



COMPLIANCE SHOULDN'T BE YOUR BIGGEST OPERATIONAL RISK

Non-compliance costs more than a fine.
Here's how to get ahead of it.

OZONEWS EDITION 31



NANOFILTRATION AND OZONE BASES WATER AND ENVIRONMENTAL SOLUTIONS

For industrial, commercial, and municipal operators across South Africa, water and effluent compliance isn't a once-a-year audit item, it's a daily operational reality. Between the National Water Act, SANS 241 drinking water standards, and increasing scrutiny under programmes like Green Drop, the bar for demonstrable compliance keeps rising.

The good news: compliance doesn't have to mean more chemicals, more admin, or more risk. If done right, it becomes proof of operational excellence that protects your license to operate and strengthens your reputation with regulators, clients, and communities alike.

Explore Our Water Treatment Capabilities



THE COMPLIANCE LANDSCAPE, BRIEFLY

- **Registration & reporting:** Under the National Water Act, water users must register relevant water uses and, in many cases, monitor and report on the quality of water discharged from their premises.
- **24-hour rule:** Incidents affecting water resource quality must be reported within 24 hours of occurrence.
- **SANS 241:** Sets the benchmark for potable water quality and while it's framed around drinking water, it shapes expectations for any treated water re-entering the environment or a water-scarce supply chain.
- **Green Drop programme:** The Department of Water and Sanitation's national benchmark for wastewater treatment performance.
- **The direction of travel:** More monitoring, more reporting, less tolerance for guesswork

For operators, the question isn't *whether* to invest in defensible water treatment it's how to do it in a way that's auditable, consistent, and doesn't become its own operational burden.

WHERE OZONE-BASED TREATMENT FITS IN

This is exactly the gap ozone technology was built to close.

Unlike chemical dosing, which requires constant handling, storage, and dosing-accuracy management (each a separate compliance risk in itself), ozone disinfection breaks down into oxygen after treatment. no chemical residue, no secondary contaminant risk, and no chain-of-custody paperwork for hazardous substances.

For compliance teams, that translates into:

- **Consistent, monitorable output:** parameters like pathogen reduction and oxidation are measurable and repeatable.
- **Reduced chemical handling risk:** one less category of substance to store, transport, and report on.
- **Audit-ready operation:** online monitoring systems provide continuous verification, not just point-in-time samples



PROOF IN PRACTICE : EASTPLATS CROCODILE MINE



At Eastplats Crocodile Mine, our nanofiltration and ozone-based treatment system was engineered to meet both **SANS 241** and **WHO water quality guidelines**, independently tested and continuously monitored.

The result: Raw water hardness reduced by roughly 80%, an operation that runs with zero salt/brine discharge, and a system generating documented savings of over R1.6 million annually, all while meeting some of the strictest quality benchmarks in the industry.

It's proof that compliance and cost-efficiency aren't opposing goals. They're the same engineering problem, solved once.



REGULATORY SCRUTINY IN SOUTH AFRICA ISN'T EASING UP

Operators who treat compliance as a strategic asset, rather than a reactive scramble, are the ones building resilience into their operations. If your current water or effluent treatment approach leaves you guessing at audit time, it might be time for a conversation.

[DOWNLOAD OUR CAPABILITY BRIEF](#)

HAVE YOU VISITED BIOZONE'S NEW WEBSITE?



A VICTORY ANNOUNCEMENT!



We did it - 1st Place Winners!

Out of 25 competing teams, the Biozone Outlaws rode into the Vat 'n Biki Potjie Competition and came away with first prize.

What started as an idea around a campfire became Sweet Lamb Alabama - a slow cooked red wine and cola lamb shank potjie served with six cow-boy inspired sides.

All proceeds will be donated towards a community in need, so watch out for our next feature.

To the organisers of the Vat 'n Biki Potjie Competition, thank you for hosting an incredible event!

And to our Biozone Outlaws...This one belongs to all of us!





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