**Magong Second Seawater Desalination Plant Environmental monitoring report summary table**

**Construction and operation phase environmental monitoring plan**

| Monitoring category | Monitoring and analysis project | Monitoring location | Monitoring frequency |
| --- | --- | --- | --- |
| Air quality | Total Suspended particles、Suspended particles(PM10)、Suspended particles(PM2.5)、Pb、Dustfall、Hydrocarbon、SO2、NOX、Wind direction、Wind speed、Temperature、Humidity、CO、O3 | Xingren Elementary School、Tuen Mun Village | Construction and operation phase every 3 months |
| Noise (including low frequency), vibration | Leq、Lmax、L日、L晚、L夜、Lveq、Lvmax、Lv10日、Lv10夜 | Project site perimeter, Xingren Guoxiao, Tuen Mun Village | Construction and operation phase every 3 months, each subsequent 24 hours (including holidays and non-holidays) |
| Ecology | Guanine, chrysalis, reptile, cockroach, lactation, plant, insect | Base radius within 1 km | Construction and operation phase every 3 months |
| Soil (including topsoil and bauxite) | Zinc, cadmium, lead, copper, mercury, arsenic, nickel, chromium, hydroquinone concentration index | Project site | At least 1 time during construction |
| Sea area ecology | Benthic organisms, plant plankton (including basic productivity), animal plankton, larvae, fish carp, caries (including accumulated heavy metals, hydrocarbons, E. coli), corals, algae, and biodisaggregation analysis | Four arc-shaped measuring lines are arranged at the discharge ports of 300, 600, 1, 200 and 1,800m, and three stations are set up on each line, for a total of 12 stations.  Each station is divided into tables, middle and bottom surveys. | Construction and operation phase every 3 months |
| Sea water quality | Current flow rate, flow direction, pH, temperature, salinity, dissolved oxygen (DO), total suspended solids (TSS), hypochlorite, biochemical oxygen demand (BOD), E. coli, ammonia nitrogen, mineral oil, nitrate Nitrogen, total phosphorus, chlorophyll a, cyanide, phenols | Sea area ecological station | Construction and operation phase every 3 months |
| Sea sediment | Copper, zinc, cadmium, lead, chromium, mercury, arsenic | Sea area ecological station | At least 1 time during construction, once every 3 months during operation |
| Groundwater quality | Water level, pH, biochemical oxygen demand (BOD), specific conductivity, iron, manganese, suspended solids, chloride salt, coliform, temperature, nitrate nitrogen, total phosphorus, flow direction and identification of current pumping conditions And describe the thickness and depth of the aquifer | 1 groundwater well of Magong First Desalination Plant and  There are 3 underground wells in the perimeter of the project site, for a total of 4 wells. | Construction and operation phase every 3 months |

**First, the air quality**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Monitoring location | | Xingren Elementary School | | | | | | | Air quality standard |
| 2016 | | | | | | |
| Monitoring date  Monitoring project | | 2016.02.17-02.18 | 2016.04.23-04.24 | | 2016.08.04-08.05 | | 2016.10.25-10.26 | |
|
| SO2(ppm) | Maximum hourly average | 0.001 | 0.002 | | 0.005 | | 0.007 | | ≦0.25 |
| Daily average | 0.001 | 0.002 | | 0.004 | | 0.003 | | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.005 | 0.018 | | 0.007 | | 0.006 | | ≦0.25 |
| Daily average | 0.003 | 0.010 | | 0.005 | | 0.005 | | － |
| NO(ppm) | Maximum hourly average | 0.001 | 0.007 | | 0.004 | | 0.004 | | － |
| Daily average | 0.001 | 0.004 | | 0.003 | | 0.004 | | － |
| NOx(ppm) | Maximum hourly average | 0.006 | 0.022 | | 0.011 | | 0.010 | | － |
| Daily average | 0.003 | 0.014 | | 0.008 | | 0.009 | | － |
| CO(ppm) | Maximum hourly average | 0.4 | 1.0 | | 0.5 | | 0.3 | | ≦35 |
| 8-hour average | 0.4 | 0.5 | | 0.3 | | 0.3 | | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.2 | 1.4 | | 1.8 | | 1.5 | | － |
| Daily average | 1.2 | 1.3 | | 1.5 | | 1.3 | | － |
| O3(ppm) | Maximum hourly average | 0.059 | 0.039 | | 0.043 | | 0.048 | | ≦0.12 |
| 8-hour average | 0.037 | 0.027 | | 0.033 | | 0.042 | | ≦0.06 |
| THC(ppm) | Maximum hourly average | 1.5 | 1.7 | | 1.9 | | 1.6 | | － |
| Daily average | 1.4 | 1.6 | | 1.6 | | 1.5 | | － |
| PM10  (μg/m3) | 24-hour value | 54 | 36 | | 18 | | 26 | | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 15 | 13 | | 8 | | 14 | | ≦35 |
| TSP (μg/m3) | 24-hour value | 121 | 90 | | 44 | | 62 | | ≦250 |
| Pb(μg/m3) | 24-hour value | ND<0.02 | ND<0.02 | | ND<0.02 | | ND<0.02 | | － |
| Most frequent wind direction | | N | NNW | | WNW | | E | | － |
| Wind speed (m/s) (daily average) | | 3.2 | 2.2 | | 1.0 | | 1.0 | | － |
|
| Temperature (°C) (daily average) | | 17.0 | 26.0 | | 29.2 | | 26.3 | | － |
|
| Relative humidity (%) (daily average) | | 75 | 81 | | 78 | | 82 | | － |
|
| Dustfall (g/m2/month) | Monthly average | 2016.01.15-2016.02.16 | 2016.04.22-2016.05.22 | | 2016.07.01-2016.07.31 | | 2016.09.19-2016.10.19 | | － |
| 7.8 | 8.2 | | 8.5 | | 8.8 | | － |
| Monitoring location | | Xingren Elementary School | | | | | | | Air quality standard |
| 2017 | | | | | | |
| Monitoring date  Monitoring project | | 2017.02.11-02.12 | | 2017.05.14-05.15 | | 2017.07.15-07.16 | | 2017.10.21-10.22 |
|
| SO2(ppm) | Maximum hourly average | 0.004 | | 0.004 | | 0.003 | | 0.002 | ≦0.25 |
| Daily average | 0.002 | | 0.003 | | 0.002 | | 0.001 | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.015 | | 0.007 | | 0.009 | | 0.003 | ≦0.25 |
| Daily average | 0.009 | | 0.003 | | 0.004 | | 0.002 | － |
| NO(ppm) | Maximum hourly average | 0.003 | | 0.003 | | 0.003 | | 0.004 | － |
| Daily average | 0.003 | | 0.002 | | 0.004 | | 0.003 | － |
| NOx(ppm) | Maximum hourly average | 0.018 | | 0.008 | | 0.011 | | 0.007 | － |
| Daily average | 0.011 | | 0.005 | | 0.006 | | 0.005 | － |
| CO(ppm) | Maximum hourly average | 0.8 | | 0.3 | | 0.3 | | 0.3 | ≦35 |
| 8-hour average | 0.3 | | 0.2 | | 0.1 | | 0.3 | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.7 | | 2.1 | | 2.0 | | 1.8 | － |
| Daily average | 1.6 | | 2.0 | | 1.7 | | 1.8 | － |
| O3(ppm) | Maximum hourly average | 0.059 | | 0.048 | | 0.044 | | 0.068 | ≦0.12 |
| 8-hour average | 0.046 | | 0.04 | | 0.033 | | 0.058 | ≦0.06 |
| THC(ppm) | Maximum hourly average | 1.8 | | 2.2 | | 2.2 | | 2.1 | － |
| Daily average | 1.7 | | 2.2 | | 1.8 | | 2.1 | － |
| PM10  (μg/m3) | 24-hour value | 51 | | 26 | | 22 | | 44 | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 19 | | 24 | | 13 | | 18 | ≦35 |
| TSP (μg/m3) | 24-hour value | 87 | | 47 | | 42 | | 87 | ≦250 |
| Pb(μg/m3) | 24-hour value | <0.1 | | <0.03 | | <0.03 | | <0.03 | － |
| Most frequent wind direction | |  | | WSW | | ENE | | NNE | － |
| Wind speed (m/s) (daily average) | |  | | 1.2 | | 1.3 | | 3.3 | － |
|
| Temperature (°C) (daily average) | |  | | 25.7 | | 29.9 | | 23.9 | － |
|
| Relative humidity (%) (daily average) | |  | | 83 | | 81 | | 76 | － |
|
| Dustfall (g/m2/month) | Monthly average | 2016.12.19-2017.01.19 | | 2017.03.20-2017.04.19 | | 2017.07.01-2017.07.31 | | 2017.9.14-2017.10.14 | － |
| 8.5 | | 8.5 | | 8 | | 8.3 | － |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Monitoring location | | Xingren Elementary School | | | | | Air quality standard |
| 2018 | | | | |
| Monitoring date  Monitoring project | | 2018.01.26-01.27 | 2018.03.29-03.30 | 2018.08.04-08.05 | 2018.10.18-10.19 | 2018.12.24-12.25 |
|
| SO2(ppm) | Maximum hourly average | 0.003 | 0.003 | 0.002 | 0.002 | 0.004 | ≦0.25 |
| Daily average | 0.003 | 0.002 | 0.001 | 0.002 | 0.002 | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.007 | 0.004 | 0.021 | 0.004 | 0.010 | ≦0.25 |
| Daily average | 0.004 | 0.003 | 0.01 | 0.003 | 0.005 | － |
| NO(ppm) | Maximum hourly average | 0.003 | 0.004 | 0.011 | 0.002 | 0.004 | － |
| Daily average | 0.002 | 0.003 | 0.002 | 0.001 | 0.002 | － |
| NOx(ppm) | Maximum hourly average | 0.009 | 0.007 | 0.032 | 0.006 | 0.012 | － |
| Daily average | 0.006 | 0.007 | 0.012 | 0.004 | 0.007 | － |
| CO(ppm) | Maximum hourly average | 0.3 | 0.4 | 0.7 | 0.2 | 0.3 | ≦35 |
| 8-hour average | 0.2 | 0.3 | 0.4 | 0.2 | 0.2 | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.9 | 1.9 | 1.8 | 2 | 2.1 | － |
| Daily average | 1.8 | 1.9 | 1.7 | 1.8 | 2.1 | － |
| O3(ppm) | Maximum hourly average | 0.053 | 0.053 | 0.025 | 0.07 | 0.055 | ≦0.12 |
| 8-hour average | 0.052 | 0.033 | 0.019 | 0.068\* | 0.048 | ≦0.06 |
| THC(ppm) | Maximum hourly average | 2.1 | 2.1 | 2 | 2.2 | 2.5 | － |
| Daily average | 1.9 | 2.1 | 1.8 | 2 | 2.5 | － |
| PM10  (μg/m3) | 24-hour value | 25 | 37 | 36 | 42 | 23 | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 7 | 21 | 8 | 21 | 10 | ≦35 |
| TSP (μg/m3) | 24-hour value | 60 | 64 | 57 | 70 | 42 | ≦250 |
| Pb(μg/m3) | 24-hour value | ND<0.02 | ND<0.02 | ND<0.02 | ND<0.02 | ND<0.02 | － |
| Most frequent wind direction | |  | NE | E | WSW | SSE | － |
| Wind speed (m/s) (daily average) | |  | 2.20 | 1.50 | 3.80 | 3.50 | － |
|
| Temperature (°C) (daily average) | |  | 22.70 | 28.70 | 24.80 | 19.80 | － |
|
| Relative humidity (%) (daily average) | |  | 69 | 72 | 76 | 77 | － |
|
| Dustfall (g/m2/month) | Monthly average | 2017.12.01-2017.12.31 | 2018.04.01-2018.04.30 | 2018.07.01-2018.07.30 | 2018.10.16-2018.11.15 | 108.01.20-108.02.19 | － |
| 8.5 | 8 | 8.8 | 8.7 |  | － |

