

**Guangdong-Hong Kong-Macao
Pearl River Delta
Regional Air Quality Monitoring Network**

April to June 2016

**Statistical Summary of the Second Quarter
Monitoring Results**

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1. Foreword

Since the Pearl River Delta (PRD) Regional Air Quality Monitoring Network came into operation on 30 November 2005, it has been reporting PRD Regional Air Quality Index (RAQI) to the public on a daily basis. Starting from 2006, a half-yearly and an annual air quality monitoring reports were published every year. The network was enhanced and expanded in September 2014 and the network was renamed “Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network” (the “Network”) accordingly.

With the enhancement of the Network, the update of the national ambient air quality standards and the increase of reporting frequency of monitoring results, we have been reporting real time monitoring data of the Network on an hourly basis to replace the daily RAQI through a new internet platform and publish a quarterly air quality monitoring report to replace the previous half-yearly report and continue the publishing of annual air quality monitoring reports starting from 2014. The quarterly report is mainly a brief statistical summary of the monitoring results of the regional air quality in a quarter while the annual report, in addition to the reporting of the relevant data, will provide a more detailed analysis and comparison of the condition of air quality in the year. Since the fourth quarterly report in 2014, statistical results of carbon monoxide (CO) and fine suspended particulates (PM_{2.5} or FSP) have been added to the report in addition to those of respirable suspended particulates (PM₁₀ or RSP), sulphur dioxide (SO₂), nitrogen dioxide (NO₂), and ozone (O₃).

This report, “Statistical Summary of the 2016 Second Quarter Monitoring Results of PRD Regional Air Quality Monitoring Network”, is the tenth one published in the form of a quarterly report and is the seventh one reporting the statistical summaries of the six pollutants (i.e. PM₁₀, SO₂, NO₂, O₃, CO and PM_{2.5}) in the Network.

2. Introduction to Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network

The PRD Regional Air Quality Monitoring Network was jointly established by the Guangdong Provincial Environmental Monitoring Centre (GDEMC) and the Environmental Protection Department of the Hong Kong Special Administrative Region (HKEPD) from 2003 to 2005. The network came into operation on 30 November 2005.

In view of the growing needs of air pollution control and economic development of the region, the environmental protection departments of Guangdong and Hong Kong have worked in collaboration with the environmental protection cum meteorological authority of Macao to enhance the network by extending the coverage of monitoring area to the 3 places, i.e. Guangdong, Hong Kong and Macao, in September 2014. The enhancement included the increase of number of monitoring station from 16 to 23 to further improve the spatial distribution; and the addition of two more monitoring parameters, i.e. carbon monoxide (CO) and fine suspended particulates (PM_{2.5}), to enrich the air quality monitoring information. The network was accordingly renamed “Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network” (the “Network”). The GDEMC, HKEPD, Environmental Protection Bureau of Macao SARG and Meteorological and Geophysical Bureau of Macao SARG have jointly established the "Quality Management Committee of Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network" to undertake quality management and dissemination of information for the Network.

The Network comprises 23 automatic air quality monitoring stations (see Figure 2.1) across the PRD region. Ten of these stations are operated by the Environmental Monitoring Centres of the individual cities in Guangdong while eight regional stations are operated by the GDEMC. The four stations located in Hong Kong are managed by the HKEPD and the remaining one in Macao is operated by Meteorological and Geophysical Bureau of Macao SARG.

All stations are installed with equipment to measure the ambient concentrations of PM₁₀, PM_{2.5}, SO₂, NO₂, O₃ and CO.

Annexes A and B set out, respectively, the site information of the monitoring stations in the Network and the methods used for measuring air pollutant concentrations.



Figure 2.1 : Spatial Distribution of Monitoring Stations in the Network

Remark: For the boundary of the administrative division of the Macao Special Administrative Region, according to the Decree n.°665 of the State Council of the People’s Republic of China, “the map of the administrative division of the Macao Special Administrative Region” was approved at the 116th Executive Meeting of the State Council on 16 December 2015.

3. Operation of the Network

The operation of the Network was generally smooth in the second quarter of 2016. The average hourly data capture rate of all monitoring stations in the Network was 95.4%.

4. Statistical Analysis of Pollutant Concentrations

Table 4.1a to Table 4.6b list the statistical summaries of monitoring results of the ambient concentrations of the six air pollutants (SO₂, NO₂, O₃, CO, PM₁₀ and PM_{2.5}) during the reporting period from April to June 2016.

Table 4.1a : The monthly maxima and minima of hourly averages of SO₂

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 1 | 38 | 1 | 34 | 3 | 119 |
| Modiesha (Guangzhou) | 4 | 50 | 3 | 42 | 3 | 27 |
| Wanqingsha (Guangzhou) | 12 | 98 | 2 | 67 | 6 | 68 |
| Tianhu (Guangzhou) | 5 | 43 | 3 | 28 | 6 | 36 |
| Zhudong (Guangzhou) | 6 | 51 | 5 | 61 | 5 | 46 |
| Liyuan (Shenzhen) | 2 | 28 | 3 | 20 | 4 | 24 |
| Jinjuzui (Foshan) | 7 | 73 | 7 | 64 | 4 | 52 |
| Huijingcheng (Foshan) | 10 | 48 | 4 | 70 | 0 | 40 |
| Tangjia (Zhuhai) | 1 | 37 | 1 | 23 | 1 | 23 |
| Donghu (Jiangmen) | 9 | 49 | 10 | 50 | 1 | 33 |
| Duanfen (Jiangmen) | 2 | 28 | 2 | 24 | 2 | 18 |
| Huaguoshan (Jiangmen) | 14 | 134 | 11 | 83 | 11 | 64 |
| Chengzhong (Zhaoqing) | 6 | 246 | 1 | 334 | 1 | 424 |
| Xiapu (Huizhou) | 2 | 26 | 3 | 26 | 3 | 39 |
| Xijiao (Huizhou) | 0 | 25 | 6 | 26 | 6 | 35 |
| Jinguowan (Huizhou) | 7 | 19 | 6 | 18 | 6 | 40 |
| Zimaling (Zhongshan) | 4 | 36 | 4 | 43 | 1 | 17 |
| Nanchengyuanling (Dongguan) | 2 | 36 | 2 | 61 | 3 | 33 |
| Tap Mun (Hong Kong) | 7 | 42 | 7 | 20 | 6 | 26 |
| Tsuen Wan (Hong Kong) | 6 | 85 | 6 | 57 | 7 | 43 |
| Yuen Long (Hong Kong) | 6 | 38 | 6 | 29 | 6 | 51 |
| Tung Chung (Hong Kong) | 7 | 44 | 8 | 32 | 9 | 32 |
| Taipa Grande (Macao) | 0 | 46 | 0 | 37 | 0 | 82 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.1b : The monthly maxima and minima of daily averages of SO₂

