

CITY OF HASTINGS – PFAS UPDATES

FEBRUARY 2023



February 21, 2023

City Council Workshop



Agenda



- Drinking Water Standards – Update on EPA and MDH
- Limited Phase One Environmental Review
- Preliminary Project Scope and Cost Estimate
- Communications Plan
- Potential Funding Sources
- Next Steps

Summary of Results in Hastings

PFAS Health Risk Index (HRI) Calculation results

7 records selected.

Selection Criteria:

PWSID(s): **1190012**

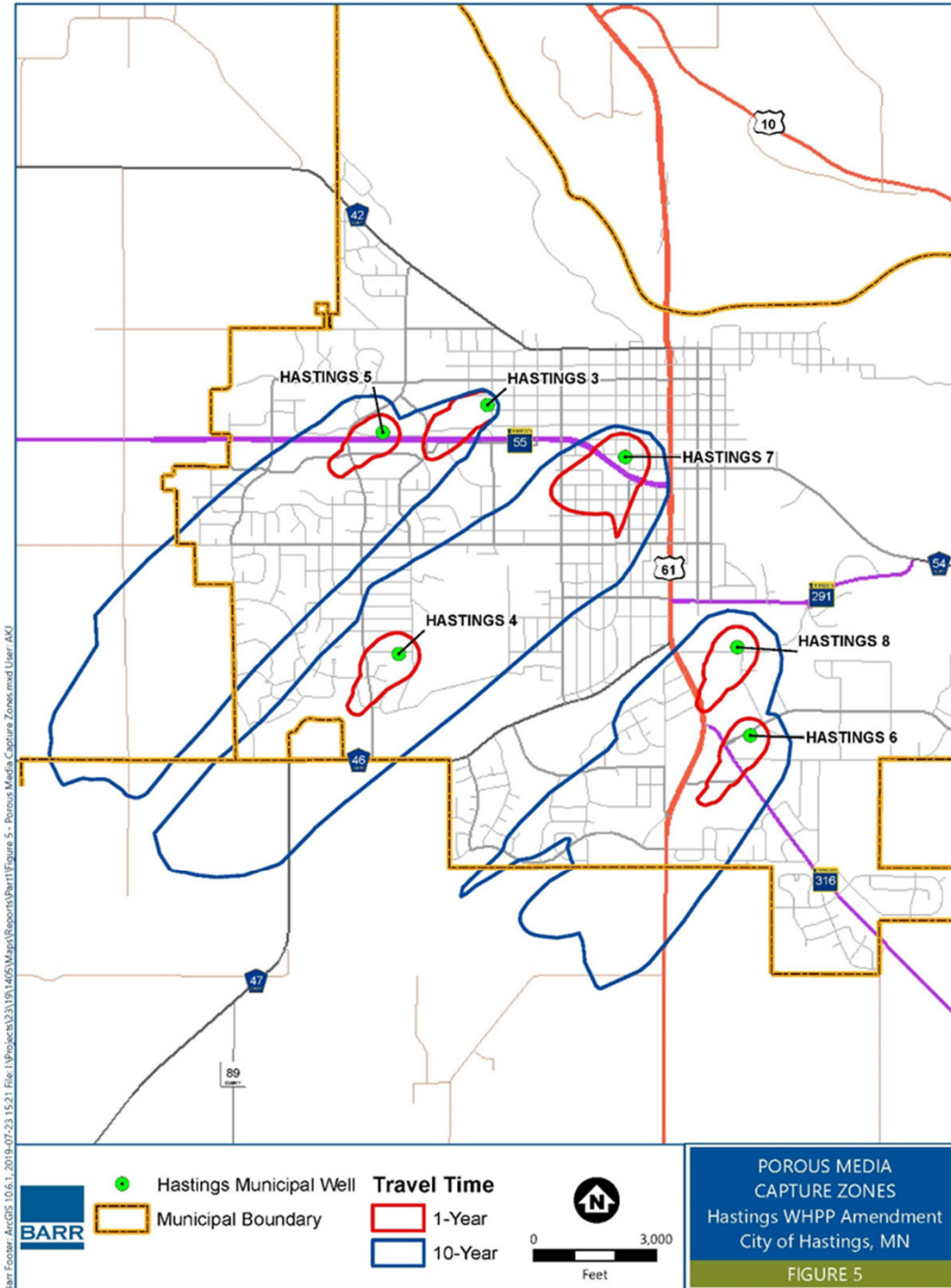
Sample Date Range: **7/1/2022** to **8/1/2022**

(click a column heading to sort)

