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Supplementary material

Lead solubility in seawater: an experimental study

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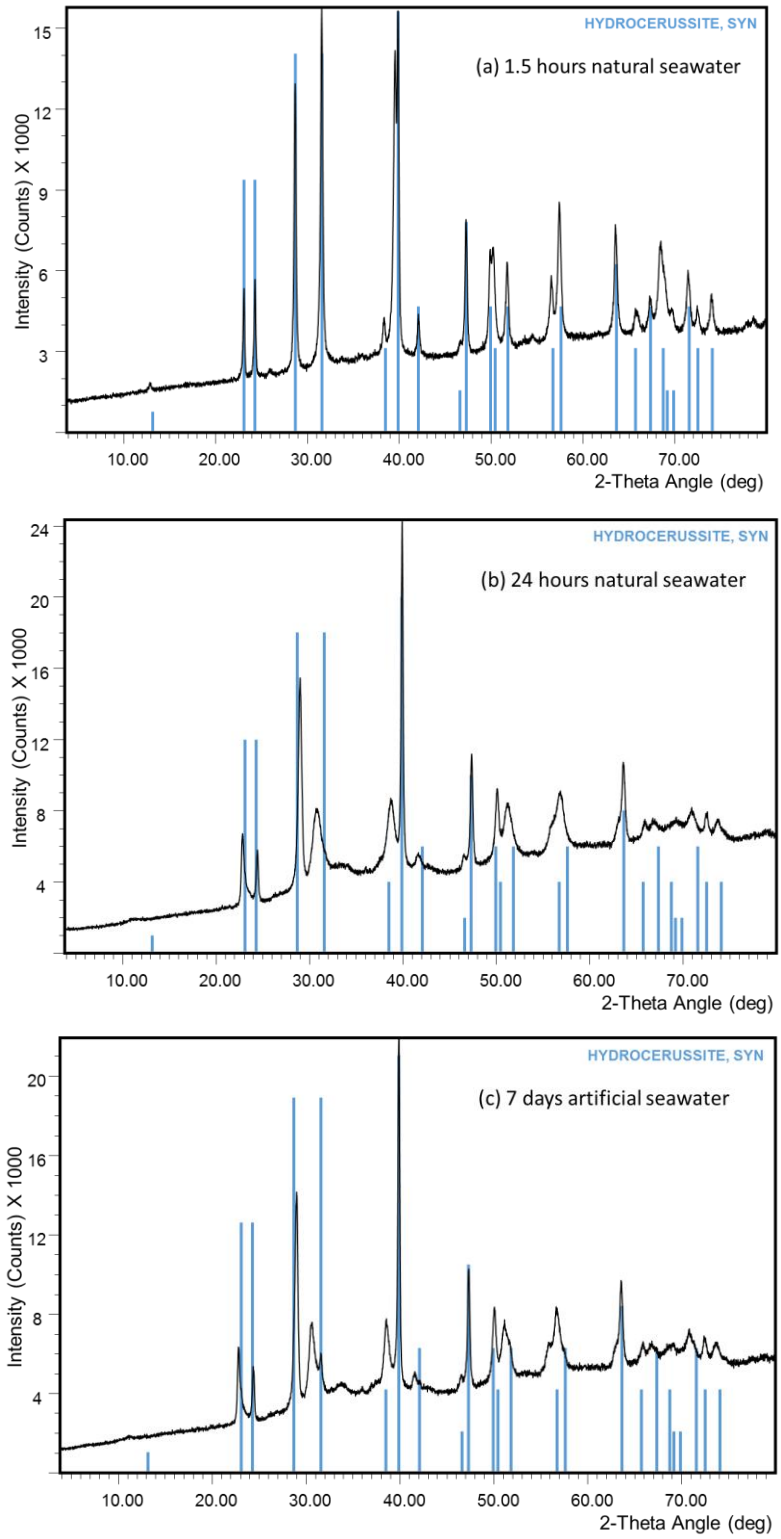

Fig. S1. X-Ray diffraction (XRD) patterns (Co Kα radiation) of the precipitates formed in seawater after (a) 1.5 h in natural seawater; (b) 24 h in natural seawater; and (c) 7 days in artificial seawater. The vertical lines represent the expected intensities for hydrocerussite.

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Table S1. Filterable lead concentrations (mean ± s.d., mg Pb L^{-1}) measured during the lead solubility tests conducted with natural seawater

Added lead	1 mg Pb L^{-1}		5 mg Pb L^{-1}		20 mg Pb L^{-1}	
Filtrate	<0.45 µm	<0.025 µm	<0.45 µm	<0.025 µm	<0.45 µm	<0.025 µm
Time (days)						
0	1.14 ± 0.01	1.16 ± 0.01	2.96 ± 0.05	3.04 ± 0.03	3.63 ± 0.04	3.29 ± 0.35
1	1.15 ± 0.01	1.16 ± 0.01	2.16 ± 0.07	2.15 ± 0.01	1.00 ± 0.02	1.00 ± 0.02
2	1.14 ± 0.01	1.15 ± 0.01	2.07 ± 0.06	2.04 ± 0.02	1.05 ± 0.03	1.04 ± 0.03
3	1.15 ± 0.01	1.17 ± 0.01	2.09 ± 0.08	2.08 ± 0.01	–	–
4	1.15 ± 0.01	1.16 ± 0.01	1.97 ± 0.09	1.96 ± 0.02	1.00 ± 0.00	1.03 ± 0.02
7	1.11 ± 0.01	1.12 ± 0.01	1.90 ± 0.07	1.88 ± 0.01	0.97 ± 0.02	0.98 ± 0.02
14	1.12 ± 0.01	1.13 ± 0.01	1.89 ± 0.06	1.88 ± 0.00	–	1.19 ± 0.10
21	1.11 ± 0.01	1.13 ± 0.01	1.81 ± 0.06	1.79 ± 0.02	–	–
28	1.10 ± 0.01	1.11 ± 0.01	1.71 ± 0.03	1.71 ± 0.00	–	–