

Advisory Committee on Water Supplies
Minutes of Meeting No. 6

Date: 19 March 2018 (Monday)

Time: 2:00 p.m.

Venue: Room 4819, Water Supplies Department, 48/F, Immigration Tower,
7 Gloucester Road, Wan Chai, Hong Kong

Present

Dr CHAN Hon Fai	Chairman
Mr WONG Chung Leung	Vice-Chairman (Water Supplies Department)
Prof WONG Wing Tak	Working Group Chairman
Prof CHENG Man Chung, Daniel	Working Group Chairman
Dr MAN Chi Sum	Working Group Chairman
Sr WONG Bay	Working Group Vice-Chairman
Mr TAM Kwok Wing, Ivan	Task Group Vice-Chairman
Prof CHAN Yan Keung, Thomas	Member
Prof CHIU Pauline	Member
Dr LAU Wai Neng, Michael	Member
Dr WONG Siu Wing, Eric	Member
Dr WONG TAAM Chi Woon, Vivian	Member
Mr CHAN Kwok Wai	Member
Ms KWAN Sau Ling	Member
Mr LAU Yuet Fan, Ivan	Member
Ms TONG Po Chun	Member
Ms WONG Pik Kiu	Member
Mr YEUNG Wai Sing	Member
Mr Vitus NG	Member (Development Bureau)
Mr FORK Ping Lam	Member (Food and Environmental Hygiene Department)
Dr FUNG On Yee, Connie	Member's Representative (Department of Health)
Mr WONG Tak Wai, David	Member (Environmental Protection Department)
Mr WONG Man Wai, Billy	Member's representative (Housing Department)
Mr IP Chit Ki	Secretary (Water Supplies Department)

Water Supplies Department Representatives in Attendance

Mr CHAU Sai Wai	Assistant Director, Water Supplies Department
Mr CHUNG Siu Wing, Joseph	Chief Engineer, Water Supplies Department
Mr KWOK Yau Ting, Kelvin	Chief Chemist, Water Supplies Department

Mr LAW Tak Chi, George	Senior Engineer, Water Supplies Department
Mr TSANG Chung Man, Alex	Senior Engineer, Water Supplies Department
Ms LAM Ka Man, Carman	Senior Engineer (Ag), Water Supplies Department
Mr YU Man Tat	Senior Chemist, Water Supplies Department
Mr LAW Ming Chu, Cecilia	Engineer, Water Supplies Department (Notes Taker)

Absent with Apologies

Prof KWAN Kai Cho, Joseph	Task Group Chairman
Prof LI Xiao Yan	Member
Dr LEE Ka Yan, David	Member
Ms LAM Yuk Chun	Member

Item

1. Opening Remarks

- 1.1 The Chairman welcomed all the Members to the Advisory Committee on Water Supplies (ACWS) Meeting No. 6.
- 1.2 The Chairman informed the meeting that Prof KWAN Kai Cho, Joseph, Prof LI Xiao Yan, Dr LEE Ka Yan, David and Ms LAM Yuk Chun had sent in their apology for not being able to attend the meeting.
- 1.3 The Chairman extended his welcome to Mr WONG Chung Leung, the Director of Water Supplies, to the meeting.

Agenda Items

2. Confirmation of Minutes of Last Meeting

- 2.1 The Chairman remarked that the revised draft minutes of the Meeting no. 5 (which had incorporated the comments from Members) had been circulated to the Members on 26 January 2018 and no further comment was received. There being no further amendment proposed at the meeting, the revised draft minutes of the Meeting No. 5 circulated to Members on 26 January 2018 were confirmed.

3. Matters Arising

Action Plan for Enhancing Drinking Water Safety

- 3.1 Upon invitation by the Chairman, Mr IP Chit Ki of Water Supplies Department (WSD) briefed Members on the Action Plan for Enhancing Drinking Water Safety.

Total Water Management Strategy (2.0)

- 3.2 Prof Daniel CHENG reported that for the review of the Total Water Management (TWM) strategy, the consultants had developed the water demand and supply models. The forecast water demand was being reviewed taking into account the latest set of planning data and other updated information. The water management measures for the TWM strategy 2.0 would then be refined based on the latest forecast water demand and the review study would be completed in 2018.

