



Enter the data you collect using the chemistry kits in the fields below:

You will perform this data analysis in the classroom

Parameter	Test Result	Acceptable?	Q-Value	Weighing Factor	Total
Dissolved Oxygen	___mg/L Water Temp: ___°C	Yes No		0.17	
	% sat.				
Turbidity	JTU	Yes No		0.08	
Phosphates (Orthophosphates)	mg/L	Yes No		0.10	
Nitrates	mg/L	Yes No		0.10	
Change in Temperature	___°C (above) - ___°C (below) =	Yes No		0.10	
	Δ°C				
Total Dissolved Solids	ppm	Yes No		0.07	
pH		Yes No		0.11	
Fecal Coliform	colonies/100 mL	Yes No		0.16	
BOD	___mg/L (Same day) - ___mg/L (5 day) =	Yes No		0.11	
	Δmg/L				

Overall Water Quality Index	
WQI Description	

Water Quality Index (WQI) Description	
100-90	Excellent
89-70	Good
65-50	Moderate
49-25	Bad
24-0	Very Bad

Acceptable Ranges	
Dissolved Oxygen	80-125% Saturation
Turbidity	< 10 JTU
Phosphates	< 0.306 mg/L
Nitrates	< 4.4 mg/L
Change in Temperature	< 5°C
Total Dissolved Solids	< 500 ppm
pH	6.5 - 8.5
Fecal Coliform	< 200 colonies/100mL
Biochemical Oxygen Demand	< 5 mg/L