

**Name(s):**

**Date:**

**Stream Site Name / Number:**

## What Does Your Fall Data Say About Your Stream?

Now that you've wrapped up your fall sampling, it's time to step back and look at what your data is telling you about your stream. Use this worksheet to think about how your measurements, site conditions, and macroinvertebrates connect to stream health.

Directions: Answer each question in complete sentences. Use the "Think About" prompts to add detail.

### 1. What did you find in your water chemistry data?

Think about:

- What were your main measurements for each parameter?
- Did any values stand out as higher or lower than you expected?

**Your Response:**

### 2. What site conditions or things did you notice might help explain your results?

Think about:

- Recent rainfall, flow, turbidity
- Weather, land use, or equipment issues

**Your Response:**

**3. Which water chemistry parameters might be related, and how?**

Think about:

- Did a change in one parameter seem connected to another?
- What’s your evidence for that connection?

**Your Response:**

**4. Based on your water chemistry data, what claim can you make about water quality?**

**Claim-Evidence-Reasoning Reminder:**

Your *Claim* says what you think is true.

Your *Evidence* is your data.

Your *Reasoning* explains how the evidence supports the claim.

<b>Claim:</b>	
<b>Evidence:</b>	
<b>Reasoning:</b>	

**5. What do your *E. coli* results tell you about your stream’s water quality right now?**

Think about:

- How does it compare to safe recreation standards?
- What might explain this result?

**Your Response:**

**6. Which strategies worked best for collecting macroinvertebrates at your site?**

Think about:

- How did you collect bugs, and which techniques worked well or didn't?
- Which habitats gave you the most and/or least bugs?

**Your Response:**

**7. How did you identify the macroinvertebrates you collected?**

Think about:

- PocketMacros, field guide, or other tools you used.

**Your Response:**

**8. What did you find when collecting macroinvertebrates at your site?**

Think about:

- How many macroinvertebrates did you find, and which types were most common?
- Were they mostly pollution sensitive, tolerant, or a mix?

**Your Response:**

**9. What do your three most abundant macroinvertebrates tell you about water quality?**

Macroinvertebrate	What does this tell you about water quality?
1)	
2)	
3)	

*Example: Aquatic sowbugs are somewhat tolerant of pollution and organic waste. A lot of sowbugs may suggest the stream could be polluted.*

**10. Based on your macroinvertebrate data, what claim can you make about your stream's water quality?**

Fill in your **Claim-Evidence-Reasoning**:

<b>Claim:</b>	
<b>Evidence:</b>	
<b>Reasoning:</b>	

**11. Thinking ahead to your spring sampling, what patterns will you look for next? What will you do the same or differently?**

**Your Response:**