Tseung Kwan O Desalination Plant

- 3.3 Prof Daniel CHENG reported that in response to the Members' suggestion of providing more educational elements in the Tseung Kwan O Desalination Plant project, the provision of educational facilities to engage the public on the seawater desalination would be one of the contract requirements of the project. The Chairman also suggested WSD to give innovative souvenirs to visitors such as the salt produced from the desalination plant to enrich visitors' experience.

Water Loss Control in Private Developments

- 3.4 Prof Daniel CHENG reported that in conjunction with the establishment of Water Intelligent Network for monitoring the water loss in the water mains, WSD would continue to engage the property owners and management agents to tackle water loss in private developments as suggested by Members.

4. Working Group on Water Quality

- 4.1 The Chairman invited Prof WONG Wing Tak, Chairman of WG on Water Quality, to report the key issues discussed in the sixth WG meeting held on 31 January 2018.

Publication of Water Quality Data

4.2 Prof WONG reported the following:

- The water quality monitoring data for the Dongjiang (DJ) water received and drinking water supplied to customers for the period from October 2016 to September 2017 were circulated to WG members in November 2017 and published on the WSD's website on 29 December 2017 after incorporating the comments of WG members.
- There were occasional deviations of DJ water quality from the standard of Type II waters (applicable to the abstraction for human consumption in first class protection area) in Environmental Quality Standards for Surface Water GB3838-2002 in the supply agreement due to the discharge of floodwater from Shawan River into the Shenzhen Reservoir as a result of heavy rainstorms. Nevertheless, in accordance with the international practice that compliance would be based on annual average, the average DJ water quality for this reporting period still complied with the standard. Moreover, WSD had raised its concerns about the floodwater discharge of Shawan River into the Shenzhen Reservoir affecting its water quality and the Guangdong Authorities was implementing the Integrated Improvement Works for the Water Environment of Shawan River (沙灣河流域水環境綜合整治工程) which were anticipated to be completed in mid-2019. By then, the chance of floodwater discharge from Shawan River into Shenzhen Reservoir and the impact of the discharge on the water quality of the Shenzhen Reservoir water would be substantially reduced.

Enhanced Water Quality Monitoring Programme

4.3 Prof WONG reported the following:

- The Enhanced Water Quality Monitoring Programme (水質監測優化計劃) commenced on 27 December 2017.
- As at 9 March 2018, drinking water samples had been collected from about 130 premises for testing of 6 metals including antimony (銻), cadmium (鎘), chromium (鉻), copper (銅), lead (鉛) and nickel (鎳) which would present in internal plumbing systems. All results complied with the Hong Kong Drinking Water Standards.
- Testing results were mailed to the consumers of the premises where drinking water samples were taken within two weeks after sampling. Weekly statistics of the testing results were also uploaded to WSD's website.

5. Working Group on Water Resources

- 5.1 The Chairman invited Prof CHENG Man Chung, Daniel, Chairman of WG on Water Resources to report the key issues discussed in the sixth WG meeting held on 30 January 2018.

Supply of Reclaimed Water

- 5.2 Prof Daniel CHENG reported that WSD was taking forward the waterworks infrastructure works in stages to supply reclaimed water to north eastern part of the New Territories for non-potable uses in phases starting with Sheung Shui and Fanling (SSF) from 2022 onwards. At the same time, a preliminary financial and legal framework for the supply of reclaimed water had been developed for public consultation. To further reduce the use of fresh water for flushing, WSD would continue to review and extend the salt water/reclaimed water supply systems to other areas using fresh water for flushing if it was technically and financially justified.

Inter-reservoir Transfer Scheme (IRTS)

- 5.3 Prof Daniel CHENG reported that Drainage Services Department (DSD) had given a presentation on the IRTS during the WG meeting. The proposed IRTS comprised a water tunnel for conveying the raw water in the Kowloon Group Reservoirs to the Lower Shing Mun Reservoir. WG members appreciated that the IRTS could serve dual purposes for flood protection and water conservation. WG members expressed concern about impact on the quality of the water in the reservoirs during construction. DSD responded that temporary cofferdam and double silt curtain would be installed in the reservoirs to prevent contamination of water. Water quality would also be closely monitored throughout the construction period.

6. Working Group on Water Conservation

- 6.1 The Chairman invited Dr MAN Chi Sum, Chairman of WG on Water Conservation to report on the key issues discussed at the sixth WG meeting held on 2 February 2018.