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 4 | 23 | 3 | 18 | 7 | 14 |
| Modiesha (Guangzhou) | 6 | 30 | 3 | 16 | 3 | 12 |
| Wanqingsha (Guangzhou) | 14 | 37 | 7 | 25 | 6 | 22 |
| Tianhu (Guangzhou) | 6 | 24 | 6 | 17 | 8 | 18 |
| Zhudong (Guangzhou) | 10 | 28 | 8 | 25 | 5 | 19 |
| Liyuan (Shenzhen) | 5 | 14 | 5 | 12 | 6 | 11 |
| Jinjuzui (Foshan) | 10 | 29 | 7 | 19 | 5 | 21 |
| Huijingcheng (Foshan) | 13 | 31 | 7 | 32 | 3 | 17 |
| Tangjia (Zhuhai) | 4 | 12 | 3 | 11 | 3 | 8 |
| Donghu (Jiangmen) | 12 | 24 | 12 | 28 | 3 | 17 |
| Duanfen (Jiangmen) | 2 | 13 | 2 | 12 | 2 | 6 |
| Huaguoshan (Jiangmen) | 18 | 44 | 13 | 42 | 11 | 28 |
| Chengzhong (Zhaoqing) | 12 | 66 | 5 | 69 | 6 | 40 |
| Xiapu (Huizhou) | 3 | 11 | 4 | 10 | 3 | 13 |
| Xijiao (Huizhou) | 6 | 14 | 6 | 9 | 7 | 16 |
| Jinguowan (Huizhou) | 8 | 12 | 7 | 10 | 7 | 12 |
| Zimaling (Zhongshan) | 6 | 22 | 5 | 19 | 5 | 9 |
| Nanchengyuanling (Dongguan) | 5 | 16 | 4 | 22 | 5 | 14 |
| Tap Mun (Hong Kong) | 7 | 19 | 7 | 12 | 7 | 11 |
| Tsuen Wan (Hong Kong) | 7 | 39 | 7 | 25 | 9 | 20 |
| Yuen Long (Hong Kong) | 6 | 19 | 6 | 18 | 7 | 16 |
| Tung Chung (Hong Kong) | 8 | 14 | 9 | 16 | 10 | 15 |
| Taipa Grande (Macao) | 0 | 15 | 0 | 8 | 0 | 9 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.1c : The monthly averages of SO₂

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 17 | 8 | 10 |
| Modiesha (Guangzhou) | 16 | 8 | 5 |
| Wanqingsha (Guangzhou) | 24 | 16 | 13 |
| Tianhu (Guangzhou) | 10 | 10 | 12 |
| Zhudong (Guangzhou) | 18 | 15 | 12 |
| Liyuan (Shenzhen) | 7 | 7 | 7 |
| Jinjuzui (Foshan) | 16 | 13 | 11 |
| Huijingcheng (Foshan) | 20 | 18 | 8 |
| Tangjia (Zhuhai) | 6 | 6 | 5 |
| Donghu (Jiangmen) | 15 | 16 | 10 |
| Duanfen (Jiangmen) | 4 | 6 | 4 |
| Huaguoshan (Jiangmen) | 29 | 26 | 18 |
| Chengzhong (Zhaoqing) | 40 | 26 | 22 |
| Xiapu (Huizhou) | 6 | 6 | 6 |
| Xijiao (Huizhou) | 8 | 7 | 8 |
| Jinguowan (Huizhou) | 9 | 8 | 8 |
| Zimaling (Zhongshan) | 12 | 9 | 7 |
| Nanchengyuanling (Dongguan) | 8 | 8 | 9 |
| Tap Mun (Hong Kong) | 9 | 9 | 8 |
| Tsuen Wan (Hong Kong) | 14 | 12 | 13 |
| Yuen Long (Hong Kong) | 9 | 9 | 11 |
| Tung Chung (Hong Kong) | 10 | 11 | 11 |
| Taiapa Grande (Macao) | 4 | 3 | 2 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.2a : The monthly maxima and minima of hourly averages of NO₂

