

# Advisory Committee on Water Supplies [2018-2020] Report on Visit to Dongjiang Water Supply System (27 – 29 November 2018)



## Advisory Committee on Water Supplies

**Advisory Committee on Water Supplies [2018-2020]**  
**Report on Visit to Dongjiang Water Supply System**  
**(27 – 29 November 2018)**

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**SECTION A - INTRODUCTION**

Delegation of the Advisory Committee on Water Supplies (ACWS) visited the Dongjiang (DJ) Water Supply System (東江供水系統) during the 3-day period from 27 to 29 November 2018. The delegation was led by the Chairman, Dr CHAN Hon Fai and the Vice-Chairman, Prof KWAN Kai Cho, Joseph, with seven non-official members and five official members of ACWS and seven other HKSAR Government officials (see details at **Annex 1**). The itinerary of the visit is appended at **Annex 2**. During the visit, the delegation met officials of the various Authorities of Guangdong (GD) as listed in **Annex 3** and was updated on their work in protecting the DJ as well as the quality of DJ water supply to Hong Kong.

**SECTION B – THE VISIT**

2. On arrival at Heyuan (河源) on the first day (27 November 2018), the delegation took a boat ride at the Xinfengjiang Reservoir (新豐江水庫) which is also known as Wanlu Lake (萬綠湖). With a water surface area of about 370 square kilometres and a storage capacity of about 13.9 billion cubic metres, the Reservoir is the largest reservoir at the upstream of DJ for regulating the flow in the river. During the boat ride in the Reservoir, the delegation inspected the quality of the DJ water in the Reservoir from a close distance and had a fruitful discussion with the officials of the Heyuan Municipal People's Government (HMPG) on the protection and



management of water resources in DJ. Noting the actions taken by the HMPG to prevent pollution, the delegation was impressed by the good quality of the DJ water in the Reservoir.

3. After finishing the visit at the Xinfengjiang Reservoir, the delegation went to Huizhou (惠州) and arrived there in the evening.

4. In the morning of the second day (28 November 2018), the delegation took a 45-minute walk along a section of the Green Way (綠道) at Huizhou, which is built along DJ, for a close inspection of the DJ water quality in this section of the river. The delegation noted that Huizhou locates at the middle reach of DJ, upstream of the point of abstraction of DJ water for supplying to Hong Kong. They considered that this section of DJ was in general well protected and there was no noticeable contamination of the DJ water.

5. The delegation then travelled to the DJ River Basin Water Quantity and Quality Monitoring and Control Center (東江流域水量水質監控中心) managed by the Bureau of Dongjiang River Basin Administration (東江流域管理局). The officials of the center briefed the delegation on the monitoring system in the center for the water quantity and quality of main stream sections, water intake points and sewage discharge points in the DJ river basin and the three major reservoirs in the upstream of DJ (i.e. Fengshuba Reservoir (楓樹壩水庫), Xinfengjiang Reservoir and Baipenzhu Reservoir (白盆珠水庫)). The delegation then had a meeting with officials from the Department of Water Resources of Guangdong Province (DWRGP) (廣東省水利廳) and the Bureau of Dongjiang River Basin Administration. The delegation was briefed on the achievements of the Dongjiang River Basin Water Resource Allocation Scheme

(廣東省東江流域水資源配置方案) which has been implemented for 10 years. They were also updated on the implementation of the “River Chiefs System” (河長制). The delegation was satisfied with the effort of DWRGP and the Bureau of Dongjiang River Basin Administration in securing the DJ water supply for Hong Kong in terms of both quantity and quality.

6. In the afternoon of the second day, the delegation went to Dongguan to visit the Taiyuan Pumping Station (太園泵站) and the Dongshen Water Supply Improvement Works Exhibition Center (東深供水改造工程展覽館).

7. Taiyuan Pumping Station has a designed capacity of 100 cubic metres per second ( $\text{m}^3/\text{s}$ ) and a pump head of 11 metres (m). It is the point where the DJ water for supplying to Hong Kong is abstracted. The abstracted DJ water is then conveyed through the Dedicated Aqueduct (東江供水專用輸水管道) to Shenzhen Reservoir(深圳水庫) before delivery to Hong Kong. The delegation was shown the model of the Dongjiang-Shenzhen Water Supply System (東江—深圳供水系統) in the pumping station and briefed on the alignment and operation of the Dedicated Aqueduct. The delegation noted that the abstraction point of DJ water for supplying to Hong Kong was at about 350 m upstream of the junction of the Shima River and DJ and the polluted water if any in Shima River was prevented from entering the abstraction point by means of a fabridam.

