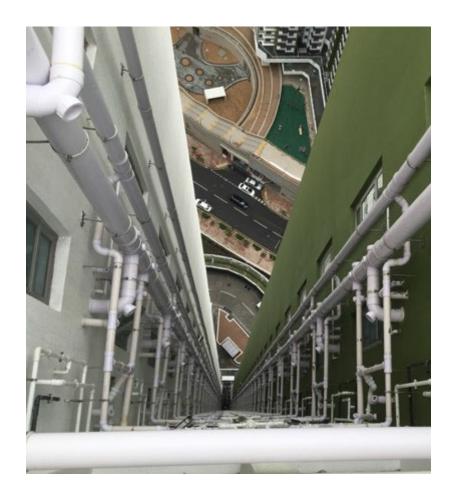
Annex I – Template for General Buildings

Drinking Water Safety Plan Template for General Buildings in Hong Kong*



Water Supplies Department Hong Kong Special Administrative Region Government

* This template is applicable to general buildings such as residential or office buildings

Guidelines for Drinking Water Safety Plans for Buildings in Hong Kong

Annex I – Template for General Buildings

Explanatory Notes:

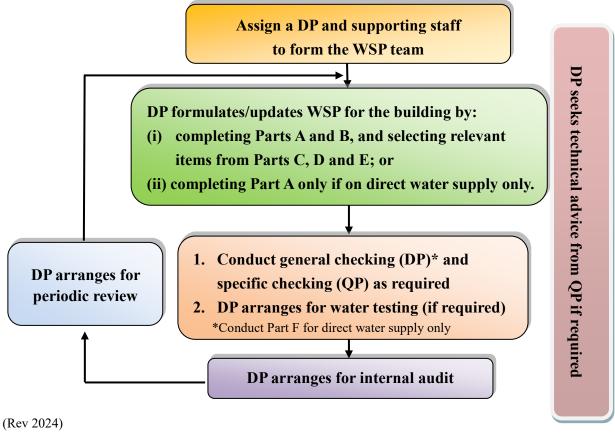
- 1. This template is prepared based on recommendations of the World Health Organization (WHO) to assist the owner or property management agent of a general building (e.g. residential or office buildings) to develop and implement Water Safety Plan (WSP) to enhance water safety. It covers the essential elements of WSPs and common requirements applicable to plumbing layout of general buildings. The template comprises the following components:
 - Introduction
 - Part A General Description of the Building
 - Part B Water Supply Flow Diagrams
 - Part C Risk Assessment Summary Table for the Building
 - Part D Routine Water Safety Checklist for the Building (Based on Components of Checking)
 - Part E Routine Water Safety Checklist for the Building (Based on Persons Responsible for Conducting Checking)
 - Part F Routine Checklist for the Building on Direct Water Supply only
- 2. A Designated Person (DP) should be assigned by the owner or property management agent to oversee the development and implementation of the WSP. DP can be a person familiar with the operations of the building, e.g. the property management officer. DP should be supported by other administrative, maintenance or technical staff to form a WSP team. If required, DP may seek technical advice from a Qualified Person (QP) (such as a Licensed Plumber (LP)) for the development and implementation of the WSP.¹
- 3. DP should complete Parts A and B as far as possible with the support from the WSP team members. He/She should then review Part C and select those items applicable to the building. For instance, items related to water storage tanks are not relevant to a building without such tanks. DP should similarly select relevant items in Part D and Part E² to form a water safety checklist.
- 4. DP should perform general routine checking duties <u>and</u> engage QP to conduct specific routine checking according to the checklist.

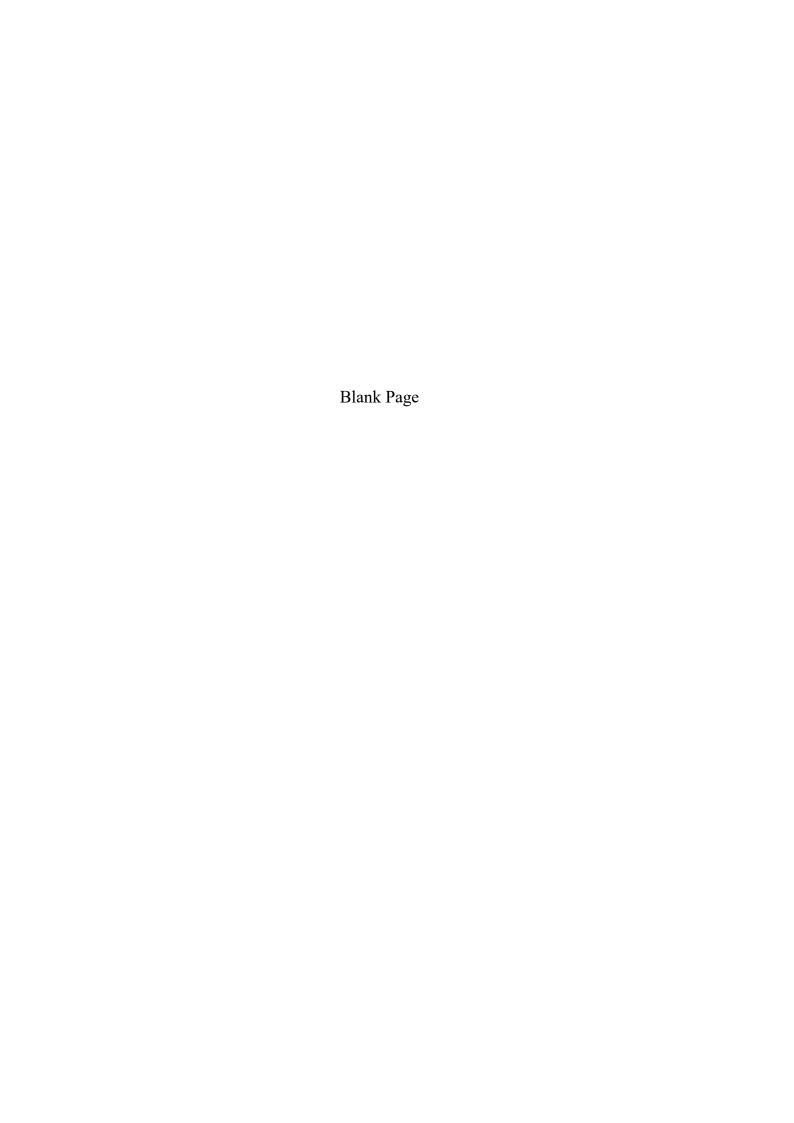
¹ If necessary, DP may engage relevant consultants to provide technical support. Lists of QPs and consultants trained in WSP for buildings are available from the Water Supplies Department's website (https://www.wsd.gov.hk/en/water-safety/qualified-persons/index.html).

