

Background

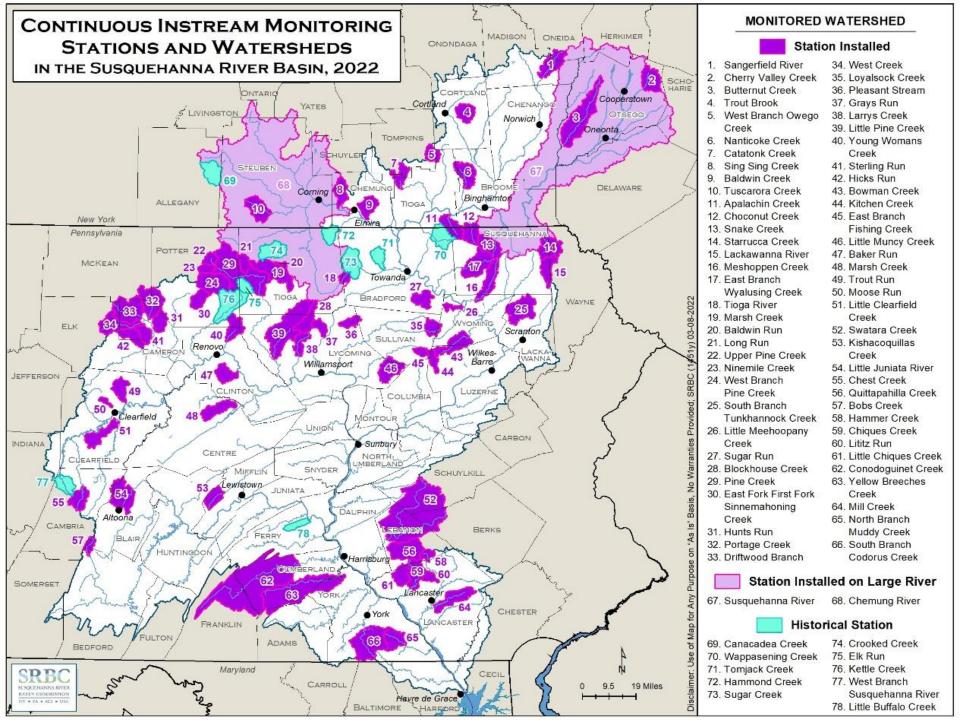
- Parameters monitored: pH, temperature, specific conductance, dissolved oxygen, and turbidity
- Data recorded at 15minute intervals
- Data are transmitted to a public website at 2-4 hours intervals
- Long-term sites with 24/7 data collection



Background

- Initiated in 2010
 - Northern PA and southern NY
 - Lower basin sites installed: 2015-2019
- Purpose:
 - Monitor impacts from unconventional natural gas extraction
 - Expanded to determine baseline conditions in unmonitored or under-monitored streams
- 78 sites have been monitored
- 68 active sites





Additional Sampling

- Nutrients, metals, cations/anions – collected quarterly/annually
- Discharge measurements
- Macroinvertebrates collected at all sites; most have 4+ samples
- Fish survey conducted at each site



Data Usage

- Downstream water suppliers treatment process, intake shutdown
- Protection of natural areas/resources
 - Natural gas extraction
 - Pipelines
 - Construction
- Impacts from road salt
- Water quality trends over time
- Climate change



CIM Story Map

CIM Story Map

