



### 昆明市盘龙江底泥重金属污染研究初探

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#### Research on heavy metals in sediments of Panlong river in Kunming

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- 摘要
- 参考文献
- 相关文章

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**摘要** 对盘龙江底泥5种重金属锌(Zn)、铜(Cu)、镉(Cd)、铅(Pb)、铬(Cr)进行了分析研究,并利用Hakason生态风险指数法评价了盘龙江底泥5种重金属对水域污染程度,对水域和周围环境造成的潜在风险影响.结果表明重金属对盘龙江底泥已造成了一定程度的污染,其中锌(Zn)、铜(Cu)、镉(Cd)的污染较为严重.盘龙江各河段受到重金属污染的程度有所不同,以油管桥、圆通桥、南太桥、双龙桥为污染较为严重的河段.盘龙江底泥重金属总的潜在生态风险程度在大部分河段为低度污染或中度污染,但镉(Cd)对盘龙江水域和周围环境具有较大的生态风险性.

**关键词:** 盘龙江 底泥 重金属污染 生态风险性 昆明

**Abstract:** The concentrations of five heavy metals involving Zinc(Zn),Copper(Cu),Cadmium(Cd),Lead(Pb) and Chrome(Cr) in sediments of Panlong river were determined and their influences on the water quality and the around environment were evaluated by the ecological risk index of Hakason.The results showed that heavy metal,especially Zn-,Cu-,and Cd-contamination in sediments of Panlong river was serious.The pollution degree varied along Panlong river,and relatively Youguan bridge,Yuantong bridge,Nantai bridge and Shuanglong bridge were heavily polluted.In most reaches of river the potential adverse effects of heavy metal were light or moderate,but the ecological risk index of Hakason of Cd was high in this river and around environments.

**Key words:** Panlong river sediment heavy metal pollution ecological risk Kunming

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