

Torreele/St-André Dune Infiltration Reuse — Reclaimed Water Recharging a Coastal Drinking-Water Aquifer (Belgium)

PES & Nature-Based Solutions · Good practice · Belgium

Quality score: 40/100

Evidence strength: Observational / pre–post

Summary

Since 2002, IWVA has treated secondary wastewater effluent through ultrafiltration and reverse osmosis at Torreele, infiltrating up to 2.5 million m³/year into the St-André dunes — supplying 40.6% of drinking-water demand and reversing seawater intrusion risk.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	0/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	3/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-12

[Intermunicipal Water Company of Veurne-Ambacht \(IWVA\)](#) — accessed 2026-09-12

[Water Practice & Technology \(IWA Publishing\)](#) — accessed 2026-09-12

[Water Reuse Europe – Torreele case study](#) — accessed 2026-09-12

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