March 19, 2022

HURON RIVER WATERSHED COUNCIL

Chemistry & Flow Monitoring Virtual Volunteer Orientation

Orientation Overview

- Program Overview
- Procedures & Logistics
- Introduction to Survey123
- Illicit Discharge Identification
- Sign Up & Scheduling

Testing the Waters of The Huron River
1:27 / 5:59
Scroll for details

What are you most looking forward to about monitoring?

Program Overview

WHY do we monitor?

WHAT do we monitor for?

WHERE do we monitor?

WHEN do we monitor?

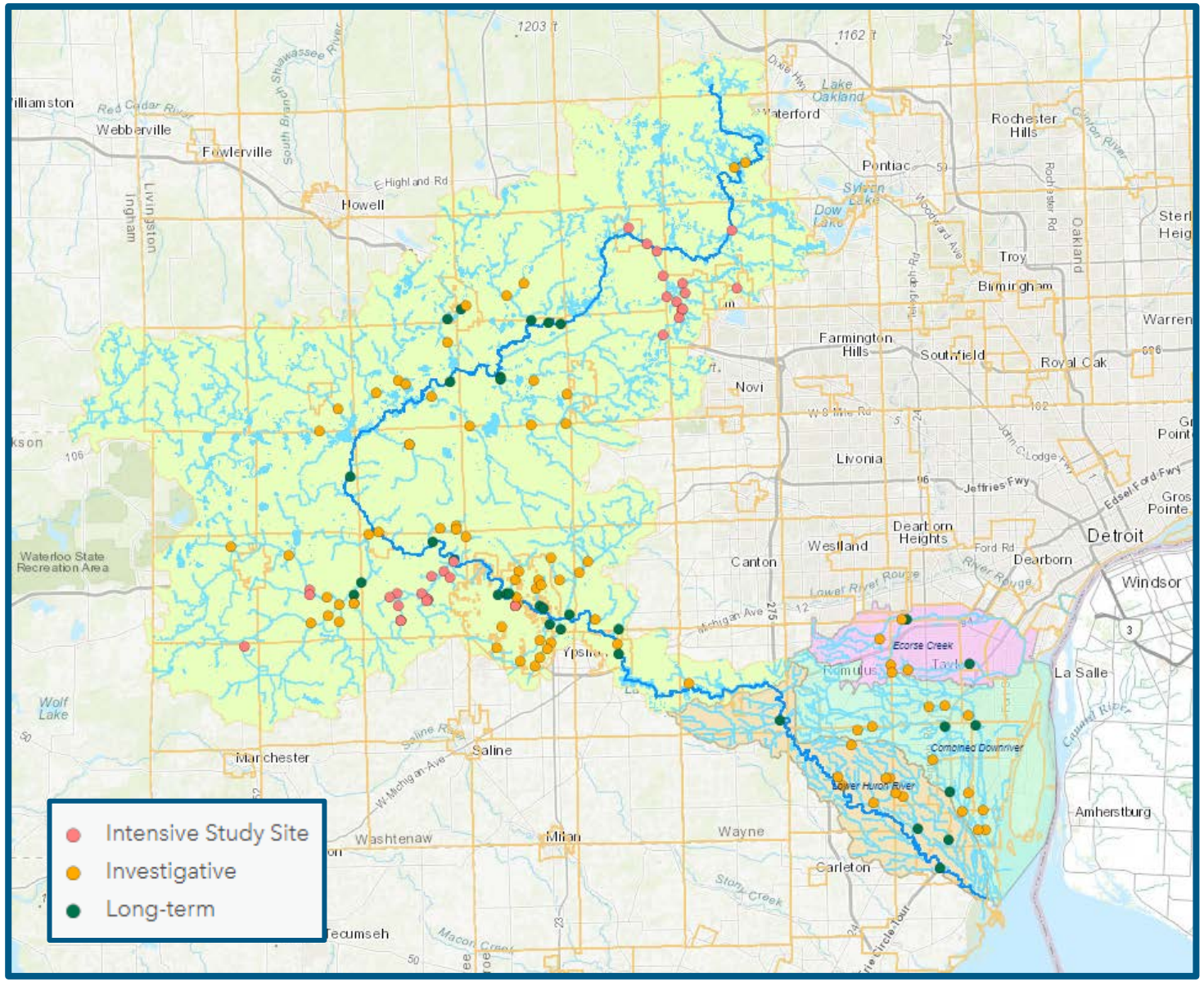
WHY do we monitor?

