

# Report No. 17

## Visit to Dongjiang Water Supply System (8 - 9 December 2015)



## Advisory Committee on Water Resources and Quality of Water Supplies

**Advisory Committee on Water Resources and Quality of Water Supplies**  
**Report No. 17 – Visit to Dongjiang Water Supply System**  
**(8 – 9 December 2015)**

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**SECTION A - INTRODUCTION**

Visit to the Dongjiang Water Supply System (東江供水系統) has been conducted annually by the members of the Advisory Committee on Water Resources and Quality of Water Supplies (ACRQWS) and its predecessor, the Advisory Committee on the Quality of Water Supplies. Through the annual visit, members can be updated on the work in protection of Dongjiang water quality by the Guangdong (GD) Authorities and have the opportunity of direct dialogue with the officials of GD Authorities to reflect to them the Hong Kong people's concerns on Dongjiang water quality. In 2015, a delegation led by the Chairman, Dr CHAN Hon Fai and the Vice-Chairman, Mr LAM Tin Sing, Enoch, with five non-official members, two official members and five other HKSAR Government officials (see details at **Annex 1**) conducted a 2-day visit to Dongjiang Water Supply System on 8 and 9 December 2015. The itinerary of the visit is appended at **Annex 2**.

**SECTION B – THE VISIT**

2. On the first day, the delegation began the visit at the Xiacun Section of the Dongjiang (東江蝦村段) which is the water intake point of Jiangbei Water Treatment Plant (江北水廠) in Huizhou(惠州). Operation of Phases 1 and 2 of the plant were commenced in 1999 and 2008 respectively with a total treatment capacity of 400,000 cubic metres per day (m<sup>3</sup>/day). Upon completion of the final phase (i.e. Phase 3), the

plant can be operated at an ultimate treatment capacity of 600,000 m<sup>3</sup>/day. The plant together with other three water treatment works operated by the Huizhou Water Supply General Company (惠州市供水有限公司) supply fresh water to over 1.3 million people in Huizhou. The delegation took the opportunity to inspect the water quality of Dongjiang near the water intake point of the plant. The delegates observed that the water was clean and its quality was satisfactory.

3. The delegation then visited the Boluo Domestic Sewage Treatment Plant (博羅縣城生活污水處理廠) which is constructed and operated under a Build-Operate-Transfer contract. The two stages of the sewage treatment plant were commissioned in October 2006 and April 2010 respectively with a total treatment capacity of 60,000 tonnes of sewage a day. Monthly inspections are conducted and water samples are collected on site for quality monitoring by the Environmental Protection Department of Guangdong Province (廣東省環保廳). The plant operator showed the different parts of the plant to the delegation and explained the plant operation in detail. The delegation noted that the treated effluent of the plant which discharged into Dongjiang complied with the required standards.

4. The delegation then went to Dongguan to visit the Taiyuan Pumping Station (太園泵站) and the Dongshen Water Supply Improvement Works Exhibition Centre (東深供水改造工程展覽館).

5. Taiyuan Pumping Station has a designed capacity of 100 cubic metres per second (m<sup>3</sup>/s) and a pump head of 11 metres (m). It is the point where the Dongjiang water is abstracted and then conveyed through a Dedicated Aqueduct to Shenzhen Reservoir before importing to Hong Kong. The delegates were shown the model of



the Dongjiang Water Supply System in the pumping station and briefed on the Dedicated Aqueduct. The delegates noted that the intake point of Dongjiang water for supplying to Hong Kong is at about 350 m upstream of the junction of the Shima River and Dongjiang and the polluted water in Shima River will not be able to enter the Dedicated Aqueduct.

6. At the Dongshen Water Supply Improvement Works Exhibition Centre (東深供水改造工程展覽館), a presentation on the history of the various stages of expansion and improvement works of the Dongjiang Water Supply System was given to the delegation. The delegates were impressed by the scale of the works and the efforts made by the GD Authorities in ensuring adequate supply of Dongjiang water supply to Hong Kong.

7. On the second day, the delegation visited the Shawan River Sewage Interception Works (沙灣河污水截排工程) in Shenzhen which is located at the downstream of the Shawan River (沙灣河) and upstream of the Shenzhen Reservoir (深圳水庫). With the completion of the interception works, the polluted low flow of Shawan River has been diverted away from the Shenzhen Reservoir to the Luofang Wastewater Treatment Plant (羅芳污水處理廠) for treatment before discharging into the Liantang (蓮塘) River. The interception works can improve the water quality of Shenzhen Reservoir and safeguard the water supplied to Shenzhen and Hong Kong.

