

WATER QUALITY OF THE WATER PARK VALE DOS IPÊS IN CAMPOS GERAIS, MINAS GERAIS STATE.

Polyanna Alves Silva¹ Doctor Teacher - Chemistry Keila Batista Lara Rocha² Graduated in Biological Sciences Patrícia Aparecida da Silva³ Graduated in Biological Sciences

RESUMO

This study evaluated some physico-chemical and microbiological parameters of water quality of the Water Park Vale dos Ipês in Campos Gerais, Minas Gerais State. Four water samples were taken at different sites during 3 consecutive weeks. Four replicates of each collected sample were used for evaluations of pH, turbidity and color and two replicates for microbiological analysis. Water quality was assessed based on that established by the Ordinance 518/2004 of the Ministry of Health. Water samples collected at the water park showed values of pH, turbidity and color within the standards, but also high levels of coliforms at 35 ° C and thermotolerant thus not meeting the standards previously established by CONAMA. It is concluded that the analyzed water samples are not suitable for direct contact and for human food, nor suggested for irrigation of plants and vegetables. The analysis of the degree of contamination of the water park can be complemented with the development of research projects that can assess more specific parameters of contamination from industrial, agricultural and domestic effluents over a longer period of time.

Palavras-chave: 35°C Coliform; Thermotolerant coliform; Physicochemical analysis; Microbiological analysis

¹ Faculty of Sciences and Tecnologies of Campos Gerais - FACICA, Chemistry, Campos Gerais, MG, polyalves@gmail.com

² Faculty of Sciences and Tecnologies of Campos Gerais – FACICA, Chemistry, Campos Gerais, MG, keilacangere@yahoo.com.br

³ Faculty of Sciences and Tecnologies of Campos Gerais – FACICA, Chemistry, Campos Gerais, MG