

MPART Citizens Advisory Workgroup

October 13, 2020

Updated Members List

County	City	Name
Allegan	Otsego	Gale Dugan
Allegan	Otsego	Pam McQueer
Grand Traverse	Traverse City	David Lipscomb
Ingham	East Lansing	Lea Dyga
Ingham	Williamston	Kate Gislason
Iosco	Oscoda	Aaron Weed
Kalamazoo	Kalamazoo	Brandi Crawford-Johnson
Kent	Ada	A.J. Birkbeck
Kent	Belmont	Jennifer Carney
Kent	Belmont	Sandy Wynn-Stelt
Kent	Comstock Park	Renae Mata
Kent	Grand Rapids	Patti Baldwin
Kent	Rockford	Kenneth Harvey
Kent	Rockford	Lynn McIntosh

County	City	Name
Livingston	Brighton	Elizabeth Hauptman
Livingston	Brighton	Robert Potocki
Livingston	Whitmore Lake	William Creal
Macomb	Shelby Twp	David Winn
Menominee	Menominee	Daniel Burlingame
Montcalm	Pierson	Daniel Buyze
Muskegon	Muskegon	Matthew Farrar
Oakland	Milford	Christina Schroeder
Oakland	Troy	Tony Spaniola
Ottawa	Grand Haven	Jeffrey Dutton
Saginaw	Carrollton Township	Shellene Thurston
Washtenaw	Ann Arbor	Daniel Brown
Wayne	Detroit	Theresa Landrum
Wayne	Grosse Pointe Farms	Connie Boris
Wexford	Cadillac	William Barnett

Agenda

- Welcome and MS Teams Housekeeping – 2 min
- Follow-up – 3 min
- Subcommittee Updates – 15 min
 - Priorities
- North Kent County Exposure Assessment – 15 min
- MPART Updates – 30 min
- Citizens Panel for PFAS Summit – 10 min
- Community Sharing Round Robin – 15 min

Follow-Up

- Questions on PFAS report
- Rouge River and Ecorse River Watersheds Summaries

CAWG Subcommittee Updates

Engaging the Public Subcommittee
Web Review Subcommittee

North Kent County PFAS Exposure Assessment (NKCEA)

Briefing for the First Report Release

10/13/2020

Background, Design, and Demographic Results

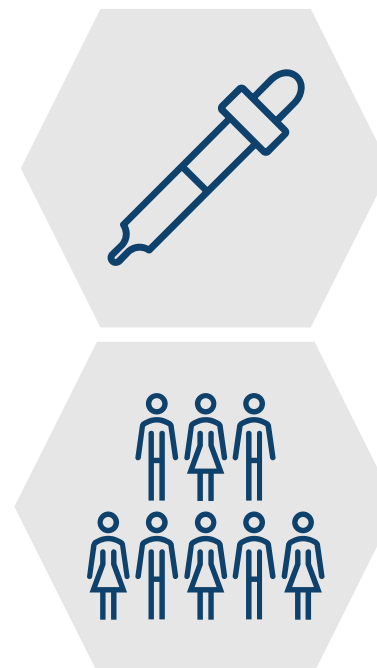
Exposure Assessment Background

- Since PFAS (per- and polyfluoroalkyl substances) were discovered in private drinking water wells in this region, MDHHS has applied CDC-ATSDR methods to **investigate the public health risks** from environmental chemical releases.
- Following CDC-ATSDR methods,^[1] the North Kent County community's chemical exposure was investigated by **blood testing** and **questionnaires** in the North Kent County PFAS Exposure Assessment (NKCEA).
- NKCEA is **one step** in MDHHS's **continuing** public health investigation.

[1: https://www.atsdr.cdc.gov/pfas/activities/assessments/peatt.html](https://www.atsdr.cdc.gov/pfas/activities/assessments/peatt.html)

What is in the FIRST report?

