Michigan Department of Health and Human Services (MDHHS)

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The Role of MDHHS

- Determine if chemicals in the environment may cause harm to health
- Provide recommendations
- Provide technical support to the local health department
- Outreach to public, healthcare, others

PFAS Chemicals

- Health problems are not immediate
 - You would not feel sick

 If you <u>drink</u> high levels of PFAS chemicals over time you could be more likely to develop some health problems in the future

Associated Health Issues: PFOS and PFOA

High-dose exposures in people are linked to:

- Higher cholesterol
- Thyroid disease (PFOA)
- Ulcerative colitis (PFOA)
- Testicular and kidney cancer (PFOA)
- Changes to the immune system
- High blood pressure during pregnancy (PFOA)
- Other

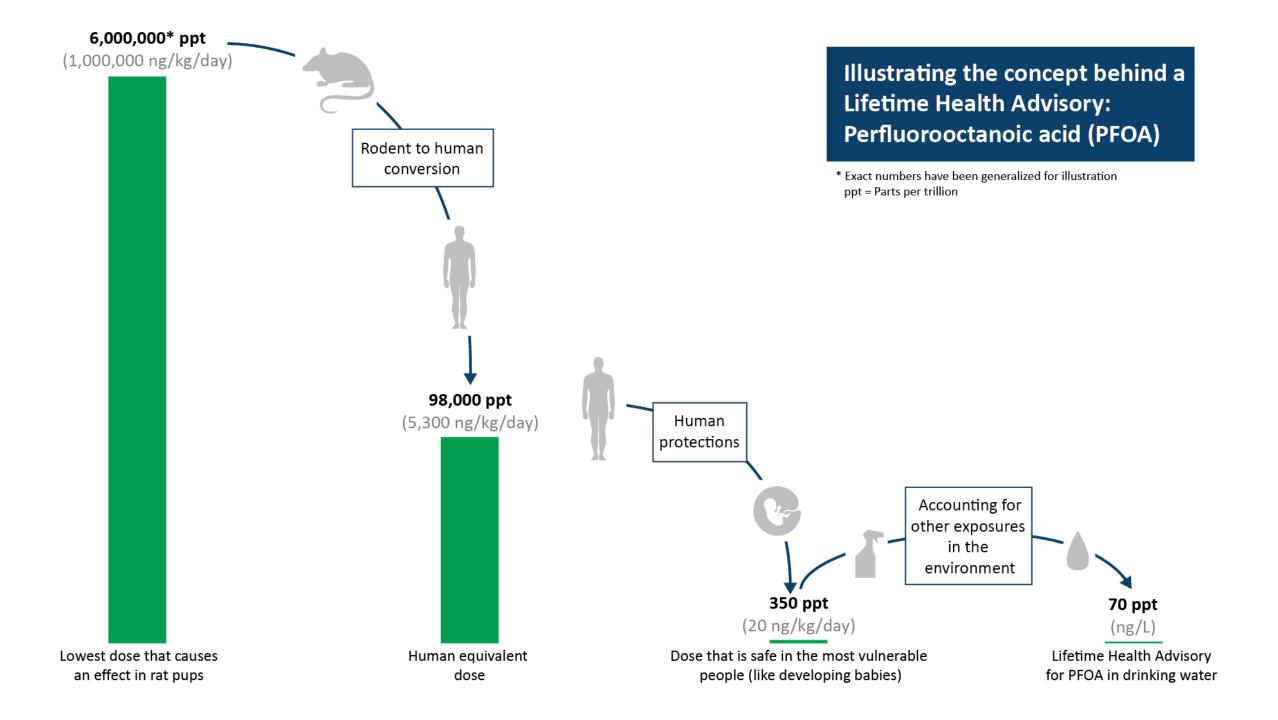
High-dose studies In laboratory animals have shown:

- Exposure during pregnancy
 - Changed bones in the paw
 - Lowered pup birth weight
 - Sooner puberty in male pups
- Immune system problems
- Changes in liver and kidney weight

Environmental Protection Agency's "Health Advisory" Level

- Based on reference doses (RfD) calculated from developmental toxicity study in rats
- Lifetime Health Advisory
 - PFOA + PFOS = 70 ppt (ng/L)
 - Short-term and long-term exposure

Protects unborn baby and others against cancer and noncancer health issues



As a precaution

All residents had less than 70 ppt PFOS+PFOA

These residents are offered a filter because we do <u>not yet</u> <u>know</u> if the amount of PFOS+PFOA in their water will change in the near future

A temporary protective measure

The Health Department's Recommendations

Groundwater at the landfill was >70 ppt

<u>and</u>

The groundwater plume is still being identified

Anyone with detected PFAS in well-water is offered a filter while the investigation is underway

What you can do

Reduce your exposure to PFAS from all sources:

- Use a filter if it is recommended
- Follow MI's Eat Safe Fish guidelines
- Read consumer product labels and avoid using those with PFAS

- outdoor clothing
- carpets
- cleaning products
- cosmetics
- leather goods
- ski waxes

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Thank you