² Parts D and E contain the same checking items listed out in different formats. (Rev 2024)

Annex I – Template for General Buildings

- 5. For a building on direct water supply only, the internal plumbing system is relatively simple and DP may complete Part A and perform routine checking directly in accordance with Part F.
- 6. Water testing is normally not required for a general building under WSP. Please see Section 4.16 of the Guidelines for details.
- 7. DP should arrange an internal audit at least once every two years. The auditor can be an internal staff or independent party who is not involved in the implementation of WSP. Among other aspects, the auditor should check whether (i) the WSP is up to date and generally accurate; (ii) conditions of the plumbing components tally with the checking records; (iii) staff are trained and competent to carry out the routine checking; and (iv) the documents and records are complete. Inspection of records and plumbing components by sampling should normally be sufficient.
- 8. DP should also arrange a periodic review at least once every two years and following major modifications of the plumbing systems for updating of the WSP as well as addressing the audit findings and other improvements, where applicable. Discussion over the WSP in a scheduled staff meeting with records can serve the purpose.
- 9. The steps for the development and implementation of WSP for a general building are summarised in the following figure.





Water Safety Plan for <Name of Building>

	Insert a photograph of the building here
	<name company="" management="" of="" property=""> <month &="" (of="" issuing)="" year=""></month></name>
Version N Holder: Prepared	

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Introduction

- 1. Water Safety Plan (WSP) was introduced by the World Health Organization (WHO) in 2004 as an effective means of consistently ensuring safety of drinking water supply through risk assessment and risk management.
- 2. Based on WHO's recommendations, this plan contains the essential elements of WSP with a view to preventing contamination of drinking water in the inside service. The plan is composed of the following parts:
 - Part A General Description of the Building
 - Part B Water Supply Flow Diagrams
 - Part C Risk Assessment Summary Table for the Building
 - Parts D and E Routine Water Safety Checklist for the Building
 - Part F Routine Checklist for the Building on Direct Water Supply only
- 3. Part A contains a brief description of the building's characteristics including the Designated Person (DP) assigned to oversee the development and implementation of the WSP.
- 4. Part B contains the schematic flow diagrams indicating the essential plumbing components of the building.
- 5. Part C contains a summary of risk assessment on the building's plumbing system.
- 6. Parts D and E are the routine water safety checklists summarising the checking duties undertaken by DP and Qualified Person (QP) based on the risk assessment.
- 7. Part F is the routine checklist summarising the checking duties undertaken by DP for buildings on direct water supply only, completion of Parts B to E is not required.
- 8. DP performs the general checking duties and a QP is engaged to conduct specific checking according to the checklist.
- 9. DP arranges internal audits at least once every two years to verify effectiveness of the WSP.
- 10. DP periodically reviews the WSP at least once every two years and following major modifications of the plumbing systems.

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Part A **General Description of the Building**

Item	Details
Publication Date and version of WSP	Publication Date:
1 ublication Date and version of wish	Version:
Person responsible for this WSP	Name:
(Designated Person) ³	Position:
Contacts of DP	Telephone:
Contacts of D1	Email:
Name of Building	
Address of Building	
Building Owner (if applicable)	
Building Management Agent	
(if applicable)	
Building Maintenance Agent	
(if applicable)	
Lot Boundary (or Location Map4)	
No. of Blocks	
No. of Flats	
No. of Residents/Users	
Water connection notification or	□ No
certificate references	Yes, file ref. of notification or certificate ref. no. issued
	by the WSD:
	□ No
Plumbing line diagrams ref. nos. ⁵	
	☐ Yes, plumbing line diagrams ref. nos. :

It is recommended that a Designated Person (DP), such as the property management officer, be assigned to oversee implementation of the WSP.
 For instance, extracted from Geoinfo Map (https://www.map.gov.hk).
 If not available, it is recommended that suitable drawings be created for the building.