Integrated Education Programme (IEP) 「惜水學堂」教育計劃 on Water Conservation

6.2 Dr MAN reported the following:

- For primary schools, WSD reported that the IEP was being implemented smoothly and about 40% of the primary schools in Hong Kong had joined the programme. It was noted that WSD had a meeting with school sponsoring bodies (SSBs) on 5 March 2018 for experience sharing and feedback collection on the programme. Representatives from a total of 11 SSBs/schools attended the meeting and constructive feedback was received for revamping the teaching kit of the programme.
- For kindergartens, WSD had implemented the pilot programme in 82 kindergartens in 2017/18 school year, and was planning to launch the programme in full scale in 2018/19 school year. WSD had conducted two workshops in late 2017 with the kindergarten teachers who joined the pilot programme to collect their feedback, and was reviewing their feedback for revamping the teaching kits of the programme.

Permanent Water Resources Education Centre (WREC) at Tin Shui Wai

6.3 Dr MAN reported that WSD's current target was to commission the WREC in early 2019 and the tenders for the works of the WREC were invited on 13 February for tender closing on 23 March 2018.

6.4 Dr MAN further reported that Wofoo Social Enterprises had agreed to hold the Hong Kong Water Race (with WSD as co-organizer) in 2019 in Tin Shui Wai. It would be an orienteering event covering the prominent landmarks in the district, including the WREC.

Best Practice Guidelines (BPG) for Water Usage in Industries

6.5 Dr MAN reported that to promote the use of BPG for hotel and catering trades, WSD had been considering various initiatives including recognition scheme. In this respect, WSD had been engaging some large-scale corporations (such as Cathay Pacific Catering Services, Hong Kong Electric, etc.) to explore how the scheme could reduce water usage while benefiting the businesses in saving water charge. Upon collecting the feedback, WSD would work out a scheme for deliberation by the WG members. To further promote the use of BPG, WSD had obtained EPD's agreement for WSD to be involved in the assessment process of the Hong Kong Awards for Environmental Excellence for hotel and catering

trades, including providing comments on the assessment criteria (such as including the adoption of BPGs and water efficiency audits in the assessment criteria) and taking part in the adjudication panel. This would provide incentives for hotel and catering industries to use the BPGs.

6.6 The Chairman enquired how the food industry was reacting to the BPG. Mr YUENG Wai Sing replied that the awareness of the food industry on water conservation was still low and more promotion would be required. Dr WONG TAAM Chi Woon, Vivian suggested WSD could introduce schemes like “Water Saving Labelling” or “Green Restaurant Labelling” for promotion of water conservation in the food industry. Prof Daniel CHENG also suggested WSD to provide restaurants a benchmark of average water consumption in restaurants for reference.

6.7 Dr MAN reported that for laundry industry, the consultant of WSD was currently addressing WSD’s comments on the draft BPG and questionnaires. WSD would arrange to distribute the questionnaires to the laundry companies once the BPG was finalised.

Roving Exhibition

6.8 Dr MAN reported that WSD had targeted to conduct the roving exhibitions on promotion of water conservation in all 18 District Council districts in 2017/18. As at end February 2018, nine roving exhibitions had been held in Kwun Tong, Wan Chai, Sai Kung, Eastern, Kwai Tsing, Sham Shui Po, Southern, Island and Sha Tin districts.

Promotion of Water Conservation to Foreign Domestic Helpers

6.9 Dr MAN reported that a video was being produced on water saving tips at home with the target audience being foreign domestic helpers. There would be voice-over in different foreign languages of the domestic helpers. The video was targeted for launching in mid 2018. Besides, in the roving exhibition, water saving tips at home had been written in relevant foreign languages for the domestic helpers.

Mandatory use of Water Efficiency Labelling Scheme (WELS) products

6.10 Dr MAN reported that following the launch of the initial stage of the recognition mechanism for water efficient showers for bathing and water taps registered in Water Efficiency Schemes in Australia and New Zealand, one application for shower for bathing and one application for water tap had been

received and approved for registration under WELS in Hong Kong under the recognition mechanism. A review of the testing standards and requirements under major overseas water efficiency schemes had been completed and WSD established a comprehensive recognition mechanism under WELS on 26 January 2018.

Collaboration with green groups and other stakeholders

- 6.11 Dr MAN reported that WSD had been liaising with green groups and NGOs to co-organize water conservation events/activities. As at end February 2018, WSD had co-organized, supported and participated in 7 water conservation events/activities (3 in 2017 and 4 in 2018) since the last WG meeting, making a total of 17 events/activities in 2017 and 4 events/activities so far in 2018.

