



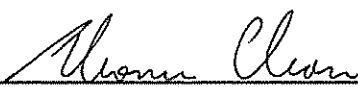
Environmental Team Services for Tuen Mun Area 54 Sewage Pumping Station

Operation Phase Final Odour Impact Monitoring
Report

November 2020

This Operation Phase Final Odour Impact Monitoring Report for Tuen Mun Area 54 Sewage Pumping Station has been reviewed, certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).

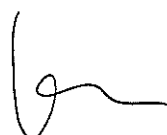
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Environmental Team Services for Tuen Mun Area 54 Sewage Pumping Station

Operation Phase Final Odour Impact Monitoring
Report

November 2020

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Executive summary

In November 2018, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Drainage Services Department (DSD) under Quotation Ref. DEMP/2018/04 to undertake the duties of Environmental Team (ET) as specified in the Environmental Monitoring and Audit (EM&A) Manual and the EP in relation to the odour impact monitoring for the 12-month operation Tuen Mun Area 54 Sewage Pumping Station (TM54SPS). The Further Environmental Permit (Further Environmental Permit (FEP) No. FEP-01/381/2009) was granted by the Environmental Protection Department (EPD) on 20 February 2018.

The Operation Phase Final Odour Impact Monitoring Report summarizes the results of the four impact odour monitoring events for operation phase. Based on the measurement results of the four impact odour monitoring events for operation phase, exceedance of Action and Limit Level were observed at A1 during the third impact odour monitoring event, at A2 during the second impact odour monitoring event and at A5 during the third and fourth impact odour monitoring event. Exceedance of Action Level of 2.3 ppb but complying with the Limit Level of 2.5 ppm was observed at A2 during the third and fourth impact odour monitoring event. Based on the monitoring data review and site observation during monitoring period, it is considered that the exceedances at A1, A2 and A5 are not project related. And thus, the impact monitoring for monitoring station A1, A2 and A5 is recommended to be ceased.

1 Introduction

1.1 Background

In November 2018, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Drainage Services Department (DSD) under Quotation Ref. DEMP/2018/04 to undertake the duties of Environmental Team (ET) as specified in the Environmental Monitoring and Audit (EM&A) Manual and the EP in relation to the odour impact monitoring for the 12-month operation Tuen Mun Area 54 Sewage Pumping Station (TM54SPS).

A layout plan of the Project is provided in **Figure 1.1**.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Purpose of the Report

The Final Odour Impact Monitoring Report (hereinafter as the “this Report”) presents the methodology and results of the operation phase impact odour monitoring events. The measured impact odour levels are benchmarked with the Action and Limit Level for assessing the impact during operation of the Project.

1.4 Structure of the Report

The structure of this Report is as follows:

- Section 1: Introduction, background, purpose and the structure of the report
- Section 2: Impact odour monitoring requirements and methodology
- Section 3: Impact odour monitoring results and the event and action plan for operation phase
- Section 4: Summary of complaints
- Section 5: Conclusions and recommendations

2 Impact Odour Monitoring Requirements and Methodology

2.1 Introduction

H₂S is one of the main components of odour emissions, which can serve as a surrogate indicator for sewage odour. During operation of TM54SPS, measurements of H₂S concentrations at source and at the selected Air Sensitive Receivers (ASRs) are required. This is to indicate whether the odour concentration would be higher or lower than the baseline condition. The odour level at sources and meteorological data shall be obtained as reference information for the analysis of the exceedance event.

With reference to the EM&A Manual, an impact monitoring of H₂S measurements shall be conducted in the first year of operation upon commissioning of TM54SPS (i.e. construction of TM54SPS was substantially completed in March 2018). As discussed between DSD and EPD, a new arrangement for the odour monitoring locations and level of measurement for the impact odour monitoring had been established. As it was necessary to deal with some of the major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc.) for the impact monitoring, the commencement of the monitoring exercise would be deferred from March 2018 to November 2019. Monitoring of 2 of the monitoring stations are hindered by land resumption progress, which will be discussed in **Section 2.3**.

