

Report No. 14

Visit to Dongjiang Water Supply System (28 - 30 November 2012)



Advisory Committee on Water Resources and Quality of Water Supplies

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

CONTENT

Section	Description	Page
A	Introduction	1
B	The Visit	2
C	Press Conference	6
D	Conclusion	7

ANNEXURE

FIGURE

PHOTOS

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

SECTION A - INTRODUCTION

A delegation of the Advisory Committee on Water Resources and Quality of Water Supplies (ACRQWS) comprising nine non-official members, one official member and six other HKSAR Government officials (see details at **Annex 1**) conducted its annual visit to the Dongjiang-Shenzhen Water Supply System (東深供水系統) during 28-30 November 2012 after the expansion of the Advisory Committee on 1 April 2012 from its predecessor, Advisory Committee on the Quality of Water Supplies (ACQWS). Being accompanied by officials of the Department of Water Resources of Guangdong (GD) Province (廣東省水利廳) and executives of the Guangdong Yue Gang Water Supply Limited (廣東粵港供水有限公司), the delegation led by the Chairman, Dr CHAN Hon Fai, met various officials of the local governments during the visit. The itinerary is appended at **Annex 2**.

2. Apart from visiting various installations of the Dongjiang-Shenzhen Water Supply System as in previous visits conducted by the ACQWS, a discussion forum with the Bureau of Dongjiang River Basin Administration (東江流域管理局) and an inspection of the Dongjiang water quality at a very close distance by walking along the Green Way (綠道) at Huizhou (惠州) were arranged for the delegation this time.

SECTION B – THE VISIT

3. While there was heavy rain on arrival at Heyuan on the first day, the delegation immediately went to the first destination, the Xinfengjiang Reservoir (新豐江水庫) which is the largest reservoir in regulating the flow in Dongjiang. Having a water surface area of about 370 square kilometres, the Reservoir has a storage capacity of about 13.9 billion cubic metres which is about 50 times of that of Hong Kong's High Island Reservoir. To have a close observation on the quality of the water in the



Reservoir, the delegation took a boat ride on the Reservoir and had an extensive discussion in the boat with the officials including the Bureau Director LI haiyan (李海燕局長) of the Bureau of Dongjiang River Basin Administration (the DJRBA

Bureau) on the work of the Guangdong Authorities in protecting the water resources in Dongjiang. The delegation were all impressed by the clean water quality in the Reservoir and appreciated the actions taken by the Heyuan Municipal People's Government to minimize all possible pollution to the Reservoir.

4. After finishing the visit at the Xinfengjiang Reservoir, the delegation then travelled to Huizhou (惠州) to prepare for the trip on the second day.

5. In the morning of the second day, all delegates took a 30-minute walk along a section of the Green Way at Huizhou, which is built along the bank of Dongjiang, for a close inspection on the water quality. The delegates could have a feel on the water quality by touching the water. Despite Huizhou locating at the middle reach of

Dongjiang, the Chairman and all other delegates considered the water was well protected and kept clean by the GD authorities and was free from contamination.



6. Following the walk along the Green Way was a presentation by and discussion with the DJRBA Bureau on the protection of Dongjiang water at the Bureau's office. Besides introducing its organisational structure and its work in managing the Dongjiang Basin, the DJRBA Bureau reported to the delegation about the progress of the "Dongjiang Water Quantity and Quality Monitoring and Control System". The delegates had a fruitful discussion with the DJRBA Bureau and expressed appreciation to the Bureau on the efforts paid in protecting the Dongjiang water and ensuring the quality of the water.



7. In the afternoon of the second day, the delegation went to the Boluo Domestic Sewage Treatment Plant (博羅縣城生活污水處理廠). This Sewage Treatment Plant was commissioned in two stages, viz. in October 2006 and in April 2010 with a total



treatment capacity of 60 000 tonnes of sewage a day. Now, this Sewage Treatment Plant is treating domestic sewage of a population of 250 000. While the Sewage

Treatment Plant is being operated by a Build-Operate-Transfer contractor, the relevant government authorities on Environmental Protection will conduct monthly inspections of the Sewage Treatment Plant and take water samples on site for quality monitoring. After visiting different parts of the plant and having been explained in detail the plant operations, members of the delegation all noted that, with the good management of the plant, the discharges complied with the required standards.

