



Circular Letter No.: 2018.151

Issue Date: 26 September 2018

Application: BEAM Plus EB Version 2.0 Comprehensive Scheme
BEAM Plus EB Version 2.0 Selective Scheme

Effective Date: 26 September 2018

WU P3 (EB Comprehensive Scheme) and
WU 6 (EB Selective Scheme)

1. Water Supplies Department (WSD) has suspended the handling of new and renewal applications for the Quality Water Supply Scheme for Buildings – Fresh Water (Plus) (Q-Plus) since 1 February 2018¹.
2. To cater for the suspension of Q-Plus and to award projects that paid ongoing efforts to ensure that the quality of fresh water is at satisfactory level, the Technical Circular Letter hereby announces a clarification to the credit content for the following credits:
 - WU P3 under BEAM Plus EB v.2.0 Comprehensive Scheme and
 - WU 6 under BEAM Plus EB Version 2.0 Selective Scheme
3. The corresponding updates for WU P3 under BEAM Plus EB v.2.0 Comprehensive Scheme and WU 6 under BEAM Plus EB v.2.0 Selective Scheme are enclosed in Annex A and Annex B of this Technical Circular respectively.
4. The Technical Circular also announces the replacement of pages in the BEAM Plus EB Manuals:
 - Page A-1 in Annex A shall replace all contents specified in Page 130-131 under BEAM Plus EB v.2.0 Comprehensive Scheme and
 - Page B-1 to B-2 in Annex B shall replace all contents specified in Page 147-148 under BEAM Plus EB Version 2.0 Selective Scheme
5. The required test parameters and their acceptable criteria are provided in Annex C of this Technical Circular. All test parameters in Annex C will be updated as and when necessary to reflect on the latest requirement and without any prior notice.

A handwritten signature in blue ink, appearing to be "KM So", is located below the main text.

Mr KM So
Chairperson of Standards Sub-committee

¹ Government suspension on WSD Quality Water Supply Scheme for Buildings – Fresh Water (Plus), <https://www.wsd.gov.hk/en/core-businesses/water-quality/buildings/fresh-water-plus/index.html>

Annex A: Updated Credit Content for WU P3 under BEAM Plus EB v.2.0 Comprehensive Scheme
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	WU P3	Water Quality Survey
Exclusion	None.	
Objective	To ensure that the quality of fresh water is at a satisfactory level.	
Requirement	Demonstrate that the quality of fresh water at all fresh water tanks and the farthest supply point(s) from each fresh water tank(s) meets WSD's requirements.	
Assessment	<u>Criteria</u> The Applicant shall demonstrate the following: <ol style="list-style-type: none">i. Samples of fresh water collected at all fresh water tanks and the farthest supply point(s) from each fresh water tank(s).ii. Samples of fresh water for physical, chemical and bacteriological examinations collected, preserved, handled and tested in accordance with the requirements stipulated in ISO 5667 and Annex C of Technical Circular 2018.151 (Testing Parameters and Acceptable Criteria). <u>Documentation</u> The Applicant shall provide the following documents: <ol style="list-style-type: none">i. Plumbing schematic diagrams and layout drawings with clear indication of the fresh water sampling; andii. Laboratory test report showing that (a) the fresh water samples are conducted in accordance to ISO 5667 and (b) all fresh water sample parameters comply with the acceptable criteria stipulated in Technical Circular 2018.151.	
Background	Hong Kong enjoys one of the safest water supplies in the world. The quality of the drinking water fully conforms to the Guidelines for Drinking-water Quality recommended by the World Health Organisation. WSD is committed to supplying the public with water that is clear, odourless, wholesome and free from pathogenic bacteria. Although the quality of water supplied to the consumers is strictly controlled and monitored, the quality of water drawn from consumers' taps may sometimes be affected by the conditions of the plumbing system installed within their development, such as the phenomenon of discoloured water due to the presence of iron from rusty pipes and the solder materials etc. To encourage the Building Owner/ Building Management Company to properly maintain their plumbing system, regular water quality testing is recommended.	

