

Attachment 2 - Activated Carbon Filters 060810 JEB				
Item	Units	Value		
Flow Rate	LPS	0.53	Continuous	
		Continuous		
No of Filters	1	1		
Flow per filter	LPS	0.53		
Filter Model	FRF 240	Activated Carbon	6	
Media Type	3	Recommended	Actual	Check
Loading - Continuous (all filters)	cm/sec	0.21	0.18	OK
Calculated Filter Area at Rec Cont Load (all filters)	m2	0.25	0.29	
Filter Diameter			60.96	cm
Design Calculations				
Inlet outlet pipe size			38	mm
Inlet outlet pipe velocity			0.47	m/sec
Backwash flow			1.6	LPS
Backwash rate			0.54	cm/sec
BW pipe size			39	mm
BW pipe velocity			1.32	m/sec
Media			0.23	m3
Bed Depth			0.78	m
Height at 50% bed expansion			1.16	
Backwash time - preset			10	min
Total BW volume			946	liters
Rinse time - preset			10	min
Rinse flow			0.53	LPS
Total Rinse Vol			42	liters
Run time between BW - preset			23	preset
Volume filtered per vessel			43,884	liters