- Collect high quality scientific data
- Track the status and trends of impairments
- Inform local projects and policies
- Find hot spots, pollutant sources
- Satisfy permit requirements for local municipalities
- Engender stewardship

WHAT do we monitor for?

- Water Chemistry – Lab
  - Phosphorus (TP)
  - Sediments (TSS)
  - Bacteria (E. coli)
  - Chloride
  - Nitrogen (NO2-NO3)
- Field Chemistry
  - pH
  - Temperature
  - Oxygen (DO)
  - Conductivity
  - Total Dissolved Solids (TDS)
- Stream Flow (Discharge)

WHERE do we monitor?



WHEN do we monitor?

April through September

	WASHTENAW	WAYNE
WEEK A	2x Weekdays 1x Weekends	
WEEK B		2x Weekdays

WHEN do we monitor?

WEEK A

WASHTENAW

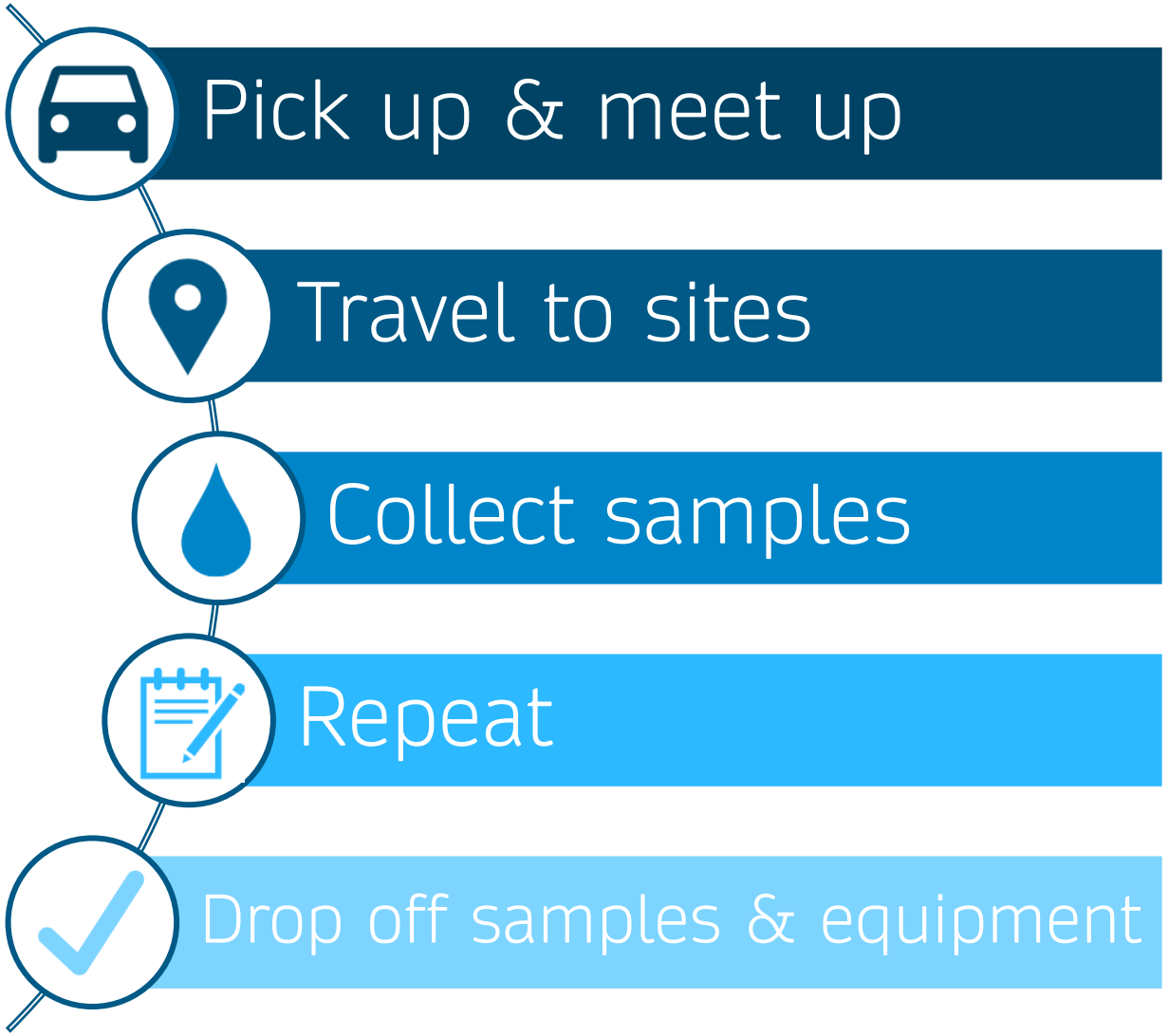
Duration: 2-3 hours
