



























WATER : 8 Feature	S	
	W01	Water Quality Indicators
3 Preconditions	W02	Drinking Water Quality
	W03	Basic Water Management
	W04	Enhanced Water Quality
	W05	Drinking Water Quality Management
5 Optimizations 🛁	W06	Drinking Water Promotion
	W07	Moisture Management
	W08	Hygiene Support
		1

WO1 WATER QUALITY INDICATORS

lssue

Total Coliforms & Turbidity are two parameters commonly used to assess the effectiveness of these water treatment systems for the possible presence of other, more concerning contaminants.

Intent

Verify the quality of water for human contact through easy-to-test parameters

Summary

This WELL feature requires the provision of water that meets thresholds for turbidity and coliforms for all water likely to come in contact with building occupants and verifies performance using on-site tests.









W01	WATER QUALITY INDI	CATORS	
		VERIFICATION METHOD	
	PART 1: Verify Water Quality Indicators	Performance Test	







W02 DRINKING WATER QUALITY

Solution

- Activated carbon filters
- Ion exchange resins
- Reverse osmosis (RO) systems
- Evaluating chemical parameters such as **pH and free chlorine** may inform of the potential for the uptake of corrosion byproducts (lead and copper) and/or bacterial growth in drinking water.





W02 DRINKING WATER QUALITY

b. All drinking water dispensers provide water that meets the following parameters:1

- 1. Arsenic ≤ 0.01 mg/L.
- 2. Cadmium ≤ 0.003 mg/L.
- 3. Chromium (total) ≤ 0.05 mg/L.
- 4. Copper ≤ 2 mg/L.
- 5. Fluoride ≤ 1.5 mg/L.
- 6. Lead ≤ 0.01 mg/L.
- 7. Mercury (total) ≤ 0.006 mg/L.
- 8. Nickel ≤ 0.07 mg/L.
- 9. Nitrate ≤ 50 mg/L as Nitrate (11 mg/L as Nitrogen).
- 10. Nitrite ≤ 3 mg/L as Nitrite (0.9 mg/L as Nitrogen).
- 11. Total chlorine ≤ 5 mg/L.
- c. All drinking water dispensers provide water that meets the following parameters:
 - 1. Residual (free) chlorine does not exceed 4 mg/L.
 - 2. The concentration of total trihalomethanes (TTHM, sum of dibromochloromethane,
 - bromodichloromethane, chloroform and bromoform) is 0.08 mg/L or less.
 - The concentration of haloacetic acids (HAA5, sum of chloroacetic, dichloroacetic, trichloroacetic, bromoacetic and dibromoacetic acids) is 0.06 mg/L or less.





		VERIFICATION METHOD
PART 1: Meet Chemical Thresholds		Performance Test
PART 2 Pestici	2: Meet Thresholds for Organics and ides	
PART 2 Pestici	2: Meet Thresholds for Organics and ides Option 1: Drinking water quality report	Technical Document







W03 BASIC WATER MANAGEMENT

Solution

- Basic management for water quality:
 - Monitoring Turbidity, Residual Chlorine and pH
 - Changing Filter
 - Check the building's pipes for leaks or
 - Inquire with the city for major works in the area
- Implementing a proper Legionella management plan



29

W03 BASIC WATER MANAGEMENT

PART 2: Implement Legionella Management Plan

- o Option 1: Legionella plan development
 - Addresses hot water systems, cooling towers, decorative fountains and any other devices or spaces under control of the project where water is recirculated and aerosolized
- o Option 2: Legionella plan implementation
 - Project submits annually through the WELL digital platform documentation of monitoring results, corrective actions and Legionella sample results (if any) as stated in the Legionella management plan

WO	BASIC WATER MANAG	EMENT P
		VERIFICATION METHOD
	PART 1: Monitor Chemical and Biological Water Quality	On-going Data Report
	PART 2: Implement Legionella Management Plan	
	Option 1: Legionella plan development	Technical Document
	Option 2: Legionella plan implementation	On-going Maintenance Report

W04 ENHANCED WATER QUALITY

lssue

 Water may be found unappealing to drink because of taste, odor and appearance concerns such as:

 high levels of chloride contribute to a salty taste and iron can give the water a reddish appearance.

Intent

Provide access to drinking water without unpleasant taste, odor and appearance.

Summary

This WELL feature requires projects to provide drinking water that meets thresholds on chemicals that affect aesthetics and taste concerns.

