

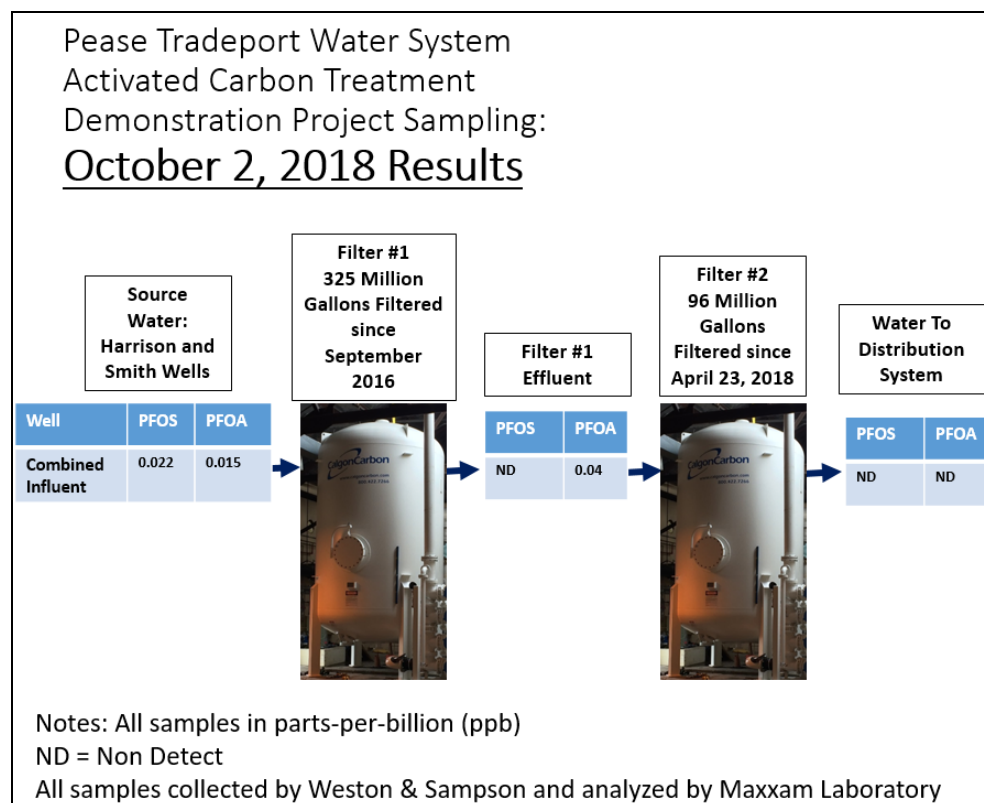


October 19, 2018

PEASE TRADEPORT WATER SUPPLY UPDATE

Demonstration Filter Performance

The City's engineering consultant continues to sample the performance of the activated carbon filters based on the amount of water treated. The graphic below shows the most recent source water sampling and treated filter water quality results for the PFOS and PFOA.



The activated carbon demonstration filters for the Harrison and Smith wells have been on line since September 2016. As of October 2, 2018, 325 million gallons of water from these two wells has been treated through the activated carbon F400 Calgon Filtrasorb Filter media in Filter Number 1. New carbon was installed on Filter Number 2 during the week of March 26,

2018 due to sample result trends showing that some of the 23 PFAS compounds being sampled were beginning to pass through the first filter. This was an early indicator that the filter media was starting to reach its useful life. Based on other operating systems like ours this is what we expected to see. It has also been pointed out by researchers, such as Dr. Higgins from the Colorado School of Mines, that, “measurable PFASs such as PFBA, rather than PFOS or PFOA, could be monitored to inform the potential for breakthrough of these shorter-chain PFASs as well as polyfluorinated and PFOS-like PFASs.” Therefore, the City is currently utilizing the short chain PFBA compound as a measure of the need for filter changeouts. Additionally, the most recent sampling shows for the first time that one of the two compounds with a health advisory, PFOA, is now starting to come through the first filter at an estimated level of 4 parts per trillion. The second filter continues to show non-detect for this compound.

As mentioned in the previous updated, with the confirmation that PFBA has started to pass through the second filter, the City’s consultant has recommended that we replace the carbon in both filters. We are currently in the process of scheduling work to replace the carbon in both filters either the last week of October or the first week of November.

