

EPA: Supporting local emergency planning & response

Brad Martin

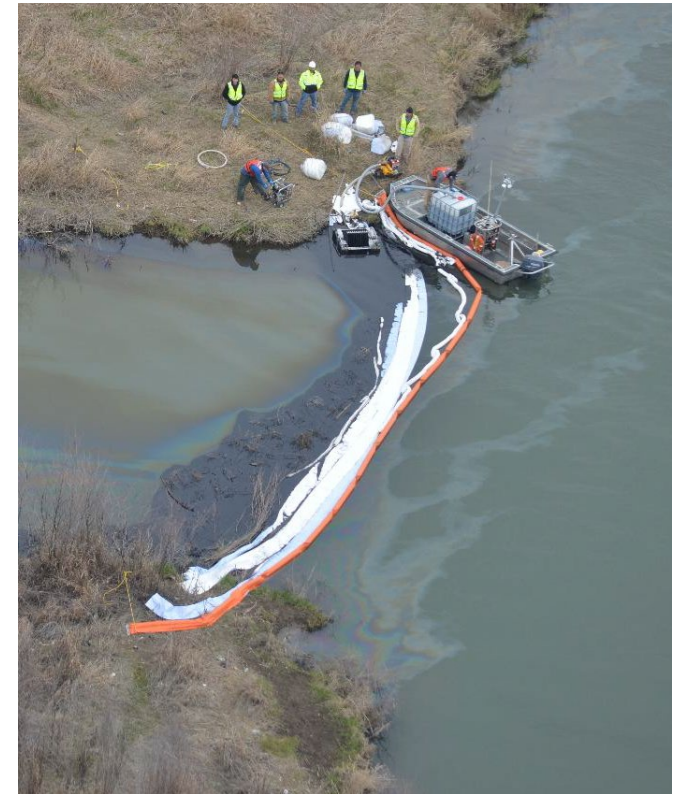
Brooks Stanfield

Federal On-Scene Coordinators



Outline:

- Basic program background
- The kind of work EPA Emergency Response carries out.
- Ways in which we work with and support tribal and emergency response partners
- Connections through planning





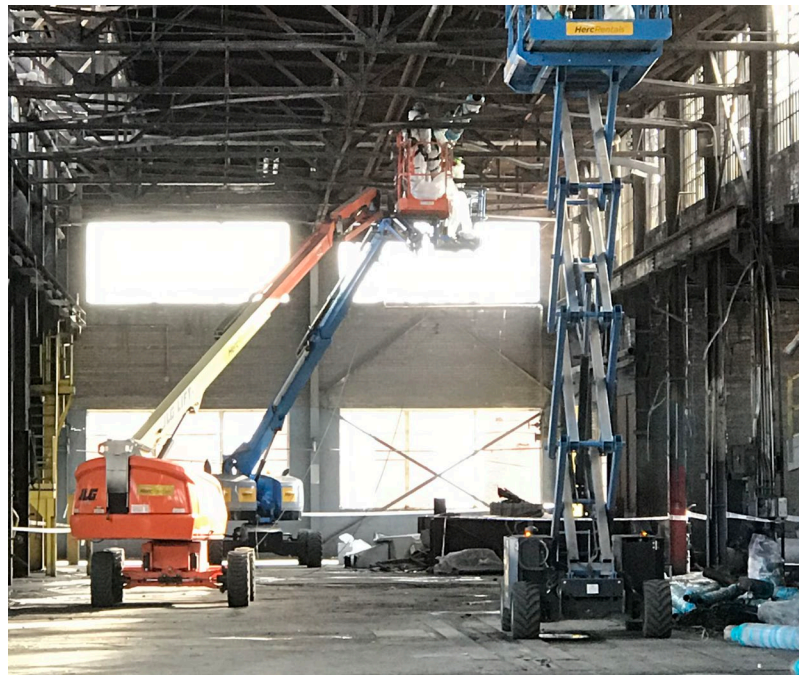
Typical site we see

- Large sustained fires
- Chemical spills/air releases
- Abandoned drums and containers
- Mercury spills
- Chemical and oil transportation
- Plating shops
- Wood treaters
- Dump Sites
- “Recyclers”
- Chemical hoarders
- Dry cleaners
- Defunct/abandoned chemical handling facilities
- Mine sites
- Residential lead cleanups
- Contaminated soil excavations
- Oil spills impacting surface water
- “Undefined”









