

Supplement to:

Interactive comment on "Corrosion control using hydroxide and bicarbonate alkalis in water drinking processes" by P. Torres-Lozada et al.

P.J. de Moel (Referee)
p.j.demoel@tudelft.nl

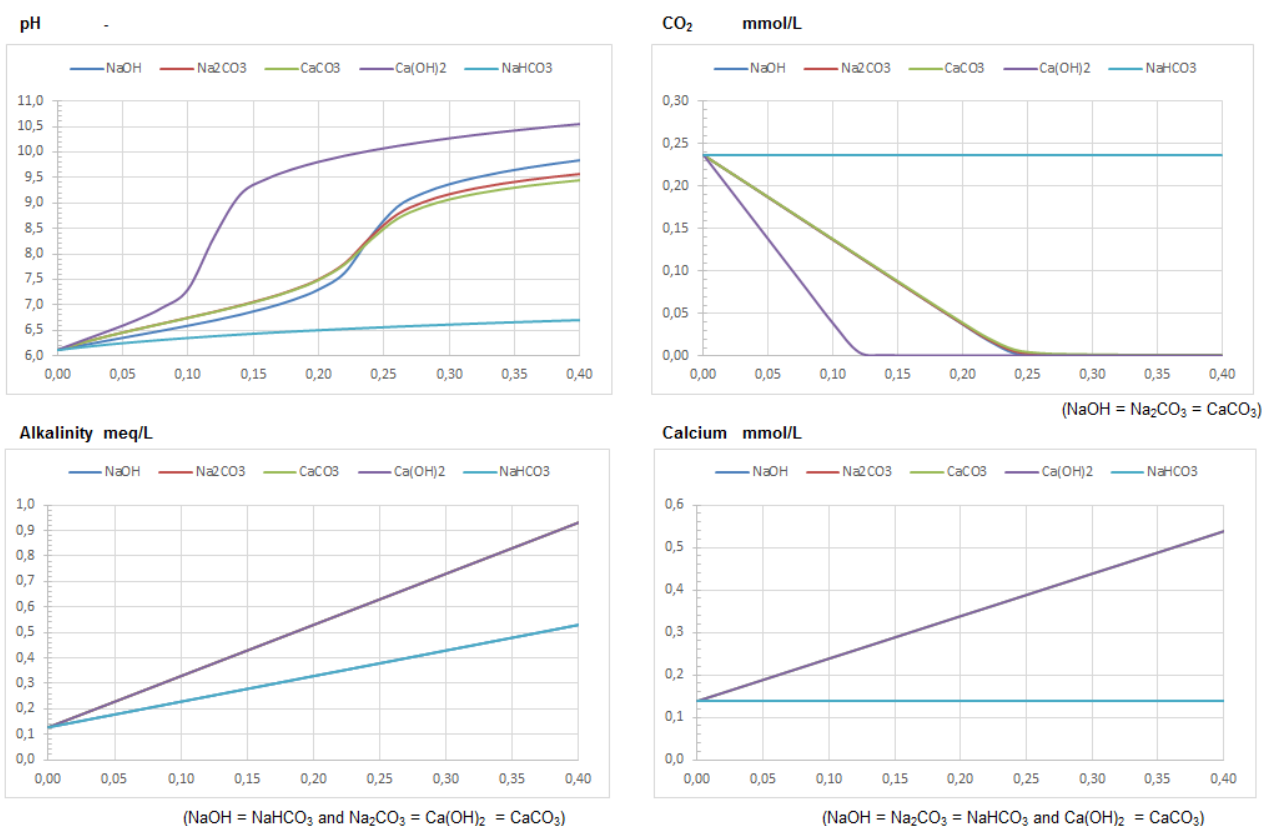
Assumed raw water composition:

General	Temperature	t	°C	22
	pH	pH	-	6,10
	Oxygen	O2	mg/L	4,4
Cations	Calcium	Ca	mg/L	5,5
	Magnesium	Mg	mg/L	0,06
	Sodium	Na	mg/L	3
	Potassium	K	mg/L	1
	Ammonium	NH4	mg/L	0
Anions	Alkalinity (as HCO3)	HCO3	mg/L	7,9
	Chloride	Cl	mg/L	11,0
	Nitrate	NO3	mg/L	1
	Sulfate	SO4	mg/L	1

Dosing of chemicals:

Dosing of NaOH, Na₂CO₃, CaCO₃, Ca(OH)₂ or NaHCO₃
Dosing range: 0.0 – 0.4 mmol/L

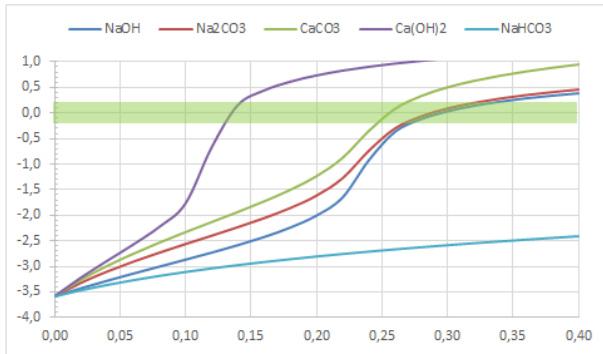
Calculated parameters:



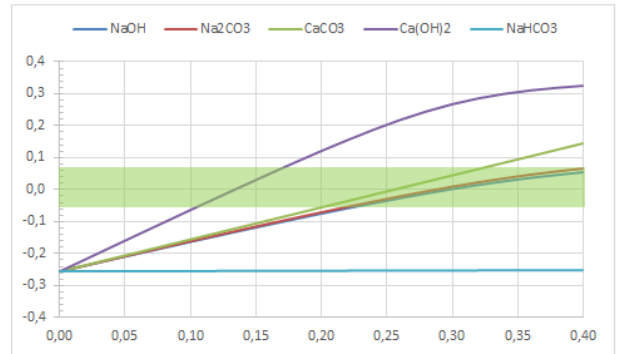
x axis: dosing level in mmol/L
y axis: calculated parameter

Calculated indices:

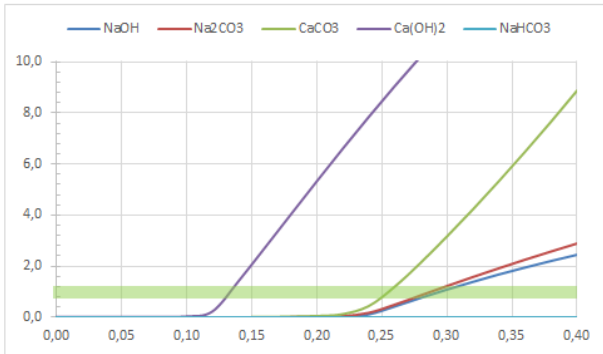
LSI



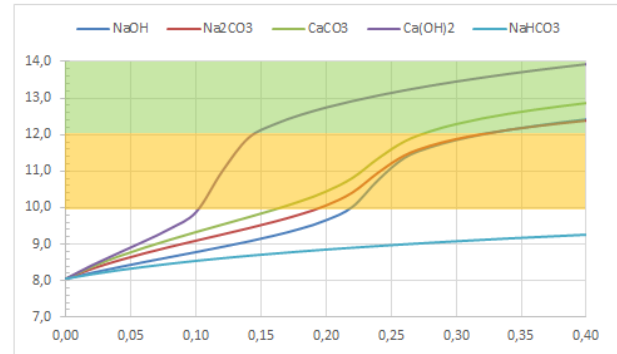
CCPP



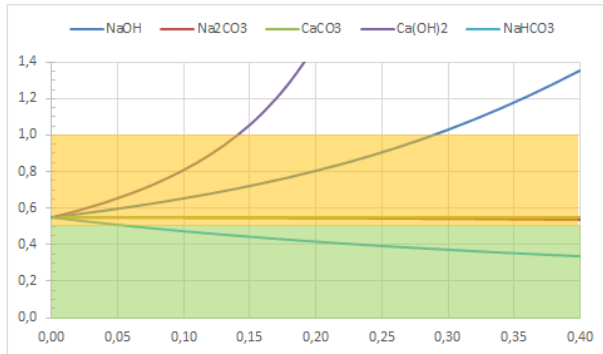
DFI



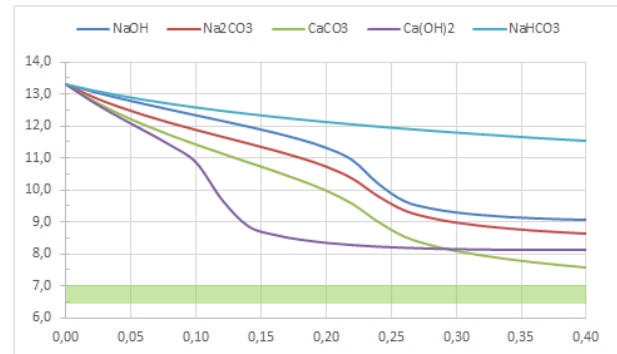
AI



LKI



RSI



*x axis: dosing level in mmol/L
y axis: calculated index (see article for definition and unit)*