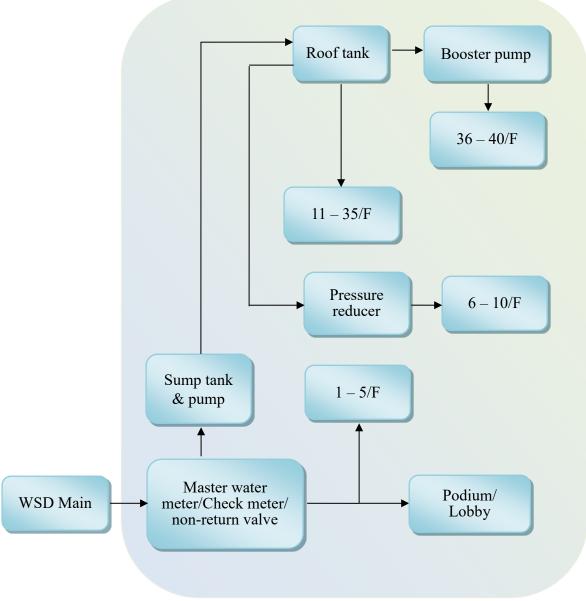
Item	Details				
	(i) Potable water				
	(ii) Seawater flushing water				
	(iii) Air-conditioning cooling water				
	(iv) Fire service water				
Types of water supply present on site	(v) Roof-harvested rainwater				
(cross out or add items as appropriate)	(vi) Process water (e.g. distilled or reverse-osmosis				
(cross out of add items as appropriate)	water for boiler)				
	(vii) Recycled/reclaimed rainwater or sewage				
	(viii) Other (please specify)				
	□ No				
	☐ Yes (please provide the following information)				
	Test parameters (this may refer to a separate schedule):				
Water Quality Testing					
_	Last testing on:				
	Test report ref. no.:				
	Next testing scheduled:				
	Auditor Name:				
	Type (please select):				
	☐ Internal staff				
WSP audit ⁶	☐ Independent party				
wsP audit*					
	Last audit on:				
	Audit report ref.:				
	☐ Indirect water supply				
	Please complete Parts B to E				
Water Supply Mode	·				
	☐ Direct water supply only				
	Please complete Part F				

⁶ The auditor can be an internal staff or independent party who is not involved in the implementation of WSP. Preferably, the auditor shall have undergone training related to internal audit of quality management system.

Part B Water Supply Flow Diagrams

Based on as-built plumbing line diagrams ref. nos. xxxx (if applicable)⁷ (Illustrative Examples)

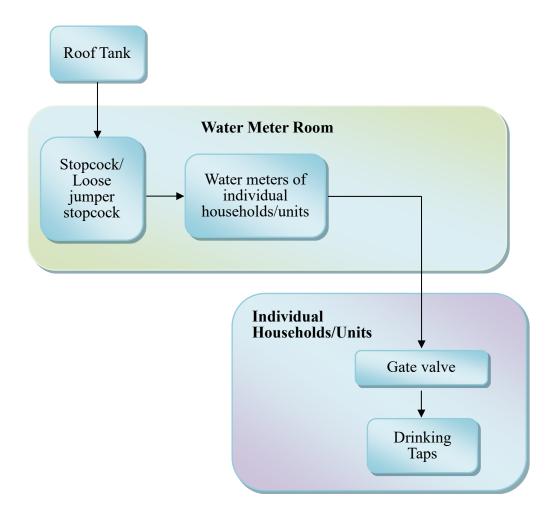
1. Water supply flow diagram for an individual block* Name of block:



^{*}Where applicable, indicate any communal taps, water dispensers, etc. for drinking or food preparation, e.g. "Drinking tap at pantry on 2/F".

If the latest as-built drawings are not available, please indicate how the schematic diagrams are constructed, e.g. "Based on inspection undertaken by [name of QP] in [Month-Year]"

2. Water supply flow diagram for individual floor or household



Part C Risk Assessment Summary Table for the Building⁸

	Hazards / Hazardous Events	Likelihood	Consequence	Risk	Recommended Control Measures	Recommended Monitoring Procedures
1.	Stagnation of water leading to stale water with possible slime or biofilm formation.	Likely	Minor	Moderate	 Minimise dead-legs in plumbing system Respond to residents' complaints on water quality 	1. Carry out plumbing works following WSD's instructions and arrange for submissions and inspection as required. Maintain copies of the submitted documents (By DP and LP)
					3. Remind residents to flush idle or infrequently-used taps4. Flushing before first occupancy and after major plumbing works as well as after prolonged periods of non-use	2. Check if residents have been reminded to flush idle or infrequently-used taps by posting, notice boards or other means (By DP)
					5. Install backflow prevention devices to prevent backflow of water from known dead-legs into the main water supply	3. Review and set up flushing programme with LP and conduct flushing of:
		D		T	system where applicable	a. known dead-legs (if present)
2.	Stagnation combined with excessive warming (exceeding 25°C) of water leading to possible growth of pathogens to	Rare	Major	Low		b. idle or infrequently-used taps (if present)
	elevated levels.					c. prior to first occupancy after building construction or plumbing modification
						d. in response to residents noticing water quality problems
						(By DP)
						4. Inspect and maintain backflow prevention devices (By LP)
3.	Excessive leaching of hazardous metals (e.g. lead, copper, cadmium, chromium, antimony, nickel, or iron from metal pipes or plasticisers from plastic pipes).	Likely	Moderate	High	 Carry out plumbing works in accordance with WSD's instructions Use plumbing materials approved by WSD 	1. Engage LP to carry out plumbing works and arrange for submissions and inspection according to WSD's instructions. Maintain copies of the submitted documents (By DP)
						2. Check if residents have been reminded to use WSD-approved
4.	Ingress of hazardous organics (e.g. petrochemicals or paint strippers) through plastic pipes.	Likely	Moderate	High	3. Remind residents to flush idle or infrequently-used taps4. Flushing before first occupancy and after major plumbing	plumbing materials for all new plumbing works and repair or replacement by posting, notice board or other means (By DP)
					works as well as after prolonged periods of non-use 5. Install backflow prevention devices to prevent backflow o contaminated water into the main water supply system	3. Check if residents have been reminded to flush idle or infrequently-used taps by posting, notice boards or other means (By DP)
					where applicable	4. Review and set up flushing programme with LP and conduct flushing of:
						a. known dead-legs (if present)
						b. idle or infrequently-used taps (if present)
						c. prior to first occupancy after building construction or plumbing modification