All samples collected are analyzed by Maxxam laboratories, the same laboratory that has been performing the Pease well PFAS analysis since 2014. Data for the Pease Well sampling is uploaded to the City’s website when it is validated by the Air Force’s consultant and sent to the City. A summary of the data for the Pease Well Carbon Treatment Demonstration Project is provided on the City’s website.

ONGOING WATER QUALITY MONITORING AND UPDATES

The Air Force’s consultant continues to perform routine sampling of the water supply wells in the Pease water system. In addition to these water supply wells, the Air Force’s consultant samples other monitoring wells in the surrounding area to track the aquifer and monitor for any PFAS moving toward the supply wells. Currently, with the demonstration filters on line, the supply wells are sampled monthly and eleven monitoring wells are sampled quarterly. Sampling data is posted on the City’s website once it has been validated by the Air Force’s engineering consultant. Information is also posted on the City’s website for the City of Portsmouth’s PFAS sampling program.

The City was recently informed that the September round of sampling showed that the combined PFOS/PFOA in the Harrison Well exceeded the EPA’s Lifetime Health Advisory (LHA) for the first time, with a sample result of 75 ppt. This well is currently going through the GAC treatment facility, so no water exceeding this standard is being delivered to Pease Tradeport customers, in fact, it continues to be non-detect. Additionally, the City has requested that the Air Force provide a more detailed analysis of any trends in data they see with respect to the potential that levels may continue to rise. When we get that information we will provide it in our updates.

FINAL TREATMENT SYSTEM DESIGN



Rendering of Proposed Drinking Water Treatment Facility Upgrade – Grafton Road

The City of Portsmouth and the United States Air Force have recently signed their latest agreement to treat perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) from water supplied by the Smith, Harrison and Haven Wells serving the Pease Tradeport drinking water system. The agreement will provide the City with up to \$14.3 million to reimburse the cost of construction of the final treatment system for all three wells, which will include a dual filtration system consisting of resin and granular activated carbon filters. We anticipate bidding the project this fall with construction beginning in the spring of 2019.

REVIEW OF OTHER MUNICIPAL WATER SYSTEMS TREATING PFAS COMPOUNDS

The City's engineering consultant has been gathering information on drinking water systems located across the country that are dealing with Per- and Polyfluoroalkyl Substances (PFAS) contamination of their water supplies. Preliminary findings of their assessment were summarized in the City's April 2018 Pease Tradeport Water Supply Update. Updated information is anticipated soon and will be posted when the report is complete.

EPA HEALTH ADVISORY AND NEW HAMPSHIRE DES REGULATIONS

In May 2016, the EPA issued a Lifetime Health Advisory of 0.070 µg/L (micrograms per liter) for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). The State of New Hampshire is currently working on Setting/Reevaluating Standards (Drinking Water Maximum Contaminant Levels) for: – PFOA – PFOS – PFNA – PFHxS, and they will initiate rulemaking by January 1, 2019.

Additional information can be accessed at:

www.cityofportsmouth.com/publicworks/water/pease-tradeport-water-system

or by calling Al Pratt, Water Resources Manager, at: 603-520-0622 or Brian Goetz, Deputy Director of Public Works at: 603-766-1420

