

Effects of dissolved organic phase composition and salinity on the engineered sulfate application in a flow-through system

Saeid Shafieiyoun, Riyadh I. Al-Raoush, Reem Elfatih Ismail, Stephane K. Ngueleu, Fereidoun Rezanezhad, Philippe Van Cappellen

Item type

Journal Contribution

Terms of use

This work is licensed under a [CC BY 4.0](#) license

This version is available at

https://manara.qnl.qa/articles/journal_contribution/Effects_of_dissolved_organic_phase_composition_and_salinity_on_the_engine_through_system/21597537/2

Access the item on Manara for more information about usage details and recommended citation.

Posted on Manara – Qatar Research Repository on

2020-01-24

Effects of dissolved organic phase composition and salinity on the engineered sulfate application in a flow-through system

Supplementary Materials

Journal of Environmental Science and Pollution Research

Saeid Shafieiyoun¹, Riyadh I. Al-Raoush^{1,*}, Reem Elfatih Ismail¹, Stephane K. Ngueleu^{1,2}, Fereidoun Rezanezhad², and Philippe Van Cappellen²

¹Department of Civil and Architectural Engineering
College of Engineering, Qatar University, PO Box 2713
Doha, Qatar

²Ecohydrology Research Group and Water Institute,
Department of Earth and Environmental Sciences,
University of Waterloo, 200 University Avenue West,
Waterloo, Ontario, Canada N2L 3G1

*corresponding author; e-mail: riyadh@qu.edu.qa



Figure SM1: Photo of the flow-through reactor (FTR) setup

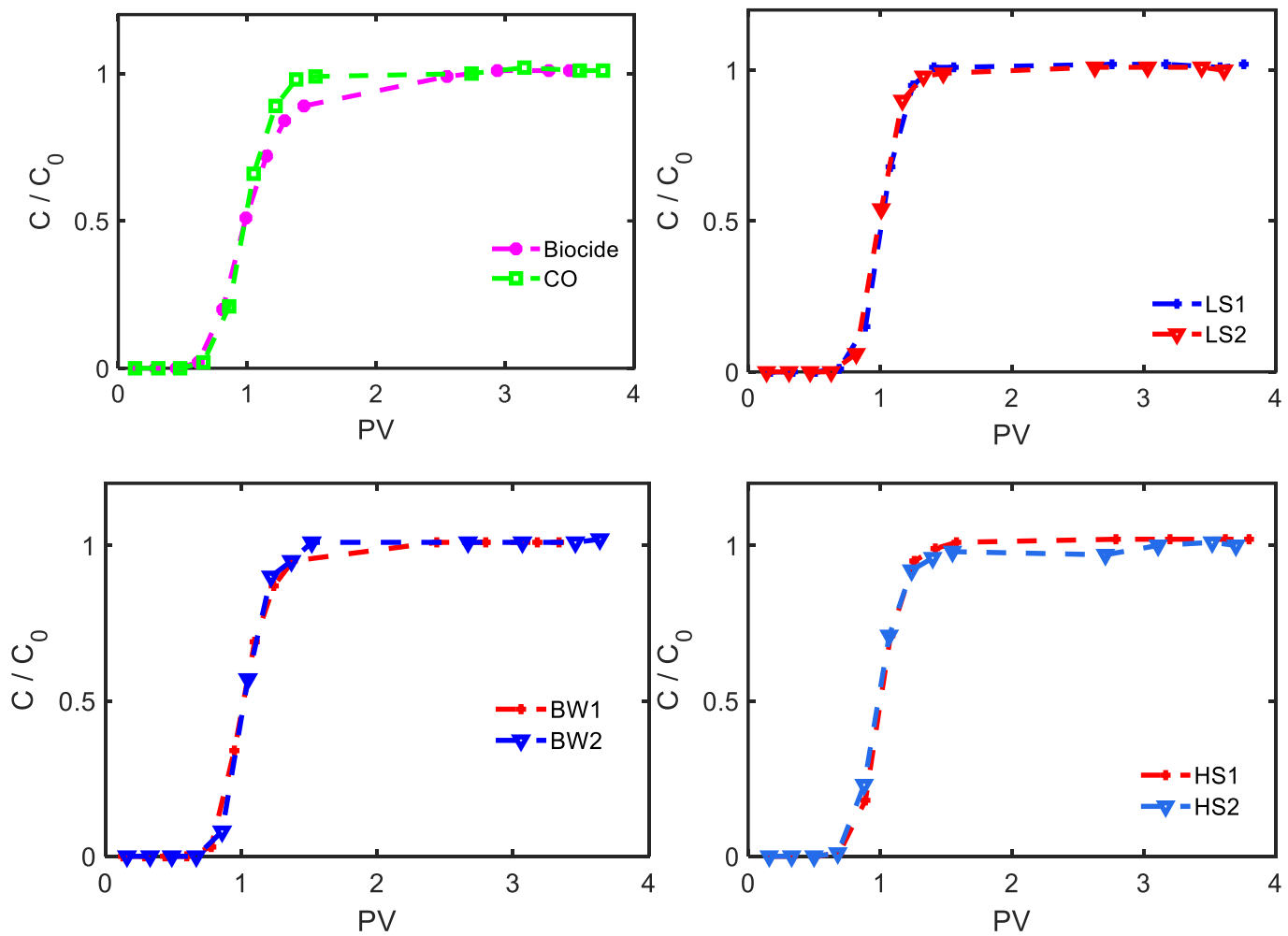


Figure SM2: Tracer test results for a) Biocide and CO FTRs, b) low salinity (LS1 and LS2) FTRs, c) brackish water (BW1 and BW2) FTRs, d) high salinity (HS1 and HS2) FTRs.