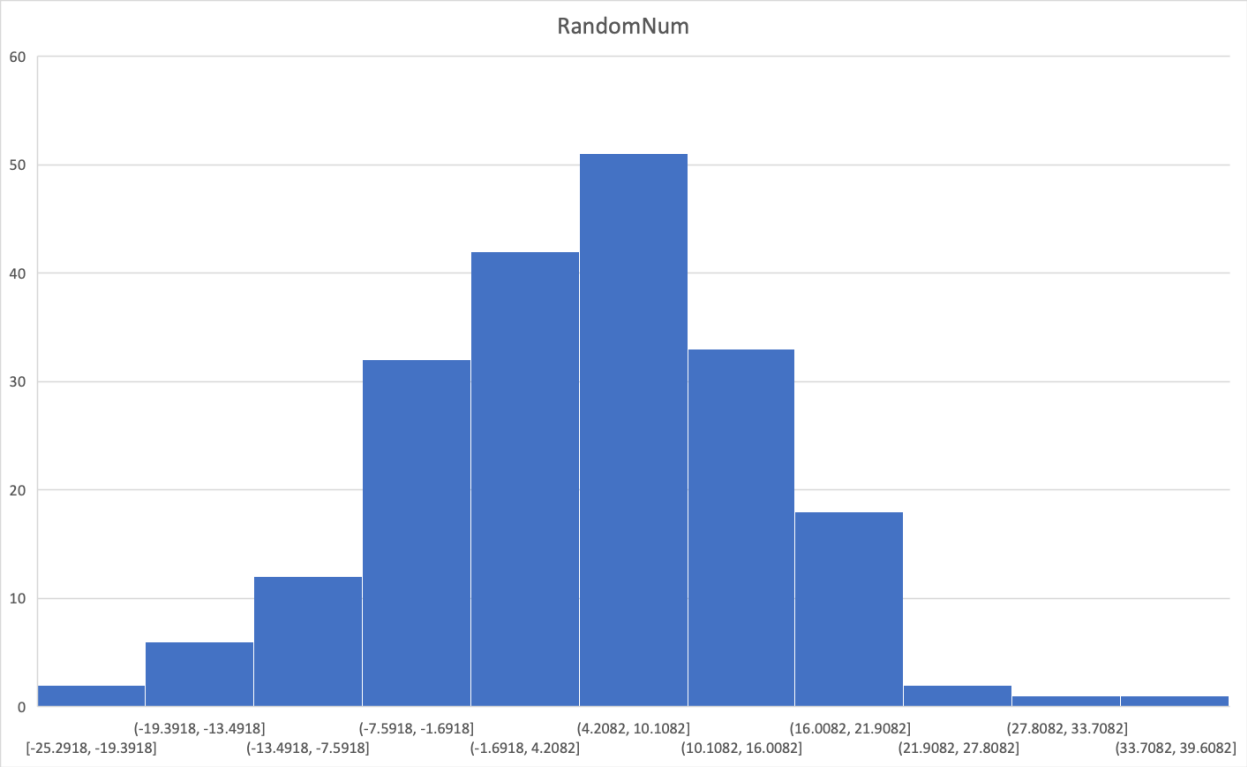
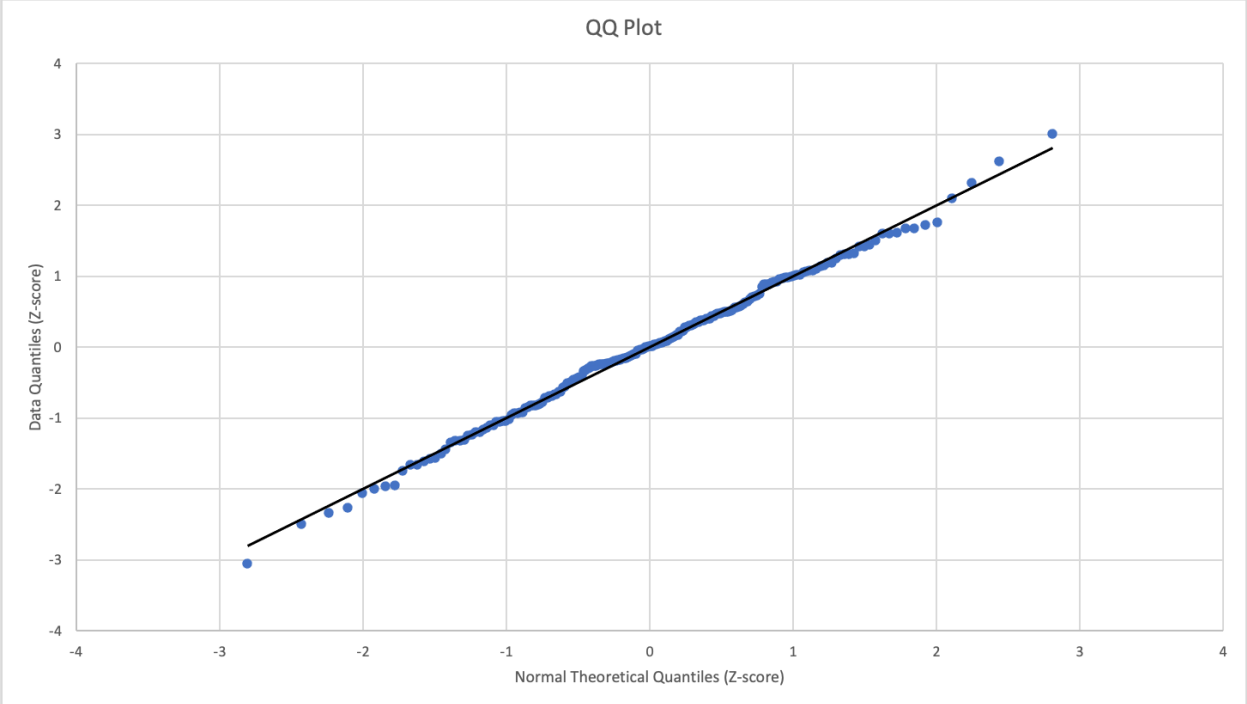
1.