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																															
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTTDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA		
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	0.07		
Method Detection Limit (MDL)						0.0065	0.0055	0.0053	0.0049	0.0040	0.0061	0.0019	0.0066	0.0043	0.0066	0.0057	0.0036	0.0047	0.0040	0.0046	0.0053	0.0046	0.0058	0.0033	0.0036	0.0052	0.0032	0.0037			
Reported Detection Limit (RDL)						0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020		
Harrison Well	13-Sep-16	---	---	---	---	ND	ND	NA	NA	NA	NA	0.0029 B	ND	NA	NA	NA	ND	ND	0.0260 B	0.0071 J	0.006 J	ND	ND	0.022 B	0.008 B	NA	NA	NA	0.028		
Smith Well	19-Sep-16	---	---	---	---	ND	ND	NA	NA	NA	NA	0.0072 J	0.0067 J	NA	NA	NA	ND	ND	0.0150 J	0.0053 J	0.006 J	ND	ND	0.013 J	0.007 J	NA	NA	NA	0.019 J		
Harrison Well	26-Sep-16	1	249	1	248	ND	ND	NA	NA	NA	NA	0.0040 J	ND	NA	NA	NA	0.0042 J	ND	0.0340	0.0100 J	ND	ND	ND	0.024	0.014 J	NA	NA	NA	0.024		
Smith Well	26-Sep-16	1	249	1	248	ND	ND	NA	NA	NA	NA	0.0029 J	ND	NA	NA	NA	0.0036 J	ND	0.0140 J	0.0050 J	ND	ND	ND	0.010 J	0.008 J	NA	NA	NA	0.010 J		
Harrison Well	19-Oct-16	6	1,238	6	1,149	ND	ND	NA	NA	NA	NA	0.0038 J	0.0069 J	NA	NA	NA	ND	0.0057 J	0.0320	0.0059 J	ND	ND	ND	0.022	0.009 J	NA	NA	NA	0.022		
Smith Well	19-Oct-16	6	1,238	6	1,149	ND	ND	NA	NA	NA	NA	0.0035 J	ND	NA	NA	NA	ND	ND	0.0130 J	ND	ND	ND	ND	0.010 J	0.005 J	NA	NA	NA	0.010 J		
Harrison Well	17-Nov-16	18	3,358	17	3,269	ND	ND	NA	NA	NA	NA	0.0026 J	0.0072 J	NA	NA	NA	ND	0.0059 J	0.0350	0.0085 J	0.006 J	ND	ND	0.026	0.013 J	NA	NA	NA	0.032		
Smith Well	17-Nov-16	18	3,358	17	3,269	ND	ND	NA	NA	NA	NA	0.0020 J	ND	NA	NA	NA	ND	ND	0.0140 J	ND	ND	ND	ND	0.011 J	0.008 J	NA	NA	NA	0.011 J		
Harrison Well	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	0.0062 J	0.0068 J	NA	NA	NA	ND	ND	0.0350	0.0120 J	0.0078 J	ND	ND	0.026	0.012 J	NA	NA	NA	0.034		
Smith Well	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0150 J	0.0065 J	ND	ND	ND	0.012 J	0.0059 J	NA	NA	NA	0.012 J		
Smith Well (Dup)	14-Dec-16	24	4,491	23	4,402	ND	ND	NA	NA	NA	NA	0.0055 J	ND	NA	NA	NA	ND	ND	0.0150 J	0.0057 J	ND	ND	ND	0.012 J	0.006 J	NA	NA	NA	0.012 J		
Harrison Well	11-Jan-17	31	5,845	30	5,809	ND	ND	NA	NA	NA	NA	0.0090 J	0.008 J	NA	NA	NA	ND	0.006 J	0.0380	0.0180 J	0.009 J	ND	ND	0.024	0.0160 J	NA	NA	NA	0.033		
Smith Well	11-Jan-17	31	5,845	30	5,809	ND	ND	NA	NA	NA	NA	0.0080 J	ND	NA	NA	NA	ND	ND	0.0170	0.0100 J	ND	ND	ND	0.012 J	0.0080 J	NA	NA	NA	0.012 J		
Harrison Well	17-Feb-17	39	7,388	38	7,299	ND	ND	NA	NA	NA	NA	0.0020 J	ND	NA	NA	NA	ND	ND	0.0360	0.0060 J	0.009 J	ND	ND	0.027	0.0130 J	NA	NA	NA	0.036		
Smith Well	17-Feb-17	39	7,388	38	7,299	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0100 J	ND	ND	ND	ND	0.013 J	0.0070 J	NA	NA	NA	0.013 J		
Harrison Well	23-Mar-17	50	9,568	50	9,479	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0270	0.0052 J	ND	ND	ND	0.0210	0.0095 J	NA	NA	NA	0.021		
Smith Well	23-Mar-17	50	9,568	50	9,479	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.0093 J	ND	ND	ND	ND	0.0072 J	ND	NA	NA	NA	0.007 J		
Filter 2 Effluent	22-Sep-16	0	70	0	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#####	
Filter 1 - 25%	06-Oct-16	3	646	3	557	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	#####
Filter 2 Effluent	06-Oct-16	3	646	3	557	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	0.0022 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	0.0021 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	14-Oct-16	5	996	5	907	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	20-Oct-16	7	1,325	6	1,236	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0082 J	ND	ND	ND	0.0062 J	ND	0.0052 J	ND	ND	ND	ND	ND	0.0082 J	0.0084 J	ND	ND
Filter 1 Effluent	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	ND	0.0078 J	0.0081 J	ND	ND
Filter 2 Effluent	28-Oct-16	10	2,002	10	1,913	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0040 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	10-Nov-16	16	3,066	16	2,977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	10-Nov-16	16	3,066	16	2,977	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	28-Nov-16	20	3,795	19	3,706	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	28-Nov-16	20	3,795	19	3,706	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	27-Dec-16	27	5,143	26	5,054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	27-Dec-16	27	5,143	26	5,054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 25%	16-Jan-17	32	6,056	31	5,967	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	16-Jan-17	32	6,056	31	5,967	ND	ND	ND	ND																						

