

## WaterViz Investigation 2 Facilitator Guide

1. Review the water cycle component changes observed during the 2018 rain event including trends and connections between different water cycle components.

|                           |   |
|---------------------------|---|
| Temperature               | Went up during the day and down at night; daily cycle                                   |
| Precipitation             | None for the first 4 days, then lots of rain on days 5-10, then rain slowed and stopped |
| Streamflow                | Low, increased when raining, gradually went back down                                   |
| Evaporation/Transpiration | Up and down on a daily cycle; lower during rain storms                                  |
| Soil Water                | Dry, increased when it rained, started drying out when rain stopped                     |

2. In this investigation, data for **the same rain event** will be presented using animated art and water sounds. Read the WaterViz Artwork Image Description aloud.
3. Play the WaterViz Water Sounds video. What changes did you see and/or hear?
4. Using their knowledge of the water cycle components, scientists complete the Investigation 2 Worksheet by matching each water cycle component to the animated art image description.

**Activity Directions:** Match each water cycle component to the WaterViz animated art description in the table below.

| <b>WaterViz Animated Art</b>            | <b>Water Cycle Component</b> |
|---|------------------------------|
| Particles move from top to bottom       | Precipitation                |
| Mist rises up from surfaces             | Evaporation/Transpiration    |
| Waves move in the layer below the trees | Soil Water                   |
| Particles flow from left to right       | Streamflow                   |
| Not shown in the animated art           | Temperature                  |

5. Discussion Questions:

- a. If you found the animated art helpful in understanding the rain event, how did it help increase your understanding?
- b. If you did not find the animated art helpful, what are some ideas for how the art could be presented in a more meaningful way?