

**7. How have the responsible departments – Environment Canada and Climate Change, Health Canada, Transport Canada and the Department of National Defence – identified potential sites of PFAS contamination? Please provide each Departments’ criteria for investigation, and a list of sites clearly depicted on a map or with GIS coordinates which have been identified as confirmed or potential sites of PFAS contamination.**

The Department of National Defence’s (DND) principal source of PFAS contamination stems from the use of aqueous film-forming foam (AFFF) to extinguish flammable liquid fires. PFAS-impacted sites largely correspond to fire-training areas, emergency response locations, AFFF lagoons, hangar-related AFFF storage tanks and pipelines, and fire station testing and maintenance areas. All of these areas are considered to be potential sites of PFAS contamination.

Furthermore, DND installations follow a risk-based approach to monitoring surface water, ground water, drinking water, and/or effluents for a range of environmental contaminants, including PFAS. The results of this monitoring have also led to the identification of potential sites of PFAS contamination.

A Phase II Environmental Site Assessment (ESA) is undertaken at all potential sites of PFAS contamination. Where present, the Phase II ESA provides a preliminary assessment of the degree, nature and extent of the contamination.

DND’s current list of confirmed and potential sites of PFAS contamination is in Table 1.

Ser.	Site Name	Federal Contaminated Sites Inventory #	Province/Territory	Base	PFAS Impacts	Lat	Long
1	9 Wing Gander PFAS site-wide	25053	NL	9 Wing Gander	Suspected	48.943751	-54.583702
2	Goose Bay PFAS site-wide	25030	NL	5 Wing Goose Bay	Confirmed	53.298097	-60.417882
3	Alert Main Station	20247006	NU	CFS Alert	Confirmed	82.498061	-62.33665
4	Alert Airfield	20247029	NU	CFS Alert	Confirmed	82.4998	-62.3611
5	12 Wing Shearwater PFAS site-wide	25081	NS	CFB Halifax	Confirmed	44.637094	-63.503262
6	DCD School (907) - fire fighter training area	3044007	NS	CFB Halifax	Confirmed	44.5858	-63.5511
7	CF Ammunition Depot Bedford PFAS site-wide	25054	NS	CFB Halifax	Suspected	44.715941	-63.630172
8	Former 11 Hgr AFFF discharge point	24867	NS	14 Wing Greenwood	Confirmed	44.98652	-64.903431
9	AFFF lagoon	24818	NS	14 Wing Greenwood	Confirmed	44.982988	-64.906908
10	14 Wing Greenwood PFAS site-wide	25049	NS	14 Wing Greenwood	Confirmed	44.983146	-64.916773
11	Historic ARFFV Maint. Testing Area, Juliette Taxiway/AMU Ram	24815	NS	14 Wing Greenwood	Confirmed	44.980525	-64.931594
12	Former crash exercise at old picnic grounds	24865	NS	14 Wing Greenwood	Confirmed	44.984163	-64.937709
13	CFS Barrington	2267011	NS	CFS Barrington	Confirmed	43.45185	-65.47034
14	Fire hall	4089012	NB	5 CDSB Gagetown	Confirmed	45.8419	-66.4577
15	Tank wash	TBD	NB	5 CDSB Gagetown	Confirmed	45.8419	-66.4577
16	F Line buildings	TBD	NB	5 CDSB Gagetown	Confirmed	45.8419	-66.4577
17	Fire fighting training area and adjacent swamp	4089008	NB	5 CDSB Gagetown	Suspected	45.8359	-66.4592
18	POL Compound	4089001	NB	5 CDSB Gagetown	Confirmed	45.8537	-66.4602
19	Marsh - North of Highway 170	7930017	QC	3 Wing Bagotville	Confirmed	48.33849	-70.98437
20	Firefighter training area	7930007	QC	3 Wing Bagotville	Confirmed	48.3226	-70.984504
21	POL tank farm	7930009	QC	3 Wing Bagotville	Confirmed	48.336684	-70.985062
22	Central heating plant	7930011	QC	3 Wing Bagotville	Confirmed	48.338027	-70.985763
23	Fire Hall, Building 85	24846	QC	3 Wing Bagotville	Confirmed	48.334	-70.986
24	Landfarming site	7930012	QC	3 Wing Bagotville	Confirmed	48.31568	-70.98728
25	Former gas station	24961	QC	3 Wing Bagotville	Confirmed	48.337381	-70.988544
26	Former landfill site	7930006	QC	3 Wing Bagotville	Confirmed	48.323028	-70.992657
27	Cadet Camp-former dry material disposal site	7930019	QC	3 Wing Bagotville	Confirmed	48.33889	-70.99806
28	AFFF héliport	5906060	QC	2 CDSB Valcartier	Confirmed	46.9022	-71.5011
29	Administrative Area - Domaine, Lozeau and Bougainville Islands	6294001	QC	METC Nicolet	Confirmed	46.2211	-72.6472
30	Moras Island	6872002	QC	METC Nicolet	Confirmed	46.2382	-72.6484
31	Fire fighting training areas	984	ON	4 CDSB Petawawa	Confirmed	45.9083	-77.3026
32	Mtn View - inner landfill site	34476004	ON	Det Mountain View	Confirmed	44.07	-77.34
33	EME Shop, Bldg 113 and skeet range	9540005	ON	8 Wing Trenton	Confirmed	44.106733	-77.528633