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| --- | --- | --- | --- | --- | --- | --- |
| Monitoring location | | Tuen Mun Village | | | | Air quality standard |
| 2016 | | | |
| Monitoring date  Monitoring project | | 2016.02.16-02.17 | 2016.04.22-04.23 | 2016.08.05-08.06 | 2016.10.26-10.27 |
|
| SO2(ppm) | Maximum hourly average | 0.001 | 0.003 | 0.006 | 0.004 | ≦0.25 |
| Daily average | 0.001 | 0.002 | 0.003 | 0.002 | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.004 | 0.025 | 0.007 | 0.006 | ≦0.25 |
| Daily average | 0.002 | 0.012 | 0.004 | 0.004 | － |
| NO(ppm) | Maximum hourly average | 0.002 | 0.004 | 0.005 | 0.004 | － |
| Daily average | 0.001 | 0.003 | 0.003 | 0.003 | － |
| NOx(ppm) | Maximum hourly average | 0.005 | 0.028 | 0.012 | 0.010 | － |
| Daily average | 0.003 | 0.014 | 0.007 | 0.007 | － |
| CO(ppm) | Maximum hourly average | 0.4 | 0.6 | 0.5 | 0.3 | ≦35 |
| 8-hour average | 0.4 | 0.5 | 0.2 | 0.3 | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.3 | 1.4 | 1.8 | 1.7 | － |
| Daily average | 1.2 | 1.4 | 1.5 | 1.5 | － |
| O3(ppm) | Maximum hourly average | 0.053 | 0.045 | 0.052 | 0.04 | ≦0.12 |
| 8-hour average | 0.042 | 0.037 | 0.043 | 0.033 | ≦0.06 |
| THC(ppm) | Maximum hourly average | 1.5 | 1.6 | 2.0 | 1.8 | － |
| Daily average | 1.4 | 1.6 | 1.7 | 1.7 | － |
| PM10  (μg/m3) | 24-hour value | 49 | 32 | 19 | 21 | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 17 | 12 | 10 | 17 | ≦35 |
| TSP (μg/m3) | 24-hour value | 99 | 94 | 36 | 53 | ≦250 |
| Pb(μg/m3) | 24-hour value | ND<0.02 | ND<0.02 | ND<0.02 | ND<0.02 | － |
| Most frequent wind direction | |  | N | NNE | NNE | － |
| Wind speed (m/s) (daily average) | |  | 1.3 | 1.2 | 1.2 | － |
|
| Temperature (°C) (daily average) | |  | 26.1 | 29.1 | 26.2 | － |
|
| Relative humidity (%) (daily average) | |  | 77 | 83 | 81 | － |
|
| Dustfall (g/m2/month) | Monthly average | 2016.01.15-2016.02.16 | 2016.04.22-2016.05.22 | 2016.07.01-2016.07.31 | 2016.09.19-2016.10.19 | － |
| 8.2 | 8.0 | 8.3 | 8.5 | － |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Monitoring location | | Tuen Mun Village | | | | Air quality standard |
| 2017 | | | |
| Monitoring date  Monitoring project | | 2017.02.12-02.13 | 2017.05.18-05.19 | 2017.07.15-07.16 | 2017.10.21-10.22 |
|
| SO2(ppm) | Maximum hourly average | 0.004 | 0.004 | 0.003 | 0.003 | ≦0.25 |
| Daily average | 0.002 | 0.002 | 0.002 | 0.002 | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.017 | 0.014 | 0.006 | 0.004 | ≦0.25 |
| Daily average | 0.009 | 0.005 | 0.004 | 0.002 | － |
| NO(ppm) | Maximum hourly average | 0.003 | 0.004 | 0.004 | 0.003 | － |
| Daily average | 0.003 | 0.002 | 0.002 | 0.003 | － |
| NOx(ppm) | Maximum hourly average | 0.020 | 0.016 | 0.01 | 0.007 | － |
| Daily average | 0.012 | 0.007 | 0.006 | 0.005 | － |
| CO(ppm) | Maximum hourly average | 0.5 | 0.5 | 0.4 | 0.2 | ≦35 |
| 8-hour average | 0.3 | 0.3 | 0.1 | 0.2 | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.7 | 1.6 | 1.9 | 1.9 | － |
| Daily average | 1.6 | 1.5 | 1.7 | 1.8 | － |
| O3(ppm) | Maximum hourly average | 0.052 | 0.058 | 0.041 | 0.057 | ≦0.12 |
| 8-hour average | 0.03 | 0.043 | 0.033 | 0.033 | ≦0.06 |
| THC(ppm) | Maximum hourly average | 1.9 | 1.8 | 2.1 | 2.1 | － |
| Daily average | 1.8 | 1.7 | 1.9 | 2 | － |
| PM10  (μg/m3) | 24-hour value | 32 | 28 | 28 | 47 | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 12 | 16 | 15 | 25 | ≦35 |
| TSP (μg/m3) | 24-hour value | 77 | 46 | 56 | 93 | ≦250 |
| Pb(μg/m3) | 24-hour value | <0.1 | <0.03 | <0.03 | <0.03 | － |
| Most frequent wind direction | |  | SW | NE | N | － |
| Wind speed (m/s) (daily average) | |  | 1.4 | 3 | 2.9 | － |
|
| Temperature (°C) (daily average) | |  | 23.9 | 30.5 | 24 | － |
|
| Relative humidity (%) (daily average) | |  | 82 | 81 | 75 | － |
|
| Dustfall (g/m2/month) | Monthly average | 2016.12.19-2017.01.19 | 2017.03.20-2017.04.19 | 2017.07.01-2017.07.31 | 2017.9.14-2017.10.14 | － |
| 8.5 | 7.5 | 7.5 | 7.9 | － |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Monitoring location | | Tuen Mun Village | | | | | Air quality standard |
| 2018 | | | | |
| Monitoring date  Monitoring project | | 2018.01.27-01.28 | 2018.03.30-03.31 | 2018.08.06-08.07 | 2018.10.19-10.20 | 2018.12.22-12.23 |
|
| SO2(ppm) | Maximum hourly average | 0.003 | 0.002 | 0.001 | 0.002 | 0.004 | ≦0.25 |
| Daily average | 0.003 | 0.002 | 0.001 | 0.001 | 0.002 | ≦0.1 |
| NO2(ppm) | Maximum hourly average | 0.007 | 0.004 | 0.026 | 0.002 | 0.016 | ≦0.25 |
| Daily average | 0.003 | 0.004 | 0.01 | 0.002 | 0.005 | － |
| NO(ppm) | Maximum hourly average | 0.004 | 0.004 | 0.016 | 0.002 | 0.004 | － |
| Daily average | 0.003 | 0.004 | 0.003 | 0.001 | 0.002 | － |
| NOx(ppm) | Maximum hourly average | 0.009 | 0.008 | 0.03 | 0.004 | 0.017 | － |
| Daily average | 0.006 | 0.007 | 0.013 | 0.003 | 0.008 | － |
| CO(ppm) | Maximum hourly average | 0.3 | 0.3 | 0.8 | 0.2 | 0.4 | ≦35 |
| 8-hour average | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 | ≦9 |
| CH4(ppm) | Maximum hourly average | 1.9 | 2 | 1.8 | 2 | 2.2 | － |
| Daily average | 1.8 | 1.9 | 1.7 | 1.8 | 2.2 | － |
| O3(ppm) | Maximum hourly average | 0.049 | 0.068 | 0.046 | 0.076 | 0.057 | ≦0.12 |
| 8-hour average | 0.039 | 0.035 | 0.027 | 0.061\* | 0.054 | ≦0.06 |
| THC(ppm) | Maximum hourly average | 2.1 | 2.1 | 2 | 2.1 | 3 | － |
| Daily average | 2 | 2 | 1.9 | 1.9 | 2.8 | － |
| PM10  (μg/m3) | 24-hour value | 40 | 41 | 46 | 55 | 25 | ≦125 |
| PM2.5 (μg/m3) | 24-hour value | 11 | 16 | 16 | 7 | 21 | ≦35 |
| TSP (μg/m3) | 24-hour value | 77 | 82 | 64 | 76 | 49 | ≦250 |
| Pb(μg/m3) | 24-hour value | ND<0.02 | ND<0.02 | ND<0.02 | ND<0.02 | ND<0.02 | － |
| Most frequent wind direction | |  | E | E | WSW | N | － |
| Wind speed (m/s) (daily average) | |  | 2.1 | 1 | 4.1 | 3.1 | － |
|
| Temperature (°C) (daily average) | |  | 24 | 28.8 | 23.9 | 21.8 | － |
|
| Relative humidity (%) (daily average) | |  | 69 | 80 | 83 | 80 | － |
|
| Dustfall (g/m2/month) | Monthly average | 2017.12.01-2017.12.31 | 2018.04.01-2018.04.30 | 2018.07.01-2018.07.30 | 2018.10.16-2018.11.15 | 108.01.20-108.02.19 | － |
| 7.9 | 8.5 | 8.3 | 9.1 |  | － |