8. The delegation then travelled to the Taiyuan Pumping Station (太園泵站), the Dongjiang water intake point of Dongjiang-Shenzhen Water Supply System. The Pumping Station is situated on the southern bank of Dongjiang at Dongguan, at



a location about 350 m upstream of the junction of Shima River and Dongjiang. The design capacity of the Pumping Station is 100 cubic metres per second (m^3/s) at a pump head of 11 metres (m).

9. With the aid of a model of the Dongjiang-Shenzhen Water Supply System, the delegation was briefed about the alignment of the dedicated aqueduct and the operation of the Pumping Station. The delegation was also informed that Shima



River collects the discharges in Dongguan and the relevant authorities have implemented the Shima River Diversion Works, which diverts the flow from Shima River to the East Channel for treatment before discharging into the Pearl River so as to

avoid contaminating the DJ water at the intake point at Taiyuan Pumping Station. With the completion of the Division Works, the quality of Dongjiang water is thus further assured for abstraction for supply to Hong Kong.

10. On the third day, the delegation visited Dongshen Water Supply Improvement Works Exhibition Centre (東深供水改造工程展覽館) where delegates could, with the presentation by the demonstrators, understand the overall history of various stages of the improvement works of the



Dongjiang-Shenzhen Water Supply System. The delegates were all impressed by the extensive scope of the works and the tremendous efforts paid by the GD authorities in addressing our water shortage problem. The delegation then proceeded to the Jinhu Pumping Station (金湖泵站) which is the fourth and the last pumping station of the Dongjiang-Shenzhen Water Supply System for conveying water to the Shenzhen



Reservoir. The Pumping Station is equipped with 8 nos. of pumpsets (including 2 nos. standby) for a design capacity of 90 m³/s and a pump head of 25 m. Delegates all noted that proper and quality maintenance of the installations of the Dongjiang-Shenzhen Water Supply System was required to maintain a continuous supply of Dongjiang water to Hong Kong.

11. The delegation then went to the last destination of the visit, the

Bio-nitrification Plant (生物硝化廠) located at the inlet of Shenzhen Reservoir (深圳水庫). The Plant, of a capacity of 4 million cubic metres per day, receives and treats incoming water by removing the ammonia in the water before flowing to Shenzhen



Reservoir. Delegates noted that with the operation of the Bio-nitrification Plant and commissioning of the dedicated aqueduct, the quality of Dongjiang water supplied to Hong Kong had improved significantly and was kept stable and of good quality.

SECTION C – PRESS CONFERENCE

12. At the end of the visit, the Chairman, Dr CHAN Hon Fai (陳漢輝博士) and three members, namely, Ms WONG Wai Lan, Luciana (王惠蘭女士), Ms TONG Po Chun (湯寶珍女士) and Mr LAU Yuet Fan, Ivan (劉乙凡先生) hosted a press conference at the Headquarters of the Water Supplies Department upon returning to Hong Kong. To facilitate the press reporters to understand the contents of the trip and the quality of Dongjiang water, the Chairman gave a brief account of the visit with the aid of a short video highlighting the visit. The other members shared their observations on water quality of Dongjiang during the 3-day visit. They advised the press that the water quality of Dongjiang was satisfactory and appealed to the public of Hong Kong to conserve water.



SECTION D – CONCLUSION

13. After the visit, delegates were all satisfied with having opportunities to express their concerns of Hong Kong people on the quality of Dongjiang water to the GD Authorities direct. They also highly valued the continuous efforts made by the GD Authorities in protecting the Dongjiang water and abating pollution within the Dongjiang River Basin, as well as ensuring the water quality fully complies with the required standards before conveying to Hong Kong. In particular, delegates appreciated GD authorities in giving a presentation about the works/measures taken forward by GD in protecting Dongjiang water and having a discussion with them to facilitate the exchange of views among delegates and GD authorities. Delegates were also grateful to the commitment of the GD authorities to maintain a reliable supply of Dongjiang water to Hong Kong despite the increasing demand for Dongjiang water arising from their economic growth in the past years in cities along the river.