8. At the Dongshen Water Supply Improvement Works Exhibition Center, a presentation on the history of the various stages of expansion and improvement of the Dongjiang-Shenzhen Water Supply System was given to the delegation. The delegation was impressed by the scale of the works and the efforts made by the GD



Authorities in ensuring adequate supply of DJ water to Hong Kong. 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 the DJ water to the Shenzhen Reservoir. The pumping station has a designed capacity of 100 m<sup>3</sup>/s and a pump head of 25 m. The delegation noted the proper and quality maintenance of the installations of the Dongjiang-Shenzhen Water Supply System which is crucial for maintaining a continuous supply of DJ water to Hong Kong.

9. In the morning of the third day (29 November 2018), the delegation visited the expanded Budixia Water Purification Plant (埔地嚇水質淨化廠) as well as the Integrated Improvement Works for the Water Environment of Shawan River (沙灣河水環境綜合整治工程) and Shawan River Sewage Interception Works (沙灣河污水截排工程) in Shenzhen. In the past, the Shawan River (沙灣河) used to discharge into the Shenzhen Reservoir thus affecting the quality of the DJ water supply to Hong Kong. The delegation noted that with the completion of the Shawan River Sewage Interception Works, the polluted low flow of Shawan River had 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. Therefore, the polluted low flow of Shawan River no longer discharges into Shenzhen Reservoir thus safeguarding the quality of the DJ water supply to Hong Kong.

10. Nevertheless, the Shawan River would still overflow into the Shenzhen Reservoir during severe rainstorm. The delegation noted the implementation of the Integrated Improvement Works for the Water Environment of Shawan River which



comprise desilting of Shawan River, laying of sewers for intercepting the municipal wastewater used to discharge into Shawan River and conveying it to the Budixia Water Purification Plant for treatment as well as expansion of the purification plant. The delegation noted that the integrated improvement works were progressing well and the water quality in Shawan River had improved significantly as compared to the past few years. The delegation anticipated that the effect on the water quality in Shenzhen Reservoir in future overflow from Shawan River into the reservoir during severe rainstorm would be greatly reduced thus protecting the quality of DJ water supply to Hong Kong.

11. Before the end of the trip, the delegation went to the 110 Command Center of the Dongshen Branch of the Shenzhen Public Security Bureau (東深公安分局 110 指揮中心), which monitors the Dedicated Aqueduct and Shenzhen Reservoir via an all-around all-weather remote video network. The delegation was briefed on the security measures adopted for protection of the Dedicated Aqueduct and the Shenzhen Reservoir. The delegates learned that the center played an important role in safeguarding the supply of DJ water to Hong Kong.

## **SECTION C – PRESS CONFERENCE**

12. To conclude the visit of the DJ Water Supply System, the Chairman, Dr CHAN Hon Fai, the vice-chairman, Prof KWAN Kai Cho, Joseph, with three non-official members of ACWS, namely Dr HO Shu Kwong, Raymond, Dr WONG Siu Wing, Eric and Ir NG Chun Keung held a press conference in WSD headquarters upon returning to Hong Kong. The press conference started with a briefing by the



Chairman summarizing the observations in the visit with the aid of a photo slideshow. Other members also shared their observations in the visit. They were of the view that the quality of DJ water was satisfactory and they were impressed by the significant improvement to the water quality of Sha Wan River with implementation of the Integrated Improvement Works for the Water Environment of Shawan River.

## **SECTION D – CONCLUSION**

13. The delegation considered the visit very successful and fruitful in which they learned about the latest development of the work of the GD Authorities in protecting DJ and the quality of DJ water supply to Hong Kong. They were thankful to the WSD, the officials of the DWRGP 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 have direct dialogue with officials of the various GD Authorities regarding the protection of DJ and the quality of DJ water supply to Hong Kong.

14. The delegation was grateful for the commitment and efforts made by the GD Authorities in maintaining a reliable DJ water supply to Hong Kong in full compliance with the required water quality standards despite the increasing demand for DJ water in the GD cities to cope with their economic growth.

15. The delegation considered that the visit should continue to be arranged for members of the ACWS in future so that they can monitor the DJ water quality and keep abreast of the latest development of the work in protecting DJ and the quality of DJ water supply to Hong Kong by the GD Authorities.





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**ANNEXURE**

<b>Annex 1</b>	<b>List of Guangdong Authorities Met</b>
<b>Annex 2</b>	<b>List of Delegates</b>
<b>Annex 3</b>	<b>Itinerary</b>

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**List of Guangdong Authorities Met**

1	廣東省水利廳 Department of Water Resources of Guangdong Province
2	東江流域管理局 Bureau of Dongjiang River Basin Administration
3	河源市人民政府 Heyuan Municipal People's Government
4	河源市水務局 Heyuan Water Authority
5	惠州市水務局 Huizhou Water Authority
6	深圳市水務局 Shenzhen Water Authority
7	粵港供水有限公司 Guangdong Yue Gang Water Supply Company Limited