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																															
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA		
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07	
Filter 1 - 25%	07-Mar-17	43	8,206	43	8,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	07-Mar-17	43	8,206	43	8,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	20-Mar-17	48	9,235	48	9,146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	20-Mar-17	48	9,235	48	9,146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 25%	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	27-Mar-17	52	9,886	51	9,797	ND	ND	0.0097 J	ND	ND	0.0052 J	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	0.0036 J	ND	ND	0.0033 J	ND	0.0036 J	
Filter 1 Effluent Rerun	27-Mar-17	52	9,886	51	9,797	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Method Detection Limit (MDL)						0.0032	0.0036	0.0058	0.0063	0.0041	0.0043	0.0048	0.0066	0.0046	0.0040	0.0028	0.0048	0.0033	0.0034	0.0029	0.0046	0.0046	0.0036	0.0026	0.0027	0.0038	0.0033	0.0043			
Reported Detection Limit (RDL)						0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020		
Filter 1 - 25%	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND
Filter 1 Effluent	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND	0.0052 J	
Filter 1 Effluent	21-Apr-17	64	12,273	64	12,184	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	24-Apr-17	66	12,521	65	12,432	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0064 J	0.0049 J	ND	ND	0.0150 J	0.0053 J	ND	ND	ND	ND	0.0199 J	
Filter 1 - 25%	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	01-May-17	69	13,169	69	13,079	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	0.0040 J	0.0270	0.0087 J	0.0081 J	ND	ND	0.0190 J	0.0084 J	ND	ND	ND	ND	0.0271	
Filter 1 - 25%	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	ND	ND
Filter 1 Effluent	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	12-May-17	75	14,263	74	14,174	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0055 J	0.0280	0.0072 J	0.0088 J	ND	ND	0.0230	0.0089 J	ND	ND	ND	ND	0.0318	
Filter 1 - 25%	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	22-May-17	80	15,254	79	15,165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0090 J	0.0081 J	ND	ND	0.0200 J	0.0077 J	ND	ND	ND	ND	0.0281	
Filter 1 - 25%	02-Jun-17	85	16,282	85	16,193	ND	ND	0.0089 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	02-Jun-17	85	16,282	85	16,193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0230	0.0063 J	0.0055 J	ND	ND	0.0190 J	0.0068 J	ND	ND	ND	ND	0.0245
Filter 1 - 25%	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND	ND
Filter 1 Effluent	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	14-Jun-17	92	17,512	91	17,423	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0080 J	ND	ND	ND	0.0170 J	0.0086 J	ND	ND	ND	ND	0.0170 J
Filter 1 - 25%	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035 J	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND	ND	ND
Filter 1 Effluent	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	ND	ND	ND
Filter 2 Effluent	28-Jun-17	99	18,951	99	18,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	07-Jul-17	104	19,916	104	19,827	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0110 J	0.0064 J	ND	ND	0.0210	0.0085 J	ND	ND	ND	ND	0.0274
Filter 1 - 25%	07-Jul-17	104	19,916	104	19,																										

