

**Phytoremediation of mixed metals (cadmium and lead) from wastewater by
Eichhornia crassipes**

ABSTRACT

The present study demonstrated the phytoremediation potential of *E. crassipes* for removal of mixed metals cadmium (Cd) and lead (Pb) within 14 days period. *E. crassipes* were grown in FSSA's lake water and added with 1 mg/L and 3 mg/L of mixed metals (Cd+ Pb). The tolerance of *E. crassipes* in removing mixed metals at different concentration were photo recorded and the toxicity evidence was observed along the experiment. The results showed that removal of mixed metals at 1 mg/L was highest in Pb with 20.3% followed by Cd 4.0%. *E. crassipes* exposed to higher concentration at 3 mg/L showed removal efficiency of Pb with 10.7% while Cd with 2.6% respectively. It was noted that the accumulation of heavy metal in plant parts were ranged from 17.1 mg/kg- 83.17 mg/kg for Cd while for Pb the accumulation was observed with 75.7 mg/kg to 1090.1 mg/kg. The distribution pattern of heavy metals was found in order of roots>leaves>stems. *E. crassipes* significantly experienced some toxicity effects as the concentration increased along 14 days of the treatment.