(a) The histogram is roughly bell shaped but it is skewed left. There doesn't seem to be any outliers.



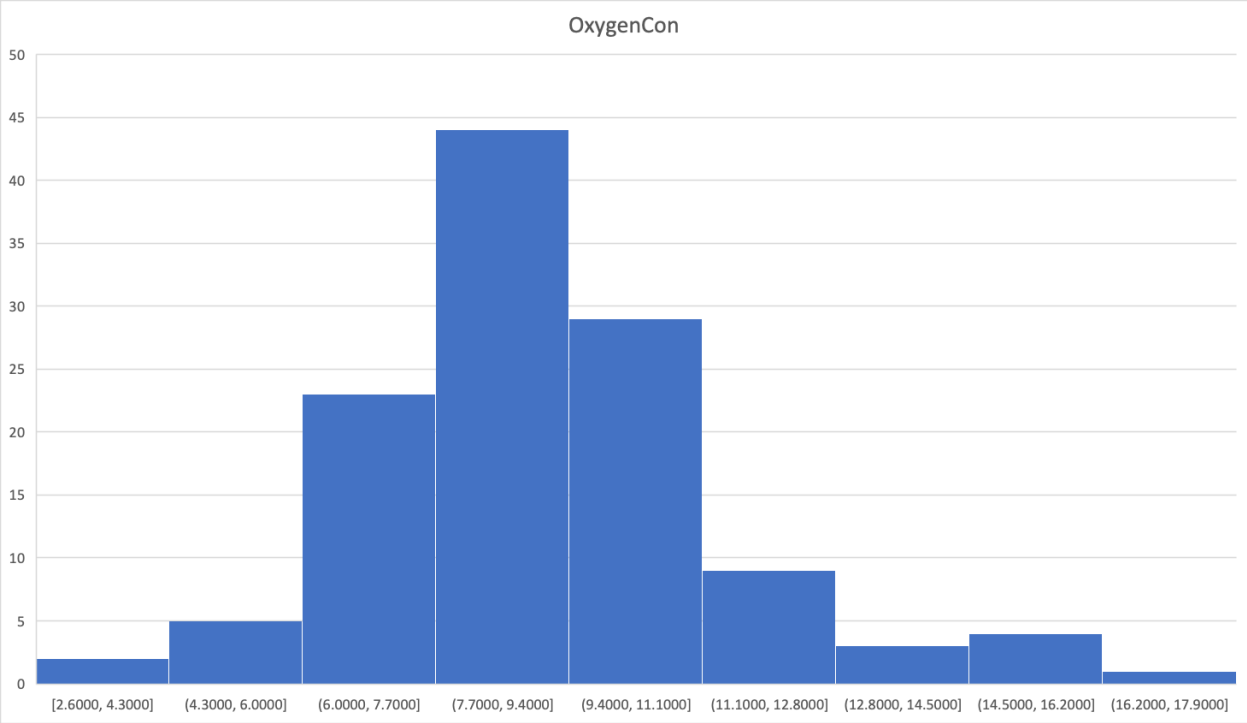
(b) Sample Mean = 4.611 observations
Sample Variance = 96.161 observations
Standard Error of Sample Mean = s /√ (n) = 0.693 observations
Standard Error of Sample Variance = √ [2/(n-1)] * (σ^2) = 9.640 observations