**Second, noise (including low frequency), vibration**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| date | holiday | Non holiday | date | holiday | Non holiday | date | holiday | Non holiday |
| Leq day【dB（A）】 | 2016.02.19~20 | 58.6 | 58.8 | 2016.02.19~20 | 59.9 | 59.6 | 2016.02.19~20 | 54.4 | 49.2 |
| 2016.04.22~23 | 65.7 | 62.6 | 2016.04.22~23 | 57.6 | 59.3 | 2016.04.22~23 | 52.7 | 61.4 |
| 2016.08.05~06 | 59.8 | 61.0 | 2016.08.05~06 | 57.9 | 58.8 | 2016.08.05~06 | 52.6 | 53.2 |
| 2016.10.25~26 | 60.3 | 58.8 | 2016.10.25~26 | 57.6 | 56.0 | 2016.10.25~26 | 59.9 | 62.0 |
| 2017.02.12~13 | 62.9 | 62.0 | 2017.02.19~20 | 59.5 | 57.4 | 2017.02.12~13 | 53.4 | 50.6 |
| 2017.04.16~17 | 58.5 | 66.1 | 2017.04.16~17 | 57.7 | 58.3 | 2017.04.16~17 | 47.1 | 51.0 |
| 2017.08.06~07 | 70.9 | 71.7 | 2017.07.21~22 | 56.4 | 59.1 | 2017.08.06~07 | 59.4 | 60.9 |
| 2017.10.20~21 | 50.5 | 42.3 | 2017.09.10~11 | 59.9 | 57.7 | 2017.10.20~21 | 51.0 | 54.0 |
| 2018.02.02~03 | 72.5 | 70.7 | 2017.12.10~11 | 55.0 | 57.1 | 2018.02.02~03 | 62.1 | 57.7 |
| 2018.03.31~04.01 | 59.4 | 59.7 | 2018.03.31~04.01 | 56.7 | 54.5 | 2018.03.31~04.01 | 56.8 | 56.6 |
| 2018.08.05~06 | 57.3 | 58.7 | 2018.08.05~06 | 53.0 | 57.1 | 2018.08.05~06 | 58.8 | 62.1 |
| 2018.11.16~17 | 73.0 | 67.3 | 2018.11.16~17 | 59.1 | 59.0 | 2018.11.16~17 | 64.7 | 61.8 |
| 108.02.01~02 | 61.9 | 61.7 | 108.02.01~02 | 46.0 | 48.7 | 108.02.01~02 | 64.5 | 61.5 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 76 | | | 60 | | | 65 | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| date | holiday | Non holiday | date | holiday | Non holiday | date | holiday | Non holiday |
| Leq Evening【dB（A）】 | 2016.02.19~20 | 45.5 | 52.8 | 2016.02.19~20 | 53.1 | 53.5 | 2016.02.19~20 | 50.1 | 42.9 |
| 2016.04.22~23 | 58.0 | 60.9 | 2016.04.22~23 | 51.1 | 52.6 | 2016.04.22~23 | 44.2 | 53.4 |
| 2016.08.05~06 | 52.5 | 53.5 | 2016.08.05~06 | 52.3 | 52.9 | 2016.08.05~06 | 51.5 | 50.1 |
| 2016.10.25~26 | 54.8 | 54.2 | 2016.10.25~26 | 51.7 | 46.1 | 2016.10.25~26 | 54.0 | 50.4 |
| 2017.02.12~13 | 48.6 | 46.8 | 2017.02.19~20 | 52.8 | 55.7 | 2017.02.12~13 | 42.7 | 43.6 |
| 2017.04.16~17 | 54.1 | 55.5 | 2017.04.16~17 | 52.6 | 49.2 | 2017.04.16~17 | 49.1 | 50.9 |
| 2017.08.06~07 | 70.9 | 71.7 | 2017.07.21~22 | 52.3 | 51.8 | 2017.08.06~07 | 57.2 | 58.2 |
| 2017.10.20~21 | 50.5 | 42.3 | 2017.09.10~11 | 51.9 | 47.1 | 2017.10.20~21 | 41.9 | 42.2 |
| 2018.02.02~03 | 71.3 | 73.8 | 2017.12.10~11 | 52.9 | 58.5 | 2018.02.02~03 | 43.6 | 59.8 |
| 2018.03.31~04.01 | 54.1 | 54.3 | 2018.03.31~04.01 | 60.3 | 52.3 | 2018.03.31~04.01 | 54.4 | 54.1 |
| 2018.08.05~06 | 55.8 | 56.6 | 2018.08.05~06 | 47.0 | 47.2 | 2018.08.05~06 | 51.3 | 50.3 |
| 2018.11.16~17 | 65.3 | 65.6 | 2018.11.16~17 | 54.7 | 54.8 | 2018.11.16~17 | 55.6 | 55.3 |
| 108.02.01~02 | 56.8 | 56.4 | 108.02.01~02 | 43.0 | 43.1 | 108.02.01~02 | 58.1 | 59.9 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 75 | | | 55 | | | 60 | | |

※During the monitoring period of excessive noise, it is night, and there is no night construction during this period. The judgment should be caused by insects or local residents at night, and the noise value often exceeds the standard.

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Leq Night【dB（A）】 | 2016.02.19~20 | 51.1 | 46.0 | 2016.02.19~20 | 49.7 | 50.2 | 2016.02.19~20 | 48.6 | 46.6 |
| 2016.04.22~23 | 53.2 | 53.3 | 2016.04.22~23 | 47.0 | 48.6 | 2016.04.22~23 | 46.9 | 52.0 |
| 2016.08.05~06 | 51.1 | 49.6 | 2016.08.05~06 | 48.4 | 49.0 | 2016.08.05~06 | 46.0 | 45.5 |
| 2016.10.25~26 | 51.1 | 50.7 | 2016.10.25~26 | 47.6 | 49.9 | 2016.10.25~26 | 48.5 | 51.3 |
| 2017.02.12~13 | 44.0 | 45.6 | 2017.02.19~20 | 48.7 | 46.8 | 2017.02.12~13 | 41.9 | 41.5 |
| 2017.04.16~17 | 54.0 | 53.7 | 2017.04.16~17 | 48.4 | 49.5 | 2017.04.16~17 | 50.8 | 52.0 |
| 2017.08.06~07 | 70.9 | 71.7 | 2017.07.21~22 | 46.8 | 47.0 | 2017.08.06~07 | 54.6 | 54.3 |
| 2017.10.20~21 | 50.5 | 42.3 | 2017.09.10~11 | 48.5 | 49.2 | 2017.10.20~21 | 41.9 | 53.0 |
| 2018.02.02~03 | 71.5 | 66.7 | 2017.12.10~11 | 54.9 | 53.4 | 2018.02.02~03 | 54.9 | 54.5 |
| 2018.03.31~04.01 | 53.0 | 53.4 | 2018.03.31~04.01 | 53.9 | 55.1 | 2018.03.31~04.01 | 48.0 | 49.0 |
| 2018.08.05~06 | 50.7 | 55.2 | 2018.08.05~06 | 46.6 | 49.7 | 2018.08.05~06 | 50.9 | 53.6 |
| 2018.11.16~17 | 65.2 | 64.2 | 2018.11.16~17 | 49.1 | 49.8 | 2018.11.16~17 | 54.3 | 49.4 |
| 108.02.01~02 | 53.0 | 54.4 | 108.02.01~02 | 37.1 | 41.4 | 108.02.01~02 | 53.1 | 54.2 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 72 | | | 50 | | | 55 | | |

※ During the monitoring period of excessive noise, it is night, and there is no night construction during this period. The judgment should be caused by insects or local residents at night, and the noise value often exceeds the standard.

