	<1.40	1.40	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
PFTeDA	376-06-7	<0.807	0.807	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
EtFOSA	4151-50-2	<2.30	2.30	2.48		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
EtFOSE	1691-99-2	<1.55	1.55	1.98		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
MeFOSE	24448-09-7	<1.98	1.98	2.48		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	113	25 - 150		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
13C3-PFPeA	IS	87.3	25 - 150		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1
13C3-PFBS	IS	89.0	25 - 150		B1L0052	17-Dec-21	0.252 L	21-Dec-21 23:04	1

Sample ID: 2815 Fricke Dr

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 01-Dec-21 15:45

Laboratory Data

Lab Sample: 2112041-11
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.976	0.976	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFPeA	2706-90-3	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFBS	375-73-5	<0.875	0.875	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
4:2 FTS	757124-72-4	<0.918	0.918	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFHxA	307-24-4	<0.788	0.788	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFPeS	2706-91-4	<0.793	0.793	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
HFPO-DA	13252-13-6	<1.51	1.51	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFHpA	375-85-9	<0.904	0.904	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
ADONA	919005-14-4	<0.619	0.619	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFHxS	355-46-4	<0.995	0.995	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
6:2 FTS	27619-97-2	<1.09	1.09	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFOA	335-67-1	0.932	0.923	1.93	J	B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFHpS	375-92-8	<0.575	0.575	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFNA	375-95-1	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFOSA	754-91-6	4.02	1.05	1.93	Q	B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFOS	1763-23-1	1.74	1.09	1.93	J, Q	B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFDA	335-76-2	<0.913	0.913	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
8:2 FTS	39108-34-4	<1.10	1.10	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFNS	68259-12-1	<1.12	1.12	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
MeFOSAA	2355-31-9	<0.918	0.918	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
EtFOSAA	2991-50-6	<1.01	1.01	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFUnA	2058-94-8	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFDS	335-77-3	<0.735	0.735	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
11Cl-PF3OUdS	763051-92-9	<0.957	0.957	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFDoA	307-55-1	<0.942	0.942	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
MeFOSA	31506-32-8	<2.16	2.16	2.42		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFTrDA	72629-94-8	<0.633	0.633	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFDoS	79780-39-5	<1.37	1.37	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
PFTeDA	376-06-7	<0.788	0.788	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
EtFOSA	4151-50-2	<2.25	2.25	2.42		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
EtFOSE	1691-99-2	<1.52	1.52	1.93		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
MeFOSE	24448-09-7	<1.93	1.93	2.42		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	119	25 - 150		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
13C3-PFPeA	IS	95.0	25 - 150		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1
13C3-PFBS	IS	89.0	25 - 150		B1L0052	17-Dec-21	0.259 L	21-Dec-21 23:45	1

Sample ID: 2925 Fricke Dr

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 29-Nov-21 11:15

Laboratory Data

Lab Sample: 2112041-02
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	1.34	0.994	1.97	J	B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFPeA	2706-90-3	<0.743	0.743	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFBS	375-73-5	<0.891	0.891	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
4:2 FTS	757124-72-4	<0.935	0.935	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFHxA	307-24-4	<0.802	0.802	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFPeS	2706-91-4	<0.807	0.807	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
HFPO-DA	13252-13-6	<1.54	1.54	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFHpA	375-85-9	<0.921	0.921	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
ADONA	919005-14-4	<0.630	0.630	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFHxS	355-46-4	1.79	1.01	1.97	J	B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
6:2 FTS	27619-97-2	<1.11	1.11	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFOA	335-67-1	<0.940	0.940	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFHpS	375-92-8	<0.586	0.586	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFNA	375-95-1	<0.743	0.743	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFOSA	754-91-6	3.98	1.07	1.97	Q	B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFOS	1763-23-1	2.94	1.11	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
9Cl-PF3ONS	756426-58-1	<1.05	1.05	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFDA	335-76-2	<0.930	0.930	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
8:2 FTS	39108-34-4	<1.12	1.12	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFNS	68259-12-1	<1.14	1.14	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
MeFOSAA	2355-31-9	<0.935	0.935	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
EtFOSAA	2991-50-6	<1.02	1.02	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFUnA	2058-94-8	<0.743	0.743	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFDS	335-77-3	<0.748	0.748	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
11Cl-PF3OUdS	763051-92-9	<0.975	0.975	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFDoA	307-55-1	<0.960	0.960	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
MeFOSA	31506-32-8	<2.21	2.21	2.46		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFTrDA	72629-94-8	<0.645	0.645	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFDoS	79780-39-5	<1.39	1.39	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
PFTeDA	376-06-7	<0.802	0.802	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
EtFOSA	4151-50-2	<2.29	2.29	2.46		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
EtFOSE	1691-99-2	<1.55	1.55	1.97		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
MeFOSE	24448-09-7	<1.97	1.97	2.46		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	134	25 - 150		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
13C3-PFPeA	IS	92.8	25 - 150		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1
13C3-PFBS	IS	98.1	25 - 150		B1L0052	17-Dec-21	0.254 L	21-Dec-21 21:40	1