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 11 | 163 | 7 | 202 | 2 | 132 |
| Modiesha (Guangzhou) | 22 | 152 | 13 | 112 | 12 | 135 |
| Wanqingsha (Guangzhou) | 7 | 127 | 3 | 118 | 1 | 98 |
| Tianhu (Guangzhou) | 1 | 58 | 0 | 32 | 1 | 42 |
| Zhudong (Guangzhou) | 0 | 120 | 0 | 81 | 6 | 83 |
| Liyuan (Shenzhen) | 5 | 108 | 5 | 80 | 7 | 84 |
| Jinjuzui (Foshan) | 8 | 106 | 3 | 92 | 3 | 86 |
| Huijingcheng (Foshan) | 10 | 158 | 6 | 146 | 0 | 112 |
| Tangjia (Zhuhai) | 4 | 100 | 3 | 87 | 4 | 77 |
| Donghu (Jiangmen) | 5 | 81 | 5 | 67 | 4 | 84 |
| Duanfen (Jiangmen) | 0 | 59 | 0 | 46 | 0 | 24 |
| Huaguoshan (Jiangmen) | 1 | 106 | 1 | 95 | 2 | 62 |
| Chengzhong (Zhaoqing) | 1 | 120 | 1 | 94 | 1 | 86 |
| Xiapu (Huizhou) | 7 | 83 | 6 | 57 | 6 | 64 |
| Xijiao (Huizhou) | 1 | 51 | 0 | 54 | 3 | 52 |
| Jinguowan (Huizhou) | 5 | 49 | 2 | 32 | 1 | 44 |
| Zimaling (Zhongshan) | 1 | 82 | 1 | 76 | 1 | 62 |
| Nanchengyuanling (Dongguan) | 1 | 107 | 1 | 98 | 4 | 91 |
| Tap Mun (Hong Kong) | 1 | 63 | 0 | 50 | 0 | 55 |
| Tsuen Wan (Hong Kong) | 13 | 210 | 11 | 192 | 8 | 113 |
| Yuen Long (Hong Kong) | 7 | 130 | 5 | 98 | 2 | 87 |
| Tung Chung (Hong Kong) | 1 | 153 | 1 | 101 | 2 | 87 |
| Taipa Grande (Macao) | 0 | 109 | 2 | 98 | 2 | 84 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.2b : The monthly maxima and minima of daily averages of NO₂

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 30 | 108 | 23 | 70 | 19 | 55 |
| Modiesha (Guangzhou) | 39 | 94 | 27 | 70 | 28 | 78 |
| Wanqingsha (Guangzhou) | 15 | 70 | 14 | 64 | 10 | 49 |
| Tianhu (Guangzhou) | 4 | 37 | 2 | 16 | 3 | 18 |
| Zhudong (Guangzhou) | 11 | 89 | 19 | 55 | 17 | 42 |
| Liyuan (Shenzhen) | 19 | 69 | 16 | 47 | 13 | 52 |
| Jinjuzui (Foshan) | 18 | 64 | 14 | 54 | 13 | 50 |
| Huijingcheng (Foshan) | 34 | 93 | 27 | 72 | 19 | 64 |
| Tangjia (Zhuhai) | 16 | 53 | 10 | 39 | 9 | 31 |
| Donghu (Jiangmen) | 9 | 45 | 10 | 37 | 8 | 30 |
| Duanfen (Jiangmen) | 2 | 29 | 1 | 27 | 0 | 12 |
| Huaguoshan (Jiangmen) | 9 | 67 | 8 | 54 | 6 | 34 |
| Chengzhong (Zhaoqing) | 13 | 96 | 8 | 51 | 6 | 40 |
| Xiapu (Huizhou) | 19 | 55 | 15 | 34 | 14 | 36 |
| Xijiao (Huizhou) | 4 | 30 | 6 | 16 | 5 | 23 |
| Jinguowan (Huizhou) | 11 | 30 | 5 | 17 | 6 | 24 |
| Zimaling (Zhongshan) | 5 | 42 | 3 | 29 | 4 | 32 |
| Nanchengyuanling (Dongguan) | 17 | 64 | 13 | 45 | 14 | 58 |
| Tap Mun (Hong Kong) | 5 | 30 | 4 | 18 | 2 | 16 |
| Tsuen Wan (Hong Kong) | 46 | 118 | 38 | 95 | 34 | 70 |
| Yuen Long (Hong Kong) | 23 | 76 | 21 | 55 | 19 | 59 |
| Tung Chung (Hong Kong) | 7 | 70 | 6 | 53 | 6 | 48 |
| Taipa Grande (Macao) | 16 | 54 | 7 | 44 | 7 | 52 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.2c : The monthly averages of NO₂

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 58 | 46 | 35 |
| Modiesha (Guangzhou) | 64 | 47 | 47 |
| Wanqingsha (Guangzhou) | 47 | 35 | 25 |
| Tianhu (Guangzhou) | 12 | 9 | 10 |
| Zhudong (Guangzhou) | 44 | 33 | 28 |
| Liyuan (Shenzhen) | 35 | 24 | 30 |
| Jinjuzui (Foshan) | 41 | 29 | 25 |
| Huijingcheng (Foshan) | 59 | 46 | 37 |
| Tangjia (Zhuhai) | 30 | 22 | 18 |
| Donghu (Jiangmen) | 23 | 22 | 16 |
| Duanfen (Jiangmen) | 12 | 9 | 4 |
| Huaguoshan (Jiangmen) | 28 | 23 | 20 |
| Chengzhong (Zhaoqing) | 35 | 26 | 25 |
| Xiapu (Huizhou) | 30 | 22 | 25 |
| Xijiao (Huizhou) | 14 | 10 | 14 |
| Jinguowan (Huizhou) | 16 | 10 | 13* |
| Zimaling (Zhongshan) | 23 | 15 | 13 |
| Nanchengyuanling (Dongguan) | 37 | 24 | 34 |
| Tap Mun (Hong Kong) | 12 | 8 | 7 |
| Tsuen Wan (Hong Kong) | 73 | 57 | 52 |
| Yuen Long (Hong Kong) | 47 | 35 | 34 |
| Tung Chung (Hong Kong) | 34 | 27 | 23 |
| Taipa Grande (Macao) | 35 | 23 | 18 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

* The hourly data capture rate of the pollutant is below 85%.