14. Given that the visit is a very good opportunity for members to understand the works done by and exchange views direct with the GD authorities, the delegates all consider that the visit should be arranged regularly.

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

ANNEXURE

Annex 1	List of Participants
Annex 2	Itinerary

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

List of Participants

姓名 Name		職銜 Title
水資源及供水水質事務諮詢委員會 ACRQWS		
1	陳漢輝博士 Dr CHAN Hon Fai	主席 Chairman
2	黃碧茵女士 Ms WONG Pik Yan, Nicole	委員 Member
3	劉乙凡先生 Mr LAU Yuet Fan, Ivan	委員 Member
4	潘樂祺先生 Mr POON Lock Kee, Rocky	委員 Member
5	王惠蘭女士 Ms WONG Wai Lan, Luciana	委員 Member
6	鄒桂昌教授 Prof CHAU Kwai Cheong	委員 Member
7	蘇綺青女士 Ms SO Yee Ching, Phyllis	委員 Member
8	湯寶珍女士 Ms TONG Po Chun	委員 Member
9	莫嘉嫻女士 Ms MOK Ka Han, Rosanda	委員 Member
10	黃國輝先生 Mr WONG Kwok Fai, Alfred	秘書 Secretary
其他 Others		
11	吳孟冬先生 Mr NG Mang Tung, Bobby	水務署副署長 Deputy Director, Water Supplies Department
12	錢柱森先生 Mr CHIN Chu Sum	水務署助理署長 Assistant Director, Water Supplies Department
13	陳健民先生 Mr CHAN Kin Man	水務署總化驗師 Chief Chemist, Water Supplies Department
14	李根基先生 Mr Li Kan Kay	水務署總工程師 Chief Engineer, Water Supplies Department
15	黃文基先生 Mr WONG Man Kei, David	水務署工程師 Engineer, Water Supplies Department
16	李樂軒先生 Mr LEE Lok Hin	政府新聞處攝影師 Photographer, Information Services Department

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

Itinerary

Day 1 (Wednesday, 28.11.2012)

- 08:18 Depart at Hung Hom Terminal by Through Train
- 12:00 Arrive at Heyuan (河源市)
- 12:00 Lunch
- 13:15 Visit Xinfengjiang Reservoir (新豐江水庫)
- 17:00 Arrive at Huizhou (惠州市)
- 18:00 Dinner

Day 2 (Thursday, 29.11.2012)

