

PFAS Public Meeting

Wednesday March 27, 2024

Speakers: Peter Bullock and Liza Vandermeer
Trout Lake Conservation Association

Qualifier: Presentation is in no way intended to criticize the agencies involved or to downplay efforts taken so far to address PFAS contamination



DND might frame the PFAS issue as a
problem with stormwater flowing from
their CFB North Bay property

or

North Bay might simply frame it as a
drinking water treatment problem

We need to reframe this issue in a broader context:

Legacy *“forever chemicals”* from AFFF used and/or stored at the Airport and CFB North Bay are leaching into surrounding streams and affecting the downstream environment and public health





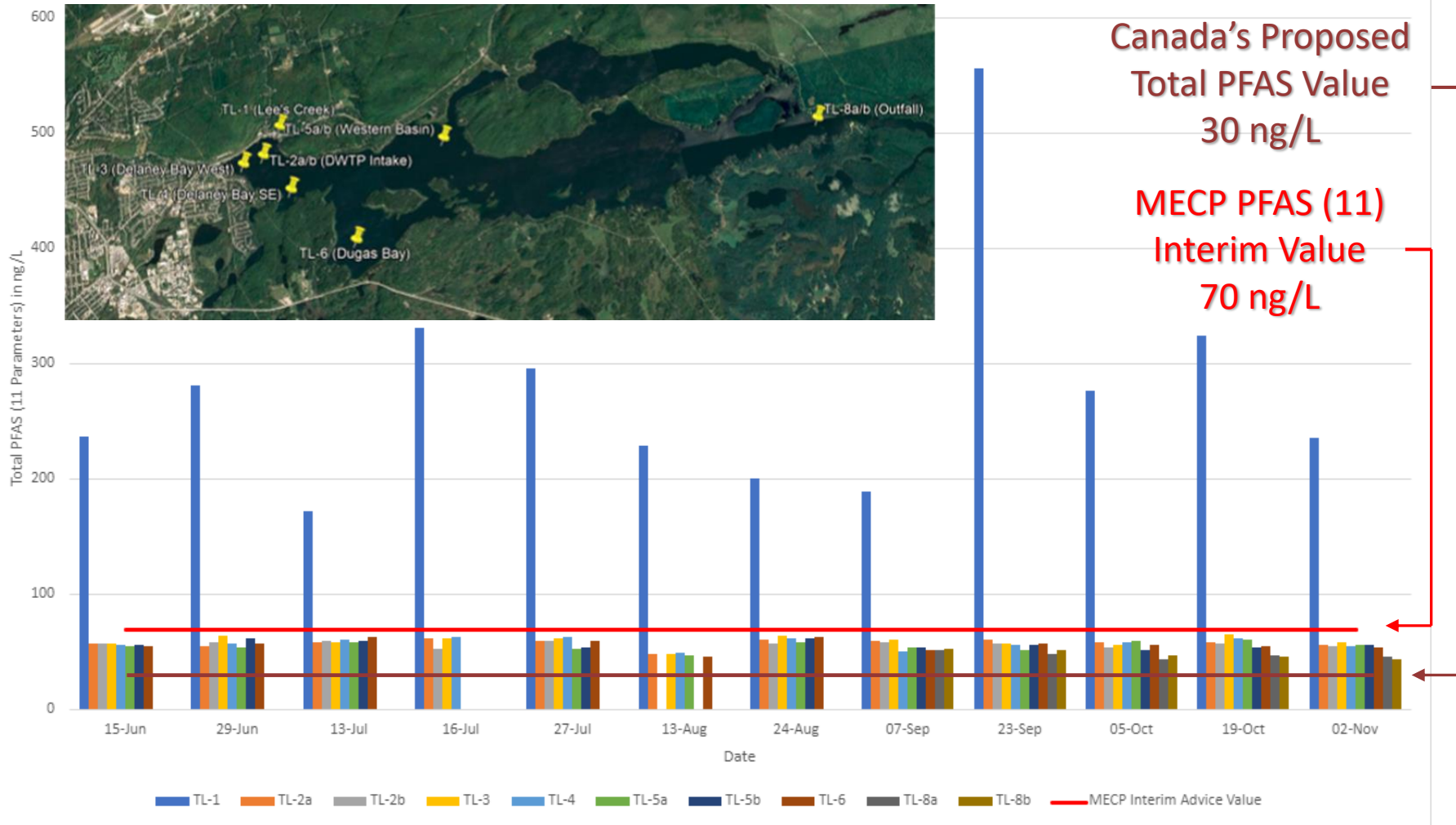
PFAS source locations are now well understood and work is underway to start on remediation at the east end of the Airport

But the problem is now much larger.