The monitoring location, equipment, methodology and schedule will be discussed in the latter part of this report.

2.2 Monitoring Requirements

With reference to the monitoring requirements in the EM&A manual, subsequent discussion among ET, Independent Environmental Checker (IEC), DSD and EPD has been conducted. A Method Statement of Odour Impact Monitoring had been established by ET and agreed with IEC and EPD before commencement of monitoring in November 2019, which is presented in **Appendix B**.

The Event and Action Plan for Air Quality Monitoring (odour) of operational phase stipulated in the EM&A Manual is extracted and presented in **Appendix C**.

2.3 Monitoring Locations

5 monitoring stations (i.e. A1, A2, A3, A4 and A5) had been proposed in the EM&A manual. Before commencement of the impact odour monitoring, EPD raised that the odour monitoring stations and level of measurement for the impact odour monitoring should be further reviewed based on the latest site development and locations of potential representative sensitive receivers in the vicinity of TMA54SPS.

Having reviewed, the odour measurement for the impact odour monitoring would be taken at a height of 10m above ground level, which is the predicted worst level of the receivers as stated in the EM&A Manual. A truck mounted working platform would be employed for the odour measurement at a height of 10m above ground level. As regards the locations of odour monitoring stations, it was noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) that were located in private lots and are not accessible for the ET to conduct the

impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fell within CEDD's construction sites (i.e. Government land). As advised by Lands Department, the private land resumption (for A3 and A4) were planned to be made in early 2021, while the private land (for A5) would not be resumed. As the monitoring station "A5" fell within the boundary of private open car park, ET was unable to conduct the odour monitoring at 10m high by using a truck-mounted lifting platform at "A5". As such, the alternative location of odour monitoring station for A5 was proposed. It was noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, expect that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" would be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach to determine the alternative location of odour monitoring station for A5, a new A5 has been proposed to situate on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS, and agreement on this regards have been sought between DSD, IEC and EPD.

In view of the land resumption programme, the impact odour monitoring would be spilt into two phases. The 1st phase would include the odour monitoring at the locations A1, A2 and new A5, while A3 and A4 would be included in the 2nd phase. Since the land resumption is still in progress during the preparation of this final report, the status of the 2nd phase monitoring will be updated and provided upon completion of the land resumption.

The locations of odour monitoring stations for the impact odour monitoring at stations A1, A2 and A5 for the 1st phase impact odour monitoring is shown in **Table 2.1** and **Figure 2.1**.

Table 2.1: Monitoring Locations

| Monitoring Station | Monitoring Location | Description of Monitoring Station |
|--------------------|---------------------------------|-----------------------------------|
| A1 | Planned Secondary School | ASR |
| A2 | Planned Primary School | ASR |
| A5 | Road Connecting to TMS54SPS* | ASR |
| SPS | Exhausted Vent Pipe of TMA54SPS | Source |

*Alternative monitoring location agreed by DSD, IEC and EPD as presented in the Method Statement of Odour Impact Monitoring submitted to EPD in November 2019.

2.4 Monitoring Equipment

H₂S concentrations were measured using a Jerome 631-X type H₂S analyser. Grab air sample is drawn by built-in suction pump of the analyser and passed through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample.

Table 2.2 summarizes the equipment used in the impact odour monitoring. Copies of the calibration certificates for the portable H₂S analyser are presented in the technical reports in **Appendix D**.

Table 2.2: Odour Monitoring Equipment

| Equipment | Model | Impact Monitoring Event Used |
|------------------------------------|------------------------------------|--|
| Portable H ₂ S analyser | Jerome X631 0003 (Serial no. 2967) | 1 st Monitoring (26 – 27 November 2019) |
| | Jerome X631 0003 (Serial no. 2966) | 2 nd Monitoring (18 – 19 February 2020) |

| Equipment | Model | Impact Monitoring Event Used |
|-----------|-------|---|
| | | 3 rd Monitoring (27 – 28 May 2020) |
| | | 4 th Monitoring (2 – 3 September 2020) |

2.5 Monitoring Methodology

A 15-min H₂S concentration was measured every 3 hours for duration of 24 hours at each of the monitoring locations. According to Section 2.35 of the EM&A Manual, impact odour monitoring was taken at a height of predicted worst level of the receivers in the EIA (i.e. 10m above ground level).