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34	8 Wing PFAS site-wide	25077	ON	8 Wing Trenton	Confirmed	44.116258	-77.539535
35	8 W fire fighting training area /hazardous materials storage	9540012	ON	8 Wing Trenton	Confirmed	44.12165	-77.545266
36	Fire Hall, Building 19	24856	ON	8 Wing Trenton	Confirmed	44.11716	-77.546874
37	22 Wing PFAS monitoring	24927	ON	22 Wing North Bay	Confirmed	46.357854	-79.408401
38	Fire fighting training area #1	11022039	ON	CFB Borden	Confirmed	44.259044	-79.924399
39	17 Wing Winnipeg PFAS site-wide	25052	MB	17 Wing Winnipeg	Suspected	49.893923	-97.247326
40	Fire Hall, B88	24858	MB	17 Wing Winnipeg	Confirmed	49.894908	-97.248521
41	Inactive landfill	12439001	MB	CFB Shilo	Confirmed	49.8074	-99.6157
42	Fire fighting training area #2	24952	MB	CFB Shilo	Confirmed	49.808813	-99.630864
43	Fire fighting training area	24903	MB	CFB Shilo	Confirmed	49.79121	-99.6519
44	15 Wing landfill	933	SK	15 Wing Moose Jaw	Confirmed	50.320232	-105.547768
45	Building 58 & EME Shop Test Site 2, 15 Wing	13820001	SK	15 Wing Moose Jaw	Confirmed	50.338272	-105.554117
46	15 Wing Moose Jaw PFAS site-wide	25051	SK	15 Wing Moose Jaw	Suspected	50.33153	-105.5577
47	EME Shop Test Site 1	24851	SK	15 Wing Moose Jaw	Confirmed	50.337045	-105.558203
48	Fire Hall Test Area 1	24853	SK	15 Wing Moose Jaw	Confirmed	50.337197	-105.562677
49	15 Wing Former FFTA	954	SK	15 Wing Moose Jaw	Confirmed	50.340622	-105.570116
50	Dundurn Fire Hall	24864	SK	Det Dundurn	Confirmed	51.848336	-106.559591
51	Detachment Dundurn PFAS site-wide	TBD	SK	Det Dundurn	Suspected	51.848336	-106.559591
52	Det Dundurn fire fighter training area	8528	SK	Det Dundurn	Confirmed	51.843124	-106.561034
53	4 Wing Cold Lake PFAS site-wide	25048	AB	4 Wing Cold Lake	Confirmed	54.41221	-110.27299
54	CFB Suffield PFAS site-wide	25044	AB	CFB Suffield	Suspected	50.483863	-110.79721
55	Wainwright PFAS site-wide	25043	AB	CFB Wainwright	Confirmed	52.715043	-110.9104
56	CFB Edmonton PFAS site-wide	25042	AB	3 CDSB Edmonton	Confirmed	53.674938	-113.46548
57	PB-6 Pat Bay Hanger 17 Fmr POL shed/UST	25033	BC	CFB Esquimalt	Confirmed	48.64778	-123.433584
58	Dockyard PFAS	TBD	BC	CFB Esquimalt	Suspected	48.43009	-123.434561
59	COL 4 Colwood fire fighting training area	17451013	BC	CFB Esquimalt	Suspected	48.4474	-123.451
60	Belmont Park PFAS	TBD	BC	CFB Esquimalt	Suspected	48.432797	-123.474251
61	Colwood PFAS	TBD	BC	CFB Esquimalt	Suspected	48.432797	-123.474251
62	Mary Hill PFAS	TBD	BC	CFB Esquimalt	Suspected	48.34487084	-123.5513674
63	Rocky Pt PFAS	TBD	BC	CFB Esquimalt	Suspected	48.326915	-123.568142
64	CFMETR PFAS	TBD	BC	CFB Esquimalt	Suspected	49.26698314	-124.1495396
65	19 Wing PFAS site-wide	25015	BC	19 Wing Comox	Confirmed	49.712844	-124.895807

