

Project Description

Population	5500	p/day
Daily Hydraulic Load	100,000	l/day
Site Description	Commercial office & Retail space	
Water Source	Black & Grey Water	
End Uses	Toilet Flushing	
	Cooling Tower Top-up	

Plant Description

Treatment Processes	Components	Suppliers
Plant Feed method	Fail Safe Diversion System	Custom Design
Screening	Coarse Screen - Gross Solids Separator	Rocla
	Rotary Drum Screen	Johnson Screens
Flow Equalisation Tank	GRP Custom Tank	Gebel
Biological Treatment	MBR System	Custom Design
Membrane Filtration		Siemens Water Technologies
Chlorine Disinfection	Clear water storage	Pacific Belle
Desalination - Secondary Membrane System	Reverse Osmosis Plant	Amiad
	Pressure	Endress & Hauser
	Level	Endress & Hauser
	Flow	Endress & Hauser
	Dissolved Oxygen	Endress & Hauser
	pH	Endress & Hauser
	Chlorine	Endress & Hauser
	Turbidity	Endress & Hauser
Instruments	Electrical Conductivity	Endress & Hauser
	PLC	Koyo
	HMI	Advantech
Controls	SCADA	IFIX

Treated Water Quality Targets

BOD	<10	mg/L
Suspended Solids	<10	mg/L
Turbidity	<2	NTU
pH	6.5 to 8.5	
E. Coli	<1	org/100mL