During each odour monitoring event, meteorological data including temperature, relative humidity and wind speed was obtained from the nearest Hong Kong Observatory’s Tuen Mun Weather Station.

2.6 Monitoring Schedule

Refer to **Section 2.1**, the commencement of the monitoring exercise was scheduled to commence in November 2019.

The first impact odour monitoring event was conducted from 26 to 27 November 2019, the second impact odour monitoring event was conducted from 18 to 19 February 2020 and the third impact odour monitoring event was conducted from 27 to 28 May 2020. The fourth impact odour monitoring event was originally scheduled to be conducted from 18 to 19 August 2020 but was cancelled due to adverse weather. In addition, due to the adverse weather predicted for the remaining calendar days of August 2020 and the shortage of time in applying access to TM54SPS, there were no alternatives available but to postpone the monitoring event. Eventually, the fourth impact odour monitoring was conducted from 2 to 3 September 2020. IEC and EPD were informed for the above arrangement. Email correspondences may be referred to the Operation Phase Fourth Odour Impact Monitoring Report. The monitoring schedule of the impact monitoring events are presented in **Table 2.3**.

Table 2.3: Schedule of Impact Odour Monitoring Events

| Event | Scheduled Date |
|---|-----------------------------------|
| 1 st Impact Odour Monitoring Event | 26 – 27 November 2019 (Completed) |
| 2 nd Impact Odour Monitoring Event | 18 – 19 February 2020 (Completed) |
| 3 rd Impact Odour Monitoring Event | 27 – 28 May 2020 (Completed) |
| 4 th Impact Odour Monitoring Event | 2 – 3 September 2020 (Completed) |

3 Impact Monitoring Results and Analysis

3.1 Monitoring Results

As discussed between DSD and EPD prior to commencement of monitoring, measurement results from the impact odour monitoring would be directly compared with that obtained in the baseline odour monitoring without any adjustments/ air modelling applied.

Detailed results for the odour monitoring event, as well as the meteorological data during the four impact monitoring events have been presented in the technical report given in **Appendix D**.

3.2 Monitoring Results Analysis

As per review of the hydrogen sulphide analyser (i.e. Jerome X631) after submission of the Method Statement, it was found that the analyser was able to measure hydrogen sulphide concentration as low as 1ppb with the specified degree of accuracy. Therefore, the Two-Tiered Conservative Approach was no longer applicable for the impact odour monitoring to cope with the readings below 3ppb. Single-Tiered Conservative Approach was adopted for interpretation for all impact monitoring results.

This conservative approach during the time of baseline odour monitoring to cope with the uncertainty of reading below 3 ppb (0.003 ppm) (i.e. for H₂S concentration reading shown on analyser under 3 ppb were converted to 0) is the only incorporated conservative approach. While for the impact monitoring, the 24-hour average H₂S concentration is devised from H₂S reading shown on the analyser, without conversion. It is considered that taking the H₂S concentration reading on analyser during impact monitoring, to compare with the Action and Limit Levels devised based on conservative approach, can reflect the realistic odour impact and at the same time benchmarked with stringent levels.

The summarized impact monitoring results of the four impact monitoring events are presented in **Table 3.1** and the summarized exceedance of events are presented in **Table 3.2**.