National Hazardous Substances and Oil Pollution Contingency Plan (NCP)

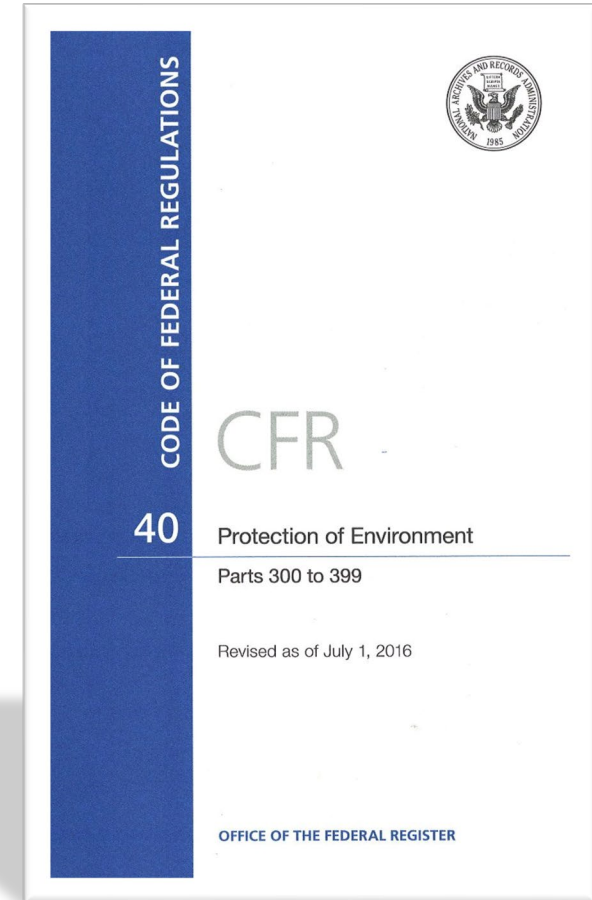
NCP established National Response System and contingency plans

Incorporates statutory authority from **Clean Water Act and Superfund (CERCLA)**

Created **Federal On-Scene Coordinators** and requires formation of **Area Committees**

Grants OSC discretion and independent decision making

OSC can direct responsible party to do work or take the lead on the work



**Any
questions
before we
proceed?**

In summary...

EPA Emergency Response can...

- Use the powerful tools under federal law and regulations to support your jurisdiction in a variety of ways for a variety of issues
- Direct responsible party to conduct work or do it ourselves
- We bring our own resources and funding
- All it takes is a call