8. The delegation then visited the Bio-nitrification Plant (生物硝化廠) located at the inlet of Shenzhen Reservoir. The plant receives and treats incoming Dongjiang water by removing the ammonia in the water before it enters the Shenzhen Reservoir.

The capacity of the plant is 4 million cubic metres per day. The delegates noted that the Bio-nitrification Plant and Dedicated Aqueduct had significantly improved the quality of Dongjiang water supplied to Hong Kong as well as maintaining it at good quality.

9. Before the end of the trip, the delegation visited the Safety Monitoring and Control Centre of Guangdong Yue Gang Water Supply Co Ltd (粵港供水公司安全監控中心), where the Dongshen Branch of the Shenzhen Public Security Bureau (深圳市公安局東深分局) monitors the Dedicated Aqueduct and Shenzhen Reservoir via remote video monitoring. The delegation was briefed on the security measures adopted for the protection of the Dedicated Aqueduct and the Dongjiang. The delegates learned that the Centre played an important role in safeguarding the supply of Dongjiang water to Hong Kong.

## **SECTION C – PRESS CONFERENCE**

10. To conclude the visit of the Dongjiang Water Supply System, the Chairman, Dr CHAN Hon Fai held a press conference with five members, namely Dr CHEUNG Yun Hing, Richard, Mr LAU Yuet Fan, Ivan, Ms TONG Po Chun, Dr WONG Siu Wing, Eric and Dr LAU Wai Neng, Michael in the headquarters of WSD upon returning to Hong Kong. The press conference was started with a briefing by the Chairman summarizing the observations in the visit with the aid of a short video. Other members also shared their observations in the visit. They were of the view that the quality of Dongjiang water was satisfactory. They also appealed to the public of Hong Kong to conserve the precious water resources.

## **SECTION D – CONCLUSION**

11. The delegation considered the visit very successful and fruitful and they learned about the latest development of the work of the GD Authorities in protecting the Dongjiang water. They would like to thank WSD, the officials of the Department of Water Resources of Guangdong Province (廣東省水利廳) and the executives of the Guangdong Yue Gang Water Supply Co Ltd (廣東粵港供水有限公司) for arranging the visit for them. They appreciated the opportunity to reflect the concerns of Hong Kong people on the quality of Dongjiang water to the GD Authorities through direct dialogue with their officials.

12. The delegation would also like to express appreciation for the commitment and efforts made by the GD Authorities in maintaining reliable Dongjiang water supply to Hong Kong despite the increasing demand for Dongjiang water in the GD cities to cope with their economic growth.

13. The delegation considered that the visit should continue to be arranged for members of the Advisory Committee on Water Resources and Quality of Water Supplies in future so they can keep abreast of the latest development of the work in protecting the quality of Dongjiang water by the GD Authorities.

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**ANNEXURE**

<b>Annex 1</b>	<b>List of Participants</b>
<b>Annex 2</b>	<b>Itinerary</b>

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### List of Participants

姓名 Name		職銜 Title
<b>水資源及供水水質事務諮詢委員會 ACRQWS</b>		
1	陳漢輝博士 Dr CHAN Hon Fai	主席 Chairman
2	林天星先生 Mr LAM Tin Sing, Enoch	副主席 Vice-Chairman
3	張潤興博士 Dr CHEUNG Yun Hing, Richard	委員 Member
4	劉乙凡先生 Mr LAU Yuet Fan, Ivan	委員 Member
5	湯寶珍女士 Ms TONG Po Chun	委員 Member
6	黃兆榮博士 Dr WONG Siu Wing, Eric	委員 Member
7	劉惠寧博士 Dr LAU Wai Neng, Michael	委員 Member
8	黃奕進先生 Mr VY Ek Chin	委員 Member
9	葉哲奇先生 Mr IP Chit Ki	秘書 Secretary
<b>其他 Others</b>		
10	周世威先生 Mr CHAU Sai Wai	水務署助理署長 Assistant Director, Water Supplies Department
11	林文鵬先生 Mr LAM Man Pang, Roger	水務署總工程師 Chief Engineer, Water Supplies Department
12	郭有定先生 Mr KWOK Yau Ting, Kelvin	水務署總水務化驗師 Chief Chemist, Water Supplies Department
13	曾頌文先生 Mr TSANG Chung Man	水務署工程師 Engineer, Water Supplies Department
14	黎達豪先生 Mr LAI Tat Ho	政府新聞處攝影師 Photographer, Information Services Department