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**List of Delegates**

姓名 Name		職銜 Title
水務諮詢委員會 ACWS		
1	陳漢輝博士 Dr CHAN Hon Fai	主席 Chairman
2	關繼祖教授 Prof KWAN Kai Cho, Joseph	副主席 Vice-Chairman
3	黃仲良先生 Mr WONG Chung Leung	委員, 水務署署長 Member, Director of Water Supplies
4	鄭文聰教授 Prof CHENG Man Chung, Daniel	委員 Member
5	朱威教授 Prof CHU Wei	委員 Member
6	何樹光博士 Dr HO Shu Kwong, Raymond	委員 Member
7	黃兆榮博士 Dr WONG Siu Wing, Eric	委員 Member
8	伍振強工程師 Ir NG Chun Keung	委員 Member
9	劉祉鋒先生 Mr LAU Che Fung, Edwin	委員 Member
10	譚國榮先生 Mr TAM Kwok Wing, Ivan	委員 Member
11	趙詠詩女士 Ms CHIU Wing Sze, Ivy	委員代表 Member's Representative
12	周厚強先生 Mr CHOW Hau Keung, Vincent	委員代表 Member's Representative
13	李蒞女士 Ms LEE Lee	委員代表 Member's Representative
14	羅郁發先生 Mr LAW Yuk Fat, Robin	秘書 Secretary

姓名 Name		職銜 Title
香港特別行政區政府官員 HKSAR Government Officials		
15	黃恩諾先生 Mr WONG Yan Lok, Roger	水務署助理署長 Assistant Director, Water Supplies Department
16	陳國泰先生 Mr CHAN Kwok Tai, Patrick	水務署總工程師 Chief Engineer, Water Supplies Department
17	郭有定先生 Mr KWOK Yau Ting, Kelvin	水務署總水務化驗師 Chief Chemist, Water Supplies Department
18	陳熾淇女士 Ms CHAN Man Ki, Fion	水務署工程師 Engineer, Water Supplies Department
19	劉俊沅先生 Mr LAU Chun Yuen, Anthony	水務署工程師 Engineer, Water Supplies Department
20	鄧慧儀女士 Ms TANG Wai Yee, Carol	水務署高級新聞主任 Senior Information Officer, Water Supplies Department
21	江智騫先生 Mr KONG Chi-hin, Mickey	政府新聞處攝影師 Photographer, Information Services Department

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**Itinerary**

**Day 1 (27 November 2018, Tuesday)**

08:15 Depart Hung Hom Station  
12:30 Arrive at Heyuan (河源)  
12:30 Lunch  
13:30 Visit Xinfengjiang Reservoir (新豐江水庫)  
18:30 Arrive at Huizhou (惠州)  
19:00 Dinner

**Day 2 (28 November 2018, Wednesday)**

09:00 Walk along Dongjiang (DJ) at Green Way (綠道) at Huizhou (惠州)  
09:45 Visit DJ River Basin Water Quantity and Quality Monitoring and Control Center (東江流域水量水質監控中心) and meeting with Department of Water Resources of Guangdong Province (廣東省水利廳) and Bureau of DJ River Basin Administration (東江流域管理局)  
12:00 Lunch  
13:30 Depart Huizhou (惠州)  
14:45 Visit Taiyuan Pumping Station (太園泵站)  
16:30 Visit Dongshen Water Supply Improvement Works Exhibition Center (東深供水改造工程展覽館) and Jinhu Pumping Station (金湖泵站)  
18:30 Arrive at Dongguan (東莞)  
18:30 Dinner