Emergency Response: Community Air Monitoring & Data Support





Community Air Monitoring Data to assist in public health and safety advisories



Parameter		H2S (ppm)		HCN (ppm)		PM2.5 (mg/m3)	
		Average	Maximum	Average	Maximum	Average	Maximum
Air Station 02	10/25/2022	0.00	0.00	0.01	0.50	0.01	1.09
	10/26/2022	0.01	1.00	16.45	50.00	0.07	3.85
	10/27/2022	0.00	0.00	0.05	0.50	0.01	0.03
	10/28/2022	0.00	0.00	0.01	0.50	0.02	0.03
Air Station 03	10/25/2022	0.00	0.00	–	–	0.01	0.23
	10/26/2022	0.00	0.00	–	–	0.02	0.69
	10/27/2022	0.00	0.00	–	–	0.01	0.25
	10/28/2022	–	–	–	–	–	–
Air Station 04	10/25/2022	0.01	0.70	3.18	49.50	–	–
	10/26/2022	0.01	0.70	0.14	8.50	–	–
	10/27/2022	0.00	0.00	0.00	0.00	–	–
	10/28/2022	–	–	–	–	0.01	0.22
Air Station 06	10/25/2022	0.00	0.00	0.58	18.50	–	–
	10/26/2022	0.00	0.00	0.76	17.50	0.07	2.71
	10/27/2022	0.00	0.00	0.19	16.00	0.01	0.46
	10/28/2022	0.00	0.00	0.00	0.00	0.01	0.02
Air Station 07	10/25/2022	0.32	3.60	19.80	50.00	1.39	13.20
	10/26/2022	0.02	1.80	4.47	50.00	0.21	12.20
	10/27/2022	0.01	0.90	3.03	48.00	0.01	0.10
	10/28/2022	0.07	1.10	7.20	47.00	0.00	0.03

1 ppm

AEGL-1 concentration above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.

2.5 ppm

AEGL-2 concentration above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.

6.6 ppm

AEGL-3 concentration above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.