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																															
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA		
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07	
Filter 1 - 25%	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0052 J	ND	ND	ND	ND	
Filter 1 Effluent	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	19-Jul-17	112	21,313	111	21,224	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0034 J	0.0250	0.0076 J	ND	ND	ND	0.0130 J	0.0073 J	ND	ND	ND	0.0130 J	
Filter 1 - 25%	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038 J	ND	ND	ND	ND	0.0062 J	ND	ND	ND	ND	
Filter 1 Effluent	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	0.0049 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	26-Jul-17	116	22,162	116	22,073	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0036 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0300	0.0099 J	0.0077 J	ND	ND	0.0190 J	0.0120 J	ND	ND	ND	0.0267	
Filter 1 - 25%	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	0.0092 J	ND	ND	ND	ND	
Filter 1 Effluent	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	02-Aug-17	121	23,021	121	23,056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0310	0.0120 J	0.0140 J	ND	ND	0.0240	0.0130 J	ND	ND	ND	0.0380	
Filter 1 - 25%	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	0.0110 J	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND	
Filter 1 - 50%	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	ND	ND	ND	ND	
Filter 1 Effluent	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	18-Aug-17	131	24,999	131	24,910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0170 J	ND	ND	ND	ND	ND	
Combined Raw	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0066 J	0.0310	0.0130 J	ND	ND	ND	0.0190 J	ND	ND	ND	ND	0.0190 J	
Filter 1 - 25%	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053 J	ND	ND	ND	ND	
Filter 1 Effluent	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	25-Aug-17	135	25,806	135	25,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0410	0.0088 J	0.0087 J	ND	ND	0.0210	0.0130 J	ND	ND	ND	0.0297	
Filter 1 - 25%	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065 J	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	
Filter 1 - 50%	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	01-Sep-17	140	26,644	139	26,555	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 J	0.0340	0.0098 J	0.0069 J	ND	ND	0.0220	0.0140 J	ND	ND	ND	0.0289
Filter 1 - 25%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0062 J	0.0064 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 50%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	
Filter 1 - 75%	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	12-Sep-17	146	27,795	145	27,717	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0075 J	0.0065 J	ND	ND	0.0130 J	0.0078 J	ND	ND	ND	0.0195 J	
Filter 1 - 25%	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088 J	0.0075 J	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	
Filter 1 - 50%	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	
Filter 1 Effluent	21-Sep-17	151	28,783	150	28,694	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	
Filter 2 Effluent	21-Sep-17	151	28,783	150	28,694	ND	ND</																								

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																														
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	0.07	-	-	-	-	0.07	
Filter 1 - 25%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0048 J	0.0038 J	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	
Filter 1 - 50%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	
Filter 1 - 75%	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042 J	ND	ND	ND	ND	
Filter 1 Effluent	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	
Filter 2 Effluent	13-Oct-17	163	31,126	163	31,037	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0089 J	0.0470	0.0140 J	0.0110 J	ND	ND	0.0280	0.0150 J	ND	ND	ND	0.0390	
Filter 1 - 25%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0076 J	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	
Filter 1 - 50%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	
Filter 1 - 75%	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	30-Oct-17	171	32,619	170	32,530	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Method Detection Limit (MDL)						0.0066	0.0066	0.0100	0.0079	0.0130	0.0120	0.0054	0.0055	0.0060	0.0061	0.0050	0.0080	0.0074	0.0056	0.0035	0.0033	0.0087	0.0034	0.0060	0.0075	0.0027	0.0038	0.0025		
Reported Detection Limit (RDL)						0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
Combined Raw	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0330	0.0093 J	0.0110 J	ND	ND	0.0190	ND	ND	ND	ND	0.0300	
Filter 1 - 25%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 75%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	0.0057 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	14-Nov-17	177	33,846	177	33,867	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0330	0.0043 J	0.0055 J	ND	ND	0.0120 J	ND	ND	ND	ND	0.0175 J	
Filter 1 - 25%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0056 J	0.0037 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 50%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 - 75%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 1 Effluent	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	27-Nov-17	183	34,959	183	34,870	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0086 J	ND	ND	ND	ND	ND	0.0330	0.0140 J	0.0083 J	ND	ND	0.0160 J	0.0120 J	ND	ND	ND	0.0243	
Filter 1 - 25%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0090 J	ND	ND	ND	ND	ND	0.0100 J	0.0130 J	0.0047 J	ND	ND	ND	0.0140 J	ND	ND	ND	0.0047 J	
Filter 1 - 50%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	
Filter 1 - 75%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	
Filter 1 Effluent	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	
Filter 2 - 25%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 50%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 - 75%	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Filter 2 Effluent	08-Dec-17	188	35,903	188	35,814	ND	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Combined Raw	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0057 J	0.0056 J	ND	ND	ND	ND	ND	0.0160 J	0.0076 J	0.0059 J	ND	ND	0.0110 J	ND	ND	ND	ND	0.0169 J	
Filter 1 - 25%	26-Dec-17	193	37,215	194	37,117	ND	ND	ND	ND	ND	ND	0.0059 J	0.0056 J	ND	ND	ND	ND													