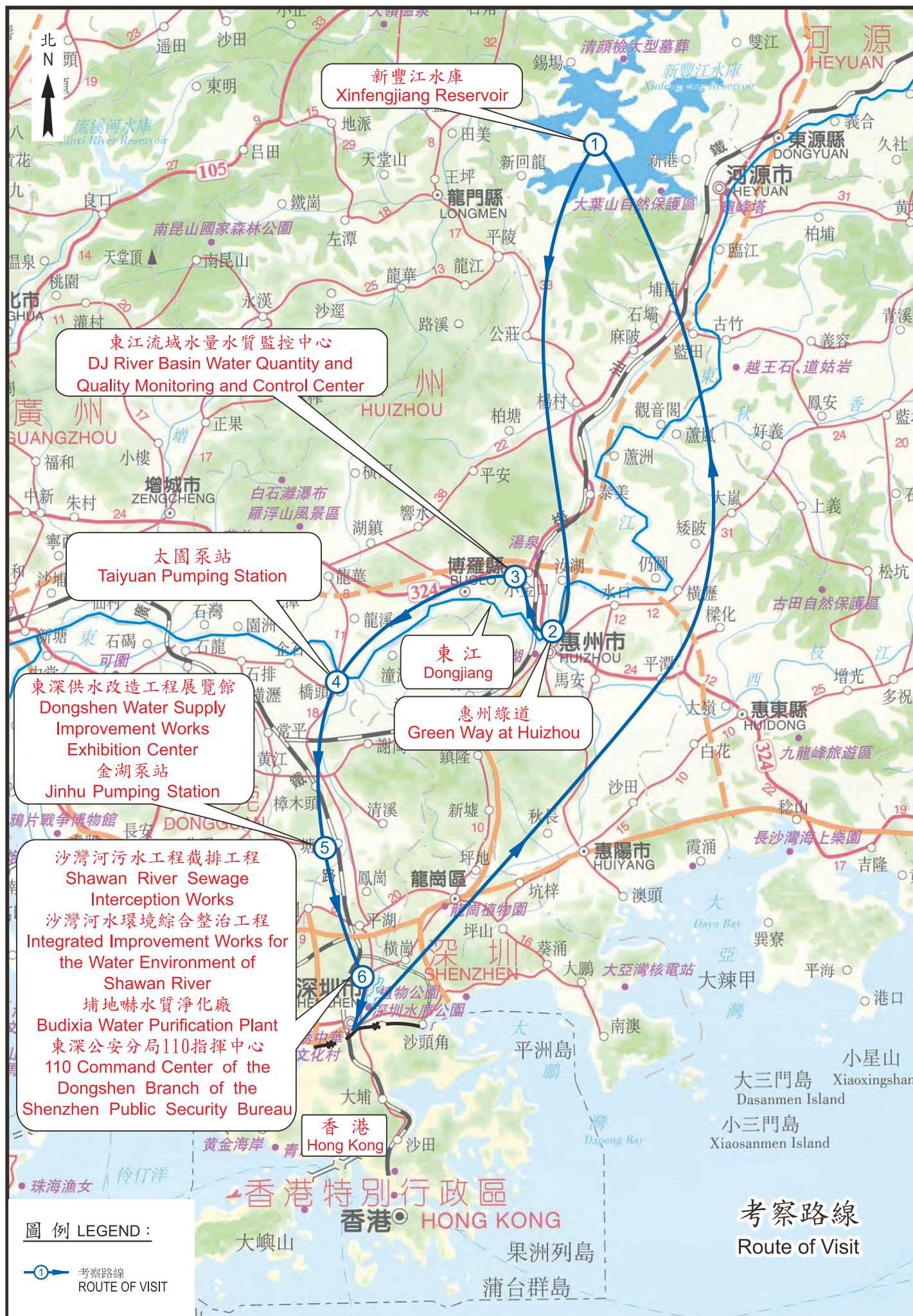
**Day 3 (29 November 2018, Thursday)**

- 08:30 Depart Dongguan (東莞)
- 09:30 Visit Budixia Water Purification Plant (埔地嚇水質淨化廠), Integrated Improvement Works for the Water Environment of Shawan River (沙灣河水環境綜合整治工程) and Shawan River Sewage Interception Works in Shenzhen (深圳市沙灣河污水截排工程)
- 11:30 Visit 110 Command Centre of the Dongshen Branch of the Shenzhen Public Security Bureau (東深公安分局110指揮中心)
- 13:00 Lunch
- 14:30 Return to Hong Kong via Lo Wu
- 16:30 Press conference at WSD Headquarters, Immigration Tower

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**ROUTE OF VISIT**







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**PHOTOS**



Photo 1 – Discussion between the delegation and the official of Heyuan Municipal People's Government during the boat ride on Xinfengjiang Reservoir



Photo 2 – Visit of the delegation to Green Way along Dongjiang (DJ) at Huizhou



Photo 3 – Briefing the delegation on the model of the DJ River Basin at DJ River Basin Water Quantity and Quality Monitoring and Control Center



Photo 4 – Briefing the delegation on the operation of the DJ River Basin Water Quantity and Quality Monitoring and Control Centre





Photo 5 – Meeting between the delegation and officials of the Department of Water Resources of Guangdong Province and the Bureau of Dongjiang River Basin Administration



Photo 6 – Briefing the delegation on the model of the Dongshen Water Supply System Improvement Works at Taiyuan Pumping Station



Photo 7 – Visit of the delegation to Taiyuan Pumping Station



Photo 8 – Visit of the delegation to Dongshen Water Supply Improvement Works Exhibition Centre





Photo 9 – Briefing the delegation on expansion of Budixia Water Purification Plant



Photo 10 – Briefing the delegation on Integrated Improvement Works for the Water Environment of Shawan River





Photo 11 – Visit of the delegation to Integrated Improvement Works for the Water Environment of Shawan River



Photo 12 – Visit of the delegation to 110 Command Centre of the Dongshen Branch of the Shenzhen Public Security Bureau



Photo 13 – Press conference