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Leq【dB（A）】 | 2016.02.19~20 | 59.3 | 57.6 | 2016.02.19~20 | 61.0 | 61.1 | 2016.02.19~20 | 56.2 | 53.2 |
| 2016.04.22~23 | 64.5 | 62.8 | 2016.04.22~23 | 57.8 | 59.1 | 2016.04.22~23 | 54.4 | 61.5 |
| 2016.08.05~06 | 60.0 | 60.1 | 2016.08.05~06 | 59.0 | 59.5 | 2016.08.05~06 | 54.2 | 54.1 |
| 2016.10.25~26 | 60.5 | 59.6 | 2016.10.25~26 | 58.3 | 58.8 | 2016.10.25~26 | 59.4 | 61.4 |
| 2017.02.12~13 | 60.7 | 60.0 | 2017.02.19~20 | 59.1 | 57.2 | 2017.02.12~13 | 52.5 | 50.8 |
| 2017.04.16~17 | 61.2 | 64.9 | 2017.04.16~17 | 58.3 | 59.0 | 2017.04.16~17 | 56.8 | 58.3 |
| 2017.08.06~07 | 70.9 | 71.7 | 2017.07.21~22 | 56.4 | 59.1 | 2017.08.06~07 | 62.1 | 62.4 |
| 2017.10.20~21 | 50.5 | 42.3 | 2017.09.10~11 | 59.9 | 57.7 | 2017.10.20~21 | 51.2 | 53.0 |
| 2018.02.02~03 | 79.5 | 75.0 | 2017.12.10~11 | 61.4 | 60.6 | 2018.02.02~03 | 70.9 | 65.4 |
| 2018.03.31~04.01 | 60.9 | 61.2 | 2018.03.31~04.01 | 60.9 | 61.4 | 2018.03.31~04.01 | 57.9 | 58.0 |
| 2018.08.05~06 | 60.0 | 62.1 | 2018.08.05~06 | 55.5 | 58.1 | 2018.08.05~06 | 59.5 | 62.3 |
| 2018.11.16~17 | 73.7 | 71.2 | 2018.11.16~17 | 59.6 | 59.4 | 2018.11.16~17 | 64.2 | 60.9 |
| 108.02.01~02 | 62.2 | 62.8 | 108.02.01~02 | 46.7 | 50.1 | 108.02.01~02 | 64.1 | 64.2 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | - | | | - | | | - | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lmax【dB（A）】 | 2016.02.19~20 | 89.2 | 91.9 | 2016.02.19~20 | 84.9 | 83.2 | 2016.02.19~20 | 77.6 | 77.9 |
| 2016.04.22~23 | 98.3 | 89.2 | 2016.04.22~23 | 92.5 | 91.8 | 2016.04.22~23 | 81.9 | 87.6 |
| 2016.08.05~06 | 87.9 | 91.8 | 2016.08.05~06 | 84.0 | 87.2 | 2016.08.05~06 | 79.2 | 79.7 |
| 2016.10.25~26 | 92.9 | 96.9 | 2016.10.25~26 | 88.3 | 87.7 | 2016.10.25~26 | 88.3 | 90.8 |
| 2017.02.12~13 | 87.8 | 78.4 | 2017.02.19~20 | 89.1 | 94.7 | 2017.02.12~13 | 85.5 | 82.5 |
| 2017.04.16~17 | 84.7 | 102.3 | 2017.04.16~17 | 90.3 | 90.3 | 2017.04.16~17 | 81.7 | 90.6 |
| 2017.08.06~07 | 70.9 | 71.7 | 2017.07.21~22 | 56.4 | 59.1 | 2017.08.06~07 | 85.6 | 86.7 |
| 2017.10.20~21 | 50.5 | 42.3 | 2017.09.10~11 | 59.9 | 57.7 | 2017.10.20~21 | 84.1 | 88.0 |
| 2018.02.02~03 | 96.8 | 95.9 | 2017.12.10~11 | 75.6 | 84.6 | 2018.02.02~03 | 83.1 | 86.9 |
| 2018.03.31~04.01 | 80.7 | 78.2 | 2018.03.31~04.01 | 83.2 | 75.6 | 2018.03.31~04.01 | 89.1 | 89.1 |
| 2018.08.05~06 | 85.8 | 89.7 | 2018.08.05~06 | 79.7 | 89.5 | 2018.08.05~06 | 87.1 | 99.7 |
| 2018.11.16~17 | 99.4 | 90.3 | 2018.11.16~17 | 85.5 | 81.8 | 2018.11.16~17 | 86.5 | 96.1 |
| 108.02.01~02 | 93.8 | 89.0 | 108.02.01~02 | 75.5 | 78.0 | 108.02.01~02 | 86.3 | 96.7 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | - | | | - | | | - | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lv日 | 2016.02.19~20 | 30.0 | 30.1 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 |
| 2016.04.22~23 | 30.0 | 30.0 | 2016.04.22~23 | 30.0 | 30.0 | 2016.04.22~23 | 30.0 | 30.0 |
| 2016.08.05~06 | 30.0 | 30.0 | 2016.08.05~06 | 30.0 | 30.0 | 2016.08.05~06 | 30.2 | 30.1 |
| 2016.10.25~26 | 30.0 | 30.0 | 2016.10.25~26 | 30.0 | 30.0 | 2016.10.25~26 | 30.9 | 30.0 |
| 2017.02.12~13 | 31.0 | 30.1 | 2017.02.19~20 | 30.0 | 30.0 | 2017.02.12~13 | 30.0 | 30.0 |
| 2017.04.16~17 | 32.6 | 33.5 | 2017.04.16~17 | 32.3 | 31.3 | 2017.04.16~17 | 39.5 | 37.7 |
| 2017.08.06~07 | 30.0 | 30.0 | 2017.07.21~22 | 31.9 | 31.8 | 2017.08.06~07 | 33.7 | 36.0 |
| 2017.10.20~21 | 30.0 | 30.0 | 2017.09.10~11 | 32.9 | 33.0 | 2017.10.20~21 | 30.0 | 30.0 |
| 2018.02.02~03 | 40.0 | 33.7 | 2017.12.10~11 | 30.0 | 30.0 | 2018.02.02~03 | 32.3 | 31.3 |
| 2018.03.31~04.01 | 30.0 | 31.9 | 2018.03.31~04.01 | 32.2 | 33.0 | 2018.03.31~04.01 | 30.0 | 30.0 |
| 2018.08.05~06 | 30.0 | 31.2 | 2018.08.05~06 | 30.0 | 30.0 | 2018.08.05~06 | 30.0 | 31.2 |
| 2018.11.16~17 | 45.9 | 38.8 | 2018.11.16~17 | 43.6 | 36.8 | 2018.11.16~17 | 48.8 | 40.9 |
| 108.02.01~02 | 30.4 | 30.0 | 108.02.01~02 | 32.6 | 30.1 | 108.02.01~02 | 35.3 | 34.7 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 70 | | | 65 | | | 70 | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lv night | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 |
| 2016.04.22~23 | 30.0 | 30.0 | 2016.04.22~23 | 30.0 | 30.0 | 2016.04.22~23 | 30.0 | 30.0 |
| 2016.08.05~06 | 30.0 | 30.0 | 2016.08.05~06 | 30.0 | 30.0 | 2016.08.05~06 | 30.0 | 30.0 |
| 2016.10.25~26 | 30.0 | 30.0 | 2016.10.25~26 | 30.0 | 30.0 | 2016.10.25~26 | 30.0 | 30.0 |
| 2017.02.12~13 | 30.3 | 30.0 | 2017.02.19~20 | 30.0 | 30.0 | 2017.02.12~13 | 30.0 | 30.0 |
| 2017.04.16~17 | 26.7 | 26.1 | 2017.04.16~17 | 25.5 | 25.8 | 2017.04.16~17 | 32.4 | 31.7 |
| 2017.08.06~07 | 30.0 | 30.0 | 2017.07.21~22 | 30.0 | 30.0 | 2017.08.06~07 | 33.0 | 30.0 |
| 2017.10.20~21 | 30.0 | 30.0 | 2017.09.10~11 | 30.0 | 30.0 | 2017.10.20~21 | 30.0 | 30.0 |
| 2018.02.02~03 | 36.5 | 33.7 | 2017.12.10~11 | 30.0 | 30.0 | 2018.02.02~03 | 30.0 | 30.0 |
| 2018.03.31~04.01 | 30.0 | 33.1 | 2018.03.31~04.01 | 32.9 | 30.0 | 2018.03.31~04.01 | 30.0 | 30.0 |
| 2018.08.05~06 | 30.0 | 32.6 | 2018.08.05~06 | 31.5 | 30.0 | 2018.08.05~06 | 30.0 | 30.0 |
| 2018.11.16~17 | 42.2 | 38.5 | 2018.11.16~17 | 39.7 | 36.7 | 2018.11.16~17 | 44.6 | 40.8 |
| 108.02.01~02 | 30.0 | 30.0 | 108.02.01~02 | 38.9 | 32.2 | 108.02.01~02 | 35.3 | 33.9 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 70 | | | 65 | | | 70 | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lvmax | 2016.02.19~20 | 53.9 | 49.3 | 2016.02.19~20 | 55.6 | 47.0 | 2016.02.19~20 | 59.6 | 48.2 |
| 2016.04.22~23 | 45.7 | 46.7 | 2016.04.22~23 | 39.6 | 42.0 | 2016.04.22~23 | 53.9 | 45.1 |
| 2016.08.05~06 | 42.8 | 50.3 | 2016.08.05~06 | 42.8 | 42.7 | 2016.08.05~06 | 64.9 | 59.2 |
| 2016.10.25~26 | 45.8 | 69.6 | 2016.10.25~26 | 38.5 | 38.8 | 2016.10.25~26 | 55.8 | 51.6 |
| 2017.02.12~13 | 54.5 | 52.9 | 2017.02.19~20 | 44.5 | 36.2 | 2017.02.12~13 | 36.2 | 64.5 |
| 2017.04.16~17 | 69.7 | 68.6 | 2017.04.16~17 | 70.9 | 69.7 | 2017.04.16~17 | 77.0 | 74.5 |
| 2017.08.06~07 | 40.6 | 34.2 | 2017.07.21~22 | 46.0 | 45.9 | 2017.08.06~07 | 74.3 | 64.1 |
| 2017.10.20~21 | 32.0 | 41.0 | 2017.09.10~11 | 48.3 | 50.4 | 2017.10.20~21 | 30.0 | 30.0 |
| 2018.02.02~03 | 66.3 | 63.9 | 2017.12.10~11 | 51.8 | 62.6 | 2018.02.02~03 | 51.6 | 53.2 |
| 2018.03.31~04.01 | 47.0 | 79.6 | 2018.03.31~04.01 | 79.6 | 50.4 | 2018.03.31~04.01 | 35.0 | 33.4 |
| 2018.08.05~06 | 52.6 | 77.2 | 2018.08.05~06 | 55.1 | 42.9 | 2018.08.05~06 | 52.6 | 77.2 |
| 2018.11.16~17 | 74.8 | 73.6 | 2018.11.16~17 | 71.3 | 70.2 | 2018.11.16~17 | 79.1 | 77.9 |
| 108.02.01~02 | 55.8 | 50.3 | 108.02.01~02 | 65.9 | 72.7 | 108.02.01~02 | 47.6 | 63.5 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | - | | | - | | | - | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lday【dB（A）】 | 2016.02.19~20 | 30.3 | 30.7 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.1 |
| 2016.04.22~23 | 46.6 | 46.0 | 2016.04.22~23 | 26.9 | 25.6 | 2016.04.22~23 | 26.3 | 25.5 |
| 2016.08.05~06 | 37.9 | 38.4 | 2016.08.05~06 | 25.3 | 25.9 | 2016.08.05~06 | 41.6 | 41.2 |
| 2016.10.25~26 | 40.6 | 37.0 | 2016.10.25~26 | 37.0 | 35.7 | 2016.10.25~26 | 39.2 | 35.9 |
| 2017.02.12~13 | 33.6 | 33.7 | 2017.02.19~20 | 32.4 | 32.8 | 2017.02.12~13 | 39.7 | 38.8 |
| 2017.04.16~17 | 32.6 | 33.5 | 2017.04.16~17 | 32.3 | 31.3 | 2017.04.16~17 | 39.5 | 37.7 |
| 2017.08.06~07 | 45.0 | 45.1 | 2017.07.21~22 | 28.8 | 39.7 | 2017.08.06~07 | 25.0 | 27.3 |
| 2017.10.20~21 | 25.0 | 25.0 | 2017.09.10~11 | 40.9 | 40.2 | 2017.10.20~21 | 40.5 | 41.9 |
| 2018.02.02~03 | 32.5 | 31.9 | 2017.12.10~11 | 41.1 | 40.0 | 2018.02.02~03 | 31.1 | 30.1 |
| 2018.03.31~04.01 | 30.6 | 32.3 | 2018.03.31~04.01 | 30.6 | 32.5 | 2018.03.31~04.01 | 40.6 | 41.5 |
| 2018.08.05~06 | 35.1 | 37.2 | 2018.08.05~06 | 40.4 | 39.8 | 2018.08.05~06 | 38.7 | 38.4 |
| 2018.11.16~17 | 32.8 | 33.0 | 2018.11.16~17 | 33.4 | 32.0 | 2018.11.16~17 | 45.2 | 45.8 |
| 108.02.01~02 | 34.2 | 39.4 | 108.02.01~02 | 33.5 | 34.9 | 108.02.01~02 | 43.6 | 45.6 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 47 | | | 42 | | | 47 | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Levening【dB（A）】 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 |
| 2016.04.22~23 | 45.2 | 42.9 | 2016.04.22~23 | 25.0 | 25.0 | 2016.04.22~23 | 25.0 | 25.0 |
| 2016.08.05~06 | 36.2 | 35.0 | 2016.08.05~06 | 25.0 | 25.0 | 2016.08.05~06 | 42.2 | 42.1 |
| 2016.10.25~26 | 39.3 | 41.2 | 2016.10.25~26 | 36.6 | 39.5 | 2016.10.25~26 | 36.9 | 33.7 |
| 2017.02.12~13 | 27.7 | 26.2 | 2017.02.19~20 | 26.5 | 26.3 | 2017.02.12~13 | 32.7 | 33.0 |
| 2017.04.16~17 | 26.7 | 26.1 | 2017.04.16~17 | 25.5 | 25.8 | 2017.04.16~17 | 32.4 | 31.7 |
| 2017.08.06~07 | 43.6 | 43.2 | 2017.07.21~22 | 32.7 | 32.7 | 2017.08.06~07 | 25.0 | 25.0 |
| 2017.10.20~21 | 25.0 | 25.0 | 2017.09.10~11 | 34.7 | 34.9 | 2017.10.20~21 | 36.6 | 37.3 |
| 2018.02.02~03 | 32.8 | 34.8 | 2017.12.10~11 | 34.0 | 34.0 | 2018.02.02~03 | 26.5 | 26.0 |
| 2018.03.31~04.01 | 27.3 | 29.9 | 2018.03.31~04.01 | 27.5 | 30.7 | 2018.03.31~04.01 | 34.5 | 35.7 |
| 2018.08.05~06 | 34.7 | 33.2 | 2018.08.05~06 | 37.8 | 44.4 | 2018.08.05~06 | 37.8 | 34.1 |
| 2018.11.16~17 | 30.0 | 31.6 | 2018.11.16~17 | 28.3 | 30.3 | 2018.11.16~17 | 35.0 | 35.5 |
| 108.02.01~02 | 30.9 | 34.0 | 108.02.01~02 | 30.4 | 32.5 | 108.02.01~02 | 38.7 | 45.8 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 47 | | | 42 | | | 47 | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lnight【dB（A）】 | 2016.02.19~20 | 30.4 | 30.2 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.0 |
| 2016.04.22~23 | 41.1 | 40.5 | 2016.04.22~23 | 25.8 | 25.2 | 2016.04.22~23 | 25.3 | 25.2 |
| 2016.08.05~06 | 35.4 | 33.7 | 2016.08.05~06 | 25.1 | 25.4 | 2016.08.05~06 | 42.0 | 41.9 |
| 2016.10.25~26 | 42.4 | 42.9 | 2016.10.25~26 | 27.6 | 36.6 | 2016.10.25~26 | 38.6 | 34.7 |
| 2017.02.12~13 | 26.1 | 25.2 | 2017.02.19~20 | 30.6 | 29.5 | 2017.02.12~13 | 32.2 | 32.5 |
| 2017.04.16~17 | 30.4 | 27.0 | 2017.04.16~17 | 30.7 | 32.3 | 2017.04.16~17 | 33.5 | 36.8 |
| 2017.08.06~07 | 34.3 | 34.3 | 2017.07.21~22 | 32.3 | 32.2 | 2017.08.06~07 | 25.0 | 25.0 |
| 2017.10.20~21 | 25.0 | 25.0 | 2017.09.10~11 | 34.4 | 34.6 | 2017.10.20~21 | 35.7 | 36.5 |
| 2018.02.02~03 | 32.1 | 27.5 | 2017.12.10~11 | 33.4 | 33.6 | 2018.02.02~03 | 26.3 | 25.3 |
| 2018.03.31~04.01 | 26.2 | 25.9 | 2018.03.31~04.01 | 26.0 | 26.1 | 2018.03.31~04.01 | 34.6 | 33.6 |
| 2018.08.05~06 | 33.6 | 27.8 | 2018.08.05~06 | 37.8 | 33.3 | 2018.08.05~06 | 37.2 | 30.5 |
| 2018.11.16~17 | 27.5 | 29.0 | 2018.11.16~17 | 25.3 | 25.0 | 2018.11.16~17 | 34.3 | 31.8 |
| 108.02.01~02 | 29.3 | 37.8 | 108.02.01~02 | 26.0 | 29.9 | 108.02.01~02 | 39.3 | 40.8 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | 44 | | | 39 | | | 44 | | |

