$$AWQI = (0.229 \pm 0.554) + (0.514 \pm 0.340) \cdot SCWQI;$$

$$R = 0.73018$$
; $N = 4$;

AWQI =
$$(0.225 \pm 0.154) + (1.290 \pm 0.232) \cdot \text{EWQI}$$
;

$$R = 0.96899$$
; $N = 4$;

$$AWQI = (3.082 \pm 1.044) - (0.025 \pm 0.013) \cdot CWQI;$$

$$R = 0.81023$$
; $N = 4$.

Thus, for the first time using AWQI the quality of Rivers Sisian and Goris water evaluate. It was shown that from the source to the mouth of the river there is an increase in the value of the AWQI, which indicates the decline in the quality of water of the rivers from the first to the second class of pollution.

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WATER QUALITY ASSESSMENT "YEREVAN LAKE" ARTIFICIAL RESERVOIR

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In the last years we've suggested Entropic water guality index (EWQI) and Armenian water guality index (AWQI) for evaluation surface water quality [1].

Development of water quality assessment methods using conventional indicators comprehensively taking into account various properties of surface water is an important issue. It must be noted that most developed complex characteristics of water object in one way or another connected with the existing maximum permissible concentration (MPC). The aim of presented paper is evaluation of «Yerevan Lake» Artificial Reservoir by indexes of water quality. Five indexes of water quality (IWO) which differ on structure, applicability and used approaches were used for this purpose. The Water Contamination Index (WCI), Canadian Water Quality Index (CWQI), Specific-combinatorial Water Quality Index (SCWQI), EWQI and AWQI.

The artificial reservoir «Yerevan Lake» is located on the south-west of Yerevan. It was built in the gorge of the river Hrazdan in 1963 –1966. The lake is situated at an altitude of 908 m above sea level, has an area of 0,65 km², average depth – 8 m, and the maximum – 18 m, water volume of approxi-

mately 5 million m³ [2]. «Yerevan Lake» Artificial Reservoir has one monitoring post: number 112. It was shown that water of the reservoir is polluted by biogenic substances and heavy metals. Thus, in the Reservoir water is regularly increased MPC of copper, vanadium, aluminum, and selenium. For example, BOD₅, NH₄⁺, NO₂⁻, V, Cu, Al and Se number of MPC increasing cases is 6, 10, 12, 12, 10, 7 and 6 times respectively. The amount of excess cases of MPC –

$$N = 63$$
; $\sum n \log_2 n = 203,04$;
 $I = 203,04/63 = 3,22$;
 $H = \log_2 63 - 3,22 = 2,75$;
EWQI = $H/I = 2,75/3,22 = 0,855$.

The total amount of the multiplicity of MPC exceedances –

$$M = \sum m = 36.3;$$
 $\log_2 M = 5.18;$
 $AWQI = EWQI + 0.1;$
 $\log_2 M = 0.855 + 0.518 = 1.373.$

Analysis of obtained data indicate that AWQI has liner dependence with WCI, SCWQI, EWQI and an inverse dependence with CWQI.

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THE STUDY OF THE DIVERSITY OF SPECIES OF TREES AND SHRUBS ON THE SCHOOL № 45 IN ARKHANGELSK

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Objective. To create an electronic mini-ency-clopedia of species of trees and shrubs growing in the school № 45 city of Arkhangelsk. In our city a lot of environmental problems: dustiness, high concentration of toxic emissions, noise levels in excess of the maximum allowable health norm, and others. In addressing these issues play huge role greenery. School № 45 is situated on Sadovaya Street, in the heart of Arkhangelsk in the vicinity of roads, buildings, market. On school grounds