

EXERCISES CHAPTER 1

QUESTION 1

An analysis of water from a surface stream yields the following results:

$$\text{Na}^+ = 115 \text{ mg/L}$$

$$\text{SO}_4^{2-} = 240 \text{ mg/L}$$

$$\text{Mg}^{2+} = 36.6 \text{ mg/L}$$

$$\text{Cl}^- = 71.0 \text{ mg/L}$$

$$\text{K}^+ = 20 \text{ mg/L}$$

$$\text{NO}_3^- = 10 \text{ mg/L}$$

- (a) Calculate the percent error in the cation-anion balance.

- (b) Draw a bar diagram for water in meq/L.

- (c) Determine the hardness of water in mg/L as CaCO_3 .