Sample ID: 3011 Gass Lake Rd

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 01-Dec-21 16:15

Laboratory Data

Lab Sample: 2112041-12
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.981	0.981	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFPeA	2706-90-3	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFBS	375-73-5	<0.879	0.879	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
4:2 FTS	757124-72-4	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFHxA	307-24-4	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFPeS	2706-91-4	<0.796	0.796	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
HFPO-DA	13252-13-6	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFHpA	375-85-9	<0.908	0.908	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
ADONA	919005-14-4	<0.621	0.621	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFHxS	355-46-4	<1.00	1.00	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
6:2 FTS	27619-97-2	<1.09	1.09	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFOA	335-67-1	1.67	0.927	1.94	J	B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFHpS	375-92-8	<0.578	0.578	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFNA	375-95-1	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFOSA	754-91-6	17.8	1.06	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFOS	1763-23-1	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFDA	335-76-2	<0.918	0.918	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
8:2 FTS	39108-34-4	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFNS	68259-12-1	<1.12	1.12	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
MeFOSAA	2355-31-9	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
EtFOSAA	2991-50-6	<1.01	1.01	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFUnA	2058-94-8	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFDS	335-77-3	<0.738	0.738	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
11Cl-PF3OUdS	763051-92-9	<0.961	0.961	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFDoA	307-55-1	<0.947	0.947	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
MeFOSA	31506-32-8	<2.18	2.18	2.43		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFTrDA	72629-94-8	<0.636	0.636	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFDoS	79780-39-5	<1.37	1.37	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
PFTeDA	376-06-7	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
EtFOSA	4151-50-2	<2.26	2.26	2.43		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
EtFOSE	1691-99-2	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
MeFOSE	24448-09-7	<1.94	1.94	2.43		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	107	25 - 150		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
13C3-PFPeA	IS	95.4	25 - 150		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1
13C3-PFBS	IS	101	25 - 150		B1L0052	17-Dec-21	0.257 L	21-Dec-21 23:56	1

