

Chlorite – SM 4500 ClO₂E Amperometric Method

Titrator Model/ID#: _____

Titrant Used: _____

Analyst: _____

Titrant Normality: _____

Date/Time of analysis: _____

Standardization date of titrant: _____

Sample ID/Location	Sample Vol. (mL)	mL Titrant used for A	Res Cl + 1/5 ClO ₂ (A)	mL Titrant Used for B	4/5 ClO ₂ + Chlorite (B)	Nitrogen Gas Purge (minutes)	mL Titrant used for C	Non-volatilized Chlorine (C)	Continue with sample from C		Chlorite (mg/L)	Chlorine Dioxide (mg/L)	Chlorine (mg/L)
									mL Titrant Used for D	Chlorite (D)			

Where: A = mL titrant used / mL sample used
 B = mL titrant used / mL sample used
 C = mL titrant used / mL sample used
 D = mL titrant used / mL sample used
 N = Normality of the titrant

Chlorite (mg ClO₂⁻ / L) = D x N x 16863

Chlorine Dioxide (mg ClO₂ / L) = (5 / 4) x (B - D) x N x 13490

Chlorine (mg Cl₂ / L) = {A - [(B - D) / 4]} x N x 35453

Comments: _____
