

CASE STUDY # 022

OIL AND GREASE REDUCTION IN A MUNICIPAL WWTP

SUBJECT:

Reduction of oil and grease in a municipal wastewater treatment plant.

PRODUCT APPLIED: MICROCAT-DNT Drain and Trap Bioformula



TREATMENT SYSTEM:

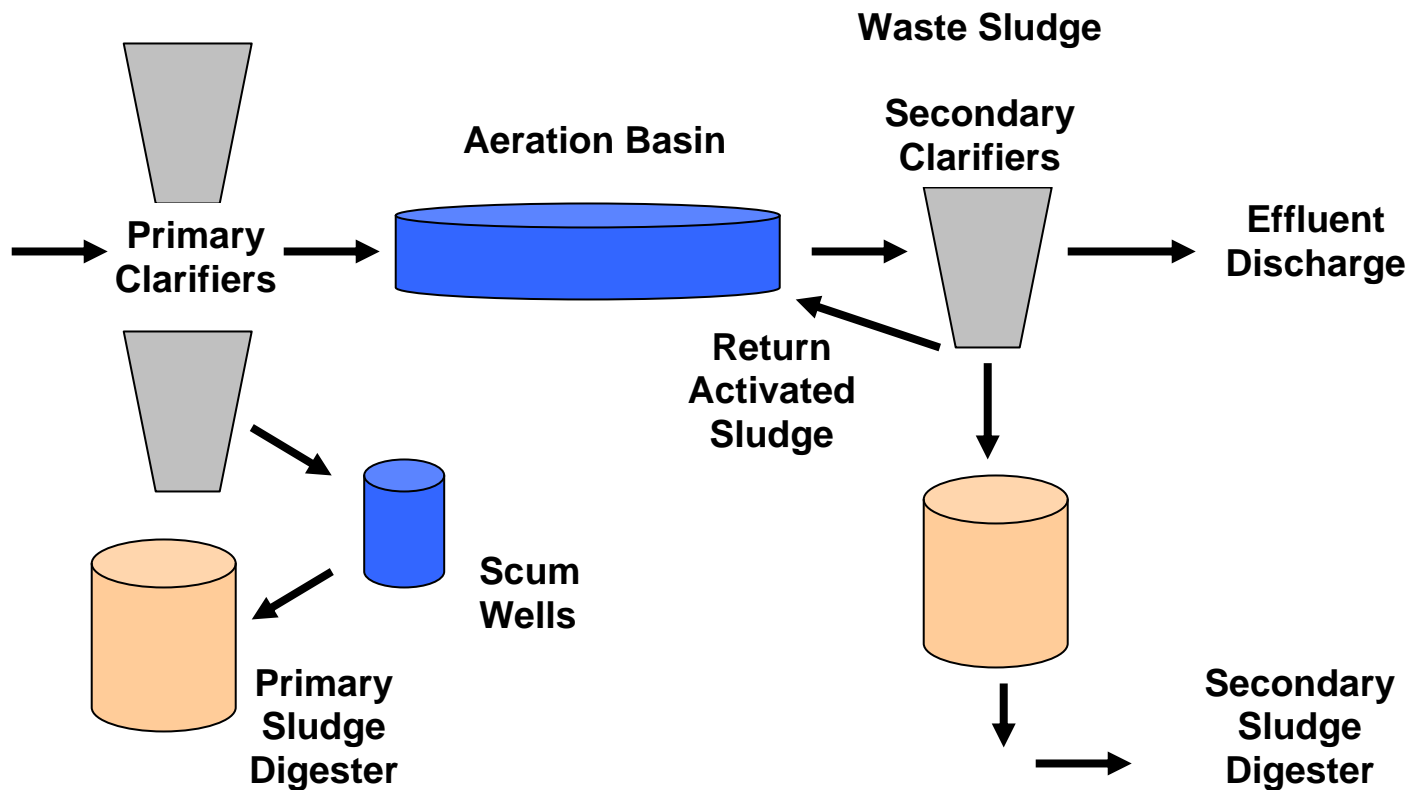
1. Wastewater flow: 30 MGD (113,550 m³/day)
2. Primary clarification
3. Scum wells
4. Primary digesters and intermediate clarification
5. Secondary Digesters
6. Elutriation tanks
7. Vacuum Filters

OBJECTIVE:

The treatment objective was to reduce oil and grease build-up in the plumbing system between the scum wells and the primary digesters. Oil and grease build-up inhibited the flow of sludge to the digesters and increased down time of the pipelines for maintenance.

PROGRAM:

An initial 30 day application program of **MICROCAT-DNT** was added directly to one of three on-line scum wells. **MICROCAT-DNT** was added during the morning shift and the evening shift at the wastewater treatment plant. A negligible retention time and an almost continuous sludge flow required a total of 0.45 Kg per day **MICROCAT-DNT** maintenance dosage.



RESULTS:

During the thirty-day inoculation period, as reported by the municipality, there was no oil and grease build-up inhibiting the sludge pipes between the scum wells and the primary digesters. This demonstrated the effectiveness of **MICROCAT-DNT**.

Due to the success of the initial inoculation program, the municipality elected to continue applying **MICROCAT-DNT** on a daily basis to maintain the steady sludge flow to the digesters.