

Sans Souci Couples Resort Wastewater Treatment Plant, Ocho Rios, Jamaica

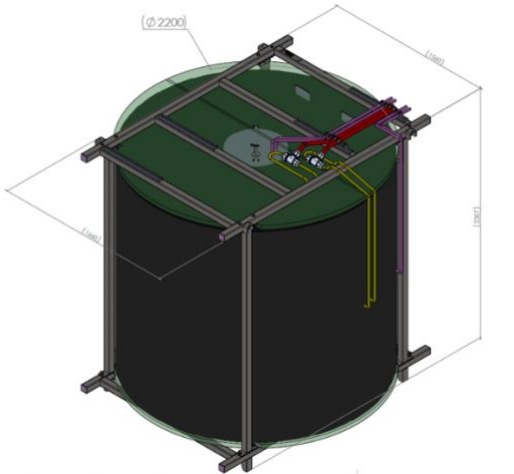
Engineering and Technology Associates Inc. was involved in the implementation of the wastewater treatment plant for the five star all inclusive Sans Souci Couples Resort in Ocho Rios, Jamaica. The plant was designed to meet the requirements during peak occupancy of treating 100 m³/day sewage.

The existing plant did not achieve the effluent requirements set by NEPA and our team deployed the state of the art MABR technology. The project challenge was that the resort could not be closed during the implementation of the new treatment process.

The project was implemented as Build Own Operate Transfer (BOOT) where our partner financed the implementation and provides the operation of the facility. The client is being charged monthly for the sewage treated.



We deployed an Aspiral MABR plant, capable of treating all the sewage generated within the resort. The treated effluent can be discharged to the local drainage and then into the sea, or it can be used for irrigation of the green spaces within the resort.



The entire existing infrastructure (old wastewater treatment plant) was used into the new wastewater treatment configuration, thus minimizing the civil works.



The wastewater treatment plant was commissioned in March 2024 and is currently monitored and operated remotely from US and Israel. The local operator spends less than one hour per day at the facility, mainly visually inspecting the equipment and the tanks.

The wastewater treatment plant consistently achieves a low Total Nitrogen in the effluent of less than 5 mg/L which is well below the limit set by NEPA for discharge of 10 mg/L. Similarly, the Total Phosphorus in the effluent is less than 1.0 mg/L, well below the limit of 4.0 mg/L,

It is envisioned that the resort will be expanded in the near future. Our design/implementation has allowed for easy incorporation of a future Aspiral module to treat the additional flow.