⁸Note:

- (i) A directory of approved plumbing components is available via: http://www.wsd.gov.hk/en/plumbing-engineering/pipes-and-fittings-to-be-used-in-inside-service-or/index.html
- (ii) DP refers to the Designated Person who oversees implementation of the WSP.
- (iii) LP refers to Licensed Plumber as an example of those qualified professionals who are competent and engaged by DP to carry out the duties. LP is used as an example in the table primarily to enhance comprehensibility of users.
- (iv) Please see Part D for frequency of checking and corrective actions.
- (v) Content of the table may be modified as appropriate subject to the building's risk assessment.
- (vi) Tips for using wall-mounted dispensers are available via: http://www.wsd.gov.hk/filemanager/en/share/pdf/tips_for_using_wall_mounted_dispensers_e.pdf
- (vii) Please refer to WSD's "Technical Requirements for Plumbing Works in Buildings" for the requirements of installing backflow prevention devices for water dispensers (https://www.wsd.gov.hk/en/plumbing-engineering/requirements-for-plumbing-installation/technical-requirements-for-plumging-works-in-bldgs/index.html)
- (viii) Procedure for cleansing water tanks is available via: https://www.wsd.gov.hk/en/faqs/index.html#12-205. DP shall ensure that all rinsing water of the tanks is drained away before refilling with fresh water.

Hazards / Hazardous Events	Likelihood	Consequence	Risk	Recommended Control Measures	Recommended Monitoring Procedures
					d. in response to residents noticing water quality problems
					(By DP)
					5. Inspect and maintain backflow prevention devices (By LP)
5. Cross-connection between potable* and non-potable water supplies leading to unpleasant taste (e.g. saltiness), odours or hazardous substances (e.g. pathogens from non-potable water)	Rare	Major	Low	Carry out plumbing works according to WSD's instructions and avoid cross-connection in plumbing system	Engage LP to carry out plumbing works and arrange for submissions and inspection according to WSD's instructions. Maintain copies of the submitted documents (By DP)
* Potable water refers to water for drinking, food preparation and hygienic				2. If applicable, set pump pressures so that the potable water is at higher pressure than all non-potable water (typically with the potable water system being at least 50 kPa above	2. Set and check set points for pump pressure and pressure reducing valve (By LP)
uses such as bathing, showering, hand washing, etc.				the non-potable water system pressure) to prevent non- potable water from flowing into the potable water	3. Inspect and maintain water pumps (By DP and LP)
				3. Retain as-built drawings and plumbing diagrams for all	4. Regular inspection of roof tank levels (By DP)
				plumbing works and plumbing modifications following completion of works as far as practicable	5. Check if as-built plumbing drawings have been updated following plumbing works (By DP)
				4. Install backflow prevention devices to prevent backflow of non-potable water into the potable water supply system	6. Inspect and maintain backflow prevention devices (By LP)
				5. Clearly differentiate potable and non-potable water pipes/tanks using labels/colours as far as practicable	7. Check if potable and non-potable pipes/tanks have been differentiated with labels/colours (By DP and LP)
				6. Ensure potable water taps are not connected to the non-potable water system (if present)	8. Check if labels/colour markings on potable and non-potable water pipes/tanks are intact (where applicable) (By DP)
				potable water system (if present)	9. Conduct flow tests after construction or modifications of plumbing system to demonstrate that potable water are not connected to the non-potable water system (where applicable) (By DP and LP)
6. Ingress of contaminants due to pipe breaks, leakages or plumbing modifications and loss of water pressure leading to	Rare	Major	Low	Carry out plumbing works in accordance with WSD's instructions	1. Engage LP to carry out plumbing works according to WSD's instructions (By DP)
unpleasant taste, odours or hazardous substances entering the potable water system.				2. Maintain sufficient water pressure 2. Else la incompatible de la compatible de la comp	2. Set and check set points for pump pressure, roof tank level and pressure reducing valve (By LP)
				3. Flush pipes and fittings to bring in clean water and flush out any possible contamination that may have entered via leaks	3. Inspect and maintain water pumps (By DP and LP)
				following loss of water pressure 4. Repair and replace leaking pipes, joints or fittings	4. Regular inspection of roof tank levels (By DP)
				4. Repair and replace leaking pipes, Johns of Hungs	5. Ensure sufficient flushing after plumbing modifications or loss of water pressure (By DP and LP)
					6. Inspection of inside service for leaks (By DP)
7. Backflow of hazardous substance into potable water system leading to unpleasant taste, odours or hazardous substances	Rare	Major	Low	Carry out plumbing works in accordance with WSD's instructions	1. Engage LP to carry out plumbing works and arrange for submissions and inspection according to WSD's instructions.
entering the potable water system.				2. Maintain sufficient water pressure	Maintain copies of the submitted documents (By DP)
				3. Install backflow prevention devices between the water supply plumbing and any possible connection to any	2. Set and check set points for pump pressure, roof tank level and pressure reducing valve (By LP)
				potentially hazardous liquid to prevent backflow of contaminated water into the potable water supply system	3. Inspect and maintain water pumps (By DP and LP)
				(where applicable)	4. Regular inspection of roof tank levels (By DP)
					5. Inspect and maintain backflow prevention devices (By LP)

