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MICROBIOLOGICAL AND PHYSICO-CHEMICAL PARAMETERS. BASIN OF JUIZ DE FORA, MG AND ITS RELATION WITH THE **ENVIRONMENTAL SURVEILLANCE OF ROTAVIRUS IN DRAINAGE**

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8 sites along the basin, in six campaigns, totalizing 48 samples. Putative present viral choice when it comes to microbial water quality assessment. These viruses are freviral parameters for the assessment of water quality. others parameters. The data of this study point to the need the establishment of tion between GARV detection and turbidity (p=0,000) and no correlation with table of the microbiological quality. Statistical analyzes showed significant correladetected in 50.0% (11/22) of the water samples considered into the values accepblished by the CONAMA N° 357/05 for class I and 2 freshwater. GARV were showed that in 54,2% (26/48) of analyzed water samples exceeded the values estaincreased to 62.5% (30/48) when using the real time PCR. Bacteriological analyses GARV was detected by PCR in 29.2% (14/48) of the samples however this number were determined in each site in all campaigns. The presence of genetic material of chemical parameters (conductivity, chlorine, pH, salinity, temperature and turbidity) out using RT-PCR and real time PCR. Fecal coliforms were quantified and physicone, followed of RNA extraction by silica method. The search of GARV was carried particles were concentrated by adsorption-elution in negatively charged membrawater quality. From July 2011 to May 2012, 2L of surface water were collected at Gerais state, correlating with microbiological and physico-chemical parameters for Bacia Hidrográfica do Córrego de São Pedro (BHCSP), in Juiz de Fora city, Minas present study aimed to investigate the presence of GARV in surface waters of the ses (GARV) a leading agent of these diseases, especially in developing countries. The quently associated to waterborne viral gastroenteritis being the group A rotavirusewage effluents, even in the absence of fecal coliforms, which are the indicators of The enteric viruses are present in aquatic environments due to contamination by

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