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**Itinerary**

**Day 1 (8 December 2015, Tuesday)**

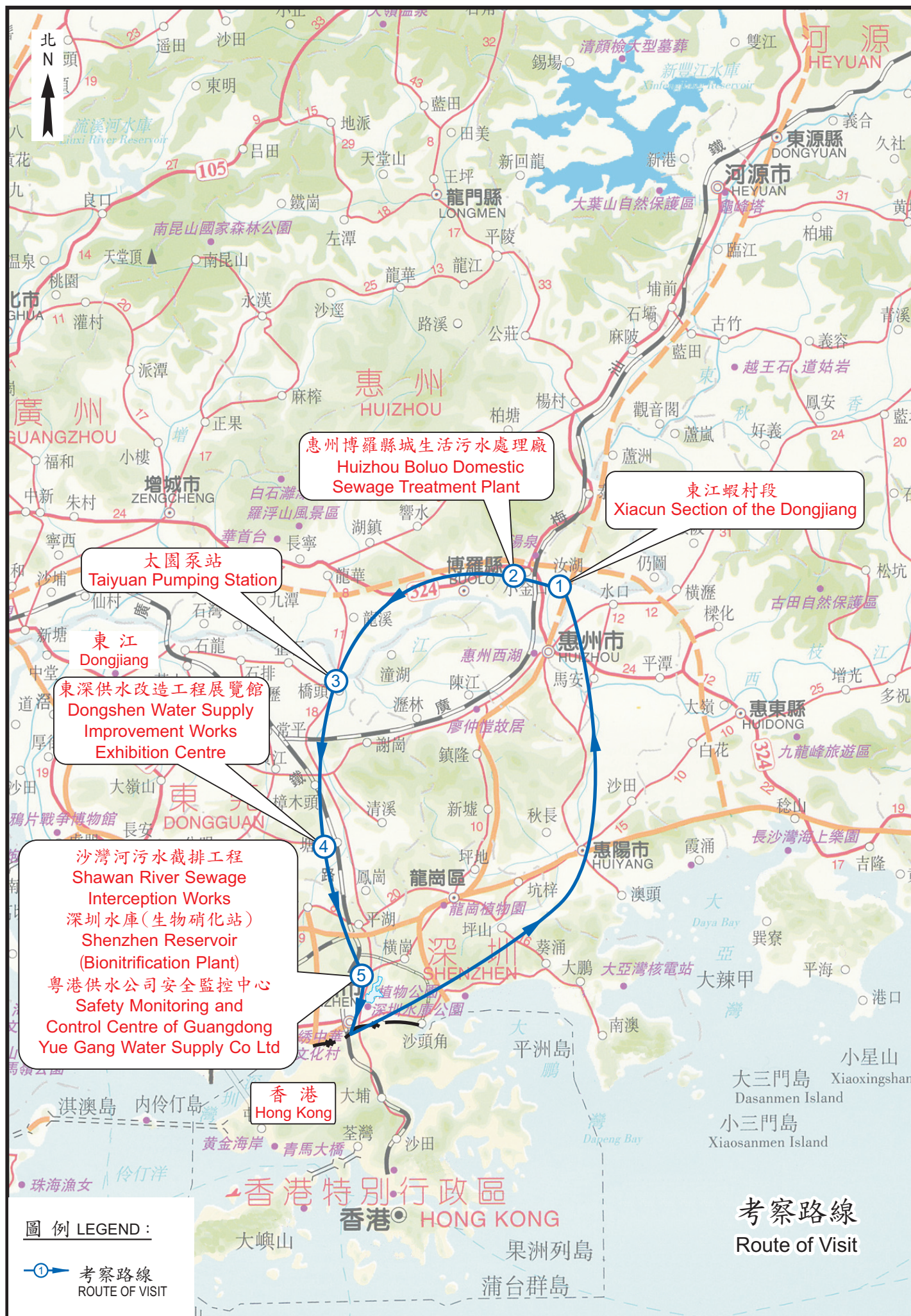
- 08:15 Depart at Hung Hom Station
- 11:00 Visit Xiacun Section of Dongjiang (東江蝦村段)
- 12:30 Lunch
- 13:30 Visit Boluo Domestic Sewage Treatment Plant  
(博羅縣城生活污水處理廠)
- 15:00 Visit Taiyuan Pumping Station (太園泵站)
- 16:00 Visit Dongshen Water Supply Improvement Works Exhibition Centre  
(東深供水改造工程展覽館)
- 18:30 Dinner