PWS Name	Facility Name	Sample Location Description	Sample ID	Collection Date/Time	PFOS ug /L	PFOA ug /L	PFBS ug /L	PFBA ug /L	PFHxS ug /L	PFHxA ug /L	HRI	C
fastings	TREATMENT PLANT #1	Treatment Plant	22G1723-06	7/25/2022 10:15:00 AM	.00089	.013	.0026	.29	.0028	.0084	0.60	0
fastings	Well #3	Well 3	22G1723-07	7/25/2022 10:25:00 AM	.0011	.011	.0023	.3	.0029	.0074	0.55	0
fastings	Well #4	Well 4	22G1723-03	7/25/2022 10:00:00 AM	.00024	.0026	.00063	.2	.00082	.0027	0.16	0.
fastings	Well #5	Well 5	22G1723-05	7/25/2022 10:10:00 AM	.00095	.013	.0026	.28	.0026	.008	0.60	0
fastings	Well #6	Well 6	22G1723-02	7/25/2022 9:50:00 AM	.00087	.0052	.00099	.14	.00089	.0025	0.27	0.
fastings	Well #7	Well 7	22G1723-08	7/25/2022 10:30:00 AM	.004	.0069	.0016	.13	.0029	.0046	0.58	0
fastings	Well #8	Well 8	22G1723-01	7/25/2022 9:40:00 AM	.0024	.02	.0017	.14	.0025	.0037	0.84	0