PFAS leaching into streams is travelling to receiving waterbodies. It is affecting aquatic life including fish, contaminating private property and potentially affecting the health of resident along its pathway. One pathway to Lake Nipissing is through the City's water and sewage systems to reach Lake Nipissing. It is also migrating through Trout Lake into downstream water bodies.



Sum of 11 PFAS

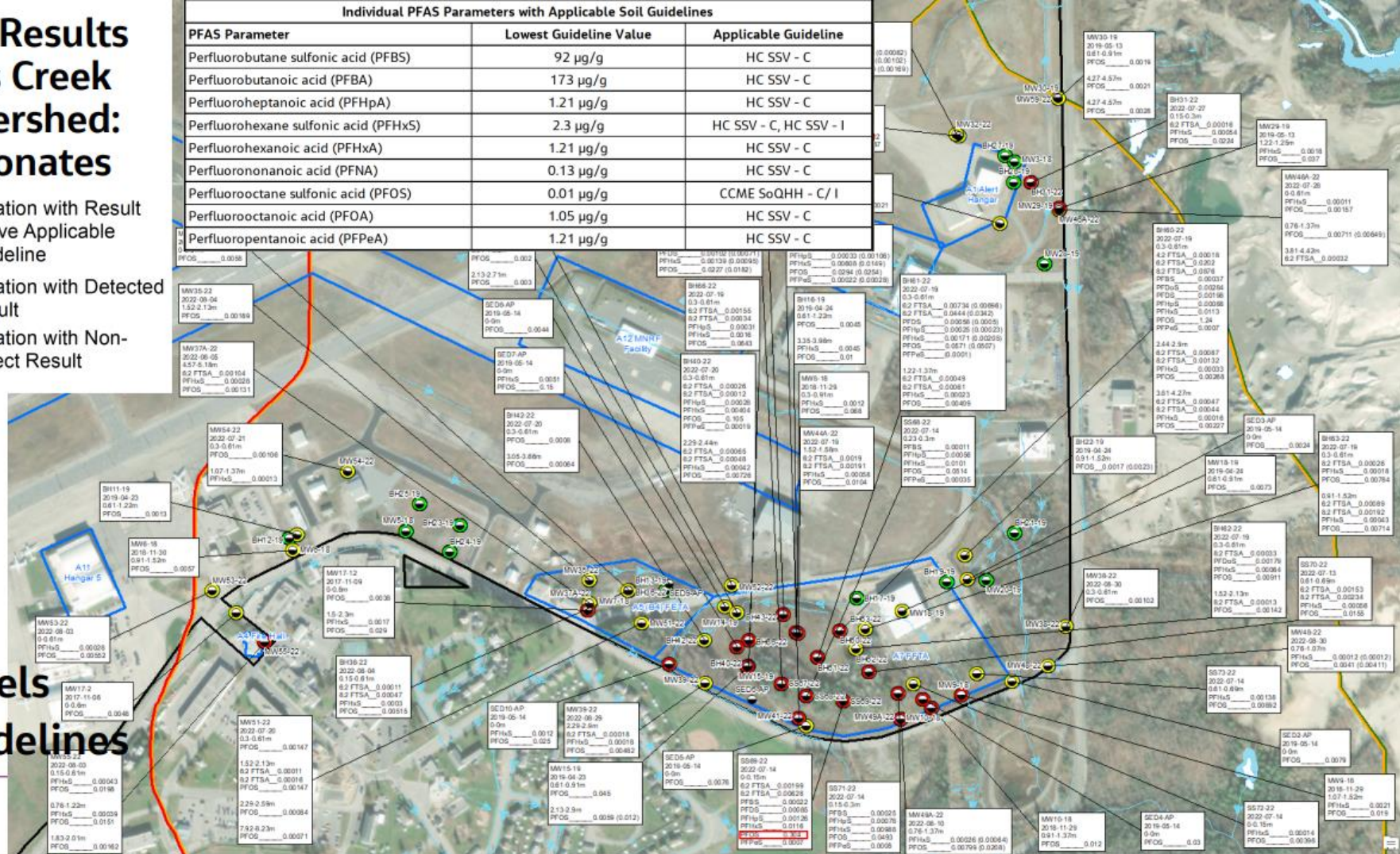


2021 PFAS (11) data for the mouth of Lees Creek (blue) and MECP water quality monitoring stations for Trout Lake (various colours) show that the entire main basin is impacted

