



**MUNICIPAL ENTERPRISE “VODOKANAL”**

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Dear Sirs,

At the present moment our company has the task to solve the problem of recycling silt sediment at our municipal sewage treatment plant. The ways and methods of solving this problem have not been chosen yet. We ask you for help taking into consideration the fact that your Company is known as one of the leading European companies in this area.

The zone of central sewage treatment system is located directly in the city, while the area of silt (sludge) sediment is about 300 meters distance from residential buildings. The wastewater of the left bank of Zaporzhye city passes through the purification at the sewage plant by the technology of by nitrification and denitrification. The named technology has no primary sedimentation which prevents the formation of sludge in the primary sedimentation tanks.

In the process of purification of wastewater only surplus activated sludge is formed which is constantly being removed from the system and compacted in the sludge seal.

The volume of the compacted surplus sludge is 550 m<sup>3</sup>/per day. The humidity of the compacted sludge is 96,7%. The parameter of ash content of compacted sludge is 29-35%.

After the process of compact sealing, the sludge is supplied to dehydration. Our existing system permits to apply two methods of dehydration of the sediment: directly on the sludge zones and through decanters D4LL, produced by the Austrian company «ANDRITZ».

Actually, the sealed surplus sludge is dehydrated directly on the sludge zones. The mechanical dehydration processing is temporarily stopped.

Taking into consideration all mentioned above, we ask you to choose possible variants and make us your best offer for technical solutions of recycling (utilization) of sludge. Please, kindly add the short description of the method essence, its advantages and disadvantages, indicative estimation of capital and operating costs.

Hoping for future fruitful cooperation, we thank you in advance for your kind assistance. Your prompt reply would be highly appreciated.

Best regards,  
Director General

Nikiforov A.