R10 Community Air Monitoring Dashboard

Incident: Kodiak Enterprise Fire Response



Roving Locations

- ▲ AS01
- ▲ AS02
- ▲ AS04
- ▲ AS05
- ▲ AS06
- ▲ AS07
- ▲ AS08
- ▲ AS09
- ▲ AS10
- ▲ AS11
- ▲ AS12
- ▲ AS13
- ▲ AS14

Particulate Readings

- 310 ug/m3
- 257 ug/m3
- 188 ug/m3
- 163 ug/m3
- 107 ug/m3
- 42 ug/m3

PM10 PM2.5

PM10 Average

121.2

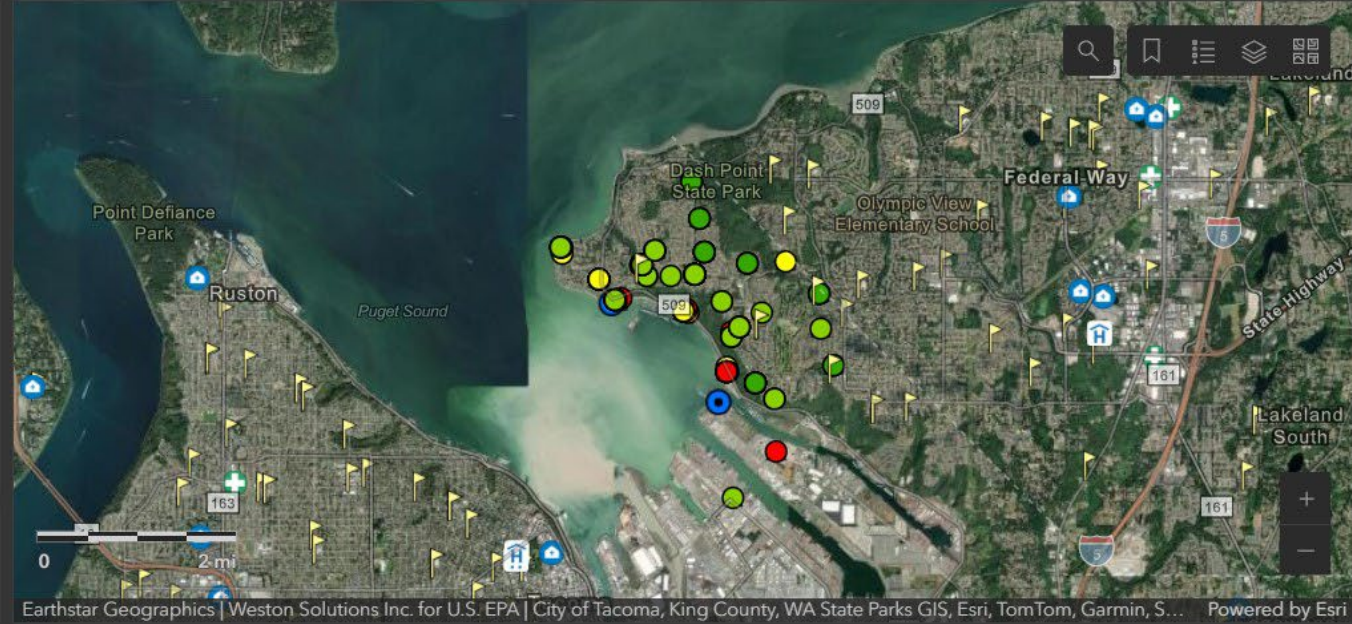
9 readings

◀ PM10 Average ▶

VOC Readings

No VOC Readings in the map extent

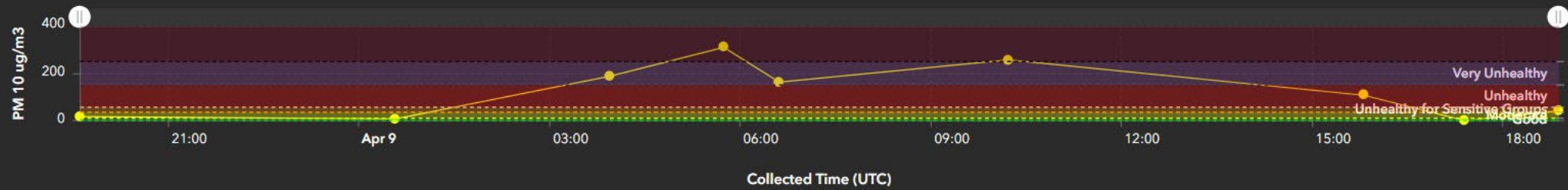
No VOC Readings in the Map Extent



Earthstar Geographics | Weston Solutions Inc. for U.S. EPA | City of Tacoma, King County, WA State Parks GIS, Esri, TomTom, Garmin, S... Powered by Esri