Table 4.3a : The monthly maxima and minima of hourly averages of O₃

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 1 | 132 | 1 | 170 | 1 | 241 |
| Modiesha (Guangzhou) | 3 | 208 | 2 | 252 | 2 | 265 |
| Wanqingsha (Guangzhou) | 7 | 184 | 2 | 374 | 8 | 232 |
| Tianhu (Guangzhou) | 2 | 204 | 2 | 235 | 9 | 256 |
| Zhudong (Guangzhou) | 3 | 218 | 3 | 292 | 1 | 286 |
| Liyuan (Shenzhen) | 6 | 252 | 1 | 235 | 9 | 108 |
| Jinjuzui (Foshan) | 4 | 203 | 4 | 320 | 4 | 246 |
| Huijingcheng (Foshan) | 2 | 93 | 1 | 263 | 3 | 263 |
| Tangjia (Zhuhai) | 19 | 144 | 17 | 147 | 9 | 84 |
| Donghu (Jiangmen) | 1 | 222 | 1 | 284 | 1 | 211 |
| Duanfen (Jiangmen) | 3 | 249 | 15 | 268 | 2 | 170 |
| Huaguoshan (Jiangmen) | 0 | 107 | 0 | 152 | 2 | 174 |
| Chengzhong (Zhaoqing) | 2 | 160 | 2 | 281 | 2 | 235 |
| Xiapu (Huizhou) | 1 | 182 | 1 | 191 | 1 | 221 |
| Xijiao (Huizhou) | 3 | 195 | 2 | 112 | 1 | 121 |
| Jinguowan (Huizhou) | 4 | 165 | 5 | 256 | 6 | 206 |
| Zimaling (Zhongshan) | 5 | 239 | 5 | 281 | 2 | 152 |
| Nanchengyuanling (Dongguan) | 2 | 171 | 2 | 289 | 2 | 212 |
| Tap Mun (Hong Kong) | 3 | 190 | 3 | 213 | 5 | 127 |
| Tsuen Wan (Hong Kong) | 1 | 163 | 1 | 217 | 2 | 102 |
| Yuen Long (Hong Kong) | 1 | 252 | 1 | 249 | 2 | 87 |
| Tung Chung (Hong Kong) | 14 | 211 | 14 | 217 | 2 | 74 |
| Taipa Grande (Macao) | 0 | 191 | 0 | 297 | 0 | 142 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.3b : The monthly maxima and minima of daily maximum 8-hour averages of O₃

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 2 | 82 | 14 | 135 | 3 | 175 |
| Modiesha (Guangzhou) | 5 | 152 | 24 | 215 | 12 | 202 |
| Wanqingsha (Guangzhou) | 10 | 156 | 45 | 294 | 32 | 159 |
| Tianhu (Guangzhou) | 47 | 154 | 61 | 206 | 75 | 213 |
| Zhudong (Guangzhou) | 10 | 118 | 36 | 243 | 37 | 246 |
| Liyuan (Shenzhen) | 33 | 154 | 37 | 168 | 39 | 90 |
| Jinjuzui (Foshan) | 7 | 162 | 50 | 264 | 19 | 197 |
| Huijingcheng (Foshan) | 4 | 80 | 22 | 224 | 14 | 195 |
| Tangjia (Zhuhai) | 38 | 111 | 44 | 114 | 39 | 59 |
| Donghu (Jiangmen) | 8 | 179 | 17 | 243 | 21 | 160 |
| Duanfen (Jiangmen) | 42 | 210 | 45 | 221 | 33 | 122 |
| Huaguoshan (Jiangmen) | 6 | 86 | 28 | 129 | 18 | 145 |
| Chengzhong (Zhaoqing) | 13 | 121 | 23 | 224 | 33 | 172 |
| Xiapu (Huizhou) | 23 | 134 | 55 | 167 | 31 | 169 |
| Xijiao (Huizhou) | 21 | 137 | 24 | 97 | 17 | 88 |
| Jinguowan (Huizhou) | 42 | 135 | 60 | 154 | 53 | 153 |
| Zimaling (Zhongshan) | 32 | 188 | 48 | 225 | 36 | 101 |
| Nanchengyuanling (Dongguan) | 11 | 141 | 56 | 270 | 25 | 170 |
| Tap Mun (Hong Kong) | 33 | 186 | 43 | 198 | 41 | 93 |
| Tsuen Wan (Hong Kong) | 3 | 144 | 12 | 144 | 14 | 50 |
| Yuen Long (Hong Kong) | 12 | 134 | 21 | 158 | 21 | 69 |
| Tung Chung (Hong Kong) | 24 | 150 | 38 | 158 | 36 | 65 |
| Taipa Grande (Macao) | 1 | 144 | 27 | 227 | 23 | 57 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.3c : The monthly averages of O₃

