



Análisis de la contaminación microbiológica en el río Combeima, municipio de Ibagué (Tolima, Colombia) [

2015

text (article)

Analítica

Introduction. The microbiological contamination level in the Combeima river. **Objective.** Was determined in order to analyze its potential risks for being consumed by humans, for recreation and other uses. **Materials and methods.** From reports of monthly average of total and fecal coliforms, by samplings performed in the intake of its aqueduct system between 2008 and 2012, plus its correlation with the monthly average turbidity occurred. Besides, during 2014 and during dry and rainy seasons, water samples were taken in seven places located throughout the river, in the upstream of the aqueduct systems intake. **Results.** The results obtained show high microbiological contamination in the time of the analysis and an evident increase downstream, until waters arrive to the aqueduct system, and the discharges of not treated waste waters are relevant, including those with fecal coliforms from rural houses and from livestock activities, especially pig and poultry breeding. Besides, the changes in the rivers turbidity influenced, mainly, the total concentrations of coliforms, but were not relevant in the fecal ones. **Conclusion.** In 2014, the dry season had a bigger microbiological contamination compared to the rainy one, thus being more hazardous for human consumption

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Título: Análisis de la contaminación microbiológica en el río Combeima, municipio de Ibagué (Tolima, Colombia) [electronic resource]

Editorial: 2015

Tipo Audiovisual: contaminación microbiológica turbiedad temporada río Combeima microbiological contamination turbidity season Combeima river contaminação microbiológica turbidez temporada rio Combeima

Documento fuente: Producción + Limpia, ISSN 1909-0455, Vol. 10, N°. 2, 2015, pags. 92-103

Nota general: application/pdf

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Lengua: Spanish

Enlace a fuente de información: Producción + Limpia, ISSN 1909-0455, Vol. 10, N°. 2, 2015, pags. 92-103

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