

**Titre:** Oral and inhalation bioaccessibility of metal(loid)s in chromated copper arsenate (CCA)-contaminated soils: Assessment of particle size influence. Supplément  
**Title:**

**Auteurs:** Cécile Christine Van Der Kallen, Mathieu Gosselin, & Gérald J. Zagury  
**Authors:**

**Date:** 2020

**Type:** Article de revue / Article

**Référence:** Van Der Kallen, C. C., Gosselin, M., & Zagury, G. J. (2020). Oral and inhalation bioaccessibility of metal(loid)s in chromated copper arsenate (CCA)-contaminated soils: Assessment of particle size influence. Science of The Total Environment, 734, 139412 (10 pages). <https://doi.org/10.1016/j.scitotenv.2020.139412>  
**Citation:**

 **Document en libre accès dans PolyPublie**  
Open Access document in PolyPublie

**URL de PolyPublie:** <https://publications.polymtl.ca/45230/>  
**PolyPublie URL:**

**Version:** Matériel supplémentaire / Supplementary material  
Révisé par les pairs / Refereed

**Conditions d'utilisation:** Creative Commons Attribution-Utilisation non commerciale-Pas d'oeuvre dérivée 4.0 International / Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND)  
**Terms of Use:**

 **Document publié chez l'éditeur officiel**  
Document issued by the official publisher

**Titre de la revue:** Science of The Total Environment (vol. 734)  
**Journal Title:**

**Maison d'édition:** Elsevier B.V.  
**Publisher:**

**URL officiel:** <https://doi.org/10.1016/j.scitotenv.2020.139412>  
**Official URL:**

**Mention légale:**  
**Legal notice:**

## *Figures*

# ***Oral and inhalation bioaccessibility of metal(loid)s in chromated copper arsenate (CCA)-contaminated soils: Assessment of particle size influence***

*Cecile C. van der Kallen<sup>1</sup>, Mathieu Gosselin<sup>1</sup>, Gérald J. Zagury<sup>1\*</sup>*

*<sup>1</sup> Department of Civil, Geological and Mining Engineering, Polytechnique Montréal (QC), Canada, H3C 3A7*

*\*Corresponding author (gerald.zagury@polymtl.ca)*

*Number of pages: 3*

*Number of figures: 2*

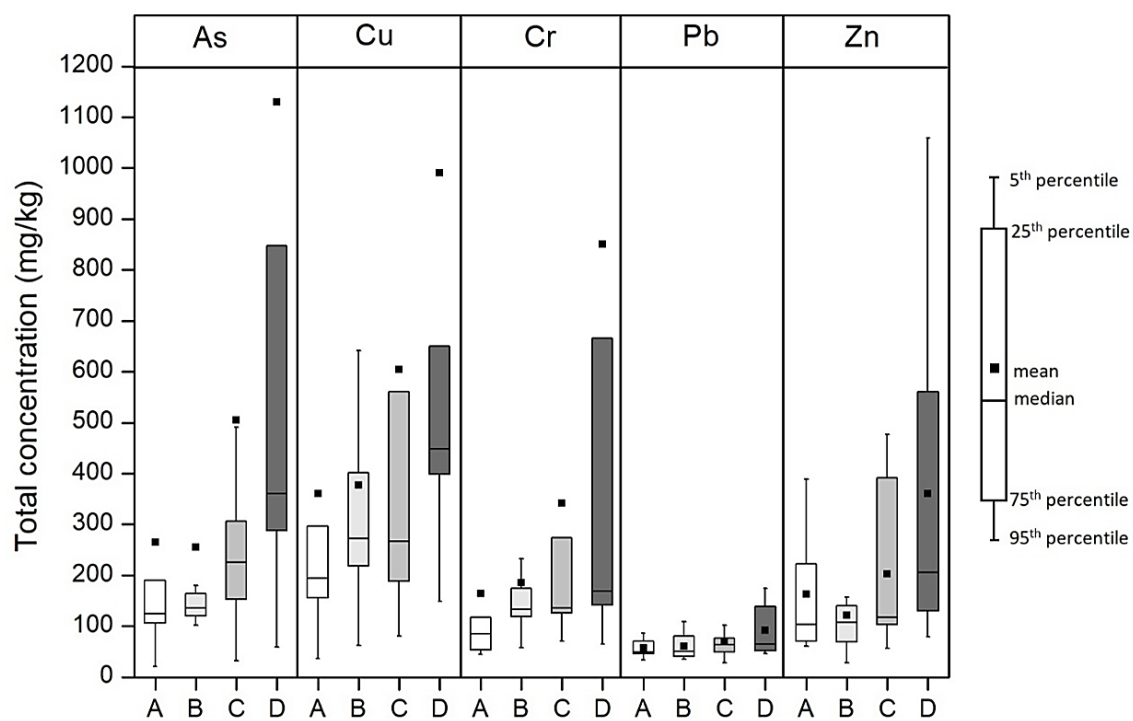


Figure 1: Boxplot of total metal(loid)s concentrations in different particle sizes of soil samples (n=10). A : < 2 mm, B : 250-90  $\mu$ m, C : 90-20  $\mu$ m, D : < 20  $\mu$ m. The outliers are not shown.

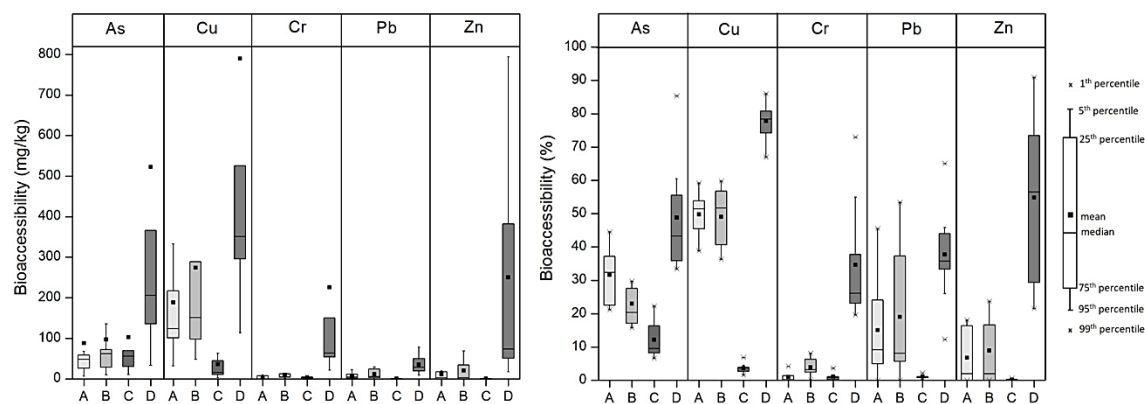


Figure 2: Boxplot of bioaccessibility (mg/kg and %) of metal(loid)s in different particle size of soil samples (n=10) using different methods. A = IVG-GI (250-90  $\mu\text{m}$ ), B = IVG-GI (90-20  $\mu\text{m}$ ), C = GS (< 20  $\mu\text{m}$ ), D = ALF (< 20  $\mu\text{m}$ ). The outliers are not shown in the boxplot of bioaccessibility (mg/kg).