Soil Results Lees Creek Watershed: Sulfonates

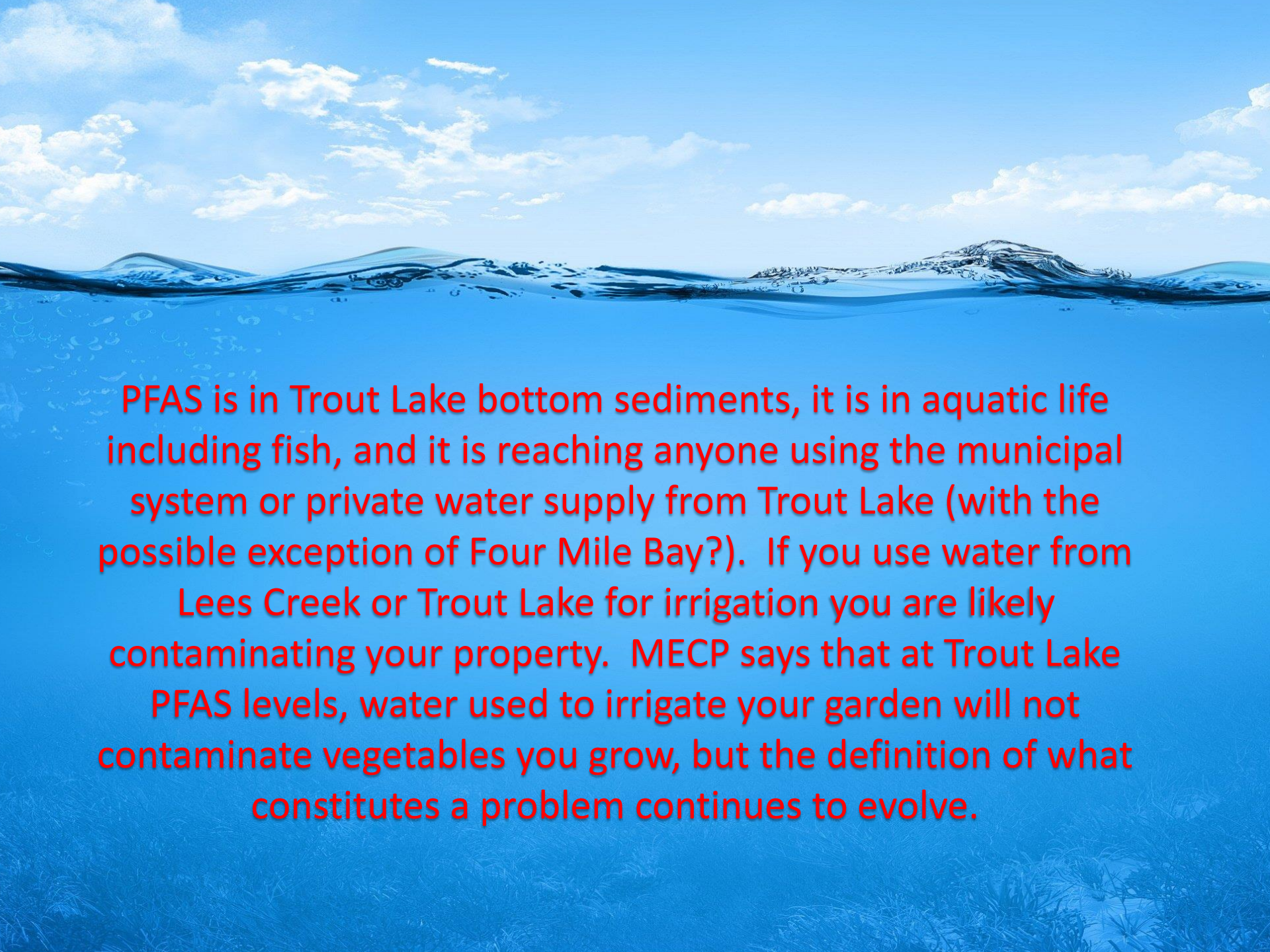
- Location with Result Above Applicable Guideline
- Location with Detected Result
- Location with Non-Detect Result