33



Solution

- Filtration with Carbon media
- Reverse osmosis
- Kinetic Degradation Fluxion (KDF)



 \bigcirc

 \bigcirc





WO4 ENHANCED WATER QUALITY VERIFICATION METHOD PART 1: Meet Thresholds for Drinking Water Taste Part Taste



W05 DRINKING WATER QUALITY MANAGEMENT

Solution

- Understanding quality of incoming water
- Testing and analysis of historical data
- Filters or UV disinfection units
- Periodic water monitoring
- Availability of water quality results



39

W05 DRINKING WATER QUALITY MANAGEMENT

PART 1: Assess and Maintain Drinking Water Quality

- o Option 1: Water quality pre-test
 - The project pre-tests water at least one month before Performance Verification for the parameters like Turbidity, Coliforms, pH, Total Dissolved Solids (TDS), Total Chlorine, Residual (free) chlorine, Arsenic, Lead, Copper, Nitrate and Benzene.
- o Option 2: Water quality monitoring
 - Water is tested **quarterly in drinking water dispensers** and all test results are submitted annually through the WELL digital platform.

 \bigcirc

W05 DRINKING WATER QUALITY MANAGEMENT

PART 2: Promote Drinking Water Transparency

- Water quality results from the most recent sampling, including date of testing and compliance with WELL thresholds.
- If filters or other treatment units are in use, information about the treatment technologies and most recent date of device maintenance and/or filter cartridge replacement.

W05 MA	DRINKING WATER QUANAGEMENT	ALITY	
		VERIFICATION METHOD	
	PART 1: Assess and Maintain Drinking Water Quality		
	Option 1: Water quality pre-test	Technical Document	
	Option 2: Water quality monitoring	On-going Data Report	
	PART 2: Promote Drinking Water Transparency	Policy and/or Operations Schedule	

W06 DRINKING WATER PROMOTION

lssue

- People in many parts of the world do not hydrate enough to meet health guidelines.
- Pollution produced by single use plastic products is a rising public health issue that requires a comprehensive toxicological assessment.

Intent

Promote proper hydration through the consumption of drinking water over less healthy alternatives by promoting access to drinking water of verified quality.

Summary

This WELL feature requires readily available and maintained dispensers for drinking water.

43



Solution

- To make water easily available and removing barriers to accessibility.
- Keep water dispensers in a state of good repair to encourage continued water consumption.



 \bigcirc

W06 DRINKING WATER PROMOTION

PART 1: Ensure Drinking Water Access

- Option 1: Dispenser availability
 - At least one drinking water dispenser (minimum one per floor) is located within a 100 ff (30 m) walk distance of all regularly occupied floor area and in all dining areas.
 - Water delivered by the dispensers is directly piped through the building's water supply or is stored in containers designed for refilling.
 - All newly installed drinking water fountains are designed for water bottle-refilling.
- Option 2: Dispenser maintenance
 - The mouthpieces/outlets, protective guards, aerators (if present), basins and touch points are cleaned on a daily basis.





W07 MOISTURE MANAGEMENT

lssue

Excess moisture and dampness is a common problem in buildings.
Moisture can damage the building itself by creating an environment hospitable to insects and other destructive pests, corroding metal components and degrading wood and porous building material.

Intent

Limit the potential for bacteria and mold growth within buildings from water infiltration, condensation and internal leaks.

Summary

This WELL feature requires projects to develop strategies to minimize the presence of unintentional water and, when unavoidable, to manage it through material selection and inspections.



 \bigcirc

W07 MOISTURE MANAGEMENT

Solution

- Through effective design of the building's curtain wall, water piping assemblies and ventilation systems, and selecting appropriate materials
- Inspections are needed to both verify that design and operations properly safeguards against mold growth
- Also inform the need for preventative maintenance.



49

W07 MOISTURE MANAGEMENT

PART 1: Design Envelope for Moisture Protection

- Verification of site drainage and storm water management during building construction phase
- Air tightness testing to assess water vapor transfer
- Entryway design that considers at least three strategies to minimize the ingress or permeation of water into the building
- Installation of a continuous drainage plane, interior to the exterior cladding
- Minimization of capillary suction (wicking) in porous building materials through free-draining spaces or non-porous materials

 \bigcirc





W07 MOISTURE MANAGEMENT

		VERIFICATION METHOD
PART 1: Protecti	Design Envelope for Moisture on	Professional Narrative
PART 2: Design Interiors for Moisture Management		
	Option 1: Condensation and liquid water management	Professional Narrative
	Option 2: Water leak control in fixtures	On-site Photographs, Letter of Assurance – Engineer
PART 3: Manage	Implement Mold and Moisture ment Plan	
	Option 1: Operational moisture management	Policy and/or Operations Schedule
	Option 2: Leaks and mold inspections	On-going Maintenance Report



W08 HYGIENE SUPPORT

lssue

- · Women often lack necessary bathroom accommodations
- Caregivers, small children, older adults lack access
- Sinks may harbor pathogenic bacteria
- Water splashing from the drain
- Soap and the inside of liquid soap liquid soap containers remain contaminated after use

Intent

Ensure availability of bathrooms and support hygienic hand washing and toilet use practices for all individuals

Summary

This WELL feature requires projects to provide bathrooms that accommodate users with diverse needs and to improve hygiene by offering large sinks, soap containers, hand drying support and reduced touch points.