	Hazards / Hazardous Events	Likelihood	Consequence	Risk	Recommended Cont	rol Measures	Recommended Monitoring Procedures
8.	Entry of hazardous substances into potable water tanks (sump tank or roof tank) leading to unpleasant tastes, odours or hazardous substances present in the potable water system.	Rare	Catastrophic	Low	 Ensure proper design, construent water storages such as sump and Keep sump and roof tank room 	action and maintenance of d roof tanks	1. Engage LP to construct storage tanks and arrange for submissions and inspection according to WSD's instructions. Maintain copies of the submitted documents (By DP)
					3. Keep sump and roof tank acces		2. Inspect sump and roof tank rooms (if available) and tank covers (By DP)
					4. Prevent entry of birds, animal tanks by sealing all holes and overflow pipes using gnaw-pro	d protecting any vents and	3. Inspect air vents and overflow pipes of sump and roof tanks (By DP)
					5. Ensure cleanliness of sump and	l roof tanks e.g. through DP	4. Inspect sump and roof tank interiors (By DP)
					inspecting and arranging clean as required	sing of sump and roof tanks	5. Arrange for regular cleansing of sump and roof tanks in accordance with WSD's instructions (By DP)
					 Ensure no water and det accumulation on exposed tank free from blockage 		6. Inspect exposed tank and rainwater drains (By DP)
9.	Alterations to plumbing by persons who are not properly authorised, licensed or trained leading to contamination of the water supply through a range of pathways	Likely	Moderate	High	 Carry out plumbing works instructions Use plumbing materials approv 		1. Engage LP to carry out plumbing works and arrange for submissions and inspection according to WSD's instructions. Maintain copies of the submitted documents (By DP)
					. Install backflow prevention devices between the water supply plumbing and any possible connection to any potentially hazardous liquid to prevent backflow of	devices between the water ossible connection to any	2. Check if residents have been reminded to use WSD-approved plumbing materials by posting, notice boards or other means (By DP)
					contaminated water into the p (where applicable)	otable water supply system	3. Inspect and maintain backflow prevention devices (By LP)
					 Clearly differentiate potable and non-potable water pipes/tanks using labels/colours as far as practicable Provide advice to residents and owners about the importance of not carrying out inappropriate alterations 	and non-potable water	4. Check if potable and non-potable pipes/tanks have been differentiated with labels/colours (By DP and LP)
						and owners about the	5. Check if labels/colour markings on potable and non-potable water pipes/tanks are intact (where applicable) (By DP)
					plumbing		6. Check if residents have been reminded not to carry out inappropriate plumbing alterations by posting, notice boards or other means (By DP)
10.	Contamination of drinking water due to inappropriate installation, operation or maintenance of POU devices fitted to	Rare	Major	Low	Ensure selection and proper model of POU devices	installation of appropriate	1. Consult Qualified Persons (QPs) for selection of POU devices, e.g. appropriately certified products (By DP)
	drinking taps or connected to the water mains				2. Ensure POU devices are proper	ly operated and maintained	2. Engage LP to install POU devices according to manufacturer's product instructions and WSD's plumbing instructions (By DP)
							3. Operate, inspect and maintain POU devices, including change of filter cartridges according to manufacturer's product instructions (By DP)
							4. Review, set up and conduct flushing programme for wall-mounted dispensers and inlet pipes according to drinking habit (By DP)

Part D Routine Water Safety Checklist for the Building (Based on Components of Checking)⁹

Location of check or action	Typical frequency of check or action	Typical person responsible for check or action ¹⁰	Item to check or action to be completed and target to be achieved	Hazard/ Hazardous Event No. in Part C	Corrective action to take if target is not achieved	
			The tank room (if available) is locked and secure		Secure and lock the tank room	
			The tank access hatch is locked and secure		Secure and lock the tank access hatch	
			No holes, gaps or entry points through which insects, animals or birds could enter		Repair any holes or replace part that has holes	
Water storage tanks	Every 3 months	DP	Tank vents and overflow pipes have fine, gnaw-proof mesh and the mesh is secure without signs of wearing	8	Repair or plan to replace any mesh that is not secure or shows signs of wearing	
(sump tank, roof tank, header			Tanks are clean inside and are free of foreign materials or deposits		Arrange cleansing of the tanks	
tank or any other storage tanks)			No water and debris (leaves, twigs, etc.) accumulated on exposed tank roof and the rainwater drains are free from blockage ¹¹		Remove accumulated water and debris and clear rainwater drains	
	Half yearly	DP	Tanks are cleansed every 6 months ¹²		Arrange cleansing of the tanks	
	Annually	LP	Potable water roof/header tank levels are set to provide sufficient water pressure and level switch top up control is functioning correctly	5-7	Adjust level settings if required and make any necessary repairs	
	Every 3 months	DP	There is no leakage		Repair or replace the leaking part	
		DP	There is no unusual noise during pump operations		Repair or replace the pump	
2. Water pumps	Annually	LP	Pump pressure set points are correctly adjusted to provide sufficient water pressure and the pressure measurement devices and pumps are functioning correctly	5-7	Adjust pressure settings if required and make any	
(sump pumps in the lower levels or booster pumps in the intermediate or higher levels)		LP	Pressure set points for the potable water are higher (typically by at least 50 kPa, if feasible) than for non-potable water (where applicable)		necessary repairs	
intermediate of higher levels)	Annually (or according to supplier's instructions)	LP	Maintain pumps as recommended by the supplier (this may entail actions such as replacing worn parts, bleeding air and lubricating to minimise noise and risk of failure) and check for evidence of parts being badly worn		Replace badly worn parts in good time so that the pump doesn't fail resulting in a loss of pressure	
3. Pressure reducing valves	Appually	LP	Pressure reducing valve set points are correctly adjusted to provide sufficient water pressure and the pressure measurement devices are functioning correctly	5-7	Adjust pressure settings if required and make any	
3. Fressure reducing varves	Annually	Lr	Pressure set points for the potable water are higher (typically by at least 50 kPa, if feasible) than for non-potable water (where applicable)	3-7	necessary repairs	
4. Water meters	Annually	LP	Backflow prevention devices are in place as required under the WSD requirements and are found to be functioning correctly ¹³	1-5, 7 & 9	Install backflow prevention devices if missing and replace any faulty backflow prevention devices	
5. Pipes, joints and fittings	Every 3 months	DP	Confirm that there are no leaks in pipes, joints or fittings that might indicate pipe failure and the possibility of ingress of contaminated water via the leaks if water pressure is lost	6	Ask LP to replace or repair leaking pipes or joints and to check other nearby pipes or joints of similar age to see if preventive replacement is required	
	Annually	DP	Confirm that labels/colour markings on water pipes/tanks are clear to differentiate between potable and non-potable water systems (where applicable)	5 & 9	Add or replace any missing or unclear labels/colour markings	

