

SUPPLEMENT S2: WQSRA PRE-PROJECT CHECKLIST (page 1 of 2)			
Water Disruptive Event Project Number:		Facility:	
Event Name:		Department/Location:	
Date:		Project Scope of Work Description:	
<p>Use this document in conjunction with Water Quality and Safety Control Risk Assessment (WQSRA) tool for improving water quality and safety associated with water disruptive events. The objective is to reduce risk of elevated water chemistry levels and/or waterborne pathogen growth and spread in building water distribution systems (BWDS) from water disruptive events (natural disasters or man-made events). Please identify all risk factors within the water disruptive event project scope for civil engineering and building engineering systems. The Pre-project checklist should be reviewed by the water management program (WMP) team to determine likely risk factors. Describe additional information in the Note(s) Section to clarify extent of water disruptive event's project scope.</p>			
YES	NO	CIVIL WATER RISK FACTORS	NOTES SECTION
		Excavation	
		Potential for soil and sediment invasion	
		Describe location(s)	
		Underground utility connections	
		Potential for soil and sediment invasion	
		Repressurization of building main / point-of-entry water system	
		Will the building main entry be shut-down or experience re-pressurization?	
		Site/Civil Water service disruption	
		New construction tie-ins	
		Replacement valves	
		Hydrants	
		Meters	
		Pumping failures	
		Pipeline breaks	
		Other system repairs	
		Emergency conditions	
		Lengthy underground piping connections	
		Site routing of water utility piping	
		Fire hydrant locations and piping routing with dead-ends	
		Distance from building main connection to the street connection/invert	
		Vibration activities	
		Pile Driving/structural foundation	
		Jackhammering	
		Saw cutting	
		What buildings are these activities adjacent to? (i.e. sensitive populations)	
		Demolition Activities	
		Creates air plumes of dust or water aerosoles toward building occupant areas	
		Drift of debris toward cooling towers	
		Drift of debris toward HVAC intake vents	
		Demolishing building water system components	
		Impacting other building water supply connection points	
		Other Site/Civil utility demolition activities	
		Demolishing underground tunnels	
		Utility	
		Walking/ passage / transportation	
		Construction equip with water reservoirs (i.e., typically spray activities)	
		Water tankers	
		Paving equipment	
		Spray nozzles	
		Misters	
		Other (e.g., power washing)	
		Water main disruptions	
		Opportunity for water main breakage	
		Length of shut down in hours/days	
		Off-site construction of municipal water delivery system	
		Central Utility Plant Modifications/Alterations	
		Underground utility connections	
		Cooling Towers	
		Replacement	
		Addition	
		Disinfection of underground utility connections or building	
		Does the project warrant consideration of building water main disinfection?	
		When during the project is this activity scheduled to be performed?	

SUPPLEMENT S2 - WQSRA PRE-PROJECT CHECKLIST (page 2 of 2)				
YES	NO	BUILDING WATER RISK FACTORS		NOTES SECTION
		High Water Age / Stagnation Challenges (Circle One)		
		How long will building water system experience dormancy or shut-downs?		
		≤ 7 calendar days	≤ 30 calendar days > 30 calendar days	
		Inadequate residual disinfectant		
		Is existing disinfectant residual measurement between TRO > 0.5 ppm or < 4.0 ppm / or / FRO		
		> .02 ppm or < 4.0 ppm?		
		Provide verification of existing residual disinfectant measurements		
		Incoming municipal water main		
		Pre - Post water softener		
		Pre - Post RO or other central filtration system		
		Return hot water loop system		
		Distal distribution points on each floor of construction		
		Confirm existing temperature control ranges		
		Hot water storage temperature		
		Hot water range (per WMP at fixture delivery)		
		Cold water range (per WMP)		
		Does the project utilize point-of-use mixing valves?		
		Are mixing valves set to correct temperature per WMP?		
		Unoccupied areas with low or no use - post occupancy		
		Shell or unoccupied areas with water in piping system		
		Low use or low occupancy areas with water in piping system		
		Vibration activities		
		Demolition		
		Jackhammering		
		Saw cutting		
		What departments are above, below, or downstream/near vibration activities?		
		Filtration and Screens		
		Equipment with filters and need for filter replacement		
		Fixtures with point-of-use filters and need for replacement		
		Identify need for new filtration for any equipment, devices, or fixtures		
		Clean fixture components with catchment screens (e.g., shower heads, aerators)		
		Efficiency or safety fixture design		
		Water system design for conservation measures		
		Participating in LEED, WELL, or FitWEL building rating systems		
		Auto-fixtures (electronic, sensor, or push button)		
		Aerators or devices to reduce water flow		
		Ligature-resistant fixtures (i.e., disability, behavioral health, security fixtures)		
		Other - mixed temperature fixtures, etc.		
		Repressurization (start-up and shut-down)		
		Will any part of the building water system experience re-pressurization?		
		Building/Plumbing Water service disruption for repairs or maintenance		
		New construction tie-ins		
		Replacement valves		
		Meters		
		Pumping failures		
		Other system repairs or component replacement		
		Construction equipment with water reservoirs typically with spray activities		
		Showers		
		Spray nozzles		
		Misters		
		Other		
		Disinfection of building water distribution system		
		Does the project warrant performing building water distribution system disinfection?		
		Have ports and isolation valves been installed for this section of the building?		
		When during the project is this activity scheduled to be performed?		
		Is a supplemental disinfection system either existing or planned for the project?		
		Central Utility System Modifications/Alterations		
		Water heaters or heat exchangers		
		Water storage		
		Hot water loop system		
		Boiler system		
		Other central building water system components		