

SOUTHERN CROSS

TECHNICAL DATA



Project Description

Population	7500	p/day
Daily Hydraulic Load	100,000	l/day
Site Description	Commercial office space	
Water Source	Black & Grey Water	
End Uses	Toilet Flushing	

Plant Description

Treatment Processes	Components	Suppliers
Plant Feed method	Fail Safe Diversion System	Custom Design
Screening	Rotary Drum Screen	Johnson Screens
Flow Buffer Tank	Custom Stainless Steel	WJP Solutions
Biological Treatment	MBR System	Custom Design WJP Solutions
Membrane Filtration		Siemens Water Technologies
Ultra- Violet Disinfection	UV Plant	Severn Trent
Chlorine Disinfection	Clear water storage	WJP Solutions
Instruments	Pressure	Endress & Hauser
	Level	Endress & Hauser
	Flow	Endress & Hauser
	Dissolved Oxygen	Endress & Hauser
	pH	Endress & Hauser
	Chlorine	Endress & Hauser
	Turbidity	Endress & Hauser
	Electrical Conductivity	Endress & Hauser
Controls	PLC	Koyo
	HMI	Advantech
	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