

HYBACS

CASE STUDY:

BOTLENG WWTP

BOTLENG TOWNSHIP,

JOHANNESBURG, SOUTH AFRICA

0.93 MGD HYBACS SYSTEM

INFILCO
BIOLOGICAL GROUP



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BOTLENG WWTP

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QUICK FACTS:

- > **FLOW RATE:** 0.93 MGD
- > **PERMIT:** BCOD<30 mg/l,
NH₃-N<2 mg/l,
Ortho-P<10 mg/l
- > **NUMBER OF SMART UNITS:** 2
- > **START DATE:** March 2011

BACKGROUND:

Town of Botleng in Johannesburg, South Africa was looking for different technologies to construct a new WWTP to treat a flow of 0.93 MGD with future expansion to treat up to 1.87 MGD flow. Due to financial constraints, the town was searching for a cost-effective, but advanced wastewater solution.

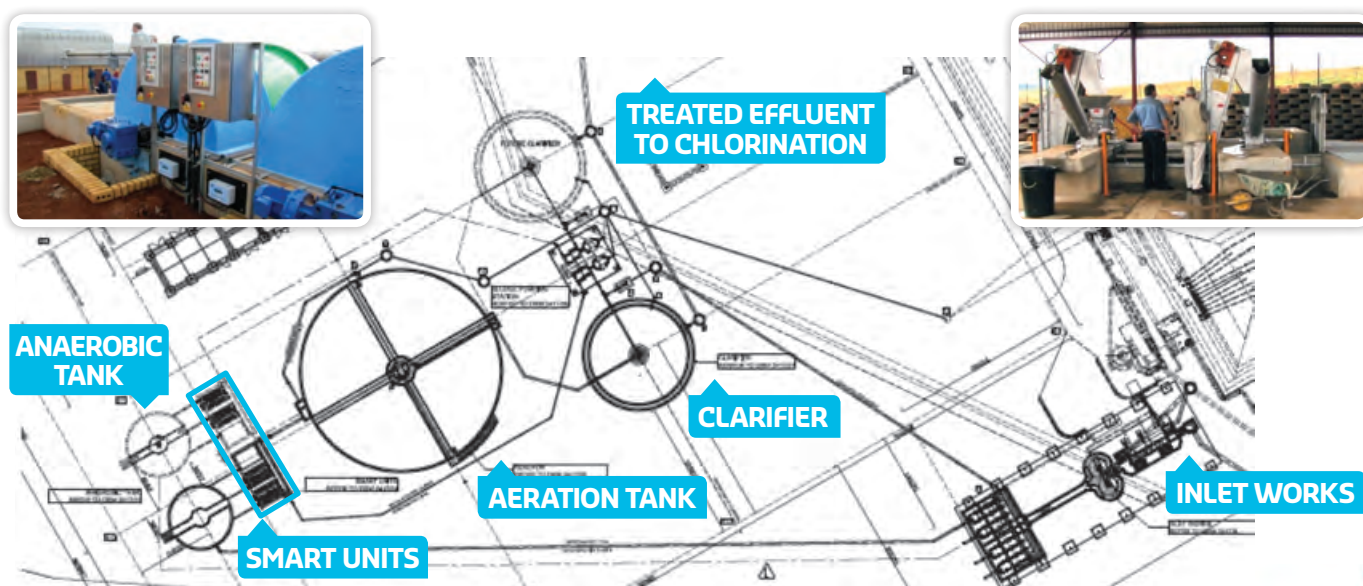
SOLUTION:

The HYBACS system was selected because of simple operation and maintenance and low power consumption. The system is designed for robust nutrient removal and offers advanced wastewater treatment for the town of Botleng. The plant was commissioned in March 2011. The plant has been performing well and has been exceeding the performance required by the permit.

PERFORMANCE:

Outstanding performance achieved: COD and suspended solids removal >90%, Ammonia removal >98%; COD, SS, ammonia and phosphate are within S. African Special Standard limits.

Three more HYBACS projects are in progress in S. Africa: Swaartruggens, Hartbeesfontein, Mitchell's Plain



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