Table 3.1: Summary of Impact Odour Monitoring Results and Comparison with Action/ Limit Levels

| Monitoring Station | Description | 24-hour Average H ₂ S Concentration (ppb) | | | | | |
|--------------------|---------------------------------|--|---------------------------------|--------------------------------|-------------------------------|-----------------|----------------|
| | | First (26 – 27 Nov 2019) | Second (18 – 19 Feb 2020) | Third (27 – 28 May 2020) | Fourth (2 – 3 Sep 2020) | Action Level | Limit Level |
| A1 | Planned Secondary School | 2.4 | 2.4 | 2.7 | 2.4 | 2.5 | 2.5 |
| A2 | Planned Primary School | 2.0 | 2.6 | 2.4 | 2.4 | 2.3 | 2.5 |
| A5 | Road connecting to TMA54SPS | 2.5 | 2.5 | 2.9 | 2.8 | 2.5 | 2.5 |
| SPS | Exhausted Vent Pipe of TMA54SPS | 7.6 | 2.4 | 2.5 | 2.7 | - | - |

Table 3.2: Summary of Exceedances for Impact Odour Monitoring Events

| Monitoring Station | Description | Exceedances of Action/ Limit Level (Yes/ No) | | | | | | | |
|--------------------|-----------------------------|--|-------|---------------------------------|-------|--------------------------------|-------|-------------------------------|-------|
| | | First (26 – 27 Nov 2019) | | Second (18 – 19 Feb 2020) | | Third (27 – 28 May 2020) | | Fourth (2 – 3 Sep 2020) | |
| | | Action | Limit | Action | Limit | Action | Limit | Action | Limit |
| A1 | Planned Secondary School | No | No | No | No | Yes | Yes | No | No |
| A2 | Planned Primary School | No | No | Yes | Yes | Yes | No | Yes | No |
| A5 | Road connecting to TMA54SPS | No | No | No | No | Yes | Yes | Yes | Yes |

3.3 Exceedance Investigation

Regarding the exceedance of Action and Limit Level observed at monitoring stations for every monitoring event, a review of monitoring data has been undertaken together with site observations. Justifications are provided as follows:

3.3.1 Second Monitoring Event (18 – 19 February 2020)

Monitoring Station A2

At A2, it was observed that half of the sampling events throughout the 24-hours monitoring period, the H₂S concentration at A2 is higher than at Source. Also, at Sample 3 and 4, the H₂S concentration at A2 was 31-44% higher than at Source. Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A2 during Sample 3 and 4, and thus the exceedance at A2 is not project related.

In addition, a review of site observation throughout the whole monitoring period had been undertaken. As reported by the monitoring personnel, no significant odour was recorded at

Source. Therefore, through the result of monitoring data review together with the site observation, it was considered that the exceedance at A2 is not project related.

3.3.2 Third Monitoring Event (27 – 28 May 2020)

Monitoring Station A1

At A1, it was observed that 3 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A1 is higher than at Source. Also, at Sample 2, 3 and 5, the H₂S concentration at A1 was 23-45.8% higher than at Source. Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A1 during Sample 2, 3 and 5, and thus the exceedance at A1 is not project related. Refer to the site observation at A1 during the monitoring period, no significant H₂S source was identified.

Monitoring Station A2

At A2, it was observed that 3 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A2 is higher than at Source. Also, at Sample 2 and 3, the H₂S concentration at A2 was 19-20% higher than at Source. Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A2 during Sample 2 and 3, and thus the exceedance at A2 is not project related. Refer to the site observation at A2 during the monitoring period, no significant H₂S source was identified.

Monitoring Station A5

At A5, it was observed that half of the sampling events throughout the 24-hours monitoring period, the H₂S concentration at A5 is higher than at Source. Also, at Sample 1, 2, 3 and 6, the H₂S concentration at A5 was 10-43% higher than at Source. Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A5 during Sample 1, 2, 3 and 6, and thus the exceedance at A5 is not project related. Refer to the site observation at A5 during the monitoring period, no significant H₂S source was identified.

Overall

In addition, a review of site observation throughout the whole monitoring period had been undertaken. As reported by the monitoring personnel, no significant odour was recorded at Source. Therefore, through the result of monitoring data review together with the site observation, it was considered that the exceedances at A1, A2 and A5 are not project related.