Individual PFAS Parameters with Applicable Soil Guidelines		
PFAS Parameter	Lowest Guideline Value	Applicable Guideline
Perfluorobutane sulfonic acid (PFBS)	92 µg/g	HC SSV - C
Perfluorobutanoic acid (PFBA)	173 µg/g	HC SSV - C
Perfluoroheptanoic acid (PFHpA)	1.21 µg/g	HC SSV - C
Perfluorohexane sulfonic acid (PFHxS)	2.3 µg/g	HC SSV - C, HC SSV - I
Perfluorohexanoic acid (PFHxA)	1.21 µg/g	HC SSV - C
Perfluorononanoic acid (PFNA)	0.13 µg/g	HC SSV - C
Perfluorooctane sulfonic acid (PFOS)	0.01 µg/g	CCME SoQHH - C/I
Perfluorooctanoic acid (PFOA)	1.05 µg/g	HC SSV - C
Perfluoropentanoic acid (PFPeA)	1.21 µg/g	HC SSV - C



Labels
Guidelines

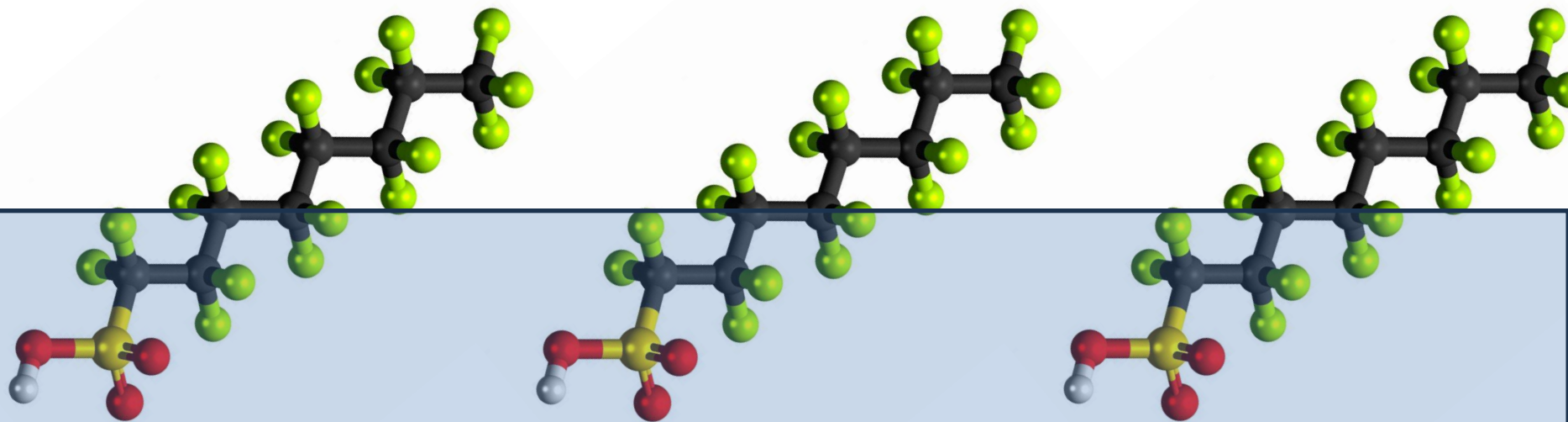
So far remediation is concentrating on Former Firefighter Trainer Areas at the east end of the Airport