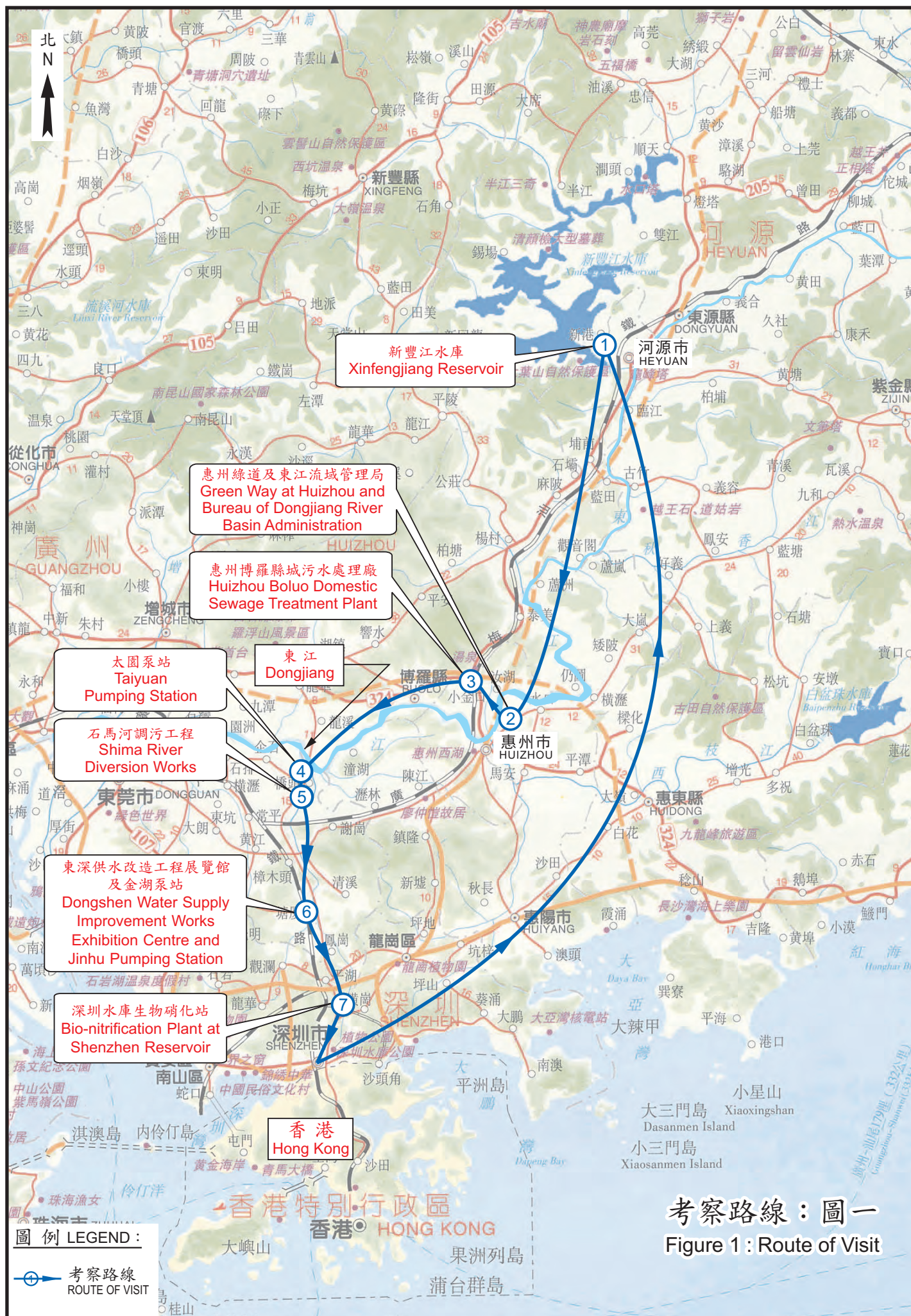
- 09:30 Walk along Green Way (綠道) at Huizhou (惠州市)
- 10:15 Discussion forum with the Bureau of Dongjiang River Basin Administration (東江流域管理局)
- 11:45 Lunch
- 13:00 Visit Boluo Domestic Sewage Treatment Plant (博羅縣城生活污水處理廠)
- 14:30 Visit Taiyuan Pumping Station (太園泵站) and Shima River Diversion Works (石馬河調污工程)
- 17:15 Arrive at Dongguan (東莞市)
- 17:45 Dinner

Day 3 (Friday, 30.11.2012)

- 08:30 Visit Dongshen Water Supply Improvement Works Exhibition Centre (東深供水改造工程展覽館) and Jinhu Pumping Station (金湖泵站)
- 10:00 Visit Bio-nitrification Plant (生物硝化廠) at Shenzhen Reservoir (深圳水庫)
- 12:30 Lunch
- 13:45 Return to Hong Kong via Lo Wu
- 16:00 Convene a press conference at WSD Headquarters, Immigration Tower

Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

FIGURE



Advisory Committee on Water Resources and Quality of Water Supplies
Report No. 14 – Visit to Dongjiang Water Supply System
(28 – 30 November 2012)