Table 1 - Confirmed and potential sites of PFAS contamination at DND installations as of October 1, 2021

- 8. What data is available from monitoring programs undertaken by or on behalf of Environment Canada and Climate Change, Health Canada, Transport Canada and the Department of National Defence to detect or measure the levels of PFOS, PFOA, and LC-PFCAs or any other PFAS in Canada? How do each of the departments make the data, results and findings from monitoring programs available to the public and to local health agencies? What other environmental and health monitoring has been completed on PFAS beyond those in the PFOS, PFOA and LC-PFCAs? Please provide the data, particularly for landfills, drinking water sources and wildlife monitoring. How is this data released or made available to local health agencies and to the public? Please specify if the data is publicly and freely available and how it can be accessed.**

Where PFAS originating from DND property is suspected of impacting drinking water sources, it is the Department's practice to inform and offer to share all departmental data with the provincial regulator and the local health agency. So far this has happened in North Bay, Mountain View, Edmonton, Wainwright and Comox.

Where DND conducts an environmental testing program for PFAS off its property that affects more than just a few landowners, the Department typically issue a press release to advise the public of the nature of and the reason for its activities. Otherwise DND deals directly with the impacted landowners and shares the results from their property with them.

DND's environmental monitoring expands beyond PFOS, PFOA and LC-PFCAs. Environmental monitoring compares environmental media to existing criteria developed by provinces or federal authorities, and DND adjusts its monitoring program accordingly. For example, Ontario's

Ministry of the Environment, Conservation and Parks recommends that PFAS levels in drinking water not exceed 70 nanograms per litre for the sum of 11 PFAS including PFHxS, PFDS, PFOSA and PFHxA; these compounds are captured in DND's environmental monitoring in Ontario.

DND does not make its environmental monitoring data publicly available, in the sense that the data is not published online or available to the general public without submitting an access request under the *Access to Information Act*. Reports relating to offsite testing programs often contain information that cannot be released under the *Privacy Act*, such as names and addresses of impacted landowners.

**9. In how many instances have each of Environment Canada and Climate Change, Health Canada, Transport Canada and the Department of National Defence requested extensions of up to 300 days to reply to Access to Information requests from the public when those requests pertain to reports, studies or monitoring results that are complete and / or have been the subject of issued statements by that Department? Please provide specifics.**

There are two instances of Access to Information requests related to PFAS that took extensions.

(1) Request A-2019-00619:

*All documents, including but not limited to briefings, reports, slide decks etc. related to per- and polyfluoroalkyl substances (PFAS) including but not limited to perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) and surrounding soil and waterways to the following military bases in Canada: 4 Wing Cold Lake, 19 Wing Comox BC and 3 Wing Bagotville. Documents dated 1 January 2016 to 30 January 2020. Please exclude cabinet confidences, emails, third-party reports, and french documents.*

A 300-day extension was taken for volume by the Royal Canadian Air Force (RCAF) that estimated that it had approximately 5,000 pages of records that were responsive to the request. Due to the COVID-19 lockdowns and issues regarding the classification of some of the records, it was not until February 10, 2021, that the RCAF was able to provide its records to the Directorate Access to Information and Privacy (DAIP), which coordinates the administration of the federal *Access to Information Act* and the *Privacy Act* within DND. Due to the same COVID-19 lockdowns, DAIP has a backlog of paper records to be scanned, but the request is in the queue. The responsive documents received from across DND for this request are estimated to number over 10,000 pages.

(2) Request A-2019-01005:

*Records obtained and processed under file A-2019-00619.*

This Access request seeks the processing file for the first request, and an extension of 300 days was taken since it is dependent on the completion of A-2019-00619.

Both requests are still open.