



Prüfinstitut für Abwassertechnik GmbH

*Prüfeinrichtung des Prüf- und Entwicklungsinstituts
für Abwassertechnik an der RWTH Aachen*



Prüfinstitut für
Abwassertechnik
GmbH



Report on the treatment efficiency test according to EN 12566-7 of the small tertiary wastewater treatment plant

Fosforfilter Polonite®

Biotech AB

Test report – No PIA2015-T7-265S13.02

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Table 1: Treatment efficiencies under nominal loading conditions (100%)

Efficiency [%]	Mean*	Minimum	Maximum	Standard deviation
COD	25.4	0	53.1	15.9
BOD ₅	68.0	0	90.0	24.8
P _{tot}	92.7	71.3	99.1	8.5
SS	12.9	0	50.0	17.2

Table 2: Treated effluent characteristics under nominal loading conditions (100%)

Effluent	Mean	Minimum	Maximum	Standard deviation
COD [mg/l]	31	< 15	55	11
BOD ₅ [mg/l]	2	< 3	6	1
P _{tot} [mg/l]	0.7	0.1	2.4	0.7
SS [mg/l]	17	6	48	11
Settleable solids [ml/l]	0.1	< 0.1	0.2	0.1

Table 3: Bacterial results from 8 weeks consecutive sampling

Test schedule	Test sequence		1	5
	Loading		100 %	100 %
	Date		21.05.2015	16.07.2015
Air Temperature min/max [°C]			5 / 14	17 / 24
Influent:				
Total Coliforms	[1/100ml]		98.000	8.600
E.coli	[1/100ml]		1.000	3.100
Enterococci	[1/100ml]		1.800	311
Effluent:				
Total Coliforms	[1/100ml]		1.000	< 1
E.coli	[1/100ml]		< 1	< 1
Enterococci	[1/100ml]		320	116