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 16 | 30 | 40 |
| Modiesha (Guangzhou) | 30 | 50 | 40 |
| Wanqingsha (Guangzhou) | 40 | 63 | 48 |
| Tianhu (Guangzhou) | 69 | 83 | 80 |
| Zhudong (Guangzhou) | 36 | 63 | 62 |
| Liyuan (Shenzhen) | 52 | 64 | 45 |
| Jinjuzui (Foshan) | 40 | 66 | 45 |
| Huijingcheng (Foshan) | 15 | 52 | 42 |
| Tangjia (Zhuhai) | 54 | 54 | 39 |
| Donghu (Jiangmen) | 32 | 57 | 42 |
| Duanfen (Jiangmen) | 65 | 76 | 45 |
| Huaguoshan (Jiangmen) | 26 | 36 | 31 |
| Chengzhong (Zhaoqing) | 41 | 65 | 52 |
| Xiapu (Huizhou) | 54 | 68 | 47 |
| Xijiao (Huizhou) | 47 | 34 | 29 |
| Jinguowan (Huizhou) | 62 | 73 | 63 |
| Zimaling (Zhongshan) | 50 | 64 | 44 |
| Nanchengyuanling (Dongguan) | 38 | 70 | 48 |
| Tap Mun (Hong Kong) | 69 | 81 | 47 |
| Tsuen Wan (Hong Kong) | 26 | 40 | 18 |
| Yuen Long (Hong Kong) | 33 | 47 | 29 |
| Tung Chung (Hong Kong) | 51 | 65 | 35 |
| Taipa Grande (Macao) | 39 | 56 | 29 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.4a : The monthly maxima and minima of hourly averages of CO

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 0.4 | 1.9 | 0.4 | 1.6 | 0.3 | 1.7 |
| Modiesha (Guangzhou) | 0.0 | 1.5 | 0.0 | 1.1 | 0.0 | 1.6 |
| Wanqingsha (Guangzhou) | 0.1 | 2.0 | 0.2 | 1.3 | 0.0 | 1.3 |
| Tianhu (Guangzhou) | 0.1 | 1.4 | 0.0 | 1.2 | 0.3 | 1.3 |
| Zhudong (Guangzhou) | 0.5 | 1.6 | 0.3 | 1.2 | 0.3 | 1.4 |
| Liyuan (Shenzhen) | 0.1 | 1.5 | 0.4 | 1.3 | 0.0 | 1.1 |
| Jinjuzui (Foshan) | 0.2 | 1.5 | 0.6 | 1.6 | 0.5 | 1.6 |
| Huijingcheng (Foshan) | 0.3 | 2.1 | 0.0 | 1.7 | 0.0 | 1.6 |
| Tangjia (Zhuhai) | 0.4 | 1.9 | 0.3 | 1.2 | 0.0 | 0.8 |
| Donghu (Jiangmen) | 0.3 | 2.2 | 0.3 | 2.8 | 0.3 | 1.9 |
| Duanfen (Jiangmen) | 0.3 | 1.4 | 0.1 | 1.2 | 0.3 | 1.2 |
| Huaguoshan (Jiangmen) | 0.3 | 1.9 | 0.1 | 1.5 | 0.3 | 1.3 |
| Chengzhong (Zhaoqing) | 0.5 | 2.5 | 0.4 | 2.0 | 0.2 | 1.8 |
| Xiapu (Huizhou) | 0.5 | 1.5 | 0.5 | 2.3 | 0.1 | 2.0 |
| Xijiao (Huizhou) | 0.0 | 1.4 | 0.3 | 1.7 | 0.2 | 0.9 |
| Jinguowan (Huizhou) | 0.3 | 1.8 | 0.1 | 1.1 | 0.4 | 1.4 |
| Zimaling (Zhongshan) | 0.3 | 2.1 | 0.3 | 1.4 | 0.2 | 3.3 |
| Nanchengyuanling (Dongguan) | 0.1 | 1.7 | 0.2 | 1.0 | 0.4 | 1.9 |
| Tap Mun (Hong Kong) | 0.3 | 1.0 | 0.5 | 1.1 | 0.5 | 1.0 |
| Tsuen Wan (Hong Kong) | 0.7 | 2.0 | 0.6 | 1.4 | 0.7 | 1.3 |
| Yuen Long (Hong Kong) | 0.4 | 1.4 | 0.5 | 1.2 | 0.1 | 1.0 |
| Tung Chung (Hong Kong) | 0.4 | 1.6 | 0.4 | 2.3 | 0.4 | 1.5 |
| Taipa Grande (Macao) | 0.4 | 1.1 | 0.4 | 1.0 | 0.4 | 0.8 |

Remark : All concentration units are in milligrams per cubic metre (mg/m³).

Table 4.4b : The monthly maxima and minima of daily averages of CO

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 0.6 | 1.4 | 0.5 | 1.2 | 0.4 | 1.4 |
| Modiesha (Guangzhou) | 0.1 | 1.2 | 0.0 | 0.8 | 0.5 | 1.3 |
| Wanqingsha (Guangzhou) | 0.2 | 1.9 | 0.3 | 1.1 | 0.2 | 1.1 |
| Tianhu (Guangzhou) | 0.2 | 1.0 | 0.1 | 0.7 | 0.4 | 0.8 |
| Zhudong (Guangzhou) | 0.6 | 1.3 | 0.4 | 1.0 | 0.4 | 0.8 |
| Liyuan (Shenzhen) | 0.2 | 1.1 | 0.6 | 1.1 | 0.3 | 0.9 |
| Jinjuzui (Foshan) | 0.3 | 1.2 | 0.6 | 1.1 | 0.6 | 1.1 |
| Huijingcheng (Foshan) | 0.6 | 1.4 | 0.1 | 1.1 | 0.0 | 0.7 |
| Tangjia (Zhuhai) | 0.4 | 0.9 | 0.4 | 0.9 | 0.3 | 0.6 |
| Donghu (Jiangmen) | 0.5 | 1.3 | 0.5 | 1.4 | 0.5 | 1.3 |
| Duanfen (Jiangmen) | 0.3 | 0.8 | 0.1 | 0.9 | 0.4 | 0.6 |
| Huaguoshan (Jiangmen) | 0.6 | 1.4 | 0.5 | 1.2 | 0.4 | 1.0 |
| Chengzhong (Zhaoqing) | 0.6 | 2.0 | 0.6 | 1.4 | 0.5 | 1.3 |
| Xiapu (Huizhou) | 0.6 | 1.1 | 0.6 | 1.1 | 0.6 | 1.0 |
| Xijiao (Huizhou) | 0.0 | 1.0 | 0.4 | 1.1 | 0.4 | 0.5 |
| Jinguowan (Huizhou) | 0.3 | 0.8 | 0.2 | 0.9 | 0.4 | 1.2 |
| Zimaling (Zhongshan) | 0.4 | 1.3 | 0.4 | 1.2 | 0.3 | 0.9 |
| Nanchengyuanling (Dongguan) | 0.3 | 1.4 | 0.3 | 0.8 | 0.5 | 1.1 |
| Tap Mun (Hong Kong) | 0.3 | 0.9 | 0.5 | 1.0 | 0.5 | 0.9 |
| Tsuen Wan (Hong Kong) | 0.8 | 1.5 | 0.8 | 1.2 | 0.8 | 0.9 |
| Yuen Long (Hong Kong) | 0.6 | 1.0 | 0.5 | 1.0 | 0.2 | 0.8 |
| Tung Chung (Hong Kong) | 0.6 | 1.3 | 0.4 | 1.0 | 0.4 | 0.8 |
| Taipa Grande (Macao) | 0.5 | 0.9 | 0.4 | 0.8 | 0.4 | 0.6 |