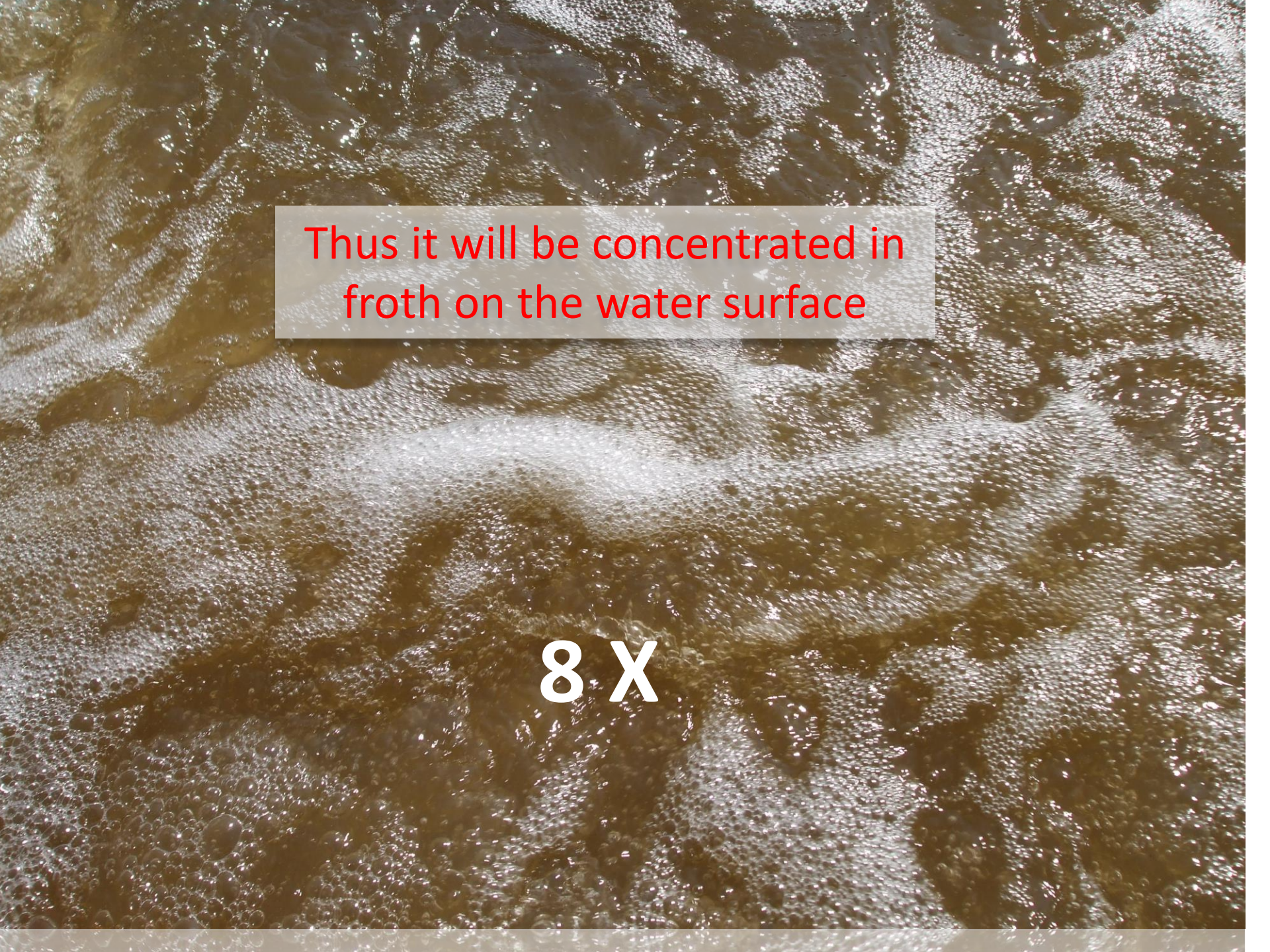
PFAS is in Trout Lake bottom sediments, it is in aquatic life including fish, and it is reaching anyone using the municipal system or private water supply from Trout Lake (with the possible exception of Four Mile Bay?). If you use water from Lees Creek or Trout Lake for irrigation you are likely contaminating your property. MECP says that at Trout Lake PFAS levels, water used to irrigate your garden will not contaminate vegetables you grow, but the definition of what constitutes a problem continues to evolve.

PFAS molecules have a tendency to float at the water surface as a surface active agent

