

Accepted Manuscript

Microbial vanadium (V) reduction in groundwater with different soils from vanadium ore mining areas

Liting Hao, Baogang Zhang, Chuanping Feng, Zhenya Zhang, Zhongfang Lei, Kazuya Shimizu, Xuelong Cao, Hui Liu, Huipeng Liu



PII: S0045-6535(18)30489-2

DOI: [10.1016/j.chemosphere.2018.03.075](https://doi.org/10.1016/j.chemosphere.2018.03.075)

Reference: CHEM 21019

To appear in: *ECSN*

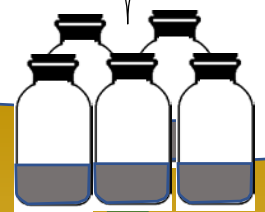
Received Date: 16 May 2017

Revised Date: 19 February 2018

Accepted Date: 11 March 2018

Please cite this article as: Hao, L., Zhang, B., Feng, C., Zhang, Z., Lei, Z., Shimizu, K., Cao, X., Liu, H., Liu, H., Microbial vanadium (V) reduction in groundwater with different soils from vanadium ore mining areas, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.03.075.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



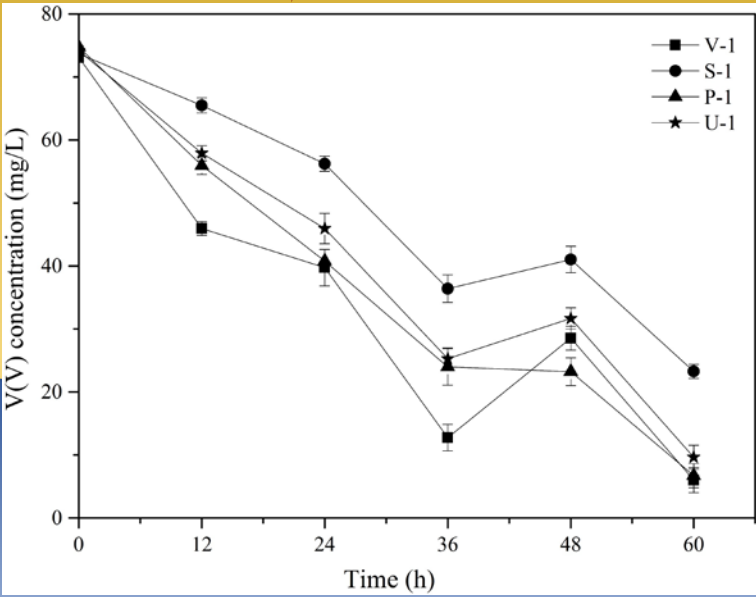
Using soils from four main kinds of vanadium ore mining areas as inocula

Developing *in situ* bioremediations of V(V) polluted groundwater

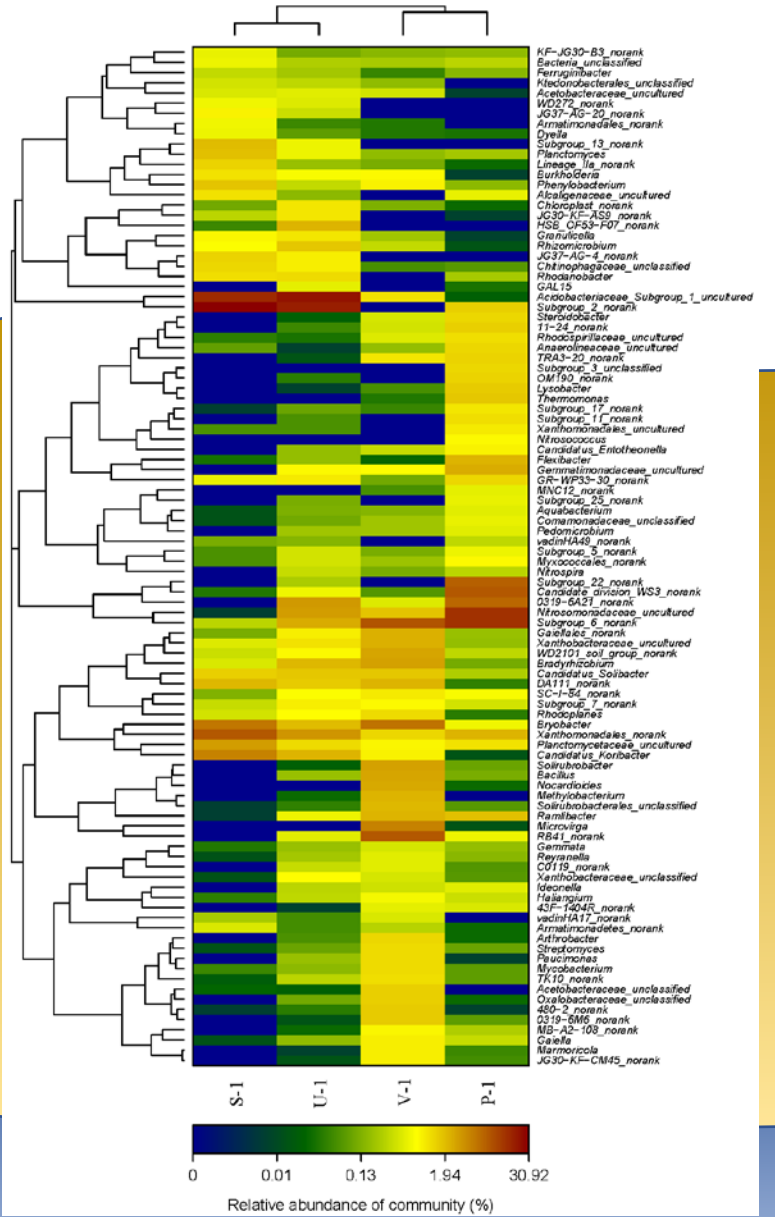
Searching new functional species for V(V) reduction

V(V) contaminated groundwater (harmful to human beings, animals and plants)

After 60 h operation, 92.0±2.0% and 91.0±1.9% of V(V) removal was achieved with V-1 and P-1 soils as inocula.



Groundwater flow →



Download English Version:

<https://daneshyari.com/en/article/8851538>

Download Persian Version:

<https://daneshyari.com/article/8851538>

[Daneshyari.com](https://daneshyari.com)