3.3.3 Fourth Monitoring Event (2 – 3 September 2020)

Monitoring Station A2

At A2, it was observed that 2 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A2 is higher than at Source. Also, at Sample 2 and 3, the H₂S concentration at A2 was 14-17% higher than at Source. Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A2 during Sample 2 and 3, and thus the exceedance at A2 is not project related. Refer to the site observation at A2 during the monitoring period, no significant H₂S source was identified.

Monitoring Station A5

At A5, it was observed that 2 of the sampling events throughout the 24-hours monitoring period, the H₂S concentration at A5 is higher than at Source. Also, at Sample 2 and 3, the H₂S concentration at A5 was 17-57% higher than at Source; Under the above observations, it was considered that the Source is not the major contributor to H₂S concentration at A5 during Sample

2 and 3, and thus the exceedance at A5 is not project related. Refer to the site observation at A5 during the monitoring period, no significant H₂S source was identified.

Overall

In addition, a review of site observation throughout the whole monitoring period had been undertaken. As reported by the monitoring personnel, no significant odour was recorded at Source. Therefore, through the result of monitoring data review together with the site observation, it is considered that the exceedances at A2 and A5 are not project related.

3.3.4 Conclusion

Since the exceedances at A1, A2 and A5 during the second, third and fourth impact odour impact monitoring were not project related, therefore, no remedial actions had been recommended. And thus, the impact monitoring for monitoring station A1, A2 and A5 is recommended to be ceased.

Still, the Incident Report on Action Level or Limit Level Exceedance was prepared and provided in **Appendix E**.

3.4 Weather Condition during Impact Monitoring

The weather condition during the impact odour monitoring events were mainly fine or cloudy, while wind was mainly mild to moderate.

4 Summary of Complaints

4.1 Summary of Complaints

There were no complaints received by ET in relation to the environmental impact received from TMA54SPS operation commencement to the end of the 4th impact monitoring event.

5 Conclusions and Recommendations

5.1 Conclusion and Recommendations

Impact odour monitoring (1st phase) which involved 3 monitoring stations (i.e. A1, A2 and A5) was carried out on 26 – 27 Nov 2019 (first impact monitoring), 18 – 19 Feb 2020 (second impact monitoring), 27 – 28 May 2020 (third impact monitoring) and 2 – 3 Sep 2020 (fourth impact monitoring).

Odour monitoring was conducted at A1, A2 and A5 and the Source. A 15-minute H₂S concentration was measured every 3 hours for a duration of 24 hours. All monitoring equipment used were properly calibrated and have valid calibration certificates.

As per review of the hydrogen sulphide analyser (i.e. Jerome X631) after submission of the Method Statement, it was found that the analyser was able to measure hydrogen sulphide concentration as low as 1ppb with the specified degree of accuracy. Therefore, the Two-Tiered Conservative Approach was no longer applicable for the impact odour monitoring to cope with the readings below 3ppb. Single-Tiered Conservative Approach was adopted for interpretation for all impact monitoring results. Based on the measurement results of the four impact odour monitoring events for operation phase, exceedance of Action and Limit Level were observed at A1 during the third impact odour monitoring event, at A2 during the second impact odour monitoring event and at A5 during the third and fourth impact odour monitoring event. Exceedance of Action Level of 2.3 ppb but complying with the Limit Level of 2.5 ppm was observed at A2 during the third and fourth impact odour monitoring event. Based on the monitoring data review and site observation during monitoring period, it was considered that the exceedance at A1, A2 and A5 are not project related. And thus, the impact monitoring for monitoring station A1, A2 and A5 is recommended to be ceased.

The weather during the impact monitoring events was generally fine or cloudy, while wind was mild to moderate.

No complaints were received by ET in relation to the environmental impact received from TMA54SPS operation commencement to end of the 4th impact monitoring event.