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|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Leq【dB（A）】 | 2016.02.19~20 | 30.3 | 30.4 | 2016.02.19~20 | 30.0 | 30.0 | 2016.02.19~20 | 30.0 | 30.1 |
| 2016.04.22~23 | 45.2 | 44.3 | 2016.04.22~23 | 26.3 | 25.4 | 2016.04.22~23 | 25.8 | 25.3 |
| 2016.08.05~06 | 37.0 | 36.8 | 2016.08.05~06 | 25.2 | 25.6 | 2016.08.05~06 | 41.9 | 41.6 |
| 2016.10.25~26 | 41.1 | 40.5 | 2016.10.25~26 | 35.2 | 36.7 | 2016.10.25~26 | 38.7 | 35.2 |
| 2017.02.12~13 | 31.4 | 31.3 | 2017.02.19~20 | 31.3 | 31.3 | 2017.02.12~13 | 37.4 | 36.7 |
| 2017.04.16~17 | 31.3 | 31.3 | 2017.04.16~17 | 31.3 | 31.3 | 2017.04.16~17 | 37.4 | 36.8 |
| 2017.08.06~07 | 43.1 | 43.1 | 2017.07.21~22 | 36.4 | 37.4 | 2017.08.06~07 | 25.3 | 26.3 |
| 2017.10.20~21 | 25.0 | 25.0 | 2017.09.10~11 | 38.8 | 38.3 | 2017.10.20~21 | 38.8 | 40.1 |
| 2018.02.02~03 | 32.4 | 31.7 | 2017.12.10~11 | 38.8 | 37.9 | 2018.02.02~03 | 29.3 | 28.4 |
| 2018.03.31~04.01 | 29.0 | 30.6 | 2018.03.31~04.01 | 29.0 | 30.8 | 2018.03.31~04.01 | 38.6 | 39.2 |
| 2018.08.05~06 | 34.6 | 35.0 | 2018.08.05~06 | 39.3 | 39.6 | 2018.08.05~06 | 38.1 | 36.3 |
| 2018.11.16~17 | 31.0 | 31.7 | 2018.11.16~17 | 31.2 | 30.3 | 2018.11.16~17 | 42.6 | 43.1 |
| 108.02.01~02 | 32.6 | 38.3 | 108.02.01~02 | 31.5 | 33.3 | 108.02.01~02 | 41.9 | 44.6 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | - | | | - | | | - | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Xingren Elementary School | | | Tuen Mun Village | | | Planning site perimeter | | |
| Non holiday | date | holiday | Non holiday | date | holiday | Non holiday | date | holiday |
| Lmax【dB（A）】 | 2016.02.19~20 | 61.2 | 65.0 | 2016.02.19~20 | 55.9 | 59.1 | 2016.02.19~20 | 61.1 | 63.5 |
| 2016.04.22~23 | 74.0 | 72.6 | 2016.04.22~23 | 55.1 | 54.3 | 2016.04.22~23 | 60.9 | 59.9 |
| 2016.08.05~06 | 60.9 | 68.2 | 2016.08.05~06 | 55.1 | 53.9 | 2016.08.05~06 | 57.7 | 55.5 |
| 2016.10.25~26 | 68.9 | 68.6 | 2016.10.25~26 | 63.7 | 66.0 | 2016.10.25~26 | 60.0 | 58.5 |
| 2017.02.12~13 | 69.7 | 70.9 | 2017.02.19~20 | 69.7 | 70.9 | 2017.02.12~13 | 77.0 | 74.5 |
| 2017.04.16~17 | 69.7 | 68.6 | 2017.04.16~17 | 70.9 | 69.7 | 2017.04.16~17 | 77.0 | 74.5 |
| 2017.08.06~07 | 74.2 | 75.4 | 2017.07.21~22 | 72.0 | 77.0 | 2017.08.06~07 | 46.4 | 69.8 |
| 2017.10.20~21 | 41.5 | 44.4 | 2017.09.10~11 | 77.0 | 74.7 | 2017.10.20~21 | 56.5 | 70.3 |
| 2018.02.02~03 | 61.6 | 67.8 | 2017.12.10~11 | 78.8 | 75.6 | 2018.02.02~03 | 54.8 | 60.8 |
| 2018.03.31~04.01 | 59.1 | 58.0 | 2018.03.31~04.01 | 56.7 | 57.8 | 2018.03.31~04.01 | 77.0 | 78.9 |
| 2018.08.05~06 | 69.3 | 68.6 | 2018.08.05~06 | 74.5 | 74.7 | 2018.08.05~06 | 72.7 | 71.9 |
| 2018.11.16~17 | 56.8 | 58.5 | 2018.11.16~17 | 59.8 | 59.5 | 2018.11.16~17 | 62.9 | 67.5 |
| 108.02.01~02 | 64.7 | 70.8 | 108.02.01~02 | 63.2 | 63.7 | 108.02.01~02 | 58.2 | 60.4 |
| Control category | Roads of more than eight meters in the third type of control area | | | Second class | | | Third class | | |
| Category control standard | - | | | - | | | - | | |

