| | DO | Turbidity |
|----------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| What is it? | Oxygen gas trapped in water (diffusion, aeration, plants in water) | Visible particles suspended in water (silt/mud, biological) |
| How is it measured? | ·Sensor (calibration!) ·Chemicals mg/L 	> ppm | · Sensor (calibration) · Secchi disk MTU |
| Why is it important for Water quality? | Many aquatic organisms do not have lungs (they (an't breake air) they get of they water | Turbidity can interer with gill function (clogs) Turbidity can increase temperature (sunlight) Drinking, swimming, recreation is less fun |

DD and drinking water · Organisms do not get useable oxygen by drinking water Do is Some organisms have gills (or other critical organs) that can extract oxygen gas (DO)

Do is Other organisms breathe - they meaningless get oxygen directly from air DO and temperature:

· Warmer water can hold less DO

John skewles of the water

Turbidity & rainfull:

- ·Turbidity is particles in water
- · Rainfall ausses erosion (where Soil particles are carried away by Water)
- Much of the water that falls as rain ends up in streams, rivers, and lakes
- · SO: rainfall in creases turbidity

WATER QUALITY IS RELATIVE:

ideal (. Some human use (drinking water, values (recreation) for - Some other organism's use (animals, the parameter plants)
are . Some ecological function (like flooding, different/ ension, nutrient transport)

Historical conditions

| | PH | 2nd factor |
|--------------------------------|-----------|----------------------|
| ocations | torbidity | (ex. depth of creek) |
| shorty bridge to gym | | |
| fast watr above Quad | | |
| By big- Pipe by Highland | | |