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																														
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOA+PFOS	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07
Filter 1 - 25%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 50%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 75%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 1 - 100%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 50%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	10-Jan-18	199	38,386	200	38,087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	0.0084 J	0.0110 J	0.0400	0.0150 J	0.0055 J	ND	ND	ND	0.0130 J	0.0130 J	ND	ND	ND	0.0185 J
Filter 1 - 25%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND	ND	ND	ND	0.0081 J	0.0120 J	0.0130 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 50%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	ND	0.0088 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 75%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	ND	ND	0.0041 J	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND
Filter 1 - 100%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	ND	0.0048 J	ND	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND
Filter 2 - 50%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	25-Jan-18	206	39,311	206	39,235	ND	ND	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0074 J	0.0350	0.0110 J	0.0085 J	ND	ND	ND	ND	0.0170 J	0.0110 J	ND	ND	ND	0.0255 J
Filter 1 - 25%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	ND	0.0120 J	0.0120 J	0.0051 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	0.0051 J
Filter 1 - 50%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	0.0110 J	ND	0.0140 J	ND	0.0084 J	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND
Filter 1 - 75%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	0.0088 J	0.0038 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	0.0038 J
Filter 1 - 100%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0071 J	ND	ND	ND	ND	ND	ND	0.0043 J	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND
Filter 2 - 50%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	0.0082 J	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	0.0047 J	ND	ND	ND	ND	ND	0.0084 J	ND	ND	ND	ND
Filter 2 - 100%	15-Feb-18	214	40,868	214	40,784	ND	ND	ND	ND	ND	ND	ND	0.0056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0460	0.0160 J	0.0095 J	ND	ND	ND	ND	0.0180 J	0.0150 J	ND	ND	ND	0.0275 J
Filter 1 - 25%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0130 J	0.0130 J	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 50%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 75%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND
Filter 1 - 100%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 50%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	01-Mar-18	220	41,910	219	41,782	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0390	0.0083 J	ND	ND	ND	ND	0.0130 J	0.0095 J	ND	ND	ND	0.0130 J
Filter 1 - 25%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	0.0056 J	ND	ND	ND	ND	ND	0.0097 J	ND	ND	ND	ND
Filter 1 - 50%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0050 J	ND	ND	ND	ND	ND	0.0080 J	ND	ND	ND	ND
Filter 1 - 75%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0077 J	ND	ND	ND	ND
Filter 1 - 100%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 50%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	14-Mar-18	225	42,877	224	42,791	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0060 J	ND	ND	ND	ND	0.0086 J	0.0480	0.0160 J	0.0130 J	ND	ND	ND	0.0210	0.0150 J	ND	ND	ND	0.0340 J
Filter 1 - 25%	26-Apr-18	234	44,680	3	542	ND	ND	ND	ND	ND	ND	ND	0.0																	

