



Supplementary Materials: Analysis of Cadmium Retention Mechanisms by a Smectite Clay in the Presence of Carbonates

Tiziana Missana, Ursula Alonso, Natalia Mayordomo and Miguel García-Gutiérrez

Table S1. Parameters used to simulate each experimental curve, presented in Figure 3 and Figure 4.

TEST	X2Cd	SOwCd[+]	SOsCd[+]	SOwCd[2+]	SOsCd[2+]	SOsCdOH	SOwCdOH
EDGE, 0.1 M Low Cd	3.50	-2.50	-1.40	4.30	6.10	-11.70	-11.90
EDGE, 0.01 M Low Cd	3.70	-2.55	-1.40	4.10	6.10	-11.50	-11.70
EDGE, 0.1 M High Cd	3.30	-2.50	-1.40	4.10	6.10	-11.70	-11.90
IT, 0.1 M pH=7.8	3.60	-2.50	-1.40	4.10	6.10	-11.70	-11.90
IT, 0.1 M pH=5.2	3.40	-2.50	-1.40	4.10	6.10	-11.70	-11.90
MEAN	3.50	-2.51	-1.40	4.14	6.10	-11.66	-11.86
Desvest	0.16	0.02	0.00	0.09	0.00	0.09	0.09

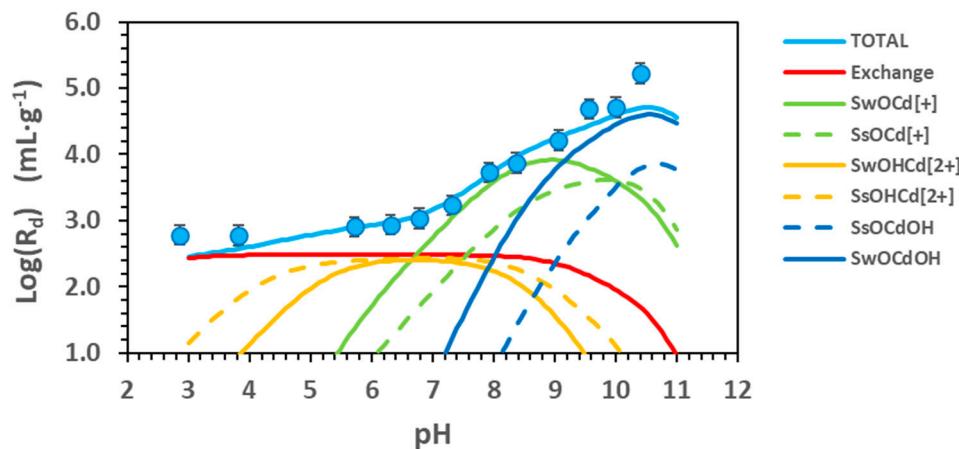


Figure S1. Contribution to the final adsorption of the different surface species for the data in Figure 2b.

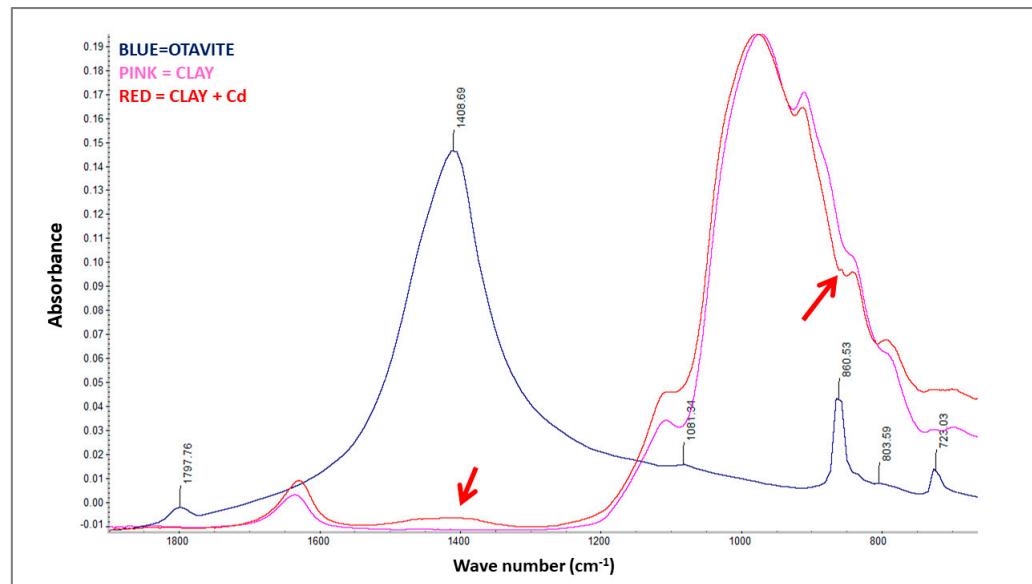


Figure S2. Comparison of the ATR-FTIR spectra of Na-smectite before and after the adsorption of Cd [3·10⁻³ M] at pH=8 in NaClO₄ 0.01 M. The reference spectra of otavite is also included for comparison.