Annex B: Updated Credit Content for WU 6 under BEAM Plus EB v.2.0 Selective Scheme

	WU 6	Water Quality Survey
Exclusion	None.	
Objective	To ensure that the quality of fresh water is at a satisfactory level.	
Credit Attainable	2	
Credit Requirement	1 credit for demonstrating that the quality of fresh water at all fresh water tanks and the farthest supply point(s) from each fresh water tank(s) meets WSD's requirements.	
	1 credit for monitoring the quality of fresh water at least once a year for the past 3 consecutive years from the time of submission the <u>or</u> providing a declaration letter to declare that the development has undertaken best practices in monitoring the quality of fresh water at least once a year for the past 3 consecutive years from the time of submission.	
Assessment	<u>Criteria</u>	
	For the first credit on quality of fresh water, the Applicant shall demonstrate the following:	
	<ul style="list-style-type: none">i. Samples of fresh water collected at all fresh water tanks and the farthest supply point(s) from each fresh water tank(s).ii. Samples of fresh water for physical, chemical and bacteriological examinations collected, preserved, handled and tested in accordance with the requirements stipulated in ISO 5667 and Annex C of Technical Circular 2018.151 (Testing Parameters and Acceptable Criteria).	
	For the second credit on monitoring the quality of fresh water, the Applicant shall demonstrate that the quality of fresh water has been monitored at least once a year for the past consecutive 3 years from the time of submission.	
	<u>Documentation</u>	
	For the first credit, the Applicant shall provide the following documents:	
	<ul style="list-style-type: none">i. Plumbing schematic diagrams and layout drawings with clear indication of the fresh water sampling locations; andii. Laboratory test report showing that (a) the fresh water samples are conducted in accordance to ISO 5667 and (b) all fresh water sample parameters comply with the acceptable criteria stipulated in Technical Circular 2018.151.	
	For the second credit, the Applicant shall provide the following documents:	

- Evidence on water quality monitoring, such as monitoring records for the past consecutive 3 years from the time of submission; or
- Declaration letter endorsed by top management of Building Owner/ Building Management Company declaring that the development has undertaken best practices in monitoring the quality of fresh water at least once a year for the past 3 consecutive years from the time of submission.

Background

Hong Kong enjoys one of the safest water supplies in the world. The quality of the drinking water fully conforms to the Guidelines for Drinking-water Quality recommended by the World Health Organisation. WSD is committed to supplying the public with water that is clear, odourless, wholesome and free from pathogenic bacteria.

Although the quality of water supplied to the consumers is strictly controlled and monitored, the quality of water drawn from consumers' taps may sometimes be affected by the conditions of the plumbing system installed within their development, such as the phenomenon of discoloured water due to the presence of iron from rusty pipes and the solder materials etc. To encourage the Building Owner/ Building Management Company to properly maintain their plumbing system, regular water quality testing is recommended.

Annex C: Testing Parameters and Acceptable Criteria

Test parameter		Acceptance Criteria	Date of Last Update
Metal Parameters	Iron (mg/l)	≤ 0.3	26 September 2018
	Lead ($\mu\text{g/l}$)	≤ 10	
	Cadmium ($\mu\text{g/l}$)	≤ 3	
	Chromium ($\mu\text{g/l}$)	≤ 50	
	Nickel ($\mu\text{g/l}$)	≤ 70	
Chemical and Physical Parameters	Turbidity (NTU)	≤ 3.0	
	Colour (HU)	≤ 5	
	pH at 25°C	6.5-9.2	
	Conductivity at 25°C ($\mu\text{S/cm}$)	≤ 300	
Bacteriological Parameters	E.coli (cfu/100mL)	0	
	Total coliforms (cfu/ 100mL)	0	