Accepted Manuscript

Chemosphere Greek to the terms and the terms

Use of by-products from integrated steel plants as catalysts for the removal of trichloroethylene from groundwater

Rafael Gonzalez-Olmos, Alba Anfruns, Noelia V. Aguirre, Victoria Masaguer, Alejandro Concheso, Miguel A. Montes-Morán

PII: S0045-6535(18)31669-2

DOI: 10.1016/j.chemosphere.2018.09.017

Reference: CHEM 22097

To appear in: ECSN

- Received Date: 11 December 2017
- Revised Date: 31 August 2018

Accepted Date: 3 September 2018

Please cite this article as: Gonzalez-Olmos, R., Anfruns, A., Aguirre, N.V., Masaguer, V., Concheso, A., Montes-Morán, M.A., Use of by-products from integrated steel plants as catalysts for the removal of trichloroethylene from groundwater, *Chemosphere* (2018), doi: 10.1016/j.chemosphere.2018.09.017.

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.

1	Use of by-products from integrated steel plants as
2	catalysts for the removal of trichloroethylene from
3	groundwater
4	
5	Rafael Gonzalez-Olmos ^{a,*} , Alba Anfruns ^b , Noelia V. Aguirre ^c , Victoria Masaguer ^c ,
6	Alejandro Concheso ^d and Miguel A. Montes-Morán ^d
7	^a IQS School of Engineering, Universitat Ramon Llull, Via Augusta 390,
8	08017 Barcelona (Spain)
9	^b LEQUIA, Institute of the Environment, University of Girona, Campus Montilivi, E-17071
10	Girona, Catalonia, Spain
11	^c ArcelorMittal Global R&D Asturias, CDT, Apartado 90, 33400 Avilés, Spain
12	^d Instituto Nacional del Carbón, INCAR-CSIC, Francisco Pintado Fe 26, 33011 Oviedo,
13	Spain
14	*E-mail: <u>rafael.gonzalez@iqs.url.edu</u> , tel: +34 93 267 20 80, fax: +34 93 205 62 66
15	
16	ABSTRACT
17	The removal of tricholoroethylene (TCE) has been investigated in this work through the
18	Fenton-like process using different catalytic materials obtained from metallic by-products
19	of the steel industry. These materials are the slag produced during the transformation of
20	molten pig iron produced in a blast furnace into liquid steel (SLD), the dry particles (or

Download English Version:

https://daneshyari.com/en/article/10149537

Download Persian Version:

https://daneshyari.com/article/10149537

Daneshyari.com