Sample ID: 3107 Fricke Dr

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 29-Nov-21 10:45

Laboratory Data

Lab Sample: 2112041-01
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.990	0.990	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFPeA	2706-90-3	<0.740	0.740	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFBS	375-73-5	<0.887	0.887	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
4:2 FTS	757124-72-4	<0.932	0.932	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFHxA	307-24-4	<0.799	0.799	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFPeS	2706-91-4	<0.804	0.804	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
HFPO-DA	13252-13-6	<1.53	1.53	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFHpA	375-85-9	<0.917	0.917	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
ADONA	919005-14-4	<0.628	0.628	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFHxS	355-46-4	<1.01	1.01	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
6:2 FTS	27619-97-2	<1.10	1.10	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFOA	335-67-1	1.41	0.936	1.96	J	B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFHpS	375-92-8	<0.583	0.583	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFNA	375-95-1	<0.740	0.740	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFOSA	754-91-6	16.1	1.07	1.96	Q	B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFOS	1763-23-1	<1.11	1.11	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
9Cl-PF3ONS	756426-58-1	<1.04	1.04	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFDA	335-76-2	<0.927	0.927	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
8:2 FTS	39108-34-4	<1.11	1.11	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFNS	68259-12-1	<1.13	1.13	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
MeFOSAA	2355-31-9	<0.932	0.932	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
EtFOSAA	2991-50-6	<1.02	1.02	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFUnA	2058-94-8	<0.740	0.740	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFDS	335-77-3	<0.745	0.745	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
11Cl-PF3OUdS	763051-92-9	<0.971	0.971	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFDoA	307-55-1	<0.956	0.956	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
MeFOSA	31506-32-8	<2.20	2.20	2.45		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFTrDA	72629-94-8	<0.642	0.642	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFDoS	79780-39-5	<1.39	1.39	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
PFTeDA	376-06-7	<0.799	0.799	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
EtFOSA	4151-50-2	<2.28	2.28	2.45		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
EtFOSE	1691-99-2	<1.54	1.54	1.96		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
MeFOSE	24448-09-7	<1.96	1.96	2.45		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	120	25 - 150		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
13C3-PFPeA	IS	94.6	25 - 150		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1
13C3-PFBS	IS	93.9	25 - 150		B1L0052	17-Dec-21	0.255 L	21-Dec-21 21:30	1

Sample ID: 112921 Dup

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 29-Nov-21 10:45

Laboratory Data

Lab Sample: 2112041-05
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.967	0.967	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFPeA	2706-90-3	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFBS	375-73-5	<0.866	0.866	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
4:2 FTS	757124-72-4	<0.909	0.909	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFHxA	307-24-4	<0.780	0.780	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFPeS	2706-91-4	<0.785	0.785	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
HFPO-DA	13252-13-6	<1.50	1.50	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFHpA	375-85-9	<0.895	0.895	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
ADONA	919005-14-4	<0.613	0.613	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFHxS	355-46-4	<0.986	0.986	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
6:2 FTS	27619-97-2	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFOA	335-67-1	<0.914	0.914	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFHpS	375-92-8	<0.570	0.570	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFNA	375-95-1	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFOSA	754-91-6	2.03	1.04	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFOS	1763-23-1	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFDA	335-76-2	<0.905	0.905	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
8:2 FTS	39108-34-4	<1.09	1.09	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFNS	68259-12-1	<1.11	1.11	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
MeFOSAA	2355-31-9	<0.909	0.909	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
EtFOSAA	2991-50-6	<0.996	0.996	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFUnA	2058-94-8	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFDS	335-77-3	<0.727	0.727	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
11Cl-PF3OUdS	763051-92-9	<0.948	0.948	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFDoA	307-55-1	<0.933	0.933	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
MeFOSA	31506-32-8	<2.14	2.14	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFTrDA	72629-94-8	<0.627	0.627	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFDoS	79780-39-5	<1.35	1.35	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
PFTeDA	376-06-7	<0.780	0.780	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
EtFOSA	4151-50-2	<2.23	2.23	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
EtFOSE	1691-99-2	<1.50	1.50	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
MeFOSE	24448-09-7	<1.91	1.91	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	124	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
13C3-PFPeA	IS	92.1	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1
13C3-PFBS	IS	96.2	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:43	1

