

ANZ Global Headquarters

Project Description



brilliant solutions
for your water!



Project Description		
Population	6500	p/day
Daily Hydraulic Load	120,000	l/day
Site Description	Commercial office 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	Rotary Drum Screen	Johnson Screens
Flow Equalisation Tank	In-Situ Concrete Tank	Custom In Situ Design
Biological Treatment	MBR System	Custom In Situ Design
Membrane Filtration		Siemens Water Technologies
Chlorine Disinfection	Plug Flow Contactor	Custom Design
Desalination - Secondary Membrane System	Reverse Osmosis Plant	Siemens Water Technologies
Ultra- Violet Disinfection	Validated UV plant	Wedeco
Stabilisation	Calcite Filter	Gebel
Instruments	Pressure	Endress & Hauser
	Level	Endress & Hauser
	Flow	Endress & Hauser
	Dissolved Oxygen	Endress & Hauser
	pH	Endress & Hauser
	Chlorine	Endress & Hauser
	ORP	Endress & Hauser / Georg Fischer
	Turbidity	Hach
Controls	Electrical Conductivity	Georg Fischer
	PLC	Koyo
	HMI	Advantech
	SCADA	IFIX
Validation / Verification Description		
Validation Period (weeks)	12	
Validation Process	To Interim NSW Guidelines for Management of Private Recycled Water Schemes	
Virus in feedwater (10 ^x)	5.8 - 7.3	
Protozoa in feedwater (10 ^x)	4.1 - 5.8	
BOD Removal Efficiency	99.5%	
TKN	99.3%	
TP	99%	
Virus removal efficiency	100%	
Protozoa removal Efficiency	100%	



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