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International Journal of Chemical and Molecular Engineering
Vol:8, No:9, 2014

Determination of Cadmium and Lead in Sewage Sludge from the Middle Region (Misrata, Msallata and Tarhünah Cities) of Libya

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Abstract : The concentrations of cadmium and lead in sewage sludge samples were determined by Atomic Absorption Spectrometric Method. Samples of sewage sludge were obtained from three sewage treatment plants localised in Middle Region of Libya (Misrata, Msallata and Tarhünah cities). The results shows that, the mean levels of Cadmium for all regions are ranges from 81 to 123.4 ppm and these values are higher than the limitations for the international standard which are not registered more than 50 ppm (dry weight) in USA, Egypt and the EU countries. While, the lead concentrations are ranged from 8.0 to 189.2 ppm and all values are within the standard limits which graduated between (275–613) ppm.

Keywords : cadmium, lead, sewage, spectrometry
Conference Title : ICCB 2014 : International Conference on Chemistry and Biochemistry
Conference Location : Los Angeles, USA
Conference Dates : September 29-30, 2014

Open Science Index, Chemical and Molecular Engineering Vol:8, No:9, 2014 waset.org/abstracts/11460