PHOTOS

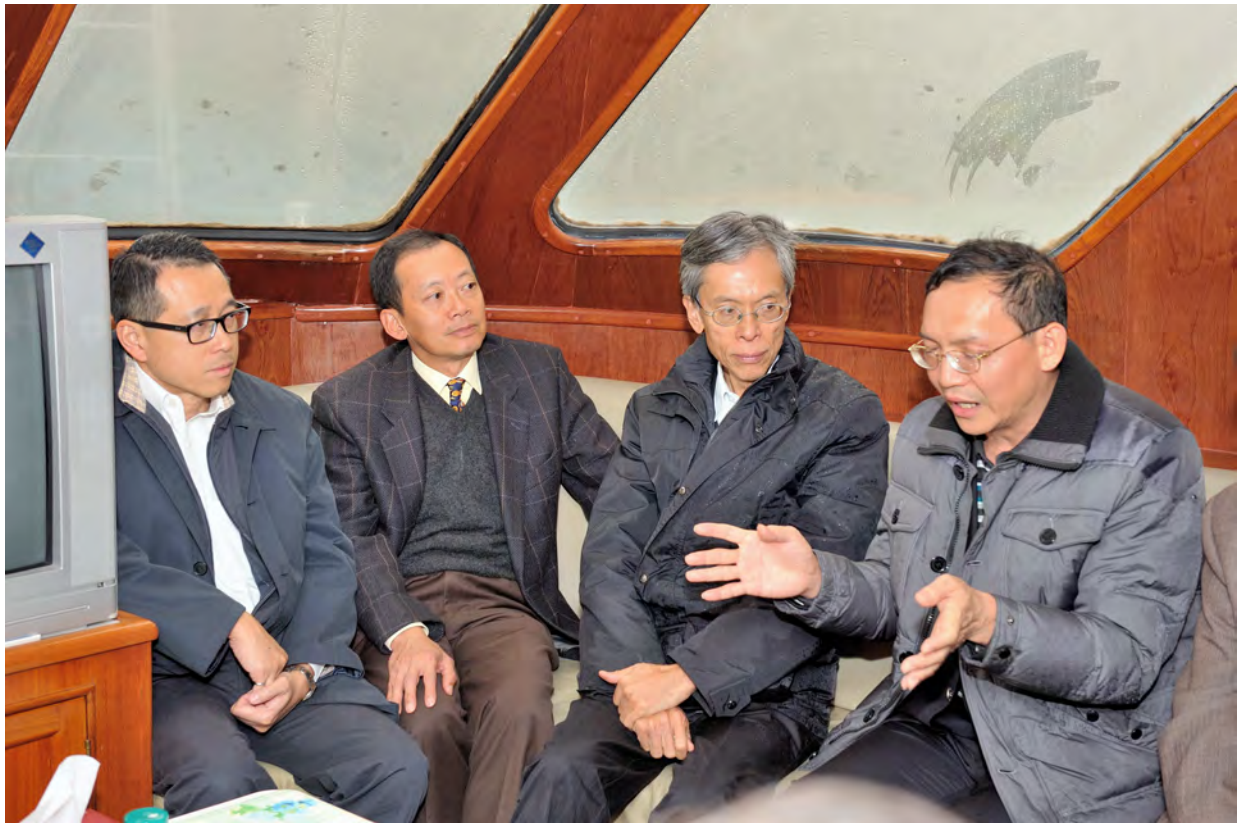


Photo 1 – Discussion between the delegation and the Guangdong Authorities during the boat ride at Xinfengjiang Reservoir



Photo 2 – Deputy Director of Water Supplies and the Chairman of ACRQWS (from left to right) at Xinfengjiang Reservoir



