

Risk Assessment Meeting Information		Potential Hazards					Monitoring Processes			Control Measures										Risk Ranking & CCPs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date of Risk Assessment: March 20, 2025		Loss of Water Source, Production or Supply Source Water or Environmental Contamination Treated Water Contamination Ineffective Chemically-assisted Filtration Inadequate Primary or Secondary Disinfection Sustained Loss of Pressure (System or Localized) Loss of Automation, Instrumentation, Controls or Alarms Loss of Site Access or Security Threat to Personal or Public Health & Safety Facility, Equipment or Property Damage Regulatory Noncompliance Initiates Additional Hazardous Events Continuous Monitoring (Surrogate Parameter) Daily Operational Checks Less Frequent Operational Checks Routine Water Quality Sampling or Testing Monitoring by External Parties Alarm Systems (Including Surrogate Parameters) Preventative Maintenance & Inspection Duty/Standby Configuration Redundant Equipment or Process in Active Service Spare/Repair Parts or Equipment Interchangeability Automatic Shutdown/Process Diversion Capability Isolation and/or Bypass Capability Site Security & Remote/Alternate Facility Access Water Storage Capacity Treatment Processes & Operational Modifications/Manual Operating Procedures Response Procedure(s) (Corporate/System-Specific)	Source Water or Environmental Contamination	Treated Water Contamination	Ineffective Chemically-assisted Filtration	Inadequate Primary or Secondary Disinfection	Sustained Loss of Pressure (System or Localized)	Loss of Automation, Instrumentation, Controls or Alarms	Loss of Site Access or Security	Threat to Personal or Public Health & Safety	Facility, Equipment or Property Damage	Regulatory Noncompliance	Initiates Additional Hazardous Events	Continuous Monitoring (Surrogate Parameter)	Daily Operational Checks	Less Frequent Operational Checks	Routine Water Quality Sampling or Testing	Monitoring by External Parties	Alarm Systems (Including Surrogate Parameters)	Preventative Maintenance & Inspection	Duty/Standby Configuration	Redundant Equipment or Process in Active Service	Spare/Repair Parts or Equipment Interchangeability	Automatic Shutdown/Process Diversion Capability	Isolation and/or Bypass Capability	Site Security & Remote/Alternate Facility Access	Water Storage Capacity	Treatment Processes & Operational Modifications/Manual Operating Procedures	Response Procedure(s) (Corporate/System-Specific)	Emergency Response Procedure Reference										Likelihood	Consequence	Detectability	Overall Risk Value	Critical Control Point?	Critical Control Limit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Risk Assessment Team: Brendan Williams (Operations Manager), Barry Mantle (Regional Manager), Braidy Botel (Operator), Nirav, Chintan, Bharghav, Jessica Happel																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Assigned Risk Ranking Threshold Value (for High-risk Hazardous Events and CCP Determination): 7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Critical Control Limit Information																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Turbidity = filtrate turbidity > 0.25 - 0.30 NTU (high value process alarm set point range that initiates rinse-to-waste for a predetermined amount of time) or filtrate turbidity > 0.4 - 0.7 NTU (high value regulatory alarm set point range with immediate transmission)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Chlorine = free chlorine residual (primary disinfection - Cochenour WTP) < 0.75 - 1.30 mg/L (low value alarm set point range) or free chlorine residual (primary disinfection - Balmertown RPS) < 0.79 - 1.00 mg/L (low value alarm set point range) or free chlorine residual (secondary disinfection) < 0.20 mg/L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Pressure = distribution pressure < 20 - 40 psi (low value alarm set point range)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
AWQI = adverse water quality incident (any adverse test result or observation as prescribed by regulations)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
EHE = evidence of hazardous event (detection of the event by existing monitoring processes)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Mandatory Critical Control Points = Hazardous events marked with an asterisk are considered to be mandatory critical control points, irrespective of whether they exceed the risk ranking threshold value.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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