

# Water Quality Sampling

# Water Chemistry Analysis

- pH
- ANC
- Sulfate
- Nitrate
- Nitrite
- Ammonia
- Total nitrogen
- Total phosphorous
- Orthophosphate
- Chloride
- Conductivity
- DOC

# Prior to Sampling

- Bottles/syringes are labeled with site identification, date/time collected, and the names of samplers
  - Make sure numbers on bottles and field sheets match
- Labels covered with transparent packaging tape

MBSS Site: WIRH-102-B-2016

Date: 3/1/2016

Sampler: Smith

Time: 9:15

# Field Sheets

- Make sure numbers on bottles and field sheets match
- Duplicates and blanks are also labeled

OTHER (SPECIFY) _____											
<b>SAMPLE LABELS</b>											
Verified by: <u>JDS</u>											
<b>QC LABEL</b>											
<b>Watershed Code</b>				<b>Segment</b>			<b>Type</b>		<b>Year</b>		
W	I	R	H	A	J	B	B	2	0	1	6
				(Letters only)							
Dup. (D) or Blank (B): <span style="border: 1px solid black; padding: 2px;">D</span>							Verified by: <u>JDS</u>				

# Sampling Collection

- Be sure to...
  - Triple rinse with stream water
  - Collect upstream from disturbed waters
  - Collect from middle of water column
  - Minimize air in sample
    - Syringes are filled to final volume of 55 mL after all air has been evacuated
    - Completely submerge bottles if possible
  - Keep samples on ice

# Sample Storage and Shipment

- Samples are stored at 4° C until shipped
- Samples are packed to avoid damage/leakage during transport (e.g. syringes are placed in plastic containers, bubble wrap, etc.)
- Chain of custody forms are completed and verified
- Samples are processed (filtered and fixed) within 48 hours of collection

# Packing Syringes

- Verify sample
  - Volume  $\geq 55\text{mL}$
  - No air bubbles
  - Lock closed
- Place in separate container
- Protect plunger and lock with bubble wrap
- Tape container shut



# For Carrier Shipping

NO carrier (UPS, FedEx, DHL, USPS) accepts leaky containers.

1. Place samples and ice or ice substitute in large trash bag inside cooler.
2. Seal bag.
3. Place paperwork in zip-top bag on top of sample bag.
4. Tape (clear packaging, not duct) cooler shut.
5. Affix shipping label.
6. Notify your lab of shipment.