- **Objective 1:** Summarize the amounts PFAS in the blood of NKCEA participants
 - Limited to PFAS blood results for ages 12 and older
- **Objective 2:** Compare blood PFAS levels of NKCEA participants to NHANES participants
 - Limited to PFAS blood results for ages 12 and older



Demographic data is summarized in the first report; other questionnaire data will be summarized in the next report

Households were eligible if they:

- Were on a **private water well** tested by or at the direction of Department of Environment, Great Lakes, and Energy (EGLE) and
- Had a **detectable amount of PFAS** as reported to MDHHS from EGLE

Less than 70 ppt total
PFAS
(591 households)

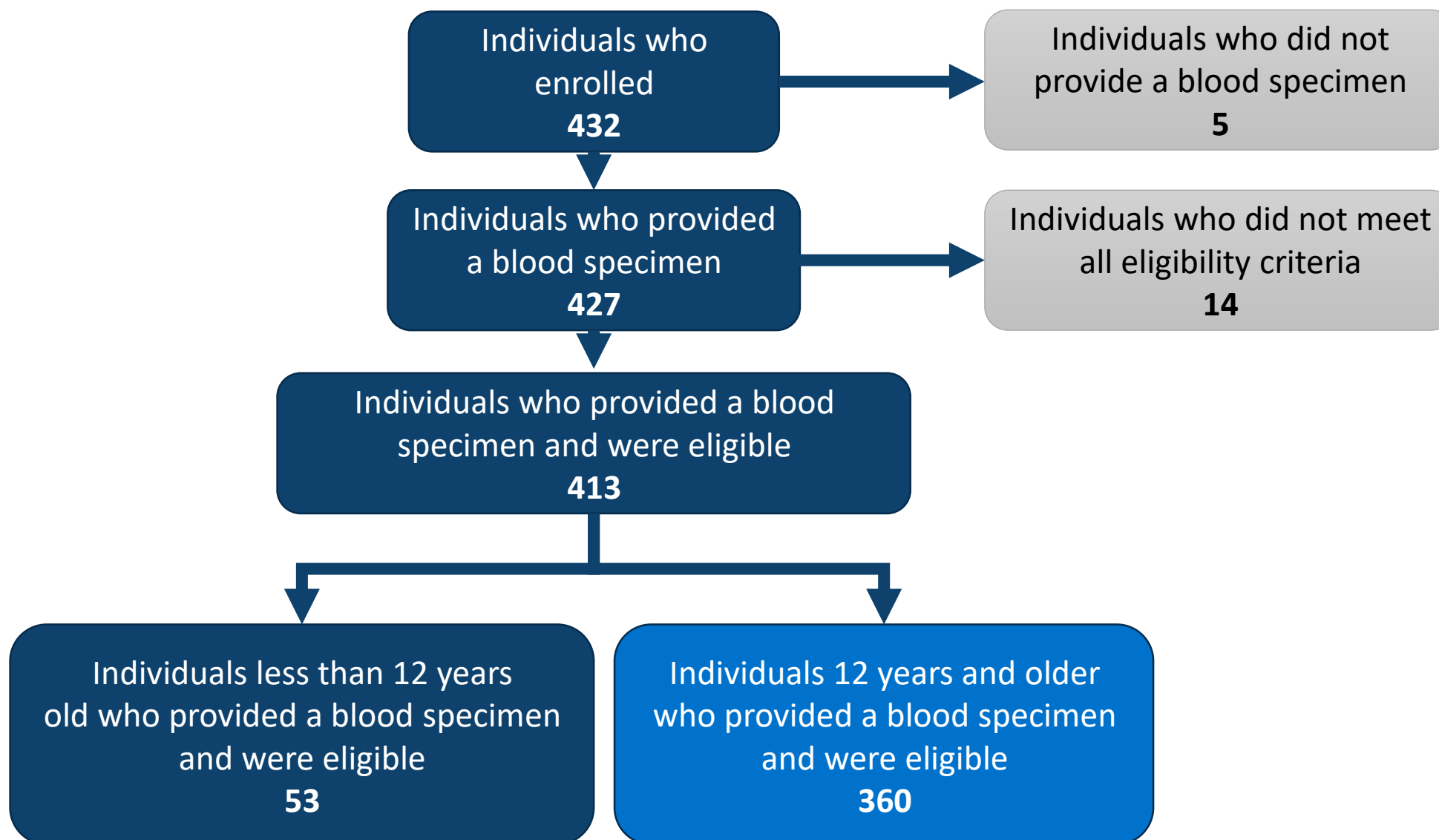
235 (40%) selected

Greater than or equal
to 70 ppt total PFAS
(182 households)