**Third, the ecological environment**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Land ecological survey results | | | | | | | | | | | | | |
|  | plant | | Butterfly | | Insects | | Reptile | | Mammal | | Amphibian | | birds | |
| Monitoring date | family | species | species | number | species | number | species | number | species | number | species | number | species | number |
| 2016.02 | 50 | 148 | 6 | 18 | 22 | 98 | 3 | 13 | 2 | 6 | 0 | 0 | 31 | 183 |
| 2016.04 | 54 | 163 | 7 | 42 | 29 | 131 | 3 | 17 | 2 | 17 | 2 | 13 | 32 | 32 |
| 2016.08 | 56 | 170 | 6 | 12 | 30 | 101 | 4 | 46 | 2 | 29 | 2 | 10 | 23 | 219 |
| 2016.10 | 48 | 136 | 9 | 64 | 24 | 78 | 2 | 5 | 3 | 8 | 1 | 1 | 36 | 244 |
| 2017.02 | 46 | 118 | 6 | 29 | 26 | 185 | 2 | 5 | 3 | 7 | 1 | 1 | 23 | 295 |
| 2017.04 | 51 | 124 | 5 | 23 | 31 | 212 | 3 | 12 | 3 | 12 | 2 | 16 | 28 | 207 |
| 2017.07 | 52 | 145 | 9 | 33 | 35 | 197 | 3 | 41 | 3 | 22 | 1 | 7 | 21 | 112 |
| 2017.11 | 52 | 143 | 10 | 40 | 31 | 431 | 3 | 16 | 4 | 10 | 0 | 0 | 36 | 170 |
| 2018.01 | 53 | 139 | 5 | 15 | 31 | 51 | 1 | 4 | 2 | 6 | 0 | 0 | 33 | 175 |
| 2018.04 | 58 | 156 | 10 | 95 | 41 | 225 | 4 | 29 | 3 | 15 | 0 | 0 | 28 | 141 |
| 2018.07 | 58 | 168 | 10 | 73 | 33 | 312 | 5 | 34 | 2 | 27 | 1 | 2 | 23 | 200 |
| 2018.10 | 53 | 163 | 10 | 49 | 21 | 109 | 3 | 12 | 2 | 8 | 0 | 0 | 42 | 200 |
| 108.01 | 55 | 172 | 3 | 5 | 8 | 23 | 1 | 2 | 1 | 3 | 0 | 0 | 33 | 231 |

※The dry environment in Wuhu will limit the range and energy of amphibians, and it is not suitable for amphibious living environment. Therefore, it is impossible to find amphibians during the northeast monsoon.