Photo 3 – The delegation at Xinfengjiang Reservoir



Photo 4 – The delegation at Green Way, Huizhou



Photo 5 – The delegation at Green Way, Huizhou



Photo 6 – The delegation at Green Way, Huizhou



Photo 7 – Discussion with Bureau of Dongjiang River Basin Administration



Photo 8 – Discussion with Bureau of Dongjiang River Basin Administration



Photo 9 – Discussion with Bureau of Dongjiang River Basin Administration



Photo 10 – The delegation at Boluo Domestic Sewage Treatment Plant

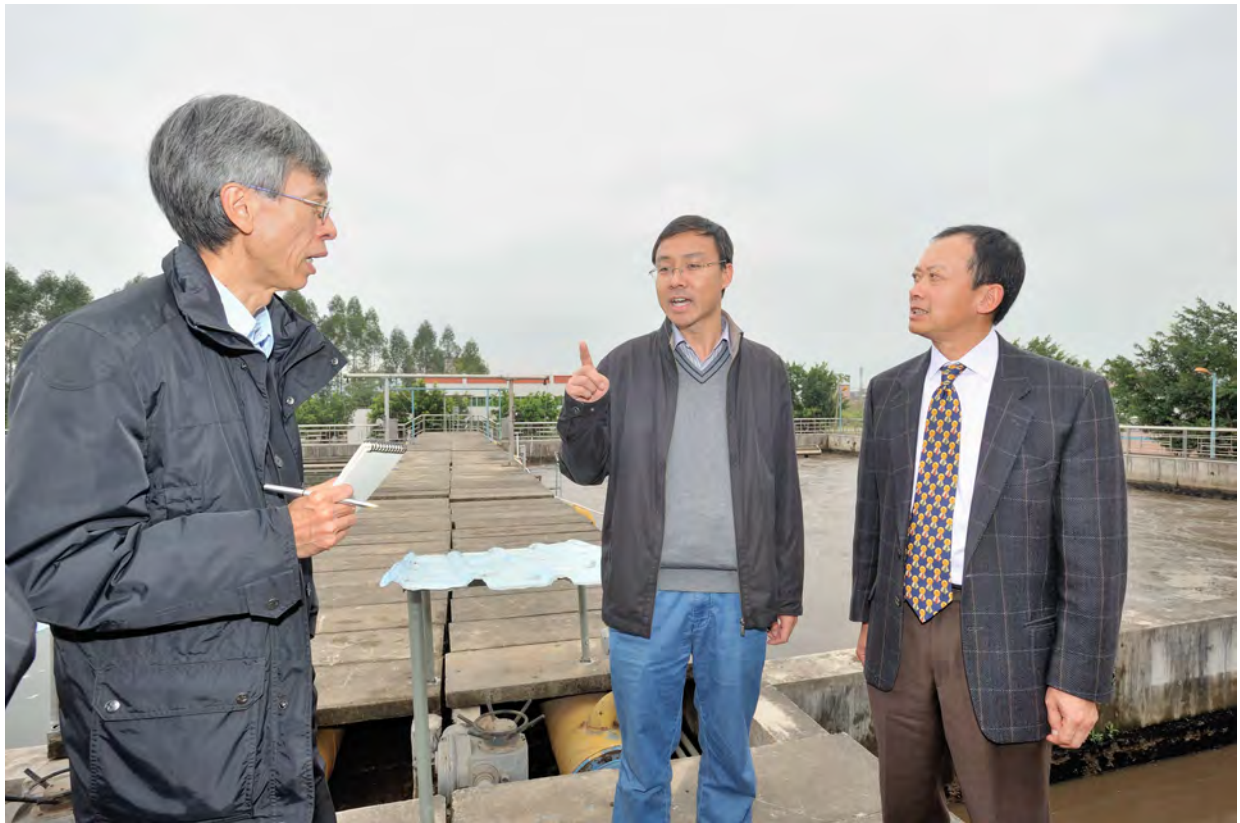


Photo 11 – The delegation at Boluo Domestic Sewage Treatment Plant



Photo 12 – The delegation at Boluo Domestic Sewage Treatment Plant



Photo 13 – The delegation at Taiyuan Pumping Station



Photo 14 – The delegation at Taiyuan Pumping Station



Photo 15 – Deputy Director of Water Supplies and the Chairman of ACRQWS
(from left to right) at Taiyuan Pumping Station



Photo 16 – The delegation at Dongshen Water Supply
Improvement Works Exhibition Centre



Photo 17 – The delegation at Dongshen Water Supply Improvement Works Exhibition Centre



Photo 18 – The delegation at Dongshen Water Supply Improvement Works Exhibition Centre



Photo 19 – Jinhu Pumping Station



Photo 20 – The delegation at Jinhu Pumping Station



Photo 21 – The delegation at Jinhu Pumping Station



Photo 22 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir



Photo 23 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir



Photo 24 – The delegation at Bio-nitrification Plant, Shenzhen Reservoir



Photo 25 – The press conference



Photo 26 – The press conference



Photo 27 – The press conference