Air




Water



Thus it will be concentrated in
froth on the water surface

8 X



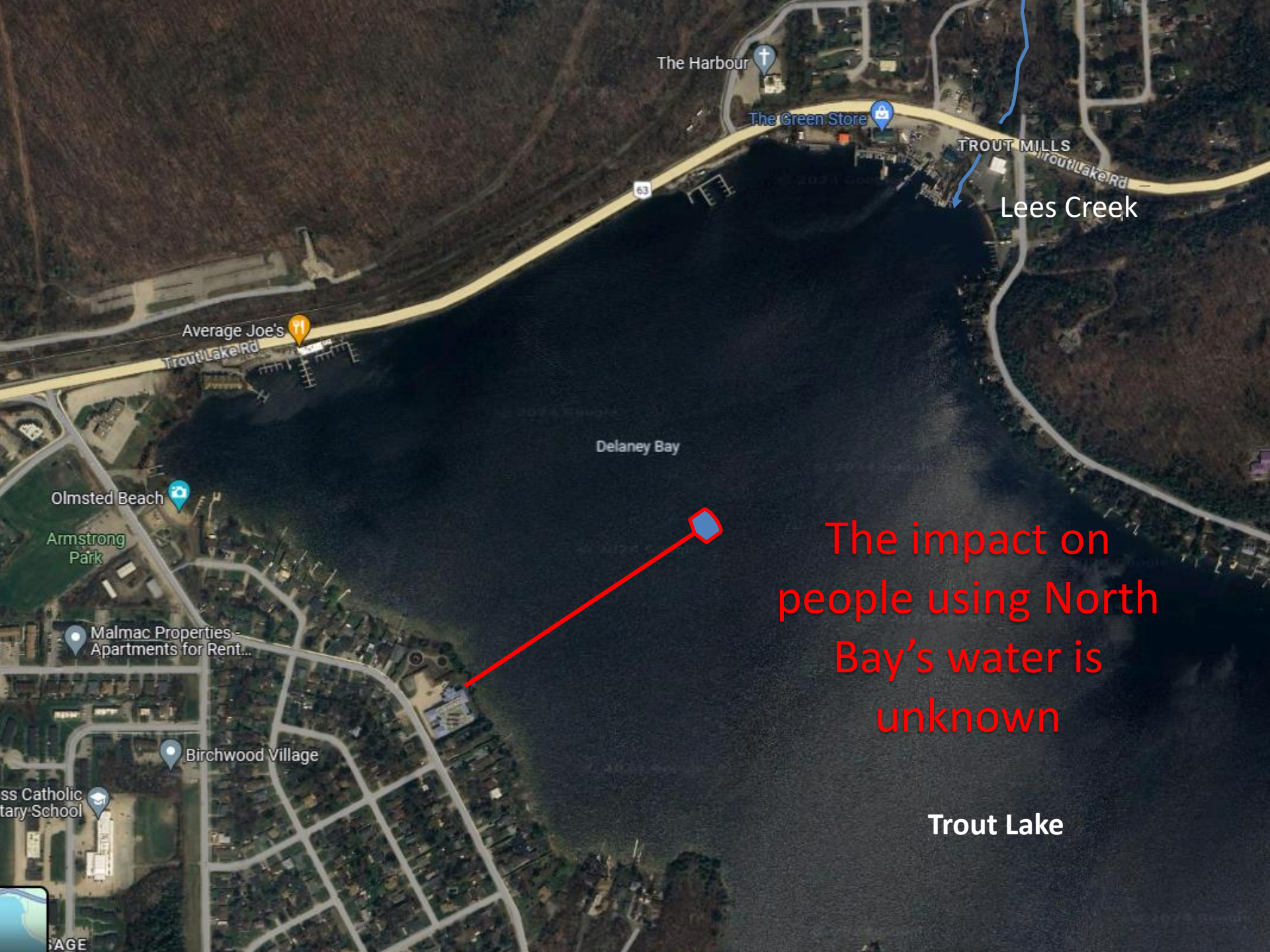
And can build up to very high
levels in foam on the shores of
Trout Lake or the banks of
contaminated streams

200 X



Lee's Creek

The bed of Lees Creek is contaminated, and PFAS is leaching from the creek to private wells in places. People have unknowingly been drinking contaminated water, potentially, for decades.



The Harbour

The Green Store

Trout Mills

Lees Creek

Average Joe's

Olmsted Beach

Armstrong Park

Malmac Properties -
Apartments for Rent...

Birchwood Village

St. Mary's Catholic
Elementary School

Delaney Bay

The impact on
people using North
Bay's water is
unknown

Trout Lake

We have many environmental and public health questions, and their answers will only generate more questions!

**We are asking for more research and testing,
including environmental and public health
research:**

- We reach out to NOSAM students to use North Bay for research projects;
- We reach out to professors and scientist to direct their area of research into PFAS impacts in North Bay;
- We are looking for greater transparency on all fronts and the continued sharing of information.

Thank You for your interest in being
better informed!



The Forever Chemicals | Water Brothers | Full Episode | TVO Original



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North Bay at 14:10 to 17:50