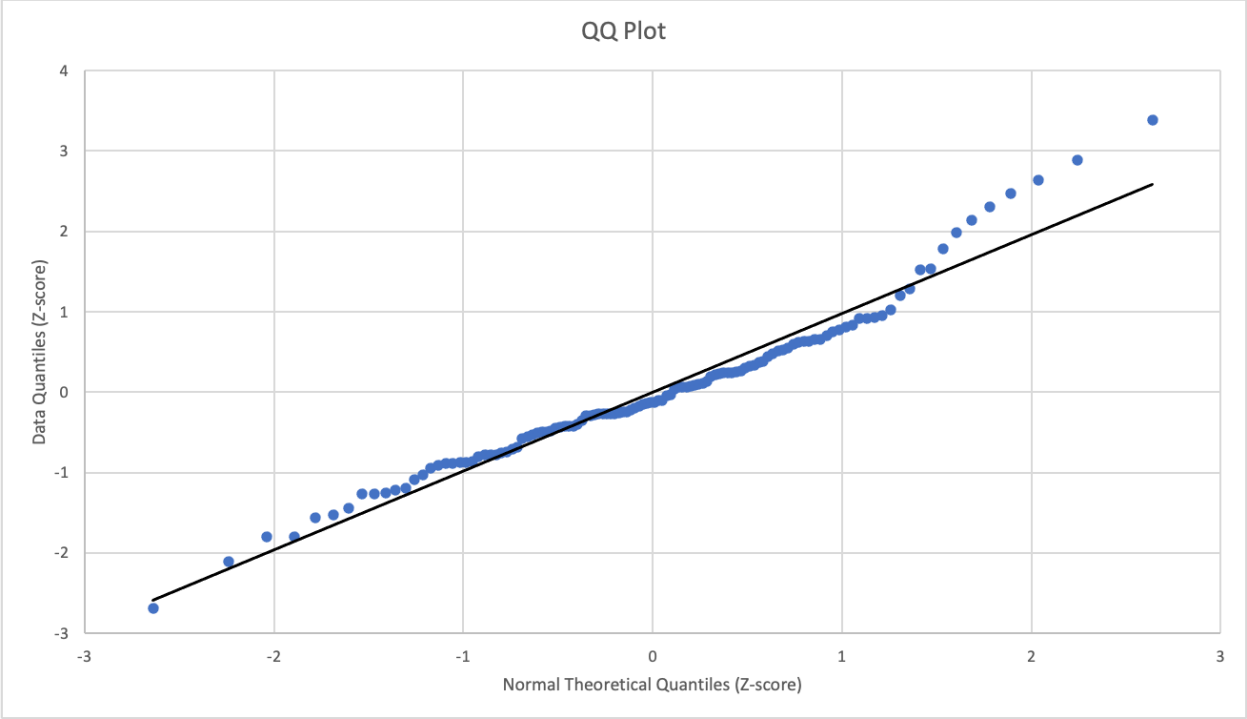
(c) Since most of the data points are on or very close to the linear trend line, we can say that the dataset has an approximately normal distribution.



2.

(a) Since the data points on the normality plot for the most part seem to follow the linear trend line outside of the last eight points, we can confidently assume that the data set comes from an approximately normal population.





(b) Sample Mean = 9.067 mg/L ≈ Population Mean
Sample Standard Deviation = 2.403 mg/L ≈ Population Standard Deviation
Standard Error of Sample Mean = s /√ (n) = 0.219 mg/L