

GUGGISBERG CHEESE

Sugarcreek, OH, USA

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| TYPE OF INDUSTRY | Dairy products |
| MODEL OF DEHYDRATOR | MDQ-353 C |
| START OF OPERATION | 2018 December |

ISSUE

The customer had an interest in reducing sludge disposal costs in their industrial wastewater treatment plant by obtaining lower maintenance costs and lower energy consumption. The plant treats industrial wastewater from a nearby cheese factory and generates about 15,000 gallons of activated sludge from their MBR system per day.

SOLUTION

On-site pilot tests were carried out, using mobile dewatering unit MDQ-201, to find the best dewatering technology. According to the test results EKOTON offered sludge dewatering technology based on Multi-disc Screw Press Dehydrator MDQ-353 C.

RESULTS

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| TYPE OF SLUDGE | aerobically stabilized MBR sludge |
| OPERATING TIME | 8 h/day, up to 5 days/week |
| UNIT SLUDGE SUPPLY | up to 12 m ³ /h up to 230 kgDS/h |
| INLET SLUDGE DS CONTENT | 2 % |
| CAKE DS CONTENT | approx. 18-20% |
| POLYMER CONSUMPTION | 4.0 g/kg DS |
| TSS CONCENTRATION IN FILTRATE | 50 ppm |
| DS CAPTURE RATE | 99.7 % |

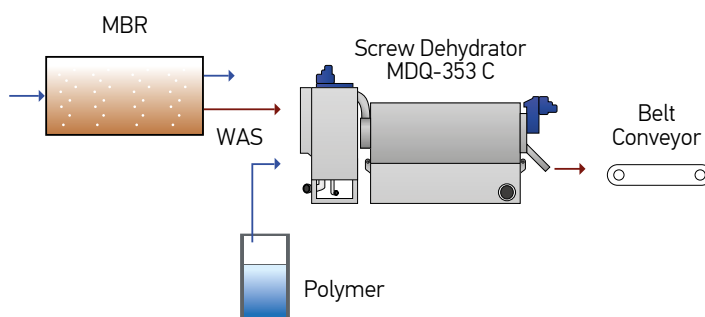


Figure 1. Technological scheme