



International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.10 No.15, pp 09-14, **2017**

Analysis of the Environmental Quality Behavior in the Sumapaz River Basin using Data Mining (Colombia)

López Sánchez Wilson Ricardo¹; Rodríguez Miranda Juan Pablo²*; Ruiz Ochoa Mauricio Andres³

¹Electronic Engineer. (Candidate) Magisterin Information and TelecommunicationsSciences. LASER Research Group. Francisco Jose de Caldas District University,Colombia.

²Sanitary and Environmental Engineer. Magister in Environmental. Engineering. PhD (Candidate). Associate Professor. FacultaddelMedioAmbiente y RecursosNaturales. Universidad Distrital Francisco José de Caldas. Director of the AQUAFORMAT research group. Postal Address: Carrera 5 Este No 15 - 82.

AvenidaCircunvalarVenado de Oro. Bogotá DC Colombia.

³ EnvironmentalEngineer. Doctor of Engineering. Assistantprofessor. Universidad Unidades Tecnologicas de Santander,Colombia.

Abstract: This paper presents the assessment of the concurrent environmental quality evaluated in the conditions in the Watershed of the Sumapaz River, integrating the variables of the water quality (BOD₅, TSS, N-NO₂ y P_{total}) and precipitation. Using the data mining technique establishes membership functions and describes data and analyzed variables. In the body of surface water, there is a detriment of the environmental quality in the medium and low basin, which is an obvious contamination of the river and therefore the need to do short-term intervention actions in the basin.

Key Words: Watershed, data mining, environmental quality.

Rodríguez Miranda Juan Pablo et al /International Journal of ChemTech Research, 2017,10(15): 09-14.
