



case study

Location:

Kurmuk, Ethiopia

Customer:

DRA Global

Final water usage:

Potable Water

Plant information:

400 KLPD Potable Water Treatment Plant

Problem statement

Kurmuk Gold Mine in Western Ethiopia needed safe potable water for its camp, plant, and services. Raw borehole/dam water exceeded SANS 241:2015 standards with high turbidity (550 NTU), TSS (505 mg/L), and alkalinity (550 mg/L), risking pathogens, poor disinfection, cloudy appearance, and health issues for workers.



Solution statement

SewTreat proposed a large-scale, containerized 400 KLPD water treatment plant designed to reliably supply clean, safe water for the project. The system includes all essential stages of treatment—from removing solids to improving clarity and final disinfection—ensuring the water meets strict drinking-water standards. The plant is built inside durable shipping containers, giving it a compact footprint and making transport and installation straightforward, even in remote locations. It is fully automated and continuously monitored to maintain consistent performance and water quality. SewTreat provides on-site supervision and commissioning to ensure a smooth start-up, backed by strong mechanical and structural guarantees. This solution supports the ongoing development of Allied Gold's Kurmuk project, which is progressing toward planned production in 2026 and includes critical water infrastructure supplied by approved vendors.

Plant benefits

- ✓ **Health/Safety:** Pathogen-free water reduces disease risks, improving worker welfare.
- ✓ **Efficiency/Cost:** Quick install (33 days), low energy (159 KW/day), minimal waste (25.3 KLPD), and spares ensure uptime; monthly chemicals ~\$1,719.
- ✓ **Compliance/Reliability:** Meets standards; SewTreat's 250+ African projects provide proven support.
- ✓ **Sustainability:** Efficient design minimizes environmental impact, scalable for mine growth.

project photos