Sample ID: 3117 Gass Lake Rd

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 29-Nov-21 13:15

Laboratory Data

Lab Sample: 2112041-04
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.980	0.980	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFPeA	2706-90-3	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFBS	375-73-5	<0.878	0.878	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
4:2 FTS	757124-72-4	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFHxA	307-24-4	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFPeS	2706-91-4	<0.796	0.796	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
HFPO-DA	13252-13-6	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFHpA	375-85-9	<0.907	0.907	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
ADONA	919005-14-4	<0.621	0.621	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFHxS	355-46-4	<1.00	1.00	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
6:2 FTS	27619-97-2	<1.09	1.09	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFOA	335-67-1	3.21	0.927	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFHpS	375-92-8	<0.577	0.577	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFNA	375-95-1	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFOSA	754-91-6	69.8	1.06	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFOS	1763-23-1	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFDA	335-76-2	<0.917	0.917	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
8:2 FTS	39108-34-4	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFNS	68259-12-1	<1.12	1.12	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
MeFOSAA	2355-31-9	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
EtFOSAA	2991-50-6	<1.01	1.01	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFUnA	2058-94-8	<0.733	0.733	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFDS	335-77-3	<0.738	0.738	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
11Cl-PF3OUdS	763051-92-9	<0.961	0.961	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFDoA	307-55-1	<0.946	0.946	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
MeFOSA	31506-32-8	<2.17	2.17	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFTrDA	72629-94-8	<0.636	0.636	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFDoS	79780-39-5	<1.37	1.37	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
PFTeDA	376-06-7	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
EtFOSA	4151-50-2	<2.26	2.26	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
EtFOSE	1691-99-2	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
MeFOSE	24448-09-7	<1.94	1.94	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	119	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
13C3-PFPeA	IS	90.8	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1
13C3-PFBS	IS	89.1	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 22:32	1

Sample ID: 3223 Gass Lake

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 30-Nov-21 10:45

Laboratory Data

Lab Sample: 2112041-08
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.965	0.965	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFPeA	2706-90-3	<0.721	0.721	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFBS	375-73-5	<0.865	0.865	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
4:2 FTS	757124-72-4	<0.907	0.907	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFHxA	307-24-4	<0.779	0.779	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFPeS	2706-91-4	<0.783	0.783	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
HFPO-DA	13252-13-6	<1.49	1.49	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFHpA	375-85-9	<0.893	0.893	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
ADONA	919005-14-4	<0.611	0.611	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFHxS	355-46-4	<0.984	0.984	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
6:2 FTS	27619-97-2	<1.07	1.07	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFOA	335-67-1	<0.912	0.912	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFHpS	375-92-8	<0.568	0.568	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFNA	375-95-1	<0.721	0.721	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFOSA	754-91-6	1.08	1.04	1.91	J	B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFOS	1763-23-1	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFDA	335-76-2	<0.903	0.903	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
8:2 FTS	39108-34-4	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFNS	68259-12-1	<1.10	1.10	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
MeFOSAA	2355-31-9	<0.907	0.907	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
EtFOSAA	2991-50-6	<0.993	0.993	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFUnA	2058-94-8	<0.721	0.721	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFDS	335-77-3	<0.726	0.726	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
11Cl-PF3OUdS	763051-92-9	<0.946	0.946	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFDoA	307-55-1	<0.931	0.931	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
MeFOSA	31506-32-8	<2.14	2.14	2.39		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFTrDA	72629-94-8	<0.626	0.626	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFDoS	79780-39-5	<1.35	1.35	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
PFTeDA	376-06-7	<0.779	0.779	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
EtFOSA	4151-50-2	<2.22	2.22	2.39		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
EtFOSE	1691-99-2	<1.50	1.50	1.91		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
MeFOSE	24448-09-7	<1.91	1.91	2.39		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	121	25 - 150		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
13C3-PFPeA	IS	93.1	25 - 150		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1
13C3-PFBS	IS	84.7	25 - 150		B1L0052	17-Dec-21	0.262 L	21-Dec-21 23:14	1