182 (100%) selected

ppt = parts per
trillion
(nanograms
per Liter
[ng/L])

Participants in NKCEA: Individuals



Demographics for NKCEA Participants

-  Average age was 50 years
-  Slightly more females than males participated (52% vs. 48%)
-  Most adults (51%) attended at least four years of college
-  Most adults (58%) reported an annual household income above \$75,000
-  Most participants (95%) were white and non-Hispanic

Blood PFAS Results

PFAS levels in some NKCEA participants are at higher-than-expected levels



Could Not Compare

PFBA	PFHpS
PFPeA	PFPeS
PFHxA	PFOSA
PFDoA	PFNS
PFBS	PFDS
PFTriA	4:2 FTS
Br-PFOA*	6:2 FTS
PFTeA	8:2 FTS
L-PFHxS*	Br-PFHxS*

Not Higher

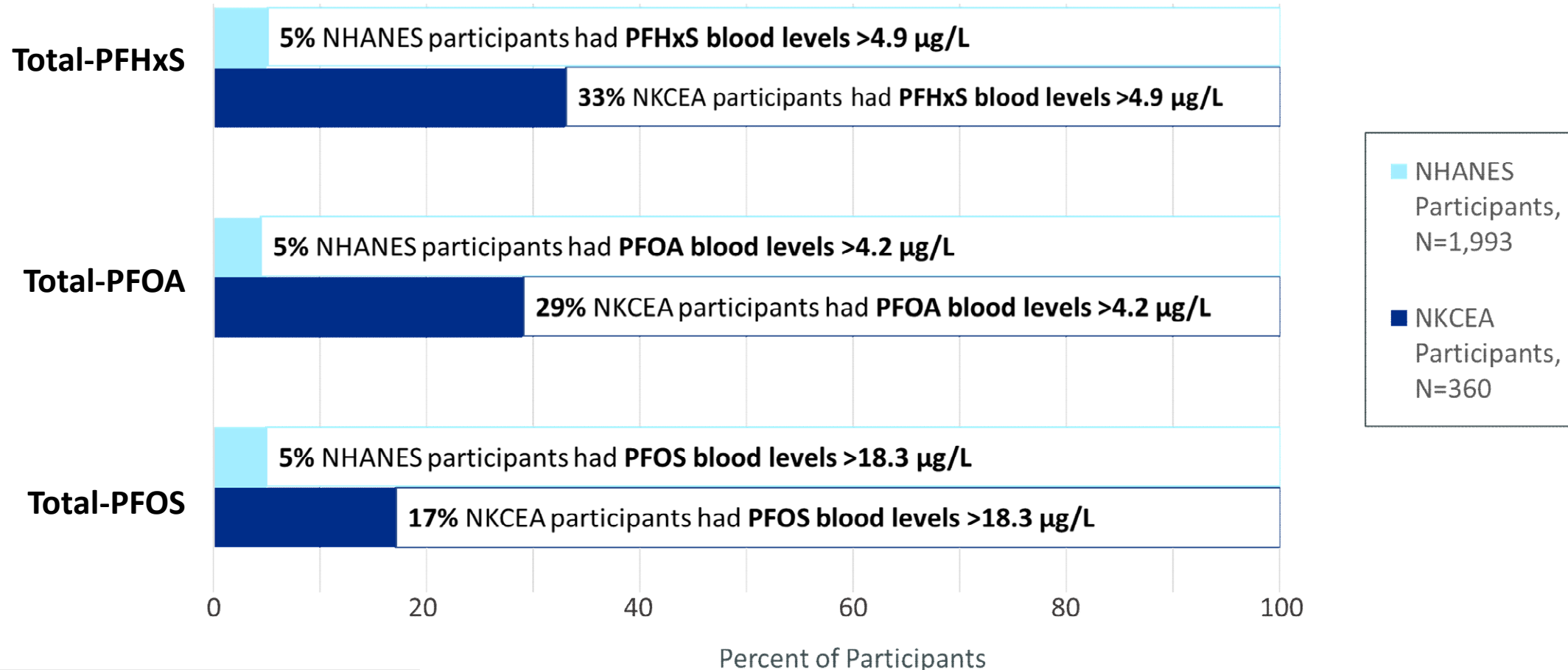
PFDA
PFUnA
PFHpA
EtFOSAA
PFNA

Higher than expected

Total-PFHxS*
Total-PFOS*
L-PFOS*
Br-PFOS*
Total-PFOA*
L-PFOA*
MeFOSAA

*Linear (L) and branched (Br) isomers are different shapes; Total = sum of branched and linear

Comparison of number of participants with levels greater than NHANES 95th percentile



µg/L (micrograms per liter)
= ppb (parts per billion)

MeFOSAA = 7.2 % of NKCEA participants had levels greater than 95% (0.6 µg/L)

Comparison of Average and Maximum PFAS Blood level to other groups



PFAS Blood Levels in Different Groups of People (µg/L)

	Total-PFHxS		Total-PFOA		Total-PFOS	
	Average	Maximum	Average	Maximum	Average	Maximum
Workers in PFAS industries	65	1,880	1,231	92,030	692	10,600
Communities with contaminated drinking water	6	116	23	17,557	18	759
NKCEA Study Participants	2	884	2	433	6	3,173
NHANES Participants	1	23	2	20	5	110

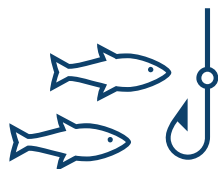
Summary

- The PFAS blood levels found in some NKCEA participants were **higher** than the NHANES 95th percentile for some PFAS, including **total PFOA, total PFOS, and total PFHxS**.
- For most of the PFAS with NHANES comparison values, the blood levels of NKCEA study participants were **in the same range** as the NHANES 95th percentile.

The Next NKCEA Report Will:



Summarize PFAS levels in **drinking water samples** collected from NKCEA households



