

## Water Quality Update

ANNUMB

Maggie Spangler Town Hall, November 1, 2021

1 MALA

## **Data Types**

- Discrete: grab samples
- Real-Time: Sensors that transmit data every 15 minutes



### General Water Quality

- Complete analyses to come
- High-sediment events with precipitation in tributaries
- Some changes in Three-Lakes
- Continuing to monitor changes



## **Effects Propagating into East Slope Reservoirs**

- Total Suspended Solids (TSS): Sediment in the water
- Total Phosphorus (TP): Nutrient that algae needs to grow



#### **Sediment Entering Willow Creek Reservoir During Storms**



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# Algae

- Willow Creek Reservoir Harmful algal bloom
- Public observations

### **Cyanobacteria Overview**



- Similar to algae but not algae
- Toxin and non-toxin producing
- Present in most aquatic environments
  - Three-Lakes included
- HABs occur when nutrients are high and during warm, stagnant conditions

#### Willow Creek Reservoir Cyanobacteria bloom

- July 27, 2021
- Toxins below recreation contact standard
- Following guidance from CDPHE



## No Other HABs Detected in Three Lakes



- Observing more algae in Three-Lakes than previous years
- Data confirms no toxins present

## **Cyanotoxin Monitoring Plan**

- GCWIN
- Weekly Site Visits
- Evolving program