Sample ID: 3231 Gass Lake Rd

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 01-Dec-21 15:15

Laboratory Data

Lab Sample: 2112041-10
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.980	0.980	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFPeA	2706-90-3	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFBS	375-73-5	<0.878	0.878	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
4:2 FTS	757124-72-4	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFHxA	307-24-4	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFPeS	2706-91-4	<0.795	0.795	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
HFPO-DA	13252-13-6	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFHpA	375-85-9	<0.907	0.907	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
ADONA	919005-14-4	<0.621	0.621	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFHxS	355-46-4	<0.999	0.999	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
6:2 FTS	27619-97-2	<1.09	1.09	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFOA	335-67-1	<0.926	0.926	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFHpS	375-92-8	<0.577	0.577	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFNA	375-95-1	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFOSA	754-91-6	3.91	1.06	1.94	Q	B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFOS	1763-23-1	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFDA	335-76-2	<0.917	0.917	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
8:2 FTS	39108-34-4	<1.10	1.10	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFNS	68259-12-1	<1.12	1.12	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
MeFOSAA	2355-31-9	<0.922	0.922	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
EtFOSAA	2991-50-6	<1.01	1.01	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFUnA	2058-94-8	<0.732	0.732	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFDS	335-77-3	<0.737	0.737	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
11Cl-PF3OUdS	763051-92-9	<0.960	0.960	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFDoA	307-55-1	<0.946	0.946	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
MeFOSA	31506-32-8	<2.17	2.17	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFTrDA	72629-94-8	<0.635	0.635	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFDoS	79780-39-5	<1.37	1.37	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
PFTeDA	376-06-7	<0.791	0.791	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
EtFOSA	4151-50-2	<2.26	2.26	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
EtFOSE	1691-99-2	<1.52	1.52	1.94		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
MeFOSE	24448-09-7	<1.94	1.94	2.43		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	133	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
13C3-PFPeA	IS	95.3	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1
13C3-PFBS	IS	92.5	25 - 150		B1L0052	17-Dec-21	0.258 L	21-Dec-21 23:35	1

Sample ID: 120121 Dup

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 01-Dec-21 15:15

Laboratory Data

Lab Sample: 2112041-13
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.977	0.977	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFPeA	2706-90-3	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFBS	375-73-5	<0.875	0.875	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
4:2 FTS	757124-72-4	<0.919	0.919	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFHxA	307-24-4	<0.788	0.788	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFPeS	2706-91-4	<0.793	0.793	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
HFPO-DA	13252-13-6	<1.51	1.51	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFHpA	375-85-9	<0.904	0.904	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
ADONA	919005-14-4	<0.619	0.619	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFHxS	355-46-4	<0.996	0.996	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
6:2 FTS	27619-97-2	<1.09	1.09	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFOA	335-67-1	<0.924	0.924	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFHpS	375-92-8	<0.575	0.575	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFNA	375-95-1	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFOSA	754-91-6	10.8	1.05	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFOS	1763-23-1	<1.09	1.09	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
9Cl-PF3ONS	756426-58-1	<1.03	1.03	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFDA	335-76-2	<0.914	0.914	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
8:2 FTS	39108-34-4	<1.10	1.10	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFNS	68259-12-1	<1.12	1.12	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
MeFOSAA	2355-31-9	<0.919	0.919	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
EtFOSAA	2991-50-6	<1.01	1.01	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFUnA	2058-94-8	<0.730	0.730	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFDS	335-77-3	<0.735	0.735	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
11Cl-PF3OUdS	763051-92-9	<0.958	0.958	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFDoA	307-55-1	<0.943	0.943	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
MeFOSA	31506-32-8	<2.17	2.17	2.42		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFTrDA	72629-94-8	<0.634	0.634	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFDoS	79780-39-5	<1.37	1.37	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
PFTeDA	376-06-7	<0.788	0.788	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
EtFOSA	4151-50-2	<2.25	2.25	2.42		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
EtFOSE	1691-99-2	<1.52	1.52	1.93		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
MeFOSE	24448-09-7	<1.93	1.93	2.42		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	132	25 - 150		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
13C3-PFPeA	IS	97.9	25 - 150		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1
13C3-PFBS	IS	102	25 - 150		B1L0052	17-Dec-21	0.258 L	22-Dec-21 00:37	1