4-5 sites

WEEK B

WAYNE

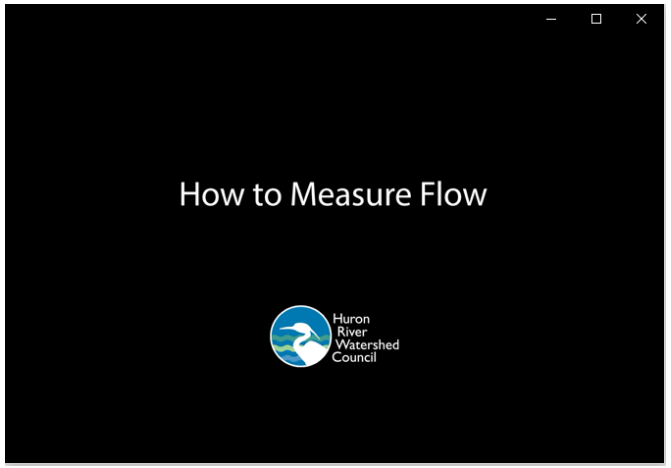
Duration: 3-4 hours
5-6 sites

Outing Logistics



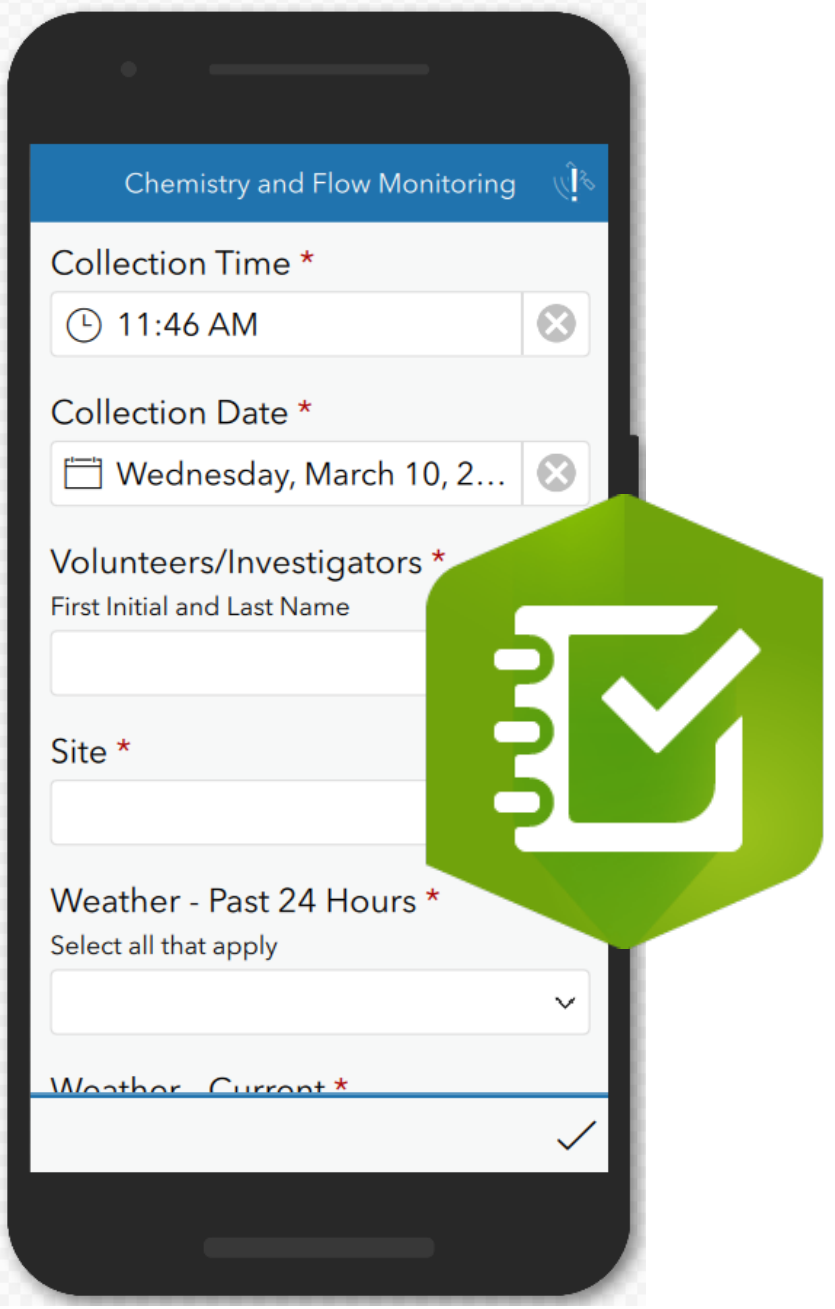
Field Methods Training

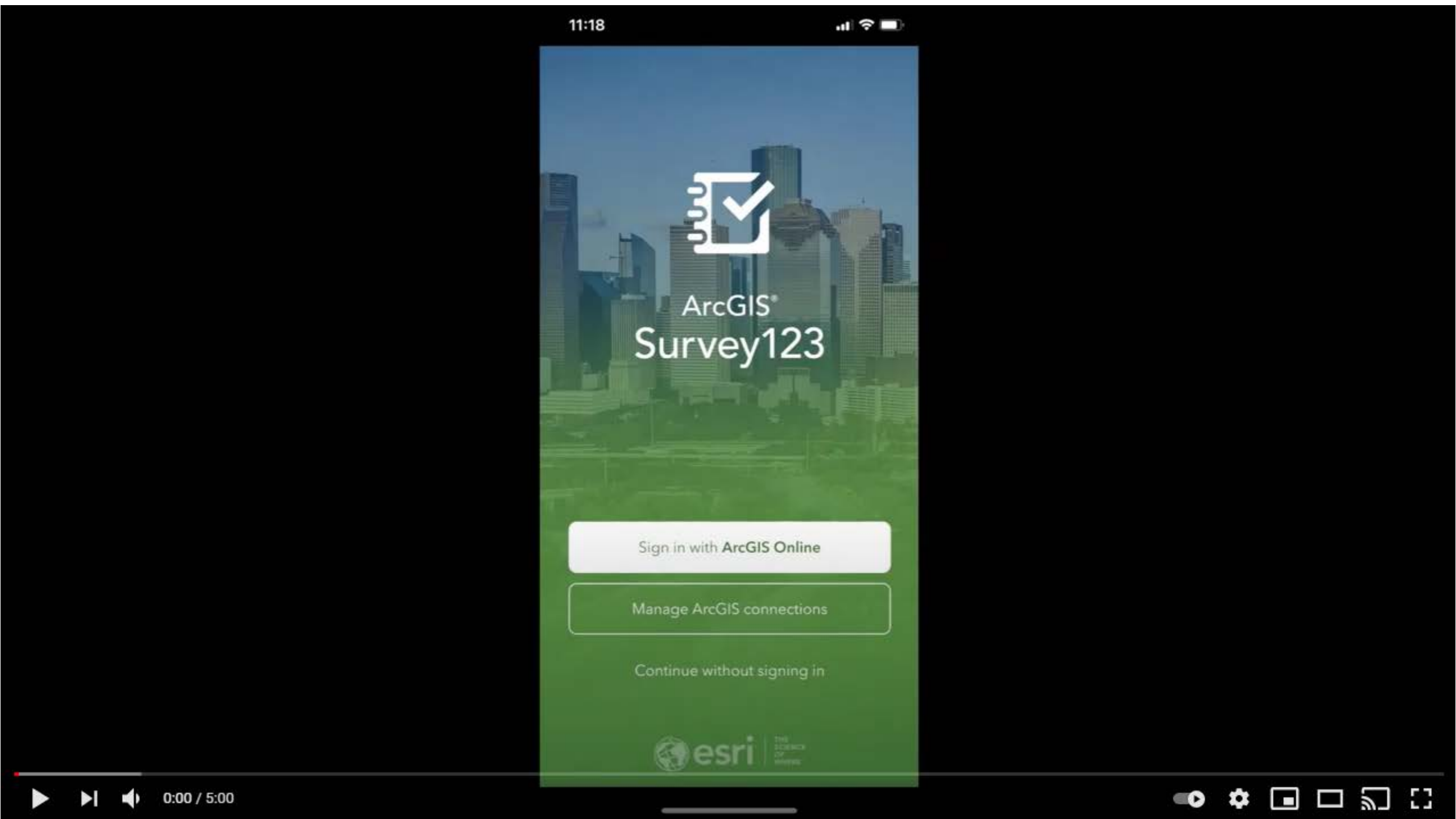
- Field methods covered during first outing
- Led by return volunteer or HRWC staff
- Training videos available on HRWC's YouTube channel: www.youtube.com/HuronRiverWC
- Please watch prior to first outing
- Videos cover methods for:
  - Flow monitoring
  - Sample collection
  - Using water quality meters
  - Reading staff gauges



Survey123

- Mobile app used to collect field data
- Please download Survey123 app before your first outing
- Complete one form per site
- Contact Andrea with questions and feedback