Remark : All concentration units are in milligrams per cubic metre (mg/m³).

Table 4.4c : The monthly averages of CO

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 0.9 | 0.8 | 0.7 |
| Modiesha (Guangzhou) | 0.6 | 0.4 | 1.1 |
| Wanqingsha (Guangzhou) | 0.7 | 0.7 | 0.6 |
| Tianhu (Guangzhou) | 0.6 | 0.4 | 0.6 |
| Zhudong (Guangzhou) | 0.8 | 0.7 | 0.6 |
| Liyuan (Shenzhen) | 0.6 | 0.8 | 0.5 |
| Jinjuzui (Foshan) | 0.7 | 0.9 | 0.8 |
| Huijingcheng (Foshan) | 0.9 | 0.6 | 0.3 |
| Tangjia (Zhuhai) | 0.6 | 0.6 | 0.5 |
| Donghu (Jiangmen) | 0.8 | 0.9 | 0.8 |
| Duanfen (Jiangmen) | 0.5 | 0.5 | 0.5 |
| Huaguoshan (Jiangmen) | 0.9 | 0.8 | 0.8 |
| Chengzhong (Zhaoqing) | 1.0 | 0.9 | 0.8 |
| Xiapu (Huizhou) | 0.8 | 0.8 | 0.8 |
| Xijiao (Huizhou) | 0.5 | 0.8 | 0.5 |
| Jinguowan (Huizhou) | 0.6 | 0.5 | 0.8 |
| Zimaling (Zhongshan) | 0.8 | 0.8 | 0.6 |
| Nanchengyuanling (Dongguan) | 0.7 | 0.5 | 0.7 |
| Tap Mun (Hong Kong) | 0.6 | 0.7 | 0.6 |
| Tsuen Wan (Hong Kong) | 1.1 | 1.0 | 0.8 |
| Yuen Long (Hong Kong) | 0.8 | 0.7 | 0.6 |
| Tung Chung (Hong Kong) | 0.9 | 0.6 | 0.5 |
| Taiapa Grande (Macao) | 0.6 | 0.6 | 0.5 |

Remark : All concentration units are in milligrams per cubic metre (mg/m³).

Table 4.5a : The monthly maxima and minima of daily averages of PM₁₀

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 20 | 120 | 23 | 87 | 25 | 52 |
| Modiesha (Guangzhou) | 24 | 116 | 25 | 100 | 28 | 57 |
| Wanqingsha (Guangzhou) | 24 | 99 | 14 | 85 | 15 | 45 |
| Tianhu (Guangzhou) | 10 | 129 | 16 | 73 | 12 | 52 |
| Zhudong (Guangzhou) | 21 | 149 | 24 | 86 | 19 | 66 |
| Liyuan (Shenzhen) | 17 | 67 | 21 | 58 | 13 | 33 |
| Jinjuzui (Foshan) | 28 | 96 | 20 | 92 | 21 | 50 |
| Huijingcheng (Foshan) | 29 | 96 | 21 | 91 | 21 | 62 |
| Tangjia (Zhuhai) | 19 | 70 | 12 | 53 | 8 | 32 |
| Donghu (Jiangmen) | 23 | 94 | 15 | 108 | 21 | 64 |
| Duanfen (Jiangmen) | 17 | 69 | 12 | 61 | 11 | 29 |
| Huaguoshan (Jiangmen) | 24 | 88 | 13 | 104 | 15 | 55 |
| Chengzhong (Zhaoqing) | 28 | 143 | 24 | 109 | 22 | 86 |
| Xiapu (Huizhou) | 18 | 93 | 16 | 61 | 15 | 49 |
| Xijiao (Huizhou) | 16 | 126 | 10 | 57 | 16 | 45 |
| Jinguowan (Huizhou) | 14 | 104 | 37 | 94 | 19 | 67 |
| Zimaling (Zhongshan) | 21 | 72 | 19 | 74 | 12 | 33 |
| Nanchengyuanling (Dongguan) | 23 | 90 | 21 | 102 | 24 | 57 |
| Tap Mun (Hong Kong) | 13 | 62 | 14 | 47 | 9 | 27 |
| Tsuen Wan (Hong Kong) | 17 | 63 | 16 | 54 | 11 | 29 |
| Yuen Long (Hong Kong) | 20 | 67 | 14 | 45 | 11 | 27 |
| Tung Chung (Hong Kong) | 15 | 56 | 11 | 49 | 6 | 24 |
| Taipa Grande (Macao) | 19 | 91 | 19 | 73 | 9 | 29 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.5b : The monthly averages of PM₁₀

