

# Treatment of Hydrocarbon-Contaminated Water from a Redundant Oil Pipeline

- Treated contaminated water from a redundant oil pipeline under strict discharge controls
- Delivered monitored treatment system supporting safe pipeline decommissioning



**Client:**  
Confidential

**Nature of site:**  
Redundant oil pipeline generating hydrocarbon-contaminated wastewater during decommissioning works

## **The challenge:**

Decommissioning of a redundant oil pipeline generated large volumes of hydrocarbon-contaminated water requiring treatment prior to discharge. The water had to be managed under strict discharge consent conditions, with no tolerance for compliance failure and limited scope for operational downtime. The challenge was to deliver a reliable, auditable treatment solution capable of operating continuously while maintaining full regulatory compliance.

## **Our approach:**

RemTech designed, installed and operated a bespoke water treatment system tailored to the pipeline decommissioning works. The system was set up to treat contaminated water at controlled flow rates while consistently meeting discharge criteria.

The treatment train incorporated settlement, filtration and polishing stages, allowing hydrocarbons and suspended solids to be removed effectively before discharge to a restricted wastewater facility. The system was supported by telemetry and remote monitoring, enabling real-time visibility of performance and rapid response to changing weather conditions that could limit discharge flow rates. This allowed RemTech to optimise treatment continuously, minimise risk and maintain compliance throughout the programme.

All monitoring, sampling, maintenance and waste management were managed by RemTech as part of the works, with sludge and spent media removed through appropriate licensed routes.

## **Outcome:**

Approximately 8,000 m<sup>3</sup> of contaminated water were successfully treated and discharged in compliance with consent conditions within the programme timeframe, without fault. Discharge criteria were met consistently throughout the works, with no reportable incidents or interruptions to the wider decommissioning programme. The treatment system performed reliably under continuous operation, supporting safe and efficient pipeline clearance.

## **Value Added:**

By delivering a fully managed treatment solution, RemTech removed operational and compliance risk from the client. The combination of experienced supervision, robust system design and real-time monitoring ensured consistent performance under demanding conditions. The project demonstrates RemTech's capability to manage large-volume contaminated water treatment as an integrated part of complex decommissioning works, applying established technologies to achieve controlled, compliant outcomes.