⁹ Building owner/management is encouraged to incorporate the Checklist into the building's routine maintenance schedule. The table may be rearranged according to location, check frequency or person responsible for the checklist may be modified as appropriate subject to the building's risk assessment.

10 LP refers to Licensed Plumber as an example of QPs and consultants who are competent and engaged by DP to carry out the duties. LP is used as an example in the table primarily to enhance comprehensibility of users.

¹¹ Rainwater drains may be checked and cleared more frequently during typhoon seasons.

Water storage tanks may be cleansed more frequently if required. Procedure for cleansing water tanks is available via: https://www.wsd.gov.hk/en/faqs/index.html#12-205. DP shall ensure that all rinsing water of the tanks is drained away before refilling with fresh water.

¹³ It may not be feasible to check the backflow prevention devices are functioning correctly if the water supply system is on line.

Location of check or action	Typical frequency of check or action	Typical person responsible for check or action ¹⁰	Item to check or action to be completed and target to be achieved	Hazard/ Hazardous Event No. in Part C	Corrective action to take if target is not achieved
	In response to complaints	DP	Fully open the tap to flush away stagnant water until clear, colourless, tasteless and odourless. The flushing period is typically about 2 minutes or longer for larger systems.	1-4	Advise WSD if problem persists
	Annually	LP	Confirm that there are no cross-connections at the main plants that could lead to non-potable water (where applicable) flowing from potable water fittings by conducting checks such as flow tests	5	Remove any cross-connections if identified
6. Infrequently-used communal taps supplying water that is to be used for drinking or food preparation (e.g. kitchen taps)	Every week or more frequent as required	DP	Fully open the tap to flush away stagnant water until clear, colourless, tasteless and odourless. The flushing period is typically about 2 minutes or longer for larger systems.	1-4	Keep flushing until fresh water has been drawn through Increase flushing frequency if stagnant, metallic, discoloured or smelly water is noticed in between flushing events. Advise WSD if problem persists
7. Communal POU devices (e.g. water filters, water dispensers, wall-mounted dispensers) fitted to drinking taps or connected to the water mains 14	According to supplier's instructions	DP	Inspect and maintain the devices (where applicable) according to supplier's instructions to ensure proper operation. Mark filter cartridge expiry dates on the casings and replace cartridges accordingly Flush water dispensers (where applicable) according to supplier's instructions or Department of Health's health advice ¹⁵ Flush wall-mounted dispensers (where applicable) and the inlet pipes regularly ¹⁶	10	Ask supplier or qualified technician to repair the devices if necessary. Mark filter cartridge expiry dates on the casings and replace filter cartridges accordingly Increase flushing frequency if stagnant, metallic, discoloured or smelly water is noticed. Advise WSD if problem persists
8. For individual residents or on notice boards	Every 3 months or as required	DP	Provides following notifications/advice, if appropriate, to residents/water users on notice board or by post: i. Flush taps after long stagnation, e.g. over weekend or long holiday ¹⁷ ii. Do not take water from hot water tap for drinking water purpose iii. Use compliant plumbing components ¹⁸ iv. Notify residents of any scheduled/non-scheduled suspension of water supply and flushing their taps for at least 2 minutes before use upon resumption of water supply v. Follow WSD's instructions when carrying out plumbing modifications vi. Maintain filters, wall-mounted dispensers or other POU devices (where applicable) in accordance with supplier's instructions, e.g. replacement of filter cartridges vii. Refer to WSD's "Water Use Tips" if needed ¹⁹ viii. Maintain hot water storage devices of residential care home for the elderly (if present) and confirm that the devices operate at 60°C or above (Caution: To prevent accidental scalding, the hot water temperature at the tap outlets should not be higher than 43°C).	1-4 & 9	Update any notification or advice on plumbing and inside services