**Fourth, the sea area ecology**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marine ecological survey results | | | | | | | | | | | | | | |
|  | Vegetative plankton | | Animal plankton | | Juvenile fish | | Fish | | Coral | | Algae | | Benthic organism | |
| Monitoring date | division | species | phylum | species | class | number | family | species | genus | species | division | species | class | species |
| 2016.02 | 3 | 30 | 9 | 28 | 4 | 103 | 12 | 23 | 21 | 40 | 2 | 4 | 5 | 11 |
| 2016.04 | 3 | 34 | 9 | 28 | 5 | 1403 | 18 | 42 | 25 | 47 | 2 | 4 | 6 | 22 |
| 2016.08 | 3 | 34 | 9 | 31 | 4 | 1228 | 21 | 57 | 22 | 46 | 2 | 5 | 6 | 33 |
| 2016.10 | 3 | 27 | 9 | 28 | 4 | 1089 | 23 | 52 | 22 | 44 | 2 | 9 | 7 | 30 |
| 2017.02 | 3 | 29 | 9 | 26 | 7 | 805 | 23 | 38 | 21 | 41 | 2 | 6 | 7 | 33 |
| 2017.05 | 3 | 33 | 9 | 28 | 5 | 175 | 19 | 49 | 21 | 41 | 3 | 9 | 7 | 32 |
| 2017.08 | 3 | 37 | 9 | 32 | 7 | 211 | 19 | 49 | 24 | 47 | 3 | 8 | 7 | 38 |
| 2017.11 | 3 | 32 | 9 | 32 | 7 | 96 | 21 | 45 | 24 | 47 | 3 | 8 | 7 | 27 |
| 2018.01 | 3 | 29 | 9 | 25 | 9 | 1132 | 16 | 33 | 21 | 50 | 3 | 7 | 7 | 32 |
| 2018.04 | 3 | 33 | 9 | 29 | 4 | 2497 | 16 | 35 | 24 | 49 | 4 | 9 | 8 | 35 |
| 2018.07 | 3 | 36 | 9 | 31 | 8 | 1518 | 15 | 33 | 26 | 51 | 3 | 6 | 7 | 25 |
| 2018.10 | 3 | 34 | 9 | 30 | 7 | 824 | 22 | 52 | 25 | 49 | 2 | 7 | 7 | 28 |
| 108.01 | 3 | 31 | 8 | 26 | 11 | 642 | 23 | 41 | 24 | 51 | 3 | 5 | 7 | 29 |

**Fifth, the water quality of the sea**

| **Monitoring season** | **Test items** | **pH** | **Water temperature** | **Dissolved oxygen** | **salinity** | **Hypochlorite** | **Flow rate** | **Flow direction** | **Biochemical oxygen demand** | **Cyanide** | **Escherichia coli** | **Mineral oil** | **Ammonia nitrogen** | **Nitrate nitrogen** | **Suspended solid** | **Total phosphorus** | **Chlorophyll a** | **Phenols** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| unit | - | ℃ | mg/L | psu | mg/L | m/s | 度 | mg/L | mg/L | CFU/100mL | mg/L | mg/L | mg/L | mg/L | mg/L | μg/L | mg/L |
| Class A sea area regulatory standards | 7.5~8.5 | - | >5 | - | - | - | - | <2 | 0.01 | <1000 | 2 | 0.3 | 0.5 | - | 0.05 | - | 0.01 |
| Self-monitoring - Season 1 (2015.11-2016.02) | average value | 8.2 | 19.2 | 6.4 | 34.28 | 0.01 | 0.208 | 31.05 | <1.0 | 0.01 | <10 | 2 | ND | <0.05 | 1.54 | 0.01 | 1.09 | ND |
| Self-monitoring - Season 2 (2016.03-2016.05) | average value | 8.2 | 24.4 | 6.3 | 33.98 | ND | 0.146 | 29.66 | <1.0 | ND | <10 | 2 | 0.06 | <0.05 | 1.31 | 0.02 | 0.54 | ND |
| Self-monitoring - Season 3 (2016.06-2016.08) | average value | 8.2 | 27.6 | 6.3 | 34.25 | ND | 0.135 | 37.08 | <1.0 | ND | <10 | <1.0 | 0.06 | <0.05 | 2.96 | 0.02 | 0.50 | ND |
| Self-monitoring - Season 4 (2016.09-2016.11) | average value | 8.2 | 26.8 | 6.1 | 34.14 | ND | 0.2018 | 198.64 | <1.0 | ND | <10 | <1.0 | 0.05 | ND | <1.0 | 0.06 | 1.20 | ND |
| Self-monitoring - Season 5 (2016.12-2017.02) | average value | 8.2 | 18.3 | 6.0 | 34.14 | ND | 0.090 | 30.89 | <1.0 | ND | <10 | <1.0 | ND | 0.11 | 1.50 | 0.02 | 0.36 | ND |
| Construction Monitoring - Season 6 (2017.02.20-2017.05.19) | average value | 8.2 | 24.4 | 6.1 | 34.06 | ND | 0.085 | 32.09 | <1.0 | ND | <10 | <1.0 | 0.06 | 0.12 | 1.51 | 0.02 | 0.50 | ND |
| Construction Monitoring - Season 7 (2017.05.20-2017.08.19) | average value | 8.2 | 27.6 | 6.1 | 34.13 | ND | 0.093 | 195.13 | <1.0 | ND | <10 | <1.0 | 0.06 | <0.05 | 1.41 | 0.02 | 0.20 | ND |
| Construction Monitoring - Season 8 (2017.08.20-2017.11.19) | average value | 8.2 | 24.0 | 6.1 | 33.28 | ND | 0.065 | 127.20 | 1.17 | ND | <10 | <1.0 | 0.08 | 0.10 | 3.94 | 0.01 | 0.33 | ND |
| Construction Monitoring - Season 9 (2017.11.20-2018.02.19) | average value | 8.2 | 15.7 | 6.0 | 33.94 | ND | 0.076 | 42.29 | 2.40 | ND | <10 | <1.0 | 0.12 | ND | 1.48 | 0.01 | 0.53 | ND |
| Construction Monitoring - Season 10 (2018.02.20-2018.05.19) | average value | 8.2 | 23.8 | 6.0 | 34.04 | ND | 0.073 | 47.81 | <1.0 | ND | <10 | <1.0 | 0.09 | <0.05 | 2.54 | 0.03 | 0.29 | ND |
| Construction Monitoring - Season 11 (2018.05.20-2018.08.19) | average value | 8.2 | 26.7 | 5.8 | 34.13 | <0.02 | 0.074 | 46.69 | <1.0 | ND | <10 | <1.0 | 0.10 | <0.05 | 1.76 | 0.01 | 1.11 | ND |
| Construction Monitoring - Season 12 (2018.08.20-2018.11.19) | average value | 8.2 | 22.7 | 5.9 | 33.99 | 0.02 | 0.053 | 201.41 | <1.0 | ND | <10 | <1.0 | 0.15 | <0.05 | 0.03 | 0.19 | 0.40 | ND |

※Self-monitoring - Season 4: According to the study, most of the fishermen in Longmen Fishing Port entered the port before the morning. The fishermen washed the clothes and caused the wastewater containing a large amount of detergent. During this period, they were discharged into the sea, causing excessive phosphorus in most points on the east side of the line. situation.

※ Construction monitoring - Season 9: Only the S02 surface layer and the S10 middle layer do not meet the water quality and biochemical oxygen demand standards of the Class A sea area, and the rest are in compliance, indicating that there is no organic pollutant in the adjacent waters of the factory, which should be incidental in nature. phenomenon.