Describe factors that **affect** PFAS blood levels

- Water use, filter use, fish consumption, etc.



Examine the **connection** between drinking water PFAS levels and blood PFAS levels



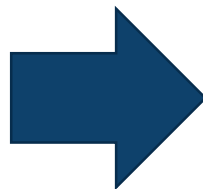
Make **additional comparisons** between participants' PFAS blood level and other groups or national averages

Upcoming MDHHS Studies

Exposure Assessment

**North Kent
County**

PFAS Exposure
Assessment



Two Health Studies



The goal of these studies is to learn how drinking water that contains PFAS may affect health.

Upcoming MDHHS Studies

- MiPEHS is expected to start in 2020
- Will invite eligible people from **City of Parchment/Cooper Township** and **Belmont/Rockford area**
 - Eligible people will receive a letter from MDHHS, inviting them to participate in the study when study offices open.
- Learning more about PFAS and health in these communities will **benefit** the health of **all Michiganders**.

THANK YOU!

MDHHS and KCHD thank the exposure assessment participants for their time and effort on this study.

Contact Information

- Rachel Long: longr5@michigan.gov
- Joost van 't Erve: vantervej@michigan.gov
- Study team email: MDHHS-pfasproject@michigan.gov
- Webpage: www.michigan.gov/envirohealth
- Phone number: **1-844-464-7327**

MPART Updates

Foam Result vs. Surface Water Result

All Michigan PFAS Sites - Foam Data

LEGEND: ND = Non-Detect Blank Spaces = PFAS Compound Not Analyzed

This foam data was from samples collected by EGLE and/or partners. Each foam sample result below was based on a single point in time and likely not repeatable since foam forms, subsides and sometimes forms again. Michigan Department of Health and Human Services uses foam data to determine the need for any specific health recommendations and/or advisories beyond the overall advice to avoid foam and to rinse off if you come into contact with it. There are no water quality standards for foam and EGLE has no regulatory authority to require action based on PFAS in foam. Rather, we use foam sightings to guide future sampling of lakes and streams and help us find sources of PFAS.