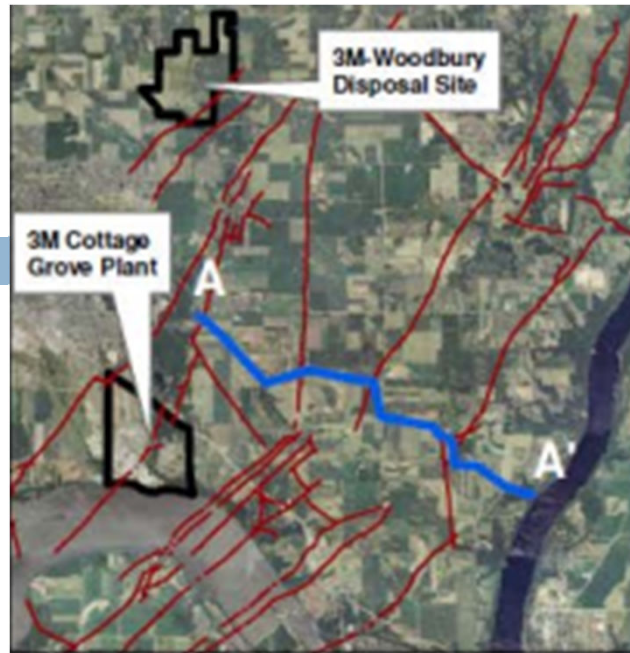
Source: MN Dep't. of Health - 8/30/2022

Need to go through the superfund process

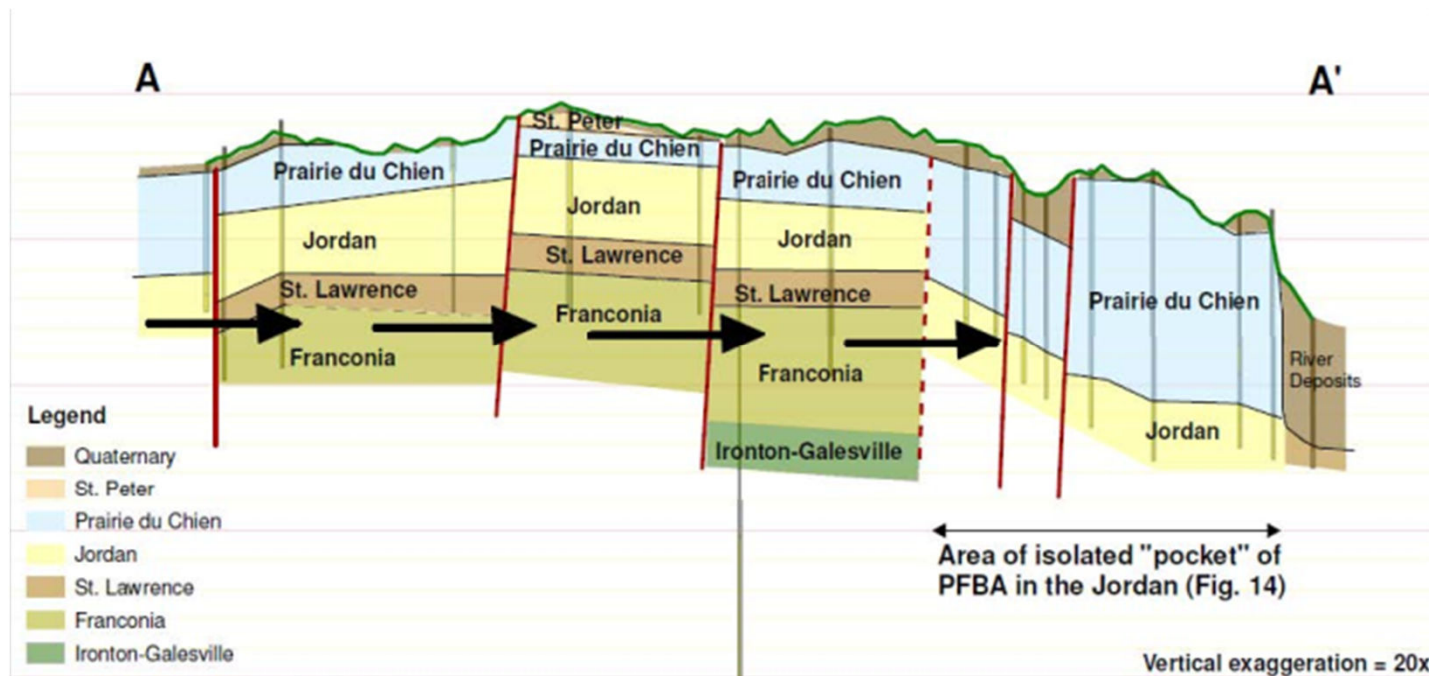


Fractures in bedrock

Direct connection
from river deposits to
Jordan



Cone of Depression
by Hastings wells



Current PFAS Health-Based Guidance

MDH Health-Based Guidance Values (HBVs) in $\mu\text{g}/\text{L}$

	2022 MDH HBVs	HRI Calculation:	
PFOS	0.015	$c\text{PFOS}/0.015$	
PFOA	0.035	$c\text{PFOA}/0.035$	
PFBS	0.1	$c\text{PFBS}/0.1$	
PFBA	7	$c\text{PFBA}/7$	