Fixed Locations

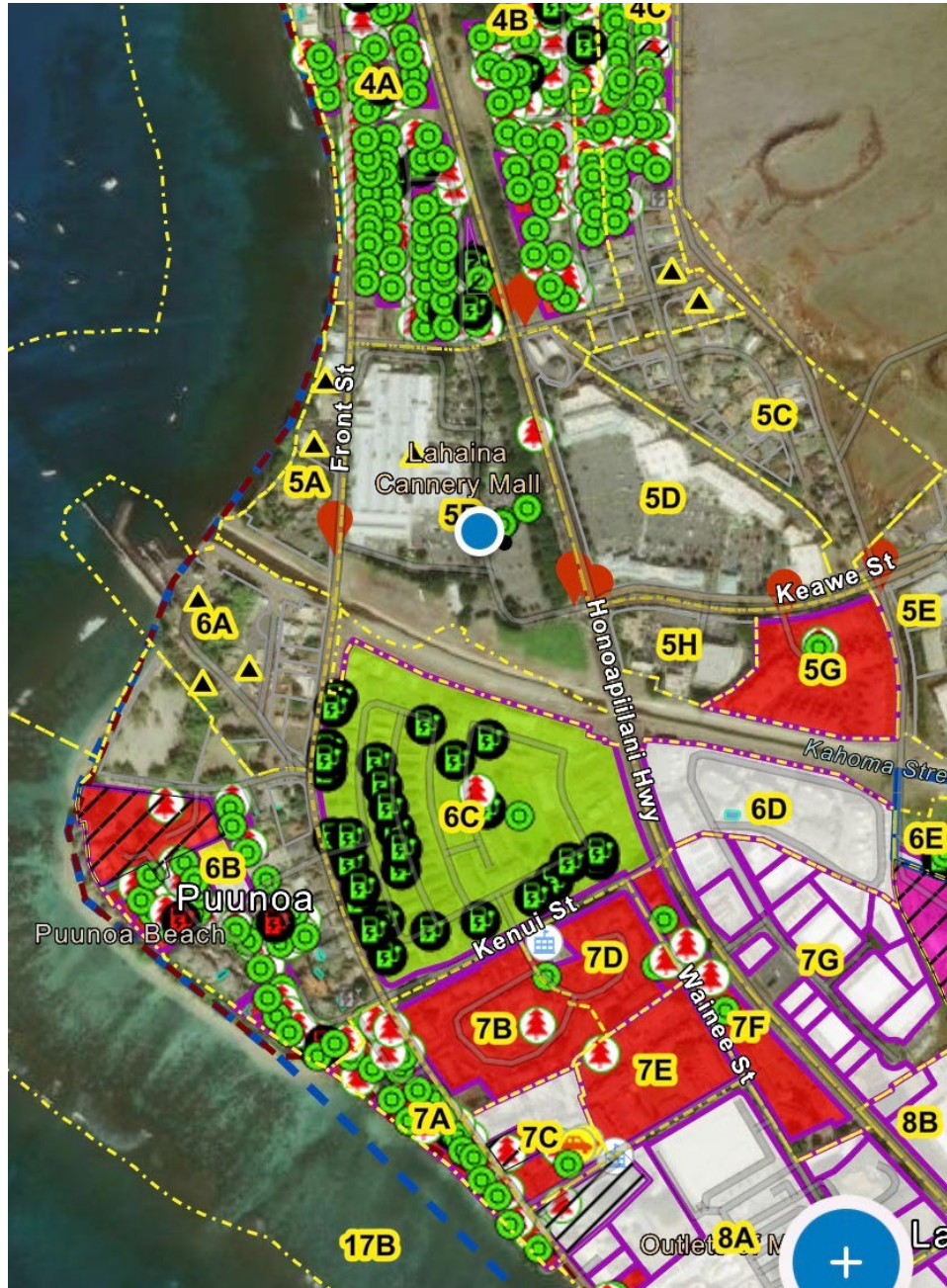
- AS03



Particulate Chart

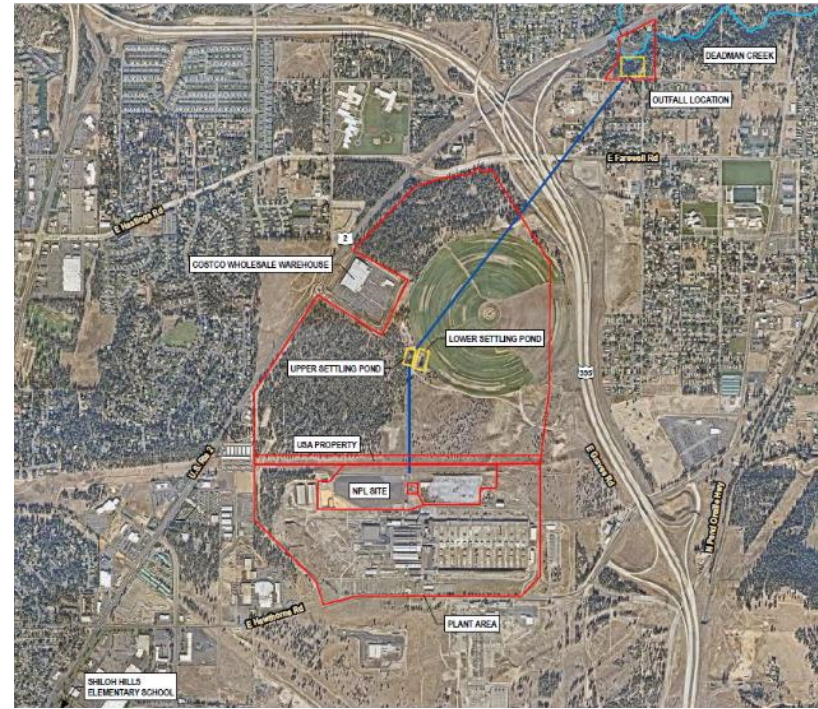
Multigas Chart

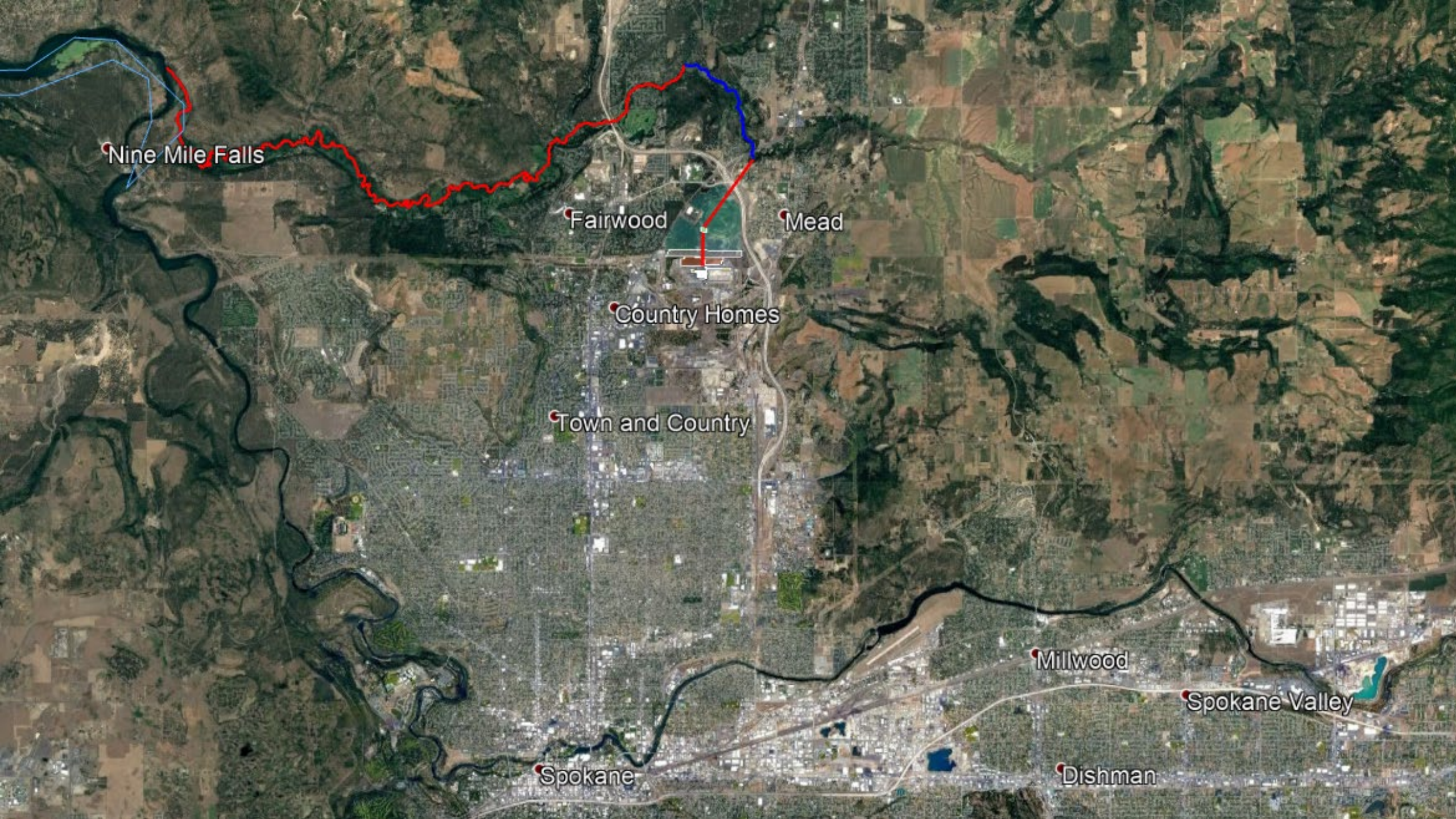




FEMA Response: Lahaina Wildfires 2023

Time Critical Removal: Kaiser Aluminum Smelter 2020





Nine Mile Falls

Fairwood

Mead

Country Homes

Town and Country

Spokane

Millwood

Dishman

Spokane Valley





Toxics at Kaiser...



FORMER KAISER ALUMINUM SMELTER REMOVAL

8,200
pounds