Date	Name of event	Organiser
2018		
18-Mar-18	Race for Water 掙水一戰	A Drop of Life
04-Feb-18	Green Carnival 環保嘉年華	Green Council
04-Feb-18	「大地與水」大埔區詩詞書畫藝術 推廣計劃	大埔區文藝協進會
14-Jan-18	Green Run 2018 著綠狂奔 2018	Green Council
2017		
19-Nov-17	Chinachem Eco-Walk 2.0 華懋行 2.0	Chinachem Group
21-Oct-17	“Water Conservation” Adventurous Challenge cum Water Conservation Carnival 『綠惜活力』水陸歷奇挑戰賽暨惜水嘉年華	Hong Kong Federation of Youth Groups, Co-organised by WSD
29-Sep-17	Mission Healthy Greens – Diana : Star Lite Star Bright (Year 2) 「丹葵・樂耕園 – 星星點點家家樂」第二年項目	Mission Healthy Greens
11-Jul-17	Wofoo 20 th Anniversary Celebration Cocktail 和富社會企業二十周年慶祝酒會	Wofoo Social Enterprises
11-Jun-17	Zero Carbon Fun Fair 「世界環境日」- 零碳 FUN 墟	Environmental Campaign Committee (ECC) under the administration of the Environmental Protection Department (EPD)
5, 24 Jun-17	Hong Kong Green Day Opening Ceremony and Closing Ceremony cum Green Hunt	Green Council
5-7 Jun-17	The World Sustainable Built Environment Conference	The Construction Industry Council and Hong Kong Green Building Council

Date	Name of event	Organiser
05-Jun-17	Climate Change and my Smart City Exhibition 氣候變化與智慧城市體驗館	The Construction Industry Council, Co-organised by Development Bureau
01-Jun-17	Water Saver School	World Wide Fund
20-May-17	Hong Kong Water Race 香港水足印定向	Wofoo Social Enterprises, co-organised by WSD
07-May-17	Walk for Water 點滴掙水行	A Drop of Life
29-Apr-17	Walk for Living Water 活水行	The Amity Foundation
22-Mar-17	Water Forum: Climate Change Resilience – Sponge City	Friends of the Earth Co-organised by WSD
12-Mar-17	Race for Water 掙水一戰	A Drop of Life
05-Mar-17	新界東步操、團呼、快樂傘及 升旗比賽暨嘉年華 2017	香港童軍總會
08-Jan-17	Green Carnival 環保嘉年華	Green Council

6.12 Dr MAN also reported that WSD met the Hong Kong Countryside Foundation (HKCF) on 12 January 2018 to explore opportunities for collaboration on water conservation under their heritage project “Lai Chi Wo Hakka Life Project” (荔枝窩村「生活體驗村」) in Sha Tau Kok. Initially, HKCF considered that it would be feasible to incorporate water conservation measures (such as the use of high water efficiency devices etc.) in design and operation of the project. As suggested by the WG members, WSD was liaising with HKCF to arrange a site visit to the Lai Chi Wo Hakka Project in mid-2018.

6.13 Dr MAN reported that WSD would arrange the next tea gathering with green groups in around April/May 2018 (tentative).

6.14 Dr MAN reported that WSD was closely liaising with EPD on the feasibility of setting up a dedicated fund under the Environmental and Conservation Fund (ECF) for water conservation and related activities (e.g. installation of flow controllers, detection of water leakage, etc.).

[Posting-meeting Note: EPD advised on 3 May 2018 that ECF can be used for water conservation.]

- 6.15 Dr MAN reported that WSD was liaising with Urban Renewal Authority (URA) for specifying the use of WELS Grade 1 or 2 washing machines in URA's redevelopment projects.

7. Task Group on Water Safety in Buildings

- 7.1 The Chairman invited Mr YU Man Tat, the Secretary of Task Group (TG) on Water Safety in Building (TG), to report the key issues discussed at the fifth meeting of the TG held on 9 February 2018 on behalf of Prof KWAN Kai Cho, Chairman of the TG.

Trials of Water Safety Plan for Buildings (WSPB)

- 7.2 Mr YU reported the following:
- WSPB trials at two public housing estates under the Housing Authority, namely the Sai Wan Estate (西環邨) and Chun Shek Estate (秦石邨) of about 60 and 30 years old respectively, commenced in December 2017. The trials were progressing satisfactorily and a review would be conducted in April 2018.
 - It was planned to embark on another WSPB trial in April 2018 at a newer public housing estate of about 10 years old.
 - The Architectural Services Department was also prepared for a WSPB trial at the APB Centre (建業中心). They had issued variation orders to their property management agent for the trial.