**Day 2 (9 December 2015, Wednesday)**

- 08:45 Visit Shawan River Sewage Interception Works in Shenzhen  
(深圳市沙灣河污水截排工程)
- 10:45 Visit Bio-nitrification Plant (生物硝化站) at Shenzhen Reservoir  
(深圳水庫)
- 11:30 Visit the Safety Monitoring and Control Centre of Guangdong Yue Gang  
Water Supply Co Ltd (粵港供水公司安全監控中心)
- 12:30 Lunch
- 13:45 Return to Hong Kong via Lo Wu
- 16:00 Convene a press conference at WSD Headquarters, Immigration Tower

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**ROUTE OF VISIT**



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**PHOTOS**





Photo 1 – The delegation at Xiacun Section of the Dongjiang



Photo 2 – The Chairman and Vice-chairman of ACRQWS  
(from right to left) at Xiacun Section of the Dongjiang





Photo 3 – The delegation at Boluo Domestic Sewage Treatment Plant



Photo 4 – The Chairman of ACRQWS observed the treated effluent of the Boluo Domestic Sewage Treatment Plant





Photo 5 – The delegation at Taiyuan Pumping Station



Photo 6 – The delegation at Taiyuan Pumping Station





Photo 7 – The delegation at Taiyuan Pumping Station



Photo 8 – The delegation at Taiyuan Pumping Station



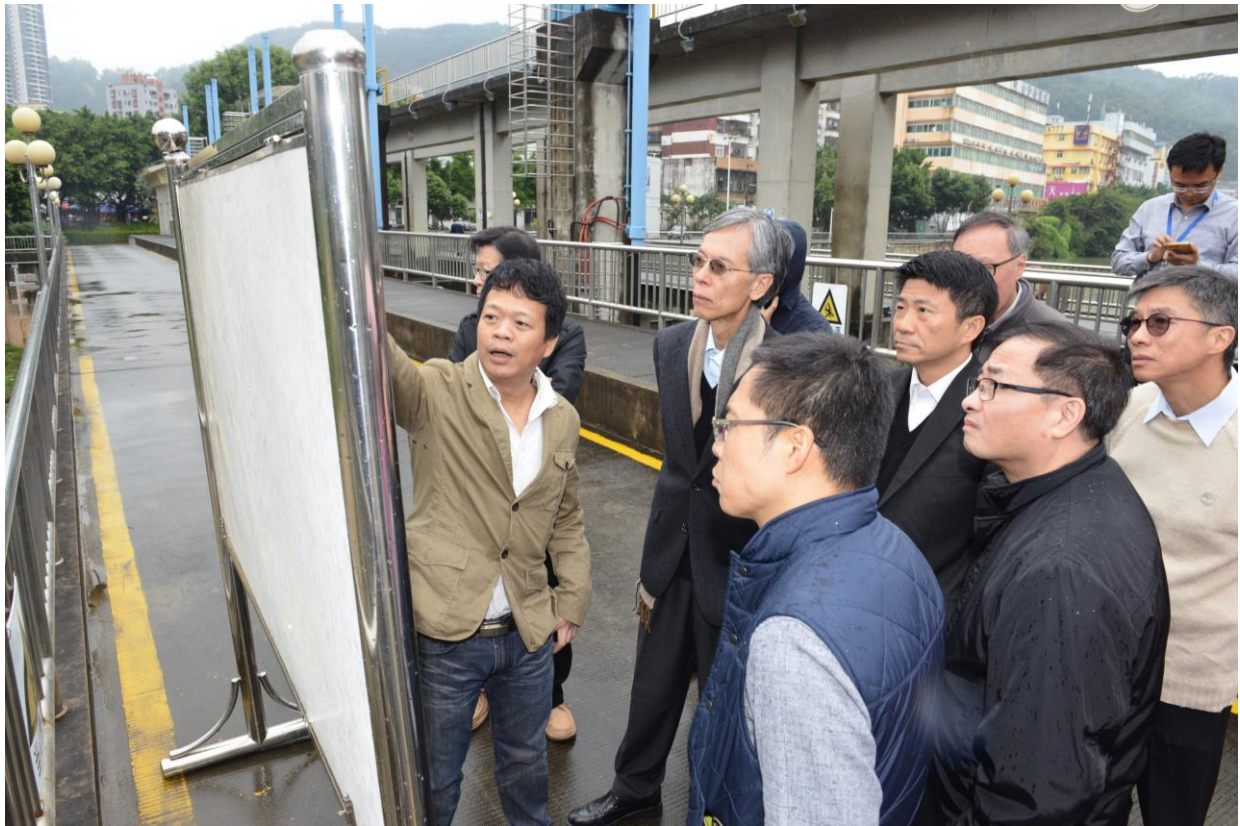


Photo 9 – The delegation at Shawan River Sewage Interception Works

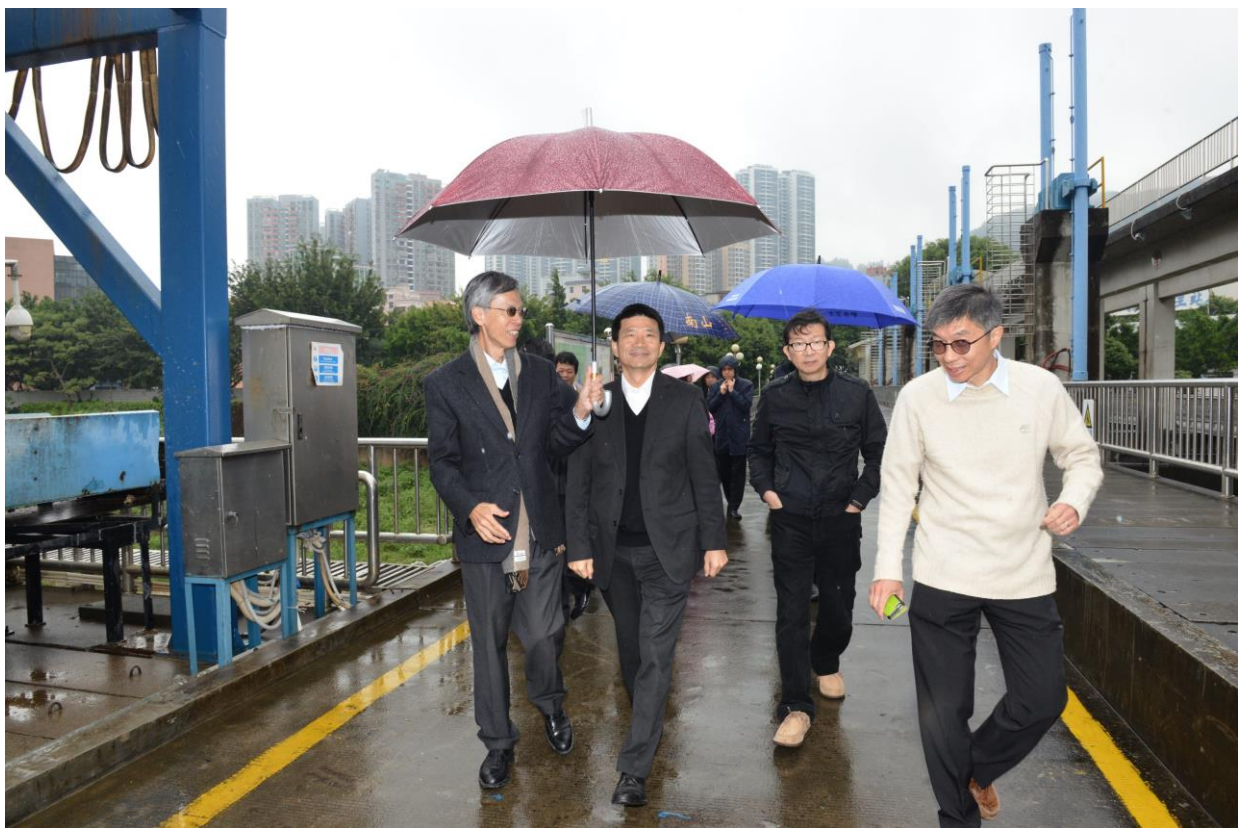


Photo 10 – The delegation at Shawan River Sewage Interception Works





Photo 11 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir



Photo 12 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir





Photo 13 – The delegation at the Safety Monitoring and Control Centre of Guangdong Yue Gang Water Supply Co Ltd



Photo 14 – The delegation at the Safety Monitoring and Control Centre of Guangdong Yue Gang Water Supply Co Ltd





Photo 15 – The press conference



Photo 16 – The press conference

