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RESUME

The dissertation of Beysembin Kudaibergen Rachimzhavnovich on the theme: "Construction improvement and methods of calculation water battier part of the water intake facilities of the filter type" for the scientific degree of Doctor of technical sciences in specialty - "Hydro technical construction".

Keywords

Water intake facility with filter elements, colmatation of pores in the filter soil by pumps, the scheme "filling-flushing", the filtering process, degree water turbidity's influence, flushing regime, zone of influence and coefficient of water intake, the value of longitudinal velocity in the frontier zone, the method of calculating the lateral filter intake.

Object of the research. Natural researches were carried out on the middle and lower reaches of the rivers Talas, Asa and Syrdarya Tasotkelskom water reservoir on the river Shu and on the specially constructed tray of hydraulic engineering laboratory of Taraz State University named after M.H. Dulati.

The purpose of work. Justification of theoretical framework of filtration processes taking place in the zone water selection through water intake facilities with filtering elements.

Research methods. The work was conducted in accordance with the scientific programs of Taraz State University named after M.H. Dulati, MES of RK. In the preparation of work were used archival materials of the Kazakh Hydrometeorology Institute, Committee on Water Resources, Ministry of Agriculture, water farms of Zhambyl and Kyzylorda regions etc. The dissertation theme was approved by Taraz State University named after M.H. Dulati, MES of RK in 2006 (the protocol 7).

In the investigation were widely used system analysis's methods, natural studies, mathematical and physical modeling.

The results obtained and their novelty.The paper presents new scientifically based theoretical results, the totality of which has a great importance for the development of hydraulic engineering science.

Has developed the calculating method of the lateral water intake's throughput under filtering regime.

Has offered the calculation formula of the water velocity in the vertical direction in the frontier zone.

Has generalized formula of dams' filtering capacity.

The practical value of the results.Scientific results, statements and conclusions were obtained by the author of dissertation. They were justified by comparison of the data with the results of other authors and verified techniques by comparing of experimental data which were resulting of modeling studies with data theoretically dates; offered hydrodynamic scheme of dividing stream on the site of lateral filtering dam will link the filtration processes in the dam body with hydrodynamic processes in the mainstream flow, confirming the proposed technical solutions by patented Republic Kazakhstan.

Implementation degree of economic efficiency. The results of scientific research and experimental development work in production. Have established and tested in the natural conditions the reliability of the water intake facility with filtering elements for Bodamsky channel of Bodamsky region, South Kazakhstan area, also in the Chu region, Zhambylsky of Zhambylsky area.

According to the calculations of operational costs for flushing water, accumulated in separation pools and requiring annual flushing is 9300m³. The annual volume of water supply to the relaxation area Komsomolsk Lake for swimming season is 7,903m

Annual economic efficiency when using wastewater treatment plants is 3,161.41 tenge.