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																														
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07
Filter 1 - 50%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	0.0100 J	0.0130 J	0.0067 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0067 J
Filter 1 - 75%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	0.0074 J	ND	ND	ND	ND	ND	0.0180 J	ND	ND	ND	ND
Filter 1 - 100%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND
Filter 2 - 50%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	09-May-18	240	45,720	8	1,593	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0430	0.0130 J	0.0049 J	ND	ND	ND	0.0200 J	0.0140 J	ND	ND	ND	0.0249 J
Filter 1 - 25%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0240	0.0140 J	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND
Filter 1 - 50%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0068 J	0.0120 J	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND
Filter 1 - 75%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 100%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0063 J	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND
Filter 2 - 50%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	24-May-18	247	47,190	16	3,060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	0.0055 J	0.0093 J	ND	ND	ND	ND	0.0100 J	0.0440	0.0160 J	0.0130 J	ND	ND	ND	0.0250	0.0160 J	ND	ND	ND	0.0380 J
Filter 1 - 25%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	0.0055 J	0.0092 J	ND	ND	ND	ND	0.0088 J	0.0290	0.0150 J	0.0100 J	ND	ND	ND	0.0120 J	0.0160 J	ND	ND	ND	0.0220 J
Filter 1 - 50%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	0.0080 J	0.0150 J	0.0150 J	0.0071 J	ND	ND	ND	ND	0.0160 J	ND	ND	ND	0.0071 J
Filter 1 - 75%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0095 J	ND	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND	ND	0.0170 J	ND	ND	ND	ND
Filter 1 - 100%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND
Filter 2 - 50%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	13-Jun-18	258	49,310	27	5,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0340	0.0097 J	0.0085 J	ND	ND	ND	0.0170 J	0.0096 J	ND	ND	ND	0.0255 J
Filter 1 - 25%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0280	0.0110 J	0.0079 J	ND	ND	ND	0.0085 J	0.0110 J	ND	ND	ND	0.0164 J
Filter 1 - 50%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0160 J	0.0120 J	0.0051 J	ND	ND	ND	ND	0.0120 J	ND	ND	ND	0.0051 J
Filter 1 - 75%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND
Filter 1 - 100%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0079 J	ND	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND
Filter 2 - 50%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	28-Jun-18	268	51,060	37	6,930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	0.0086 J	ND	ND	ND	ND	0.0089 J	0.0410	0.0170 J	0.0160 J	ND	ND	ND	0.0230	0.0150 J	ND	ND	ND	0.0390 J
Filter 1 - 25%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	0.0087 J	ND	ND	ND	ND	0.0084 J	0.0310	0.0160 J	0.0130 J	ND	ND	ND	0.0140 J	0.0160 J	ND	ND	ND	0.0270 J
Filter 1 - 50%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	0.0055 J	0.0098 J	ND	ND	ND	ND	0.0082 J	0.0190 J	0.0170 J	0.0110 J	ND	ND	ND	ND	0.0170 J	ND	ND	ND	0.0110 J
Filter 1 - 75%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND
Filter 1 - 100%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	0.0058 J	0.0140 J	ND	ND	ND	ND	ND	0.0160 J	ND	ND	ND	ND
Filter 2 - 50%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	11-Jul-18	275	52,520	44	8,390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	18-Jul-18	279	53,330	48	9,200	ND	ND	ND	ND	ND	ND	ND	0.0061 J	ND	ND	ND	ND	ND	0.0390	0.0140 J	0.0130 J	ND	ND	ND	0.0180 J	0.0140 J	ND	ND	ND	0.0310 J
Filter 1 - 25%	18-Jul-18	279	53,330	48	9,200	ND	ND	ND	ND	ND	ND	ND	0.0064 J	ND	ND	ND	ND	0.0077 J	0.0310	0.0150 J	0.0110 J	ND	ND	ND	0.0081 J	0.0140 J	ND	ND		

