

### OUR CLIENT



- A global chemicals and energy company headquartered in South Africa.



- One of the largest fertilizer producers in Africa.

### THE CHALLENGE



- Water is an integral part of the operational process.



- Product contact and effluent generation are unavoidable.



- The resultant nitrogen-rich waste stream ends up in the site's effluent dams.

The client's effluent dam capacity was under strain, which could impact on production if left unresolved.

### THE ASK

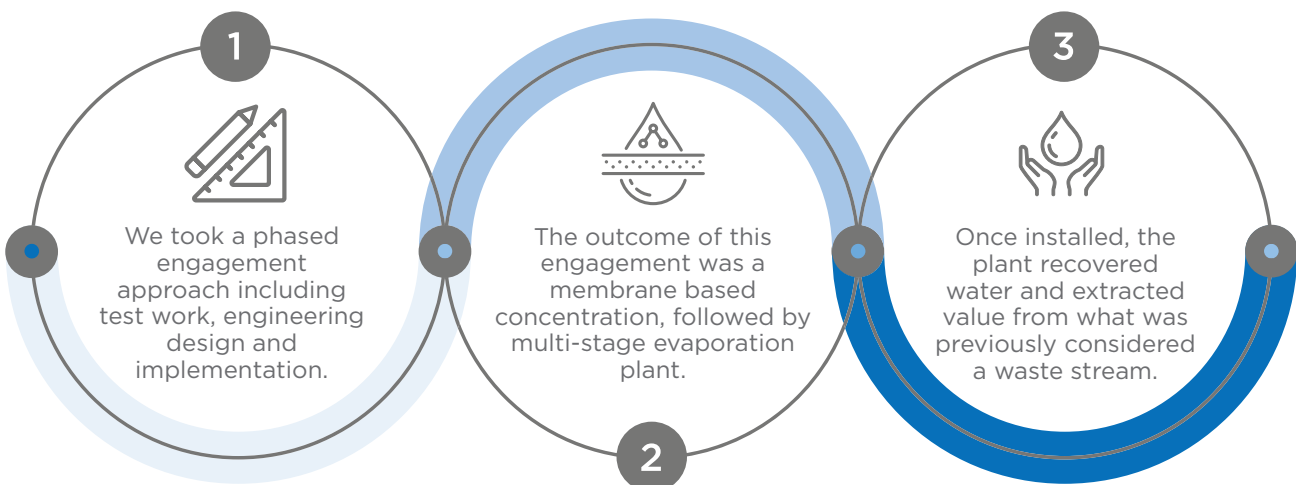
The client urgently required a wastewater treatment plant to:

- Reduce effluent dam volumes.

PROXA supported the client in framing the problem, finding and implementing a technical solution.



### HOW PROXA ADDED VALUE



## PROCESS



PROXA took an entrepreneurial approach to the challenge. Working closely with the client, an opportunity to reframe the wastewater as a source of revenue was identified. We then tested and applied the necessary technology to recover the Nitrogen species from the wastewater, concentrate it and sell it to the market as liquid fertilizer, thereby offsetting operational costs.

## FEED WATER



Nitro-rich wastewater

## PRODUCT WATER



Environmental protection - PROXA has a proven track record in delivering and operating systems capable of treating variable effluent mine water, working with all stakeholders to ensure protection of the environment.

## SUCCESS OUTCOMES

- ✓ Zero environmental contamination.
- ✓ A first-of-its-kind solution.
- ✓ Joint teamwork between PROXA and client.
- ✓ By-products that generate revenue to offset operating costs.

Contact us to learn how we can solve your customised water needs.  
[proxawater.com](http://proxawater.com)

