



Attestation

Nr. 438.01A01

Coconut Fibre Tero System

Tertiary treatment unit

TRICEL (Killarney) Unlimited Company

Ballyspillane Ind. Est., Killarney, Co. Kerry, Ireland

Over a test period of 6 weeks (4 weeks nominal load, 2 weeks 50 % of nominal load), flow-proportional 24-hour composite samples were taken weekly (influent and effluent). The Tero was fed from a pump shaft which was connected to a small wastewater treatment plant (gravity flow mode). Dosing to the module took place in 20 litre portions and a flow of approx. 1 litre/s. Microbiological samples (E. coli) were taken as grab samples.



Performance details

Organic daily load (influent, nominal) 0.06 kg BOD₅/d

Hydraulic daily load (nominal) 0.9 m³/d

Treatment efficiency (nominal)	Efficiency (nominal / underload)	Effluent (nominal / underload)
COD	-39.0 % / -133.8 %	73 mg/l / 78 mg/l
BOD ₅	59.9 % / 39.3 %	6 mg/l / 5 mg/l
TN _b *	18.2 % / -	25.8 mg/l / -
NH ₄ -N*	95.5 % / -	0.2 mg/l / -
SS	78.4 % / 73.6 %	4 mg/l / 3mg/l
E.Coli	99.3 % / 97.5 %	643 / 591 CFU/100 ml

Electrical consumption (nominal) 0.15 kWh/d

Number of desludging (complete test – 6 weeks) 0

Number of maintenance operations during the test 0

* determined for temperatures $\geq 12^{\circ}$ C in the bioreactor

Tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH

Hergenrather Weg 30

52074 Aachen, Germany

This document is for information purposes only.
The results relate only to the tested object.

PIA – Sustainable Certification

geprüft – tested – testé

February 2024, Dipl.-Ing. Gabriel Schatzki
Head of department “Wastewater Treatment”



Notified Body
No.: 1739



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ISO 9001:2015