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																														
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA	
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07
Filter 1 - 100%	30-Jul-18	287	54,720	56	10,590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0088 J	ND	ND	ND	ND	0.0130 J	ND	ND	ND	ND
Filter 2 - 25%	30-Jul-18	287	54,720	56	10,590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 50%	30-Jul-18	287	54,720	56	10,590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 75%	30-Jul-18	287	54,720	56	10,590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	30-Jul-18	287	54,720	56	10,590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	10-Aug-18	293	55,970	62	11,940	Samples delivered to incorrect location; analysis not possible.																								
Combined Raw	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0089 J	ND	ND	ND	ND	ND	0.0084 J	0.0420	0.0160 J	0.0130 J	ND	ND	0.0210	0.0140 J	ND	ND	ND	0.0340 J
Filter 1 - 50%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	ND	0.0082 J	0.0200 J	0.0170 J	0.0100 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0100 J
Filter 1 - 100%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0097 J	ND	ND	ND	ND	ND	ND	ND	0.0150 J	0.0054 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0054 J
Filter 2 - 25%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND
Filter 2 - 50%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 75%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	17-Aug-18	297	56,780	68	12,750	ND	ND	ND	ND	ND	ND	ND	0.0092 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0077 J	ND	ND	ND	ND	ND	0.0083 J	0.0500	0.0180 J	0.0130 J	ND	ND	0.0230	0.0170 J	ND	ND	ND	0.0360 J
Filter 1 - 50%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	0.0210	0.0160 J	0.0091 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0091 J
Filter 1 - 100%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0075 J	ND	ND	ND	ND	ND	ND	ND	0.0150 J	0.0036 J	ND	ND	ND	0.0180 J	ND	ND	ND	0.0036 J
Filter 2 - 25%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0086 J	ND	ND	ND	ND	ND	ND	ND	0.0054 J	ND	ND	ND	ND	0.0170 J	ND	ND	ND	ND
Filter 2 - 50%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0097 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 75%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0091 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	27-Aug-18	304	57,930	75	13,900	ND	ND	ND	ND	ND	ND	ND	0.0084 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	30-Aug-18	305	58,280	76	14,250	ND	ND	ND	ND	ND	ND	ND	0.0069 J	ND	ND	ND	ND	ND	0.0080 J	0.0480	0.0170 J	0.0140 J	ND	ND	0.0210	0.0160 J	ND	ND	ND	0.0350 J
Filter 1 - 100%	30-Aug-18	305	58,280	76	14,250	ND	ND	ND	ND	ND	ND	ND	0.0083 J	ND	ND	ND	ND	ND	ND	0.0062 J	0.0150 J	ND	ND	ND	ND	0.0180 J	ND	ND	ND	ND
Filter 2 - 100%	30-Aug-18	305	58,280	76	14,250	ND	ND	ND	ND	ND	ND	ND	0.0082 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0099 J	ND	ND	ND	ND	ND	0.0100 J	0.0460	0.0180 J	0.0160 J	ND	ND	ND	0.0180 J	ND	ND	ND	0.0160 J
Filter 1 - 50%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	0.0950 J	0.0230	0.0170 J	0.0100 J	ND	ND	ND	0.0190 J	ND	ND	ND	0.0100 J
Filter 1 - 100%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	0.0086 J	0.0150 J	ND	ND	ND	ND	0.0190 J	ND	ND	ND	ND
Filter 2 - 25%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0180 J	ND	ND	ND	ND
Filter 2 - 50%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND
Filter 2 - 75%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0120 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	05-Sep-18	309	58,950	80	14,920	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0540	0.0140 J	0.0089 J	ND	ND	0.0180 J	0.0130 J	ND	ND	ND	0.0269 J
Filter 1 - 50%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0230	0.0110 J	0.0039 J	ND	ND	ND	0.0120 J	ND	ND	ND	0.0039 J
Filter 1 - 100%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0069 J	0.0100 J	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND
Filter 2 - 25%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0140 J	ND	ND	ND	ND
Filter 2 - 50%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	0.0057 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 75%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	0.0062 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	13-Sep-18	314	59,860	85	15,830	ND	ND	ND	ND	ND	ND	ND	0.0058 J	ND	ND	ND	ND	ND	ND											

Table 1 Summary of PFC Analytical Results Demonstration Project Former Pease Air Force Base, New Hampshire																													
Sample Location	Collection Date	Filter 1 Volume (MG)	Filter 1 Bed Volumes	Filter 2 Volume (MG)	Filter 2 Bed Volumes	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluorooheptane sulfonate (PFHpS)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)	PFOS+PFOA
USEPA Health Advisory (HA):						-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	-	-	-	0.07	-	-	-	-	0.07
Filter 2 - 100%	24-Sep-18	321	61,110	92	17,080	ND	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Combined Raw	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0073 J	ND	ND	ND	ND	0.0093 J	0.0430	0.0190 J	0.0150 J	ND	ND	0.0220	0.0160 J	ND	ND	ND	0.0370 J
Filter 1 - 50%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0084 J	ND	ND	ND	ND	0.0080 J	0.0260	0.0180 J	0.0100 J	ND	ND	ND	0.0170 J	ND	ND	ND	0.0160 J
Filter 1 - 100%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0080 J	ND	ND	ND	ND	ND	0.0110 J	0.0160 J	0.0044 J	ND	ND	ND	0.0180 J	ND	ND	ND	0.0104 J
Filter 2 - 25%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0093 J	ND	ND	ND	ND	ND	ND	0.0110 J	ND	ND	ND	ND	0.0200	ND	ND	ND	ND
Filter 2 - 50%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0098 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0150 J	ND	ND	ND	ND
Filter 2 - 75%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Filter 2 - 100%	02-Oct-18	325	62,010	96	17,980	ND	ND	ND	ND	ND	ND	ND	0.0100 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Grey text indicates the parameter was not analyzed or not detected.
All concentrations in µg/L - micrograms per liter (ppb)
J - The result is an estimated value.
B - Detected in Blank.

USEPA - Environmental Protection Agency

NA - Not Analysed or Not Applicable

ND - Not detected

— - No Health Advisory available

- Denotes 'B' value, detected in blank

- Denotes raw water influent sample

- Denotes short chain compound