PFHxS	0.047	$c\text{PFHxS}/0.047$	
PFHxA	0.2	$c\text{PFHxA}/0.2$	
		HRI = Sum of Above	
		c = concentration in $\mu\text{g}/\text{L}$	

Expected EPA and MDH Guidance



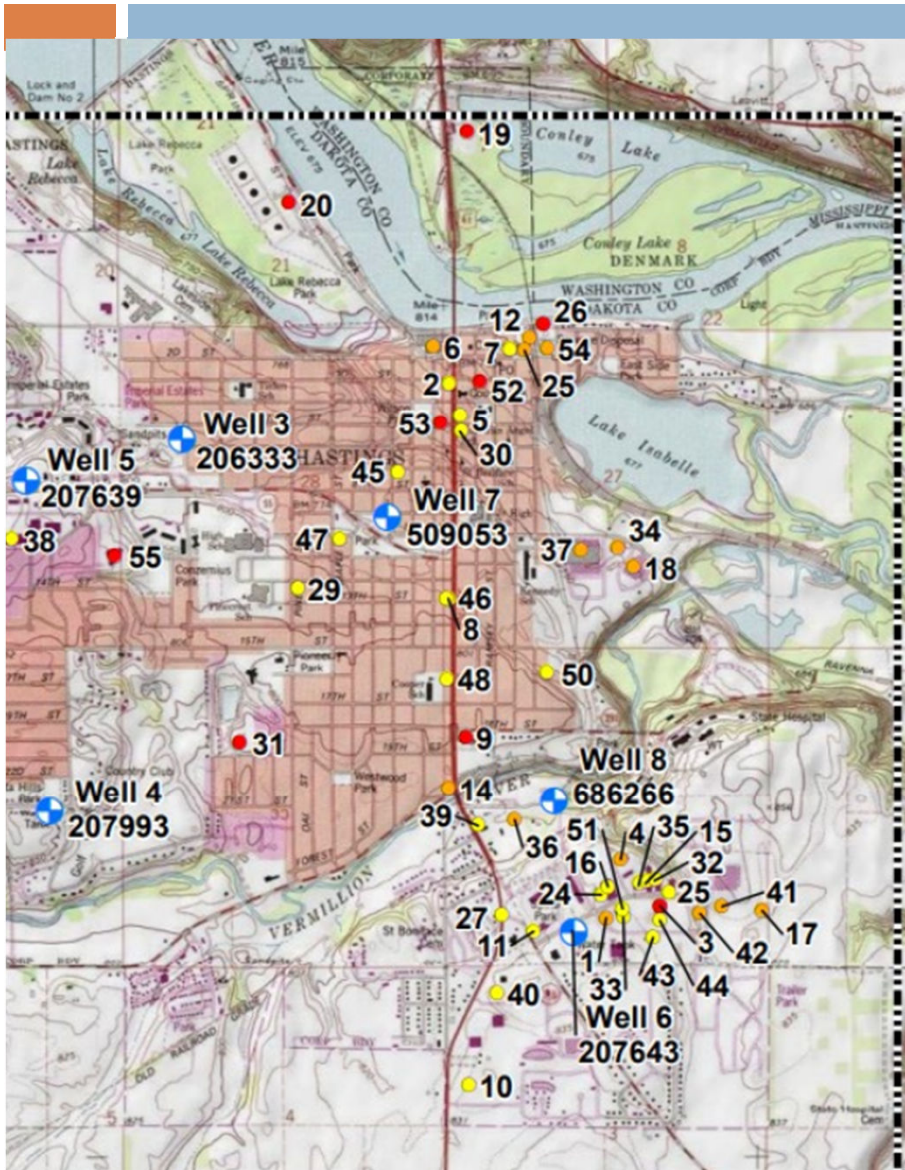
- EPA expected to lower PFOA and PFOS by March 2023
 - ▣ Draft MCLs
 - ▣ Comment Period
 - ▣ Once these are Final, the clock starts to mitigate
- MDH expected to lower guidance this spring
 - ▣ Plan to include Drinking Water Advisories (call to action)
 - Notify the Public
 - Consumer Confidence Report
 - Planning/Design
 - Construction
 - O&M

