

Accepted Manuscript

Effect of Fenton pre-oxidation on mobilization of nutrients and efficient subsequent bioremediation of crude oil-contaminated soil



Jinlan Xu, Fanxing Kong, Shaohua Song, Qianqian Cao, Tinglin Huang, Yiwei Cui

PII: S0045-6535(17)30458-7

DOI: 10.1016/j.chemosphere.2017.03.087

Reference: CHEM 19005

To appear in: *Chemosphere*

Received Date: 25 November 2016

Revised Date: 05 March 2017

Accepted Date: 21 March 2017

Please cite this article as: Jinlan Xu, Fanxing Kong, Shaohua Song, Qianqian Cao, Tinglin Huang, Yiwei Cui, Effect of Fenton pre-oxidation on mobilization of nutrients and efficient subsequent bioremediation of crude oil-contaminated soil, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.03.087

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.

Highlights

Low concentration of H_2O_2 and Fe^{2+} resulted in highly matching between nutrient and population of residual indigenous bacteria.

The activity of indigenous bacteria was enhanced under highly matching condition.

The nutrients were mobilized faster at highly matching condition.

Highly matching between nutrient and population of residual indigenous bacteria improved bioremediation of total petroleum hydrocarbon (TPH).

Download English Version:

<https://daneshyari.com/en/article/5746154>

Download Persian Version:

<https://daneshyari.com/article/5746154>

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