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 52 | 49 | 37 |
| Modiesha (Guangzhou) | 58 | 54 | 41 |
| Wanqingsha (Guangzhou) | 47 | 45* | 28 |
| Tianhu (Guangzhou) | 39 | 39* | 25 |
| Zhudong (Guangzhou) | 54 | 48 | 38 |
| Liyuan (Shenzhen) | 33 | 33 | 21* |
| Jinjuzui (Foshan) | 48 | 46 | 33 |
| Huijingcheng (Foshan) | 53 | 47 | 35 |
| Tangjia (Zhuhai) | 32 | 31 | 18 |
| Donghu (Jiangmen) | 51 | 45 | 36 |
| Duanfen (Jiangmen) | 34 | 34 | 19 |
| Huaguoshan (Jiangmen) | 46 | 45 | 28* |
| Chengzhong (Zhaoqing) | 63 | 57 | 42 |
| Xiapu (Huizhou) | 42 | 40 | 32 |
| Xijiao (Huizhou) | 42 | 36 | 30 |
| Jinguowan (Huizhou) | 45 | 53 | 37* |
| Zimaling (Zhongshan) | 37 | 35 | 20 |
| Nanchengyuanling (Dongguan) | 49 | 47 | 35 |
| Tap Mun (Hong Kong) | 27 | 25 | 17 |
| Tsuen Wan (Hong Kong) | 32 | 27 | 18 |
| Yuen Long (Hong Kong) | 32 | 28 | 18 |
| Tung Chung (Hong Kong) | 25 | 23 | 13 |
| Taipa Grande (Macao) | 38 | 40 | 19 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

*The hourly data capture rate of the pollutant is below 85%.

Table 4.6a : The monthly maxima and minima of daily averages of PM_{2.5}

| Monitoring Station | April 2016 | | May 2016 | | June 2016 | |
|-----------------------------|------------|-----|----------|-----|-----------|-----|
| | Min | Max | Min | Max | Min | Max |
| Luhu (Guangzhou) | 17 | 112 | 16 | 57 | 14 | 50 |
| Modiesha (Guangzhou) | 9 | 46 | 11 | 48 | 11 | 39 |
| Wanqingsha (Guangzhou) | 12 | 55 | 8 | 54 | 8 | 27 |
| Tianhu (Guangzhou) | 7 | 83 | 5 | 54 | 5 | 40 |
| Zhudong (Guangzhou) | 13 | 94 | 14 | 60 | 14 | 50 |
| Liyuan (Shenzhen) | 12 | 48 | 7 | 41 | 6 | 18 |
| Jinjuzui (Foshan) | 17 | 67 | 11 | 62 | 11 | 39 |
| Huijingcheng (Foshan) | 18 | 69 | 14 | 51 | 12 | 40 |
| Tangjia (Zhuhai) | 12 | 47 | 5 | 39 | 6 | 17 |
| Donghu (Jiangmen) | 13 | 69 | 8 | 68 | 8 | 55 |
| Duanfen (Jiangmen) | 4 | 41 | 4 | 40 | 3 | 18 |
| Huaguoshan (Jiangmen) | 14 | 57 | 7 | 67 | 8 | 42 |
| Chengzhong (Zhaoqing) | 20 | 101 | 15 | 73 | 13 | 61 |
| Xiapu (Huizhou) | 9 | 75 | 8 | 34 | 7 | 21 |
| Xijiao (Huizhou) | 11 | 92 | 8 | 45 | 9 | 30 |
| Jinguowan (Huizhou) | 1 | 61 | 6 | 40 | 7 | 21 |
| Zimaling (Zhongshan) | 15 | 62 | 9 | 63 | 5 | 20 |
| Nanchengyuanling (Dongguan) | 17 | 65 | 14 | 70 | 12 | 36 |
| Tap Mun (Hong Kong) | 9 | 44 | 6 | 34 | 4 | 14 |
| Tsuen Wan (Hong Kong) | 10 | 45 | 6 | 40 | 8 | 16 |
| Yuen Long (Hong Kong) | 9 | 45 | 2 | 29 | 2 | 13 |
| Tung Chung (Hong Kong) | 8 | 38 | 5 | 39 | 2 | 15 |
| Taipa Grande (Macao) | 7 | 56 | 9 | 52 | 2 | 11 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

Table 4.6b : The monthly averages of PM_{2.5}

| Monitoring Station | April 2016 | May 2016 | June 2016 |
|-----------------------------|------------|----------|-----------|
| Luhu (Guangzhou) | 41 | 32 | 24 |
| Modiesha (Guangzhou) | 29* | 27 | 20 |
| Wanqingsha (Guangzhou) | 27 | 26 | 15 |
| Tianhu (Guangzhou) | 26 | 24 | 15 |
| Zhudong (Guangzhou) | 36 | 32 | 26 |
| Liyuan (Shenzhen) | 23 | 20 | 12 |
| Jinjuzui (Foshan) | 33 | 28 | 20 |
| Huijingcheng (Foshan) | 36 | 29 | 21 |
| Tangjia (Zhuhai) | 22 | 20 | 10 |
| Donghu (Jiangmen) | 35 | 29 | 18 |
| Duanfen (Jiangmen) | 19 | 18 | 7 |
| Huaguoshan (Jiangmen) | 31 | 28 | 18 |
| Chengzhong (Zhaoqing) | 43 | 34 | 28 |
| Xiapu (Huizhou) | 26 | 22 | 14 |
| Xijiao (Huizhou) | 30 | 26 | 19 |
| Jinguowan (Huizhou) | 22 | 22 | 14 |
| Zimaling (Zhongshan) | 29 | 24 | 11 |
| Nanchengyuanling (Dongguan) | 34 | 30 | 22 |
| Tap Mun (Hong Kong) | 19 | 16 | 8 |
| Tsuen Wan (Hong Kong) | 23 | 17 | 11 |
| Yuen Long (Hong Kong) | 20 | 15 | 6 |
| Tung Chung (Hong Kong) | 16 | 16 | 8 |
| Taipa Grande (Macao) | 22 | 25 | 6 |

Remark : All concentration units are in micrograms per cubic metre ($\mu\text{g}/\text{m}^3$).