Sample ID: 5107 Viebahn

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton

Matrix: Aqueous
Date Collected: 29-Nov-21 09:15

Laboratory Data

Lab Sample: 2112041-06
Date Received: 03-Dec-21 12:21

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.967	0.967	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFPeA	2706-90-3	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFBS	375-73-5	<0.866	0.866	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
4:2 FTS	757124-72-4	<0.909	0.909	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFHxA	307-24-4	<0.780	0.780	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFPeS	2706-91-4	<0.785	0.785	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
HFPO-DA	13252-13-6	<1.50	1.50	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFHpA	375-85-9	<0.895	0.895	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
ADONA	919005-14-4	<0.613	0.613	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFHxS	355-46-4	<0.986	0.986	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
6:2 FTS	27619-97-2	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFOA	335-67-1	<0.914	0.914	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFHpS	375-92-8	<0.570	0.570	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFNA	375-95-1	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFOSA	754-91-6	7.95	1.04	1.91	Q	B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFOS	1763-23-1	<1.08	1.08	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFDA	335-76-2	<0.905	0.905	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
8:2 FTS	39108-34-4	<1.09	1.09	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFNS	68259-12-1	<1.11	1.11	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
MeFOSAA	2355-31-9	<0.909	0.909	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
EtFOSAA	2991-50-6	<0.995	0.995	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFUnA	2058-94-8	<0.723	0.723	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFDS	335-77-3	<0.727	0.727	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
11Cl-PF3OUdS	763051-92-9	<0.948	0.948	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFDoA	307-55-1	<0.933	0.933	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
MeFOSA	31506-32-8	<2.14	2.14	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFTrDA	72629-94-8	<0.627	0.627	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFDoS	79780-39-5	<1.35	1.35	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
PFTeDA	376-06-7	<0.780	0.780	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
EtFOSA	4151-50-2	<2.23	2.23	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
EtFOSE	1691-99-2	<1.50	1.50	1.91		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
MeFOSE	24448-09-7	<1.91	1.91	2.39		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
13C3-PFPeA	IS	92.1	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1
13C3-PFBS	IS	86.3	25 - 150		B1L0052	17-Dec-21	0.261 L	21-Dec-21 22:53	1

Sample ID: 5202 Silver Creek Rd

PFAS Isotope Dilution Method

Client Data

Name: AECOM
Project: 60135471
Location: Newton
Matrix: Aqueous
Date Collected: 29-Nov-21 12:15

Laboratory Data

Lab Sample: 2112041-03
Date Received: 03-Dec-21 12:21
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.970	0.970	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFPeA	2706-90-3	<0.725	0.725	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFBS	375-73-5	<0.869	0.869	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
4:2 FTS	757124-72-4	<0.912	0.912	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFHxA	307-24-4	<0.783	0.783	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFPeS	2706-91-4	<0.788	0.788	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
HFPO-DA	13252-13-6	<1.50	1.50	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFHpA	375-85-9	<0.898	0.898	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
ADONA	919005-14-4	<0.615	0.615	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFHxS	355-46-4	<0.989	0.989	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
6:2 FTS	27619-97-2	<1.08	1.08	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFOA	335-67-1	1.01	0.917	1.92	J, Q	B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFHpS	375-92-8	<0.571	0.571	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFNA	375-95-1	<0.725	0.725	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFOSA	754-91-6	12.4	1.05	1.92	Q	B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFOS	1763-23-1	<1.09	1.09	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
9Cl-PF3ONS	756426-58-1	<1.02	1.02	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFDA	335-76-2	<0.908	0.908	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
8:2 FTS	39108-34-4	<1.09	1.09	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFNS	68259-12-1	<1.11	1.11	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
MeFOSAA	2355-31-9	<0.912	0.912	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
EtFOSAA	2991-50-6	<0.999	0.999	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFUnA	2058-94-8	<0.725	0.725	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFDS	335-77-3	<0.730	0.730	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
11Cl-PF3OUdS	763051-92-9	<0.951	0.951	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFDoA	307-55-1	<0.936	0.936	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
MeFOSA	31506-32-8	<2.15	2.15	2.40		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFTrDA	72629-94-8	<0.629	0.629	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFDoS	79780-39-5	<1.36	1.36	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
PFTeDA	376-06-7	<0.783	0.783	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
EtFOSA	4151-50-2	<2.23	2.23	2.40		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
EtFOSE	1691-99-2	<1.51	1.51	1.92		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
MeFOSE	24448-09-7	<1.92	1.92	2.40		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	120	25 - 150		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
13C3-PFPeA	IS	91.0	25 - 150		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1
13C3-PFBS	IS	90.4	25 - 150		B1L0052	17-Dec-21	0.260 L	21-Dec-21 22:22	1