Please refer to WSD's "Technical Requirements for Plumbing Works in Buildings" for the requirements of installing backflow prevention devices for water dispensers (https://www.chp.gov.hk/files/pdf/guidelines_on_use_of_drink_fountain_public.pdf
Department of Health's "Health Advice on Using Water Dispensers" is available via: https://www.wsd.gov.hk/filemanager/en/share/pdf/tips_for_using_wall_mounted_dispensers_e.pdf
Typical flushing advice is available via: https://www.wsd.gov.hk/en/plumbing-engineering/pipes-and-fittings-to-be-used-in-inside-service-or/index.html
WSD's "Water Use Tips" is available via: https://www.wsd.gov.hk/en/core-businesses/water-quality/water-use-tips/index.html

Part E Routine Water Safety Checklist for the Building (Based on Persons Responsible for Conducting Checking)²⁰

Table I. Routine checking/inspection by the Designated Person (such as the Property Management Officer)

Location	Frequency	Item to check/action to be completed/target to be achieved	Observations	Action completed [sign and date]	Corrective action to take if target is not achieved	Corrective action completed [sign and date]
		The tank room (if available) is locked and secure			Secure and lock the tank room	
		The tank access hatch is locked and secure			Secure and lock the tank access hatch	
		No holes, gaps or entry points into the water tanks through which insects, animals or birds could enter			Repair any holes or replace part that has holes	
1. Water storage tanks (sump tank, roof tank, header tank or any other storage tanks)	Every 3 months	Tank vents and overflow pipes have fine, gnaw-proof mesh, and the mesh is secure without signs of wearing			Repair or plan to replace mesh	
or any enter everage variable		Tanks are clean inside and are free of foreign materials or deposits			Arrange cleansing of the tanks	
		No water and debris (leaves, twigs, etc.) accumulated on exposed tank roof and the rainwater drains are free from blockage ²¹			Remove accumulated water and debris and clear rainwater drains	
Half yearly		Tanks are cleansed every 6 months ²²			Arrange cleansing of the tanks	
2. Water pumps (sump pumps	Every 3 months	There is no leakage			Repair leak or replacement	
or booster pumps)	Every 5 months	There is no unusual noise during pump operations			Repair or replace the pump	
	Every 3 months	There is no leak in pipes, joints or fittings			Replace or repair leaking pipes/joints	
3. Pipes, joints and fittings	Annually	Labels/colour markings on water pipes/tanks are clear to differentiate between potable and non-potable water systems (where applicable)			Replace labels/colour markings	
57 Tipes, joines und munige	In response to complaints	Fully open the tap to flush away stagnant water until clear, colourless, tasteless and odourless. The flushing period is typically about 2 minutes or longer for larger systems.			Advise WSD if problem persists	
4. Infrequently-used communal taps for drinking or food-preparation purposes	Every week or more frequent as required	Fully open the tap to flush away stagnant water until clear, colourless, tasteless and odourless. The flushing period is typically about 2 minutes or longer for larger systems.			Increase flushing frequency if stagnant, metallic, discoloured or smelly water is noticed in between flushing events Advise WSD if problem persists	

²⁰ Building owner/management is encouraged to incorporate the Checklist into the building's routine maintenance schedule. The table may be rearranged according to location, check frequency or person responsible for the checklist may be modified as appropriate subject to the building's risk assessment.

Rainwater drains may be checked and cleared more frequently during typhoon seasons.

Water storage tanks may be cleansed more frequently if required. Procedure for cleansing water tanks is available via: https://www.wsd.gov.hk/en/faqs/index.html#12-205. DP shall ensure that all rinsing water of the tanks is drained away before refilling with fresh water.

5. Communal POU devices		Inspect and maintain the devices (where applicable) according to supplier's instructions to ensure proper operation. Mark filter cartridge expiry dates on the casings and replace cartridges accordingly	Ask supplier or qualified technician to repair the devices if necessary. Mark filter cartridge expiry dates on the
5. Communal POU devices (e.g. water filters, water dispensers, wall-mounted dispensers) fitted to drinking taps or connected to the water mains ²³ According to supplier's instructions Flush water dispensers (where applicable) according to supplier's instructions or Department of Health's health advice ²⁴ Flush wall-mounted dispensers (where applicable) and the inlet pipes regularly ²⁵ Provides following notifications/advice, if appropriate, to residents/water users on notice board or by post: i. Flush taps after long stagnation, e.g. over weekend or long holiday ²⁶ ii. Do not take water from hot water tap for drinking water purpose iii. Use compliant plumbing components ²⁷ iv. Notify residents of any scheduled/non-scheduled suspension of water supply and flushing their taps for at least 2 minutes before use upon resumption of water supply v. Follow WSD's instructions when carrying out plumbing modifications vi. Maintain filters, wall-mounted dispensers or other POU devices (where applicable) in accordance with supplier's instructions, e.g. replacement of filter cartridges vii. Refer to WSD's "Water Use Tips" if needed ²⁸	supplier's		casings and replace cartridges accordingly
	Increase flushing frequency if stagnant, metallic, discoloured or smelly water is noticed. Advise WSD if the problem persists		
	or	on notice board or by post: i. Flush taps after long stagnation, e.g. over weekend or long holiday ²⁶ ii. Do not take water from hot water tap for drinking water purpose iii. Use compliant plumbing components ²⁷ iv. Notify residents of any scheduled/non-scheduled suspension of water supply and flushing their taps for at least 2 minutes before use upon resumption of water supply v. Follow WSD's instructions when carrying out plumbing modifications vi. Maintain filters, wall-mounted dispensers or other POU devices (where applicable) in accordance with supplier's instructions, e.g. replacement of filter cartridges	Update any notification or advice on plumbing and inside services