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ArcGIS®
Survey123
Sign in with ArcGIS Online
Manage ArcGIS connections
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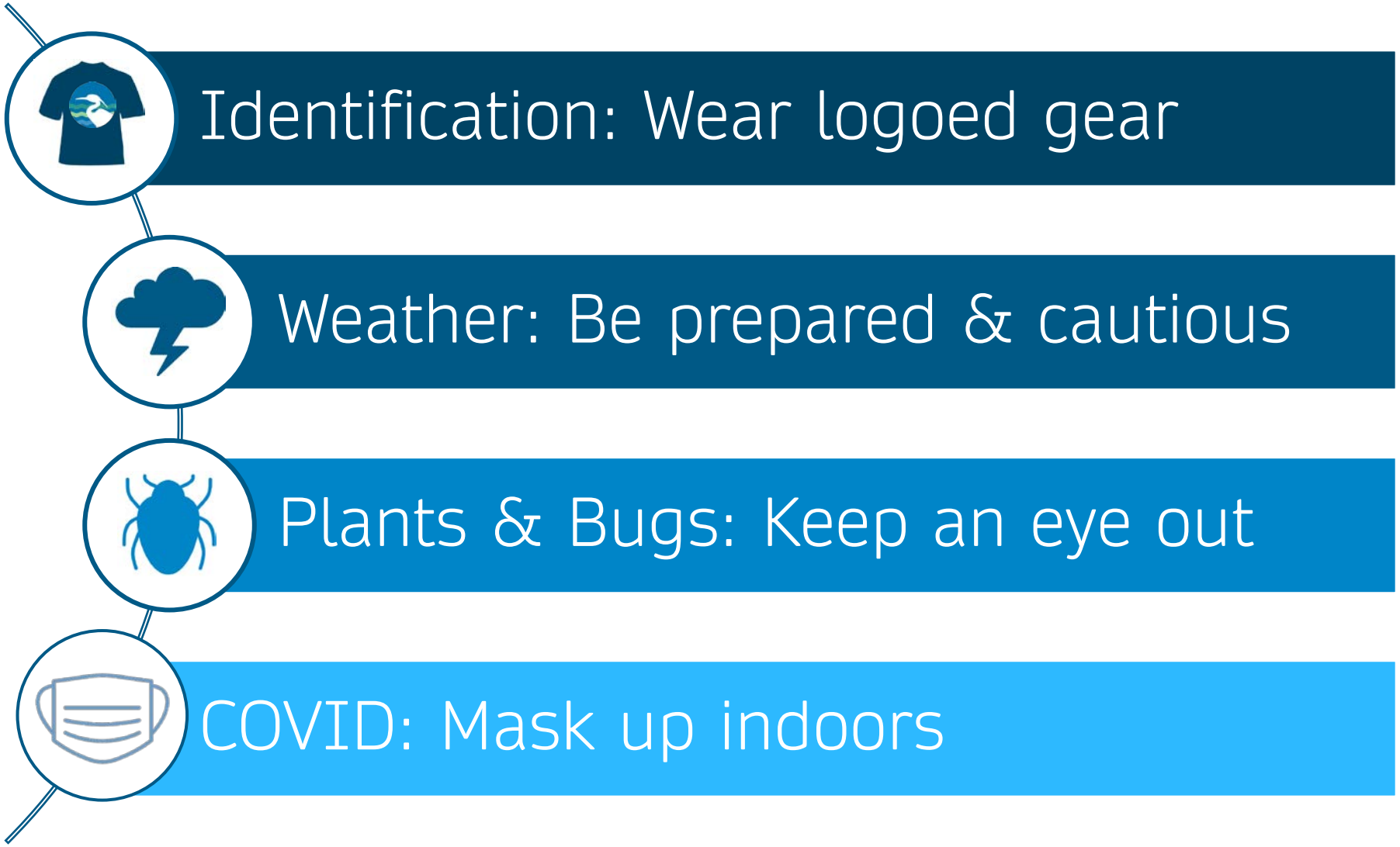
Field Safety



Keep Your Eyes & Ears Open!

- Evaluate and assess the area
- Be alert and watch for threats to our watershed
- When you are in the field you are our “eyes and ears”

Bank Observations

- Exposed fill
- Construction
- Erosion
- Muddy discharge from outfalls/pipes
- Coatings on streambank
- No silt fences

Sewage Discharge and Failed Septics

- Grey/black, turbid water
- Staining on shore
- Rotten egg odor
- Oil and paper residue
- Overgrown or wet patch of grass
- Soap suds

Illegal Discharge

- Oily sheen that cannot be broken apart
- Strong odor of gasoline or chemicals
- Turbid, discolored water