55

W08 HYGIENE SUPPORT

Solution

- Bathrooms can be designed and furnished to ease hygiene
- Trash receptacles, baby changing stations, large sinks, fragrance-free soap, hand dryers and fixtures that minimize unnecessary contact with the hands can be provided
- Single-user facilities with gender neutral signage
- Visual cues that promote hand hygiene







W08 HYGIENE SUPPORT

PART 1: Provide Bathroom and Handwashing Accommodations

For All Spaces except Dwelling Units:

- Option 3: Handwashing support
- Fragrance-free liquid hand soap dispensed through sealed dispensers equipped with disposable soap cartridges or dispensers with detachable and closed containers for soap refill.
- Hand drying method through paper towels or hand dryers equipped with a HEPA filter or fabric hand towel rolls with dispensers, with rolls replaced before reaching their end of service.
- Signage displaying steps for proper hand washing.



W08 HYGIENE SUPPORT

PART 2: Enhance Bathroom Accommodations

- Toilets are equipped with hands-free flushing.
- Contactless soap dispensers and hand drying.
- Users can exit the bathroom hands-free.
- Faucets meet the following:
 - $_{\circ}\,$ Sensor-activated.
 - Equipped with a programmable line-purge system.
 - o If mixing is used, hot- and cold-water lines are mixed at the point of use.



W08 HYGIENE SUPPORT			Ű
		VERIFICATION METHOD	
P A R T Acco	1: Provide Bathroom and Handwashing		
	Option 1: Bathroom Accommodations	On-site Photographs, Letter of	
	Option 2: Family bathrooms	Assurance – Designer	
Option 3: Handwashing support		Policy and/or Operations Schedule	
	Option 1: Provide Handwashing Signage in Commercial Kitchens (For Commercial Kitchen Spaces & Commercial Dining Spaces)	On-site Photographs	
PART	2: Enhance Bathroom Accommodations	On-site Photographs, Letter of	
PART	3: Support Effective Handwashing	Assurance – Designer	



WATER : 8 Features

Our Project - Strategies

WATER			0 POINT
Y?N	Weight	ID	Part Name
Y	Required	W01.1	Verify Water Quality Indicators
Y	Required	W02.1	Meet Chemical Thresholds
Y	Required	W02.2	Meet Thresholds for Organics and Pesticides
Y	Required	W03.1	Monitor Chemical and Biological Water Quality
Y	Required	W03.2	Implement Legionella Management Plan
	1 point	W04.1	Meet Thresholds for Drinking Water Taste
	2 points	W05.1	Assess and Maintain Drinking Water Quality
	1 point	W05.2	Promote Drinking Water Transparency
	1 point	W06.1	Ensure Drinking Water Access
	1 point	W07.1	Design Envelope for Moisture Protection
	1 point	W07.2	Design Interiors for Moisture Management
	1 point	W07.3	Implement Mold and Moisture Management Plan
	2 points	W08.1	Provide Bathroom and Handwashing Accommodatic
	1 point	W08.2	Enhance Bathroom Accommodations
	1 point	W08.3	Support Effective Handwashing
	2 points	W09ß.	1Implement Safety Plan for Non-Potable Water
			Capture and Reuse

W01	Water Quality Indicators
W02	Drinking Water Quality
W03	Basic Water Management
W04	Enhanced Water Quality
W05	Drinking Water Quality Management
W06	Drinking Water Promotion
W07	Moisture Management
W08	Hygiene Support

65



Knowledge of:

- 1. The impact of water quality and moisture in buildings on human health
- 2. Methods to prevent microbial growth.
- 3. Health-related and aesthetic water quality thresholds.
- 4. Causes and effects of excess moisture in buildings.
- 5. Strategies for hygiene support.

Skills In:

- 1. Analyzing the water quality results from on-site and laboratory testing to inform decision-making.
- 2. Recommending treatment methods for water quality improvement.
- 3. Promoting proper hydration and access to drinking water that meets water quality thresholds.
- 4. Recommending protocols for water quality monitoring.
- Assessing building design strategies and operational procedures intended for effective moisture management.
- Assessing building design and operational procedures for bathroom accommodations, hand washing stations, and hygiene amenities.
- 7. Assessing compliance with water safety and management plans.

