

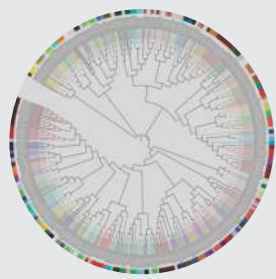
PHASE I (4 to 8 weeks)

Laboratory optimisation and demonstration

PHASED INTERACTIVE PROCESS

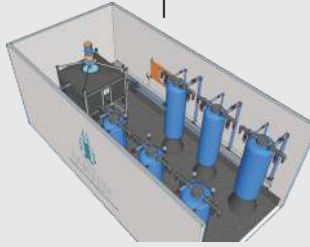


iWATER
KNOWLEDGE TO ENVIRONMENTAL SOLUTIONS

Site visit	Microbial diversity characterisation
<p>Sign non-disclosure agreement.</p> <p>Identify site risks and liabilities.</p> <p>Investigate current site data and water sampling.</p> <p>Fill information gaps with analysis e.g. total organic carbon (TOC).</p> <p>Selected chemical analysis to be independently verified.</p>	<p>Identify indigenous bacterial species.</p> <p>Identify consortium functionality for biological solutions.</p> <p>Viable cell growth and plate count.</p> <p>Biochemical oxygen demand (BOD) analysis and donor selection.</p> 

PHASE II (3 to 6 months)

Treatability demonstration plant using single module

Site meeting	Plant design
<p>Engagement between lead scientists, engineers, and stakeholders.</p> <p>Identify the appropriate location.</p> <p>Set the leasing or service agreement.</p>	<p>Use all data sets to adapt modular systems to suit the client's needs.</p> <p>Evaluate tailor-made plant leak tests, PLC, and sun panel efficacy.</p> 
Plant installation	
<p>Transport to site.</p> <p>All stability and stress tests.</p> <p>Safety, health, environmental, and quality (SHEQ) clearance for site.</p>	

PHASE III (Client specific)

Full-treatment adding more modules

Full-scale treatment plant

Full-scale operational planning, implementation, and management.

Add modular units to the existing treatment plant.

Upscaling in 100 kL bioreactor modular units.

In situ application of technology.

Service level agreement with iWater to manage and operate treatment.

Integrated water management plan.

Closure.

Risks and liabilities removed.

LABORATORY OPTIMISATION

Optional

Biostimulation	Column Studies	Chemical treatment
<p>Selection of tolerant bacterial communities.</p> <p>Optimise culturing conditions and needs.</p>	<p>Simple or complex donor selection.</p> <p>Optimum retention</p> <p><i>In situ</i> planning if required</p> <p>Waste characterisation</p>	<p>Suitable pre-treatment options:</p> <ul style="list-style-type: none"> • Active filters • Chemical reductants • Absorbents

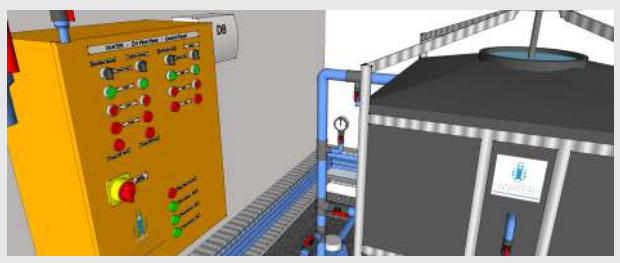
Plant operation

Round-the-clock operation, remote monitoring, and data integration.

Waste characterisation

Mimics *in situ* treatment with minimal risks and cost.

Economic and technology audit.



CONTACT DETAILS

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