



**SUURLTEX**  
Revolutions in Water

## Swirltex is a Wastewater Service Company that applies its patented technological innovation to turn wastewater into economic benefits.

Wastewater was once thought of only as a cost, but now communities can realize substantial economic benefits through water reuse. Water is a renewable and exhaustible natural resource. Access to water is an economic factor and water reuse is becoming critical. Yet the cost of traditional water treatment systems, which typically involve large capital expenditures and high operational costs, has made it cost prohibitive. We have a solution!

Swirltex Lagoon Unit (SLU), in addition to treating wastewater, has been shown to increase the lagoon capacity, thereby eliminating or reducing the need for expensive infrastructure upgrades. The best part is what comes next, access to locally controlled reuse quality water.

Benefits of the process include:

### **Decentralized Infrastructure**

- No capital infrastructure costs
- Swirltex manages the operations locally during the treatment process

### **Increased Lagoon Capacity**

- Lagoons are able to handle additional waste without major infrastructure upgrades
- Increased capacity allows for population and economic growth

### **Economic**

- Additional revenue through remarketing treated water
- Economic development made possible through access to treated water
- Nutrient rich water for agriculture

### **Environmental**

- Decrease or elimination of the need for yearly discharges into the environment, which reduces and/or eliminates pollution
- Reduces or elimination of the need for temporary diversion licences from potentially sensitive ecosystems

The treated water can be used to stimulate local development, support existing systems and/or create an additional revenue stream. By unlocking the water around us, the possibilities are endless!

## The ability to selectively target contaminants during the removal process allows us to adapt to meet the intended reuse quality standards.

### Local Business and Industry



Reusable water has numerous applications in business. Agriculture, Food Processing, Textiles, Forestry and Energy are just some of the industries heavily reliant on water. Businesses such as laundry mats and car washes, which use high volumes of water, can use treated water, creating a feedback loop. Reusing water has the potential to reduce operational costs, alleviate strains on the local water supply and reduce the impact on the environment. Through access to inexpensive treated water, it becomes more advantageous for local business and industries to operate in smaller urban and rural locations.

### Agriculture



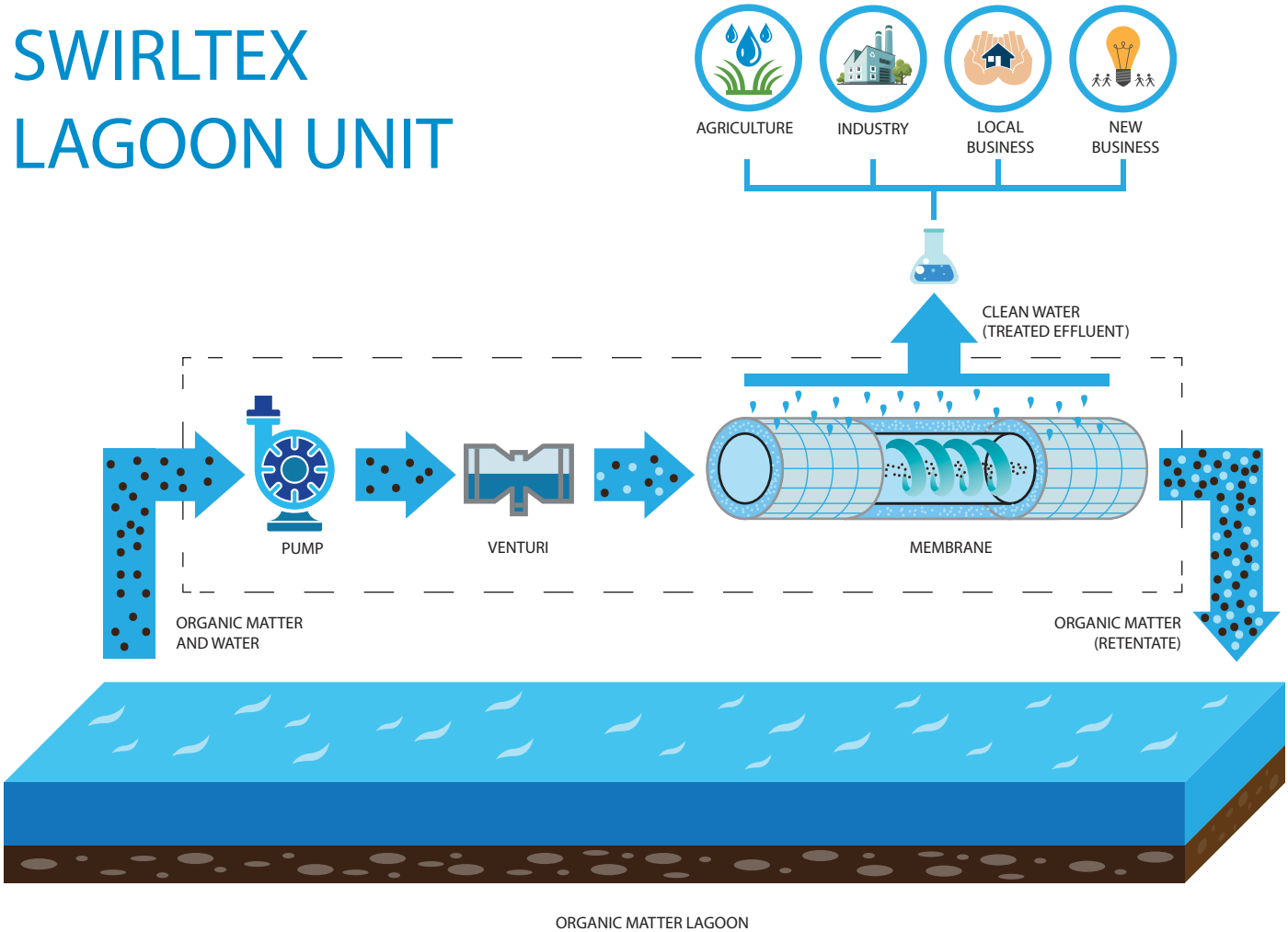
Selectively targeting elements during the removal process allows us to choose which nutrients to leave in. Nitrogen, Phosphorus, Potassium, Calcium and Magnesium can be selectively chosen to remain, creating nutrient rich water for irrigation. Areas where water quality or water scarcity has made agriculture problematic, can now blossom through access to reliable, clean and consistent water.

### Increased Lagoon Capacity and New Business



The waste returning to the lagoon is hyper oxygenated, thereby reducing the biological oxygen demand (BOD) of the lagoon. This results in improved lagoon capacity allowing for increased volume and/or strength of waste. Businesses that require large amounts of water, or produce high volumes and/or concentrations of wastewater, are now able to move into areas which were previously unable to support them.

## SWIRLTEX LAGOON UNIT



### Pricing

Swirltex offers a cost per meter cubed (\$/m<sup>3</sup>) solution, which allows its clients to effectively budget their wastewater treatment costs without having to invest in complex and expensive centralized infrastructure. Working with our customer, we determine the reuse quality standard in order to provide exact pricing for the project. We only charge for what we treat and there is no equipment purchase required. This means there is little to no risk, with tremendous potential. Let us work with you and see what opportunities the Swirltex system can unlock!