District	County	Waterbody	Location	Sample Collection Date	Media	PFOS	PFOA
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-07-17	Foam	22000	99.2
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-07-17	Surface Water	3.66	1.34
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-08-29	Foam	21000	66.7
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-08-29	Surface Water	7.06	1.21
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-09-27	Foam	7500	52.7
Gaylord	Crawford	Lake Margrethe	SUNFISH AVE	2018-09-27	Surface Water	7.84	1.24
Gaylord	Crawford	Lake Margrethe	BORCHERS WAY	2019-05-07	Foam	18600	66.8
Gaylord	Crawford	Lake Margrethe	BORCHERS WAY	2019-05-07	Surface Water	25.4	2.18
Gaylord	Crawford	Lake Margrethe	LINCOLN PARK BLVD	2018-06-28	Foam	15500	56.6
Gaylord	Crawford	Lake Margrethe	LINCOLN PARK BLVD	2018-06-28	Surface Water	8.77	1.14
Gaylord	Crawford	Lake Margrethe	DNR BOAT LAUNCH	2017-10-06	Foam	2330	11.8
Gaylord	Crawford	Lake Margrethe	DNR BOAT LAUNCH	2017-10-05	Surface Water	0.607	ND
Gaylord	Crawford	Lake Margrethe	END OF FINCH	2018-09-27	Foam	12500	102
Gaylord	Crawford	Lake Margrethe	END OF FINCH	2018-09-27	Surface Water	3.86	1.32
Gaylord	Crawford	Lake Margrethe	END OF INSLEY AVENUE	2018-07-18	Foam	2660	59.2
Gaylord	Crawford	Lake Margrethe	END OF INSLEY AVENUE	2018-07-18	Surface Water	6.38	1.22

Budget

Ongoing Funding; One-Time for FY2021

- Renew Michigan Program - Restores **\$500,000** of restricted funding for the Renew Michigan Program to return funding to **\$69.0** million. The program supports environmental remediation at non-petroleum contaminated sites, recycling, and solid waste management; it is funded by an income tax earmark.
- **\$450,000** for contamination remediation at Parchment water treatment plant
- **\$600,000** one-time funding for electroplating site in Madison Heights site – demolition

Budget

Not Continued or Cut

- FY 2021 budget does not include another **\$120.0 million** GF/GP for drinking water initiatives that was included in the FY 2019-20 budget for Drinking Water Revolving Fund loan forgiveness, lead and copper rule implementation, PFAS and emerging contaminant remediation, and grants for the development of asset management plans.
- FY2021 budget also does not include renewing **\$2.2 million** for the Wildlife and Fisheries Health Study (PFAS) and wildlife management (CWD) that was included in the FY 2019-20 budget.
- **\$300,000** was cut from mapping and other support for GIS mapping of contaminated sites and groundwater flow, including PFAS sites.

6 Regional PFAS Webinars Complete

- 409 attendees
 - Bay City – 40
 - Grand Rapids - 85
 - Kalamazoo/Jackson – 90
 - Lansing – 69
 - Northern Michigan – 39
 - Southeast Michigan – 86

Communication Protocol Revision

- MPART's standard is to host a town hall
 - Does it always make sense to host one vs. individual notification?
 - Virtual town hall access
 - Number of potentially impacted residents
 - Local officials' recommendations
 - Community Outreach
 - Helpful to know community groups that may be able to help advertise town halls.

Great Lakes *Virtual* PFAS Summit

- October 26-30, 2020
- 915 registrants + 18 exhibitors
- Citizens Panel - August 19th Prep Call
 - Themes
 - Transparency
 - Technical clean-up issues vs. health concerns
 - Importance of an informed public
 - “Script” under review

Agency Updates

Next Steps

- Future meetings
 - November 10, 2020
 - December 8, 2020

Community Sharing Round-Robin



UPDATES



ANNOUNCEMENTS



QUESTIONS

MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

www.Michigan.gov/PfasResponse



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