*The hourly data capture rate of the pollutant is below 85%.

Annex A: Site Information of Monitoring Stations

| Monitoring Stations | Address | Area Type | Sampling Height (Above P.D.) | Above Ground | Date Commenced Operation |
|------------------------|---|---|------------------------------|--------------|--------------------------|
| Luhu (Guangzhou) | Jufong Garden of Luhu Park (Big yard, No. 11 Luhu Park) | City | 30m | 9m | 1993 |
| Modiesha (Guangzhou) | Modiesha Street, Haizhu District | City | 95m | 45m | Dec 2011 |
| Wanqingsha (Guangzhou) | HKUST Fok Ying Tung Research Institute, Nansha | Mixed educational/commercial and residential/industrial | 54m | 28m | Oct 2004 |
| Tianhu (Guangzhou) | Tianhu Park, Conghua | Background : rural | 251m | 13m | Oct 2004 |
| Zhudong (Guangzhou) | Zhudong Village Committee, Chini Town, Huadu District | Rural | 19m | 10m | Dec 2011 |
| Liyuan (Shenzhen) | Shennan Zhong Road, Futian District | City | 38m | 12m | Sep 1997 |
| Jinjuzui (Foshan) | Foshan City Communist Party School, Jinjuzui, Shunde District | Tourist and cultural /educational | 27m | 17m | Oct 1999 |
| Huijingcheng (Foshan) | No. 127, Fenjiang Nan Road, Chancheng District | Urban: mixed residential/commercial/ industrial | 24m | 14m | Feb 2000 |
| Tangjia (Zhuhai) | Qiao Island Mangrove Monitoring Station, Tangjia Town | Mixed educational/commercial and residential/industrial | 13m | 13m | Jan 2010 |
| Donghu (Jiangmen) | Donghu Park, Jiangmen | City | 17.5m | 5m | Nov 2001 |
| Duanfen (Jiangmen) | Duanfen Middle School, Taishan | Rural | 15m | 12m | Dec 2011 |
| Huaguoshan (Jiangmen) | Huaguoshan, Taoyuan, Heshan | Rural | 25m | 15m | Feb 2012 |
| Chengzhong (Zhaoqing) | No. 17, Qintian Road, Zhaoqing | Urban: mixed residential/commercial | 21m | 16m | Jun 2001 |
| Xiapu (Huizhou) | No. 4 Xiabuhengjiang Road No. 3, Huicheng District | Urban: commercial | 49m | 20m | Dec 1999 |
| Xijiao (Huizhou) | Xijiao Village Committee, Boluo County | Rural | 39m | 12m | Dec 2011 |
| Jinguowan (Huizhou) | Jinguowan Ecological Farm, Huizhou | Residential | 77m | 8m | Oct 2004 |

| Monitoring Stations | Address | Area Type | Sampling Height (Above P.D.) | Above Ground | Date Commenced Operation |
|-----------------------------|--|--|------------------------------|--------------|--------------------------|
| Zimaling (Zhongshan) | Zimaling Park, Zhongshan | Mixed residential/commercial | 45 m | 7m | Aug 2002 |
| Nanchengyuanling (Dongguan) | Nanchengyuanling Community, Dongguan | Mixed residential/commercial/industrial | 33 m | 18m | Sep 2010 |
| Tap Mun (Hong Kong) | Tap Mun Police Station | Background: rural | 26m | 11m | Apr 1998 |
| Tsuen Wan (Hong Kong) | 60 Tai Ho Road, Tsuen Wan | Urban: mixed residential/commercial/industrial | 21m | 17m | Aug 1988 |
| Yuen Long (Hong Kong) | Yuen Long District Office, 269 Castle Peak Road, Yuen Long | New Town: residential | 31m | 25m | Jul 1995 |
| Tung Chung (Hong Kong) | 6 Fu Tung Street, Tung Chung | New Town: residential | 34.5m | 27.5m | Apr 1999 |
| Taipa Grande (Macao) | Rampa do Observatorio, Taipa Grande | Rural | 120m | 10m | Mar 1999 |

Annex B: Measurement Methods of Air Pollutant Concentration

| Pollutants | Measuring Principles |
|---|--|
| Sulphur dioxide (SO ₂) | UV fluorescence / Differential Optical Absorption Spectroscopy |
| Nitrogen dioxide (NO ₂) | Chemiluminescence / Differential Optical Absorption Spectroscopy |
| Ozone (O ₃) | UV absorption / Differential Optical Absorption Spectroscopy |
| Respirable suspended particulates (PM ₁₀) | Oscillating microbalance (TEOM) Beta particulate monitor |
| Fine suspended particulates (PM _{2.5}) | Oscillating microbalance (TEOM) Beta particulate monitor Hybrid nephelometric/radiometric particulate mass monitor |
| Carbon monoxide (CO) | Gas filter correlation infrared absorption method Non-dispersive infrared absorption method |