Launching of WSPB

- 7.3 Mr YU reported that a training workshop was conducted for Qualified Persons (QPs)¹ of consulting companies and plumbing training providers in December 2017. An updated list of QPs was uploaded to WSD's website on 2 March 2018. A list of consulting companies whose staff had attended the training workshop and passed the associated assessment was also uploaded to WSD's website.

¹ QPs refer to those professionals such as licensed plumbers, building services engineers, building surveyors, etc. who are competent to carry out the checking duties specified in the WSPB.

Quality Water Supply Scheme for Buildings-Fresh Water (Management System) (QMS)

- 7.4 Mr YU reported that the QMS was launched on 6 November 2017 to promote building owners' and property manager agents' adoption of WSPB. The QMS combined WSPB and the "Quality Water Supply Scheme for Buildings – Fresh Water (Plus)". Under QMS, the WSD will award certificates to successful buildings to recognise the responsible parties' efforts in maintaining the internal plumbing systems properly. Up to mid March 2018, 36 applications for the QMS had been received, in which 15 applications had been approved. The applications came from private residential buildings, industrial buildings, commercial buildings and hotels. The approved applications covered about 13,000 households.

Promotion of QMS

- 7.5 Mr YU also reported that 5 QMS briefing sessions were conducted in November and December 2017 for relevant stakeholders including property management agents and licensed plumbers. Briefings had also been provided to the Real Estate Developers Association of Hong Kong and the following individual property management companies-

- MTR Corporation Ltd,
- Hong Kong Housing Society,
- Kai Shing Management Services Ltd.,
- Hong Yip Service Co. Ltd.,
- Hang Yick Properties Management Ltd.,
- Kerry Property Management Services Ltd. and
- Goodwill Management Ltd.

- 7.6 Mr YU reported that briefing to Shui On Properties Management Limited, Well Born Real Estate Management Ltd., Chartered Institute of Housing Asian Pacific Branch and Hong Kong Licensed Plumbers Union Ltd. would be held shortly. Besides, phone calls had been made to the current certificate holders of "Quality Water Supply Scheme for Buildings – Fresh Water (Plus)" to encourage them to apply for the QMS.

Development of WSPB templates for residential care homes for the elderly and hospitals

- 7.7 Mr YU reported that:
- The pilot WSPB trial for the residential care homes for elderly (RCHE) (安老院舍) was completed in November 2017
 - A draft WSPB template for RCHE taking into account the trial results and incorporating comments from WSD's consultant, Social Welfare Department, service providers and Electrical and Mechanical Services Department was circulated to TG members on 26 February 2018. Minor comments had been received and the draft template had been revised accordingly.
 - WSD had engaged members of the Hong Kong Private Hospitals Association (香港私家醫院聯會) for development of WSPB template for hospitals. Representative of the Hospital Authority had also been invited to participate in the development process.

- 7.8 The WSPB template for RCHE was endorsed by in the meeting and would be uploaded to WSD's website as well as WHO/IWA's portal for international reference. WSD

8. Report on Visit to Dongjiang Water Supply System

- 8.1 Upon invitation of the Chairman, Ms LAW Ming Chu, Cecilia of WSD reported on the visit to Dongjiang Water Supply System held on 21-22 November 2017.

9. Report on Visit to Lung Yat Estate and Holiday Inn Express Soho

- 9.1 Upon invitation by the Chairman, Ms LAW Ming Chu, Cecilia of WSD reported on the visit to Lung Yat Estate and Holiday Inn Express Soho on 19 January 2018 on their water conservation measures.

10. Mobile Apps – TeamNote

- 10.1 Upon invitation of the Chairman, Ms LAW Ming Chu, Cecilia of WSD reported on the usage of Mobile Apps – TeamNote by Members from 1 April 2017 – 31 March 2018.
- 10.2 After deliberation, Members agreed on the termination of the mobile apps as it was not convenient to login with password which had to be changed regularly. The Chairman thanked WSD in providing the mobile apps for the use of Members for the last year.

11. Any Other Business

- 11.1 The Chairman thanked all Members for their contribution to ACWS in the past 2 years.
- 11.2 There being no further items raised, the Chairman thanked Members for attending the meeting and adjourned the meeting at 6:00 p.m.