of PCBs were removed from contaminated building siding and settling ponds over the course of the project.

The volume of water that could have been contaminated by the recovered PCBs is equal to...*



6
quadrillion

gallons of water.



8,111
times

=

the volume of Lake Coeur d'Alene.



=

21%

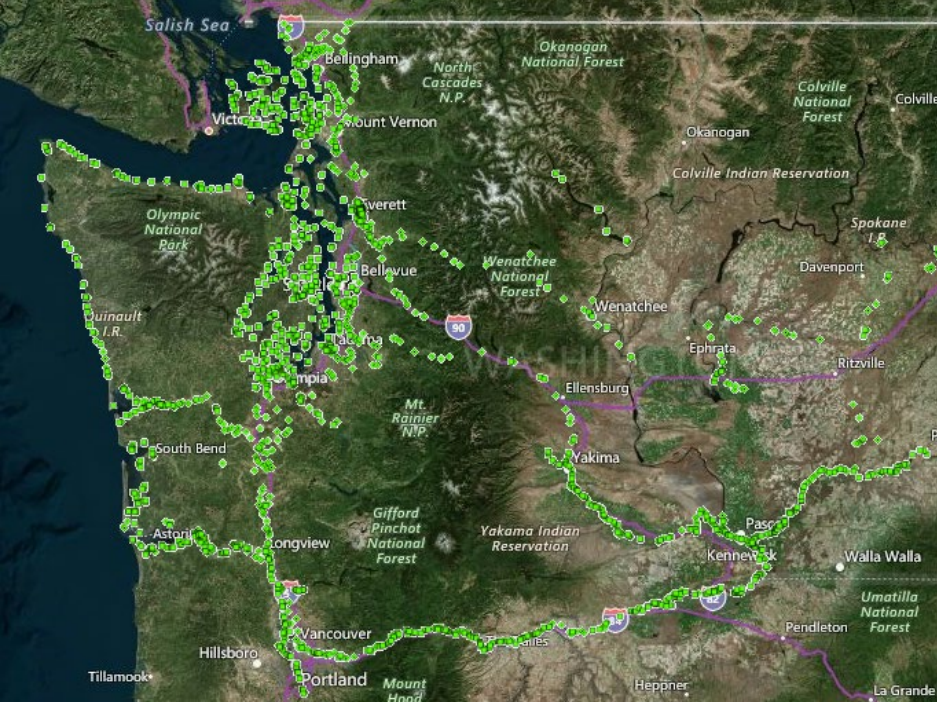
of the planet's fresh water.





Undisclosed Site

- Potentially failing business
- 16.M gallons chemicals/oil
- Early intervention opportunity



Connections through Planning

- Northwest Area Contingency Plan/RRT
- Geographic Response Plans
- Industry Drills & Exercises
- LEPC & TEPC engagement –meetings, local drills/exercise
- Trainings for responders



Cost Reimbursement

- **Hazardous Substances**

- Up to \$25,000 per incident through EPA
- County/City government only

- **Oil Spills**

- Multiple options through US Coast Guard National Pollution Fund Center



How to reach us

- EPA Region 10 24-hour Duty Officer: **206-553-1263**



- National Response Center: **800-424-8802**



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