Natural Occurrences

Tanin

Iron bacteria slime & sheen

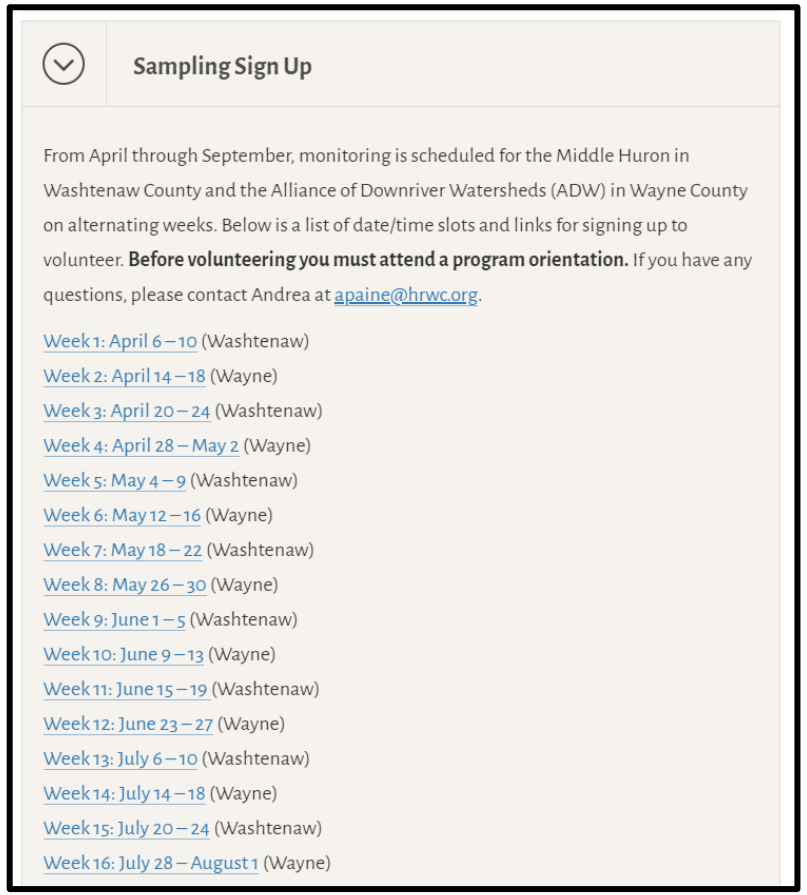
Some foams

What to Do

- If you find anything of suspect, take photos, note the time, location, and observations on datasheet in Survey123.
- Notify HRWC staff ASAP
- If you can, try to find pollutant source

Sign Up & Scheduling

- Sign up links will be available at : www.hrwc.org/chemflowvolunteerresources
- **Commitment**: At least 4-6 outings during the monitoring season



Sampling Sign Up

From April through September, monitoring is scheduled for the Middle Huron in Washtenaw County and the Alliance of Downriver Watersheds (ADW) in Wayne County on alternating weeks. Below is a list of date/time slots and links for signing up to volunteer. **Before volunteering you must attend a program orientation.** If you have any questions, please contact Andrea at apaine@hrwc.org.

Week 1: April 6 – 10 (Washtenaw)
Week 2: April 14 – 18 (Wayne)
Week 3: April 20 – 24 (Washtenaw)
Week 4: April 28 – May 2 (Wayne)
Week 5: May 4 – 9 (Washtenaw)
Week 6: May 12 – 16 (Wayne)
Week 7: May 18 – 22 (Washtenaw)
Week 8: May 26 – 30 (Wayne)
Week 9: June 1 – 5 (Washtenaw)
Week 10: June 9 – 13 (Wayne)
Week 11: June 15 – 19 (Washtenaw)
Week 12: June 23 – 27 (Wayne)
Week 13: July 6 – 10 (Washtenaw)
Week 14: July 14 – 18 (Wayne)
Week 15: July 20 – 24 (Washtenaw)
Week 16: July 28 – August 1 (Wayne)

Huron River Watershed Council

Chemistry and Flow Monitoring

Sampling Week 01 - Middle Huron - Washtenaw County

Created by: Andrea Paine

Date (mm/dd/yyyy)	Time (EDT)	Available Slot	Calendar View
04/06/2019 (Sat.)	11:00am	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up
	3:00pm	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up
04/07/2019 (Sun.)	10:00am	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up
04/08/2019 (Mon.)	5:30pm	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up
04/09/2019 (Tue.)	1:30pm	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up
	5:30pm	Volunteers (4) If you are a leader, write "Leader" in the comments field.	Sign Up

Submit and Sign Up

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THANK YOU!

Questions?

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Huron River Watershed Council