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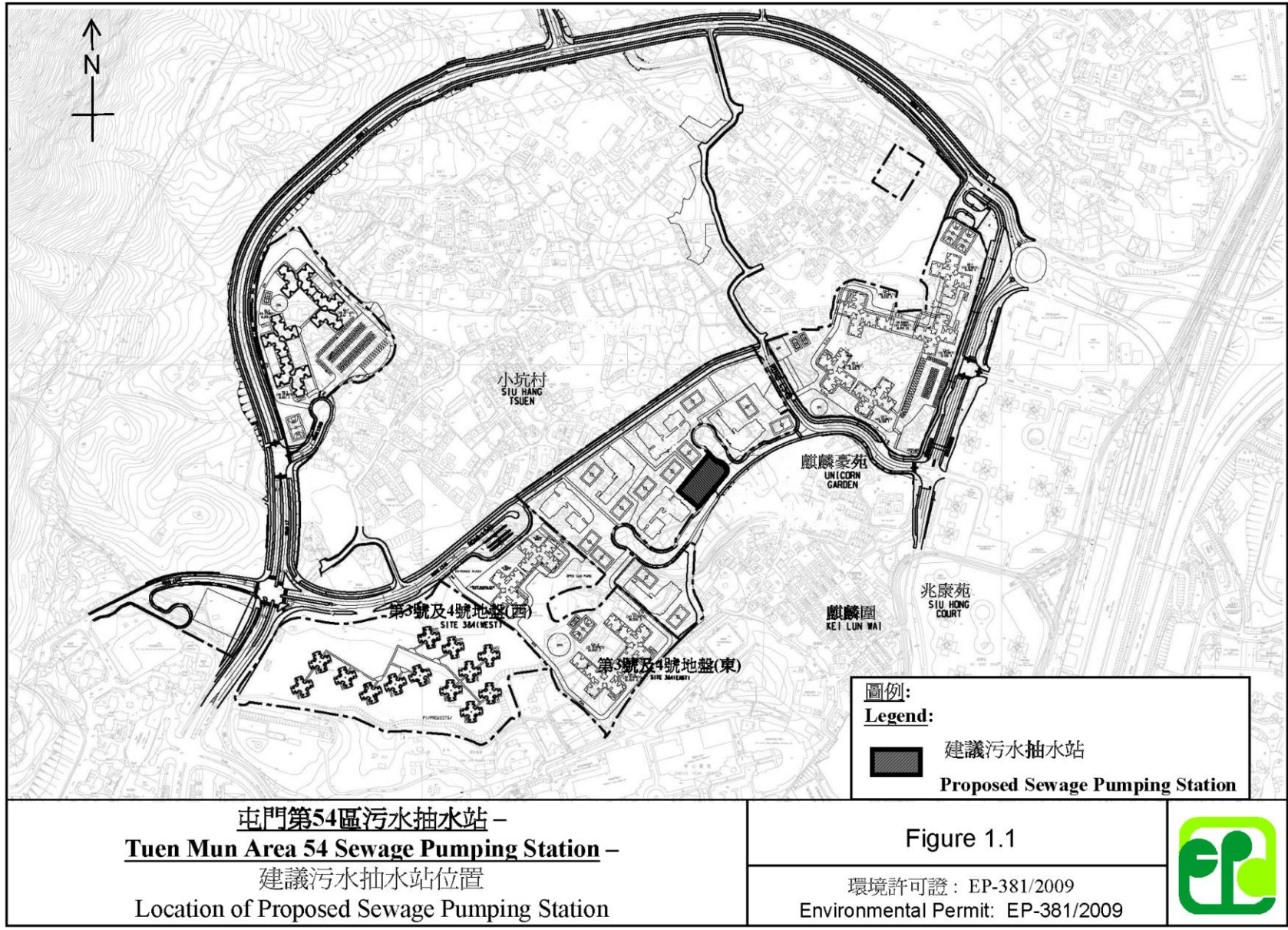
Figures