Phase 1 Environmental Assessment - MPCA



- Limited Phase 1 Completed by MPCA
 - ▣ Identified potential PFAS source locations
 - ▣ Identified many data gaps for impact of the Mississippi River
- Consider additional modeling efforts to determine pull from Mississippi
- Conduct additional groundwater investigation to delineate the PFAS plume with Pine Street Dump
- Consider Phase II investigation at other sites identified
- Regular meetings requested by City to keep momentum/progress

Phase 1 Environmental Assessment – MPCA (continued)

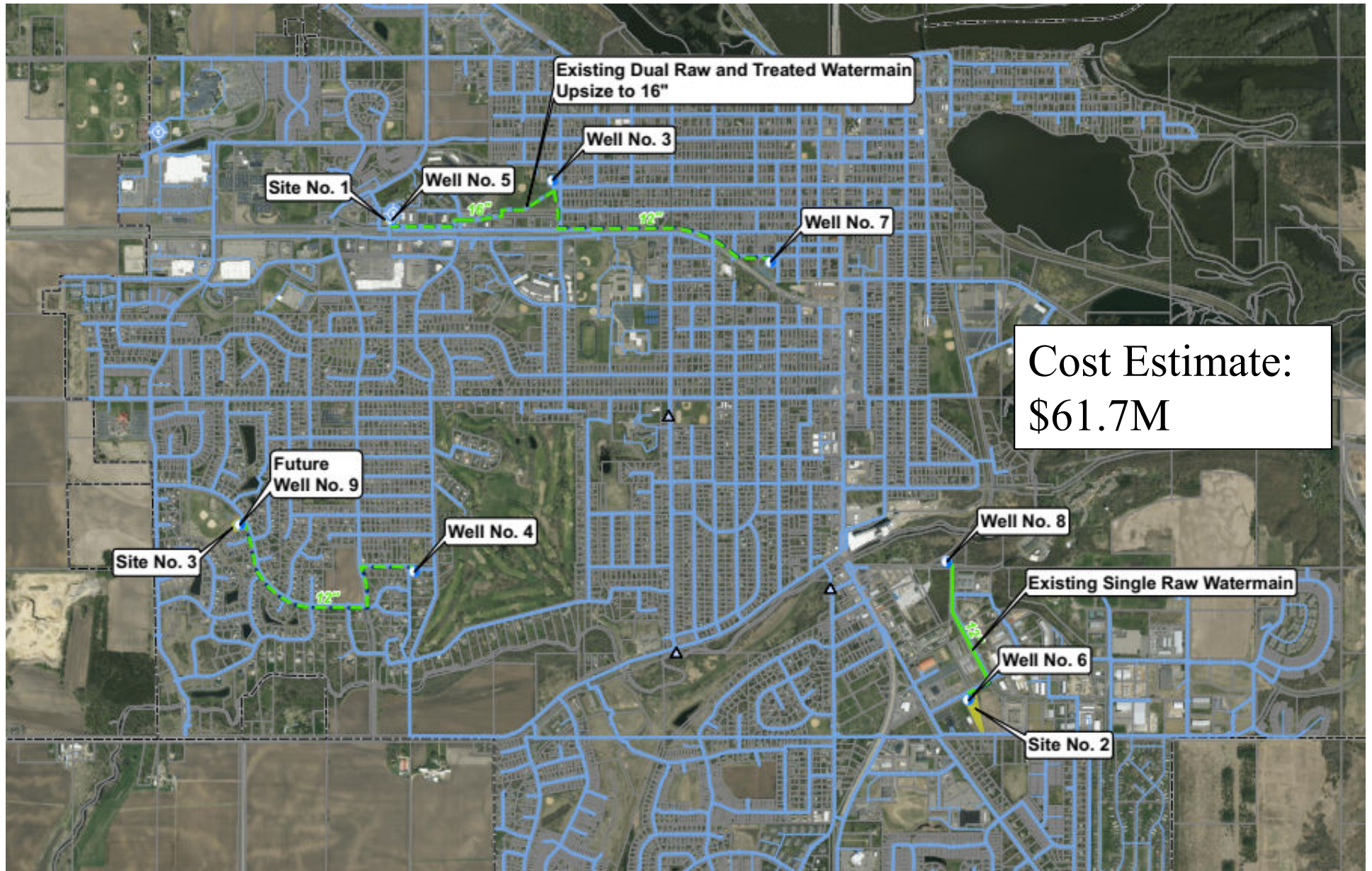


High priority PPSLs

10 high priority potential PFAS source locations (red dots on map):

3	DOWCO Valve Company/Curtis Electronics Corp/Electro-Fab Inc
9	Hastings 19th Street Dump
13	Hastings Hydroelectric Plant (LOCK & DAM #2 WTP)
19	King's Cove Marina LLC
20	Koch Refining Company - Hastings Terminal / Hastings DOD – POL Facility
26	Metropolitan Council Wastewater Treatment Facility – Hastings
31	Pine Street Dump
52	Fire Station 315 Sibley Street
53	Fire Station 115 5th Street
55	Oak Ridge Manor Apartments

Preliminary Project Scope and Cost Estimate



Communication Plan

The Six Principles of CERC Framework, Centers for Disease Control and Prevention

- 1**  **Be First:**
Crises are time-sensitive. Communicating information quickly is crucial. For members of the public, the first source of information often becomes the preferred source.
- 2**  **Be Right:**
Accuracy establishes credibility. Information can include what is known, what is not known, and what is being done to fill in the gaps.
- 3**  **Be Credible:**
Honesty and truthfulness should not be compromised during crises.
- 4**  **Express Empathy:**
Crises create harm, and the suffering should be acknowledged in words. Addressing what people are feeling, and the challenges they face, builds trust and rapport.
- 5**  **Promote Action:**
Giving people meaningful things to do calms anxiety, helps restore order, and promotes some sense of control.
- 6**  **Show Respect:**
Respectful communication is particularly important when people feel vulnerable. Respectful communication promotes cooperation and rapport.

Source: CDC 2019

CERC—Crisis and Emergency Risk Communication

Local Communication Plan



- City Council Talking Points
- Message from City Council
- Press Release
- FAQ's
- Link/Refer to MDH and CCR
- Open House with State Agencies (MDH and MPCA)

Potential Funding Sources



- Water rates – would more than double just to cover principal
 - ▣ Assumes \$60+ million for PFAS treatment
- 3M Settlement Funds
 - ▣ Must prove connection to any of the 4 disposal sites in Washington County
- \$25M in Governor’s Proposed Budget
 - ▣ Would help for planning or source investigation
 - ▣ “Buys some time”

Potential Funding Sources (continued)



- Need for telling the Hastings Story when lobbying for funds
- State Legislation
- Federal Funding
 - ▣ Community Project Funds (Federal) – applications coming soon
 - ▣ Bipartisan Infrastructure Law
- PFA conduit to state and federal funding (traditionally loans)
 - ▣ Project Priority List (PPL) applications due by May 5, 2023
 - ▣ Emerging contaminant category (possible \$3M grant)

Next Steps



- Follow through on all applicable funding options
 - ▣ Community Project Funds
 - ▣ PPL Application
 - ▣ State Planning Funds (if available)
- Move forward on Phase 2 Environmental Assessment
 - ▣ Including Connection(s) to the Mississippi River
- Continue building our response team and relationships
- Prepare our Communication Plan to be ready
- Continue to communicate and be transparent as we learn more

THANK YOU!

