Coagulation					
Section No. 8a	Risk Management Factor		RA Score	Actual Score	
8.1	Manual coagulant dose control – not flow proportional		5	5	
	Manual coagulant pH control				
	Coagulant pH monitored and alarmed		-5		
Total for Section 8a			5		

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	Clarification			
Section No. 8b	Risk Management Factor		RA Score	Actual Score
8.2 Clarified water turbidity monitor/particle counters			-1	0
Clarified w	ater turbidity alarm/particle counters		-1	
		Total for	Section 8b	0

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Rapid gravity and pressure filters		
Section Risk Management Factor No. 8c	RA Score	Actua Score
8.3 Turbidity meter/particle counter on each filter with alarm on telemetr	y -5	10
Turbidity meter/particle counter on each filter but no alarm on teleme	etry 0	
One turbidity meter/particle counter shared by more than one filter w alarm on telemetry	ith -2	
One turbidity meter/particle counter shared by more than one filter bu no alarm on telemetry	1t 2	
No turbidity meters/particle counters monitoring filter performance	10	
8.4 Final water turbidity meter/particle counter with alarm on telemetry	-2	5
Final water turbidity meter/particle counter but no alarm on telemetry	2	
No final water turbidity meter/particle counter	5	area service
8.5 Continuous residual coagulant monitor on combined filtrate or works	-5	5
outlet with alarm		
Continuous residual coagulant monitor on combined filtrate or works outlet but no alarm	-1	
No continuous residual coagulant monitor en combined filtrate or wo outlet	rks 5	
8.6 Routine discrete monitoring of treated water for turbidity/residual coagulant	-2	2
No routine discrete monitoring of treated water for turbidity/residual coagulant	2	
0.7 Typhidity of hoolyyada ayyayada da		
	-2	0
8.7 Turbidity of backwash supernatant monitored when recycled  Turbidity of backwash supernatant not monitored when recycled	2	

	Slow Sand Filters			
No. 8d	Risk Management Factor	RA Score	Actual Score	
CONTRACTOR	Turbidity meter/particle counter on each filter with alarm on telemetry	-5		
•	Turbidity meter/particle counter on each filter but no alarm on telemetry	0		
	One turbidity meter/particle counter shared by more than one filter with alarm on telemetry	-2		
- B	One turbidity meter/particle counter shared by more than one filter but no alarm on telemetry	2		
]	No turbidity meters/particle counters monitoring filter performance	10		
8.9	Final water turbidity meter/particle counter with alarm on telemetry	-2	Police Commence	
	Final water turbidity meter/particle counter but no alarm on telemetry	2		
	No final water turbidity meter/particle counter	5		
	<u>a</u> r			
8.1	Filters matured and filtrate analysed for turbidity, coliforms and	-4		
(	Cryptosporidium during maturation	1		
1	Filters matured but no analysis carried out on filtrate	5	*	
	Filters not matured go ige	15	autorio de la comunicación de la c	
	Total for S	ection 8d	0	
	For its per owner. Total for S			

Section No. 8f	Risk Management Factor	RA Score	Actual Score
8.13 Pla	nt monitored for integrity and correct UV dosage	0	0
Pla	nt monitored and alarmed for integrity and correct UV dosage	-10	
Pla	nt neither monitored nor alarmed	10	
8.14 Infl	uent turbidity consistently < 0.2 NTU	-6	0
Infl	uent turbidity consistently < 1.0 NTU	-3	
Infl	uent turbidity consistently > 1.0 NTU	-1	SUSSIES SESSION
	Tota	l for Section 8f	0

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### Section 9 - Rapid Gravity and Pressure Filter Works Performance

Item No.	Risk Factor	RA Score	Actual Score
9.1	Final water turbidity increases by more than 50%, excluding normal backwash period or turbidity in the final water >1.0 NTU	4	0
	Treated water turbidity increases by less than 50%, excluding normal backwash period and turbidity in the final water <1.0 NTU	0	
9.2	Media loss from any filter has brought media depth below design level	6	-2
	Media depth above minimum design level with audit trail maintained	-2	
9.3	Signs of media cracking on any filter	4	
9.4	All filters have been drained, inspected and any necessary remedial action taken within last year	-2	-2
9.5	Air scour and backwash maintained and operating efficiently as per maintenance manual	-2	-2
	Consent of convinged to what required	ection S	-6

## **Section 10 - Treatment Works Operation**

Item No.	Risk Factor	RA Score	Actual Score
10.1	Plant with documented management systems that includes procedures and process control manuals	-2	
	Process control manuals specific to works available	-1	1
	Process control manuals specific to works not available	1	
10.2	Auditable action plans available for dealing with deviations in quality and evidence of implementation of the plan	-1	1
	Auditable action plans not available for dealing with deviations in quality	1	
100			_
10.3	Slow start facility on filters operational	-4	4
1	No slow start facility on filters, or slow start facility not operational	4	37.7.444
			_
10.4	Filters run to waste for appropriate period after backwash	-6	-6
	Filters run to head of works for a period following backwash	-4	1
a	Filters not run to waste or head of works for a period following backwash	4	
10.5			_
10.5	Backwash water and/or sludge supernatant has to be recycled	-2	-2
	Other disposal route available for backwash water and sludge supernatant	-2	
100			
10.6	Water flow through works when operating has not increased by >10% in <30 minutes in last 12 months	-2	-2
	Water flow through works when operating has increased by >10% in <30 minutes in last 12 months	2	
10	Flow through works above design flow for >10% of time in last 12 months	4	0
	Flow through works above design flow for ≤10% of time in last 12 months	0	
	Flow through works >130% above design flow for >50% of time in last 12 months	6	
400			
10.8	Filters bypassed during the year	6	
	Total for Se	ection 10	-4

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