Please refer to WSD's "Technical Requirements for Plumbing Works in Buildings" for the requirements of installing backflow prevention devices for water dispensers (https://www.msd.gov.hk/files/pdf/guidelines_on_use_of_drink_fountain_public.pdf

Department of Health's "Health Advice on Using Water Dispensers" is available via: https://www.wsd.gov.hk/filemanager/en/share/pdf/tips_for_using_wall_mounted_dispensers_e.pdf

Typical flushing advice is available via: https://www.wsd.gov.hk/filemanager/en/share/pdf/tips_tor_reduce_lead_intake_e.pdf

A disperse of proposed along his possible via: http://www.wsd.gov.hk/filemanager/en/share/pdf/tips_tor_reduce_lead_intake_e.pdf

A directory of approved plumbing components is available via: http://www.wsd.gov.hk/en/plumbing-engineering/pipes-and-fittings-to-be-used-in-inside-service-or/index.html
28 WSD's "Water Use Tips" is available via: https://www.wsd.gov.hk/en/core-businesses/water-quality/water-use-tips/index.html

Table II. Routine checking/inspection by the Qualified Person (such as Licensed Plumber)

Location	Frequency	Item to check/action to be completed/target to be achieved	Observations	Action completed [sign and date]	Corrective action to take if target is not achieved	Corrective actions completed [sign and date]
Water storage tanks (sump tank, roof tank, header tank or any other storage tanks)		Potable water roof (header) tank levels are set to provide sufficient water pressure and level switch top up control is functioning correctly			Adjust level settings if required and make any necessary repairs	
		Pump pressure set points are correctly adjusted to provide sufficient water pressure and the pressure measurement devices and pumps are functioning correctly			Adjust pressure settings if required and make any necessary repairs	
Water pumps (sump pumps or booster pumps)		Pressure set points for the potable water are at higher pressure (typically by at least 50 kPa, if feasible) than for non-potable water (where applicable)				
		Maintain pumps as recommended by the supplier			Replace badly worn parts in good time so	
		Check for any parts being badly worn			that the pump doesn't fail resulting in a loss of pressure	
2. D	Annually	Pressure reducing valve set points are correctly adjusted to provide sufficient water pressure and the pressure measurement devices are functioning correctly			Adjust pressure settings if required and make any necessary repairs	
3. Pressure reducing valves		Pressure set points for the potable water are at higher pressure (typically by at least 50 kPa, if feasible) than for non-potable water (where applicable)				
4. Water meters		Backflow prevention devices are in place as required under the WSD requirements and are found to be functioning correctly ²⁹			Install backflow prevention devices if missing and replace any faulty backflow prevention devices	
5. Pipes, joints and fittings		Confirm that there are no cross-connections at the main plants that could lead to non-potable water (where applicable) flowing from potable water fittings by conducting checks such as flow tests			Remove any cross-connections if identified	

²⁹ It may not be feasible to check whether the backflow prevention devices are functioning correctly if the water supply system is on line.

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Part F Routine Checklist for the Building on Direct Water Supply only³⁰

Routine checking/inspection by the Designated Person (such as the Property Management Officer)

Location	Frequency	Item to check/action to be completed/target to be achieved	Observations	Action completed [sign and date]	Corrective action to take if target is not achieved	Corrective action completed [sign and date]
1. Pipes, joints and fittings	Every 3 months	No leak in pipes, joints or fittings			Replace or repair leaking pipes/joints	
	Annually	Labels/colour markings on water pipes/tanks are clear to differentiate between potable and non-potable water systems (where applicable)			Replace labels/colour markings	
	In response to complaints	Fully open the tap to flush away stagnant water until clear, colourless, tasteless and odourless. The flushing period is typically about 2 minutes or longer for larger systems.			Advise WSD if problem persists	
For individual residents or on notice boards	Every 3 months or as required	Provides following notifications/advice, if appropriate, to residents/water users on notice board or by post: i. Flush taps after long stagnation, e.g. over weekend or long holiday ³¹ ii. Do not take water from hot water tap for drinking water purpose iii. Use compliant plumbing components ³² iv. Notify residents of any scheduled/non-scheduled suspension of water supply and flushing their taps for at least 2 minutes before use upon resumption of water supply v. Follow WSD's instructions when carrying out plumbing modifications vi. Maintain filters, wall-mounted dispensers or other POU devices (where applicable) in accordance with supplier's instructions, e.g. replacement of filter cartridges vii. Refer to WSD's "Water Use Tips" if needed ³³ viii. Maintain hot water storage devices of residential care home for the elderly (if present) and confirm that the devices operate at 60°C or above (Caution: To prevent accidental scalding, the hot water temperature at the tap outlets should not be higher than 43°C).			Update any notification or advice on plumbing and inside services	

Building owner/management is encouraged to incorporate the Checklist into the building's routine maintenance schedule. The table may be rearranged according to location, check frequency or person responsible for the checking.

Typical flushing advice is available via: http://www.wsd.gov.hk/filemanager/en/share/pdf/tips_to_reduce_lead_intake_e.pdf

A directory of approved plumbing components is available via: https://www.wsd.gov.hk/en/core-businesses/water-quality/water-use-tips/index.html

WSD's "Water Use Tips" is available via: https://www.wsd.gov.hk/en/core-businesses/water-quality/water-use-tips/index.html