**Sixth groundwater quality**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Season | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| Self-monitoring – Season 1 (2015.11-2016.02) | GW1 | 6.521 | 20.1 | 7.4 | 1.6 | 6.17x10-4 | 93.6 | 384 | 0.03 | 1.57\* | 0.346\* | 0.045 | <10 |
| GW2 | 4.401 | 20.8 | 7.3 | <1.0 | 7.90x10-4 | 139 | 253 | 0.04 | 0.275 | 0.346\* | 0.038 | <10 |
| GW3 | 5.218 | 20.7 | 7.3 | <1.0 | 5.09x10-4 | 1 | 390 | 0.02 | 0.826 | 0.270\* | 0.015 | <10 |
| Haichang factory | 29.348 | 20.9 | 7.3 | <1.0 | 5.06x10-4 | 1.2 | 389 | 0.02 | 0.674 | 0.270\* | 0.017 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Self-monitoring–Season 2(2016.03-2016.05) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.235 | 26.6 | 7.2 | <1.0 | 6.21x10-4 | 594 | 85 | 6.81 | 0.073 | 0.014 | 0.177 | 1200 |
| GW2 | 1.115 | 27.7 | 7.3 | <1.0 | 7.59x10-4 | 6.5 | 127 | 5.28 | 0.09 | 0.007 | 0.061 | 130 |
| GW3 | 5.128 | 26.7 | 7.3 | <1.0 | 7.03x10-4 | <1.0 | 438 | 0.03 | 0.26 | 0.218 | 0.024 | <10 |
| Haichang factory | 30.012 | 28.3 | 7.3 | <1.0 | 7.09x10-4 | 1.2 | 560 | 0.03 | 0.26 | 0.212 | 0.037 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Self-monitoring – Season 3(2016.06-2016.08) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.227 | 26.6 | 8.2 | <1.0 | 8.31x10-4 | 132 | 251 | 0.26 | 0.059 | 0.019 | 0.23 | 10 |
| GW2 | 1.2018 | 26.4 | 7.7 | <1.0 | 8.16x10-4 | 89.6 | 262 | 0.12 | 0.049 | 0.13 | 0.133 | 25 |
| GW3 | 5.211 | 26.1 | 7.6 | <1.0 | 7.64x10-4 | <1.0 | 324 | 0.08 | 0.048 | 0.192 | 0.018 | <10 |
| Haichang factory | 29.219 | 26.4 | 7.7 | <1.0 | 7.08x10-4 | 1 | 330 | 0.09 | 0.089 | 0.192 | 0.004 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Self-monitoring – Season 4 (2016.09-2016.11) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.229 | 26.5 | 8.3 | <1.0 | 8.31x10-4 | 39 | 64.9 | 0.14 | 0.042 | ND | 0.059 | <10 |
| GW2 | 1.12 | 26.4 | 7.7 | <1.0 | 8.16x10-4 | 14.4 | 149 | 0.49 | 0.038 | 0.053 | 0.122 | 70 |
| GW3 | 5.223 | 26.7 | 7.6 | <1.0 | 7.65x10-4 | <1.0 | 366 | <0.05 | 0.095 | 0.208 | 0.017 | <10 |
| Haichang factory | 29.201 | 26.8 | 7.8 | <1.0 | 7.11x10-4 | <1.0 | 368 | ND | 0.367 | 0.213 | 0.03 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Self-monitoring – Season 5(2016.12-2017.02) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 6.259 | 21.3 | 7.5 | 2.1 | 7.86x10-4 | 82.8 | 300 | 0.09 | 0.059 | 0.057 | 0.164 | <10 |
| GW2 | 4.77 | 25.2 | 7.7 | 1.2 | 8.19x10-4 | 28.1 | 259 | 0.07 | 0.101 | 0.122 | 0.175 | 65 |
| GW3 | 5.192 | 23.2 | 7.5 | 1.2 | 6.85x10-4 | 1 | 385 | <0.05 | 0.264 | 0.243 | 0.016 | <10 |
| Haichang factory | 30.128 | 23.1 | 7.5 | 1.4 | 6.82x10-4 | 1.2 | 400 | <0.05 | 0.249 | 0.243 | 0.252 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Construction Monitoring - Season 6 (2017.02.20-2017.05.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.215 | 28.3 | 8.3 | <10 | 8.31x10-4 | 157 | 2015 | 9.17 | 0.244 | 0.087 | 2.01 | <10 |
| GW2 | 1.12 | 28.4 | 7.7 | 1.3 | 8.12 x10-4 | 54.8 | 260 | <0.05 | 0.065 | 0.043 | 0.487 | 750 |
| GW3 | 5.198 | 28.3 | 7.6 | <1.0 | 7.66x10-4 | <1.0 | 356 | <0.05 | 0.077 | 0.228 | 0.012 | 20 |
| Haichang factory | 29.2 | 26.5 | 7.7 | <1.0 | 7.15x10-4 | <1.0 | 383 | 0.05 | 0.077 | 0.224 | 0.013 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Construction Monitoring - Season 7 (2017.05.20-2017.08.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 6.655 | 27 | 7.2 | 2.5 | 8.16 x10-4 | 28.1 | 6.2 | 2.91 | 0.166 | ND | 0.192 | 10000 |
| GW2 | 5.621 | 27.2 | 7.4 | 1.7 | 7.13 x10-4 | 17.8 | 207 | 3.75 | 0.034 | 0.075 | 0.329 | 3900 |
| GW3 | 5.293 | 28.5 | 7.5 | 1.2 | 6.10 x10-4 | 3.4 | 426 | <0.05 | 0.126 | 0.213 | 0.027 | 80 |
| Haichang factory | 28.925 | 28.3 | 7.5 | 1.3 | 6.11 x10-4 | 4 | 412 | <0.05 | 0.224 | 0.222 | 0.01 | 50 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Construction Monitoring - Season 8季 (2017.08.20-2017.11.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 3.374 | 26.4 | 7.3 | 1.1 | 7.29 x10-4 | 32.4 | 293 | 0.28 | 0.149 | 0.242 | 0.071 | 6500 |
| GW2 | 1.288 | 26.5 | 7.7 | 1.7 | 7.75 x10-4 | 20.6 | 242 | 0.07 | 0.038 | 0.15 | 0.134 | 1900 |
| GW3 | 5.217 | 26.2 | 7.8 | <1.0 | 5.95 x10-4 | 1.6 | 378 | <0.05 | 0.264 | 0.218 | 0.01 | <10 |
| Haichang factory | 30.012 | 26.2 | 7.8 | <1.0 | 5.95 x10-4 | 1.6 | 378 | <0.05 | 0.264 | 0.218 | 0.01 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Construction Monitoring - Season 9 (2017.11.20-2018.02.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 6.262 | 25.3 | 7.2 | <1.0 | 7.99 x10-4 | 2.4 | 405 | 0.06 | 0.115 | 0.291\* | 0.015 | <10 |
| GW2 | 4.515 | 25.2 | 7.4 | 4.2 | 7.12 x10-4 | 368 | 76 | 1.39 | 0.135 | ND | 1.39 | 5.4x2015 |
| GW3 | 5.115 | 25.4 | 7.6 | 2.3 | 6.00 x10-4 | 327 | 274 | 0.13 | 0.123 | <0.020 | 0.153 | 1.7x2015 |
| Haichang factory | 31.128 | 25.2 | 7.8 | <1.0 | 7.09 x10-4 | 2.9 | 406 | 0.06 | 0.195 | 0.301\* | 0.013 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |

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| Construction Monitoring - Season 10 (2018.02.20-2018.05.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.226 | 26.7 | 7.2 | 2.3 | 1.85 x10-3 | 23.2 | 274 | 0.52 | 0.685 | 0.062 | 1.05 | 5.8x103 |
| GW2 | 1.148 | 26.7 | 7.7 | 6 | 7.88 x10-4 | 30.3 | 236 | 0.06 | 0.108 | 0.078 | 0.786 | 3.0x103 |
| GW3 | 5.183 | 27.8 | 7.7 | <1.0 | 6.02 x10-4 | 2.4 | 365 | <0.05 | 0.181 | 0.313\* | 0.051 | <10 |
| Haichang factory | 31.128 | 28 | 7.7 | <1.0 | 6.08 x10-4 | 1.6 | 384 | <0.05 | 0.096 | 0.298\* | 0.175 | <10 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
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| Construction Monitoring - Season 11 (2018.05.20-2018.08.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 4.793 | 27.1 | 7.4 | 2.5 | 1.04 x10-3 | 1090 | 108 | 3.26 | 0.296 | 0.137 | 1.1 | 5.5x102 |
| GW2 | 2.962 | 29.1 | 7.2 | <1.0 | 6.02 x10-4 | 511 | 212 | 17.5 | 0.056 | <0.02 | 0.623 | 2.0x2015 |
| GW3 | 5.022 | 31.4 | 7.9 | <1.0 | 9.54 x10-4 | 3 | 265 | <0.05 | 1.33 | 0.053 | 0.016 | <10 |
| Haichang factory | 31.128 | 29.6 | 7.6 | <1.0 | 6.43 x10-4 | 29 | 385 | <0.05 | 0.309 | 0.259\* | 0.011 | 6.9x102 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |
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| Construction Monitoring - Season 12 (2018.08.20-2018.11.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 7.256 | 22.7 | 7.7 | <1.0 | 6.41×10-4 | 2.9 | 366 | <0.05 | 0.375 | 0.244 | 0.185 | <10 |
| GW2 | 1.189 | 28.7 | 7.6 | <1.0 | 6.40×10-4 | 172 | 391 | <0.05 | 0.402 | 0.245 | 0.021 | <10 |
| GW3 | 5.893 | 28.1 | 7.7 | <1.0 | 6.41×10-4 | 4.7 | 375 | <0.05 | 0.082 | 0.244 | 0.013 | <10 |
| Haichang factory | 31.128 | 28 | 7.7 | <1.0 | 6.27×10-4 | 5.3 | 364 | <0.05 | 0.082 | 0.242 | 0.019 | 20 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |

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| Construction Monitoring - Season 13 (2018.11.20-108.02.19) | Test items | Water level m | temperature ℃ | pH | BOD mg/L | Specific conductivity | SS | Chloride salt | Nitrate nitrogen | iron | manganese | Total phosphorus | Escherichia coli |
| μmho /cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | CFU/100 mL |
| GW1 | 2.329 | 27.6 | 7.3 | 1.1 | 8.21×10-4 | 109 | 157 | 0.32 | 0.092 | 0.157 | 5.05 | 2.0E+04 |
| GW2 | 1.236 | 28.0 | 7.5 | 1.3 | 7.89×10-4 | 118 | 145 | 0.30 | 0.129 | 0.121 | 5.32 | 6.8E+04 |
| GW3 | 5.164 | 26.9 | 7.6 | <1.0 | 6.09×10-4 | 5.0 | 365 | <0.05 | 0.298 | 0.241 | 0.020 | 30 |
| Haichang factory | 31.128 | 26.5 | 7.7 | <1.0 | 6.15×10-4 | 4.6 | 356 | 0.07 | 0.304 | 0.238 | 0.041 | 25 |
| Groundwater pollution monitoring standard | - | - | - | - | - | 1250 | 625 | 25 | 1.5 | 0.25 | - | - |
| Groundwater pollution control standard | - | - | - | - | - | - | - | 100 | - | - | - | - |

※Inspecting the case data of the 100-year-old season of the groundwater well in the case report shows that the iron and manganese of each station are often greater than the groundwater pollution monitoring standards, and the research should be related to the soil of the environmental background, because the soil of the Penghu Islands is mostly weathered by basalt. As a result, a larger amount of metal ions dissociated into the groundwater system.