Figures

Figure 1.1: Layout Plan

Figure 2.1: Locations of Impact Odour Monitoring Stations

Figure 1.1: Layout Plan



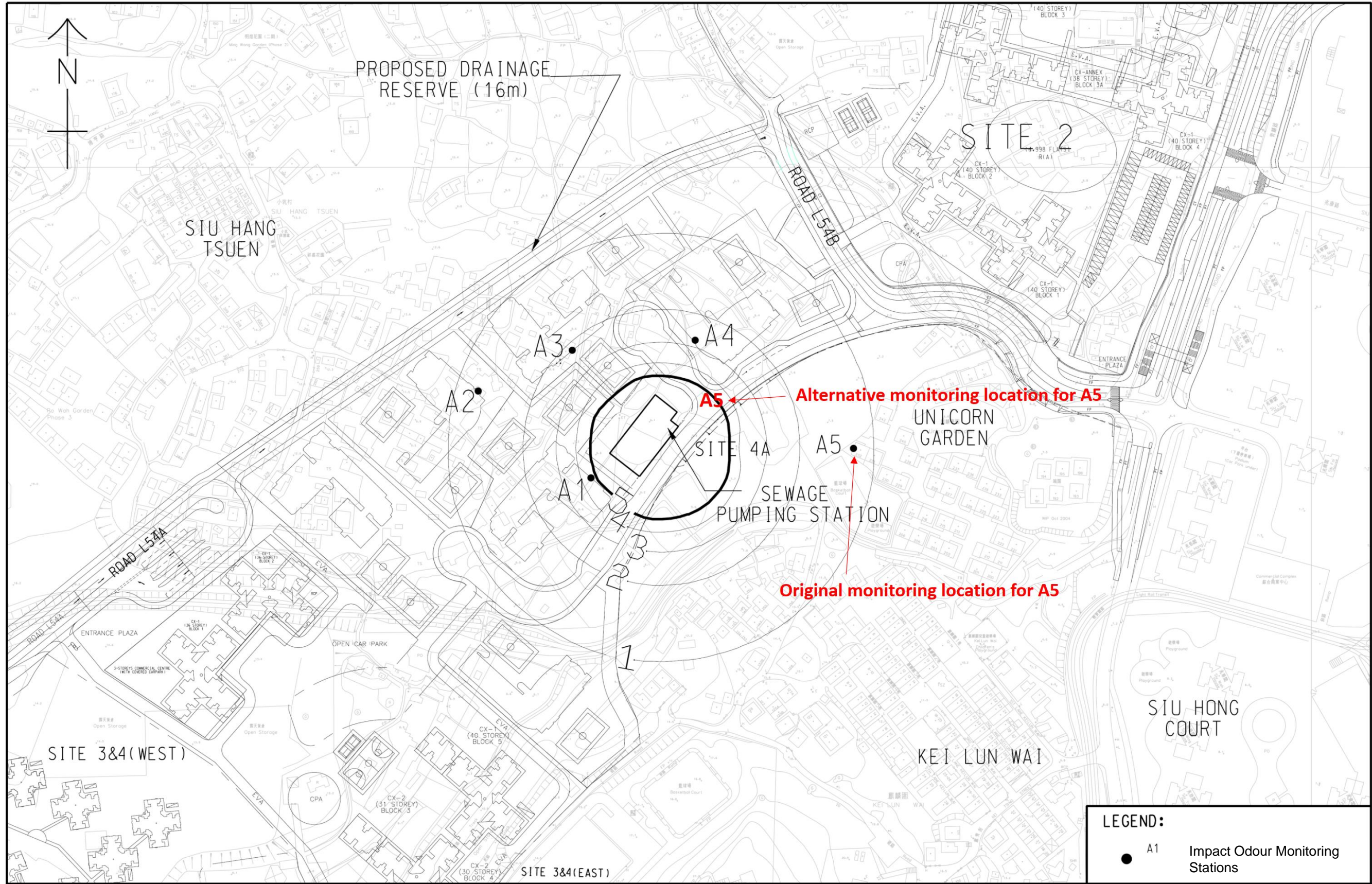


Figure 2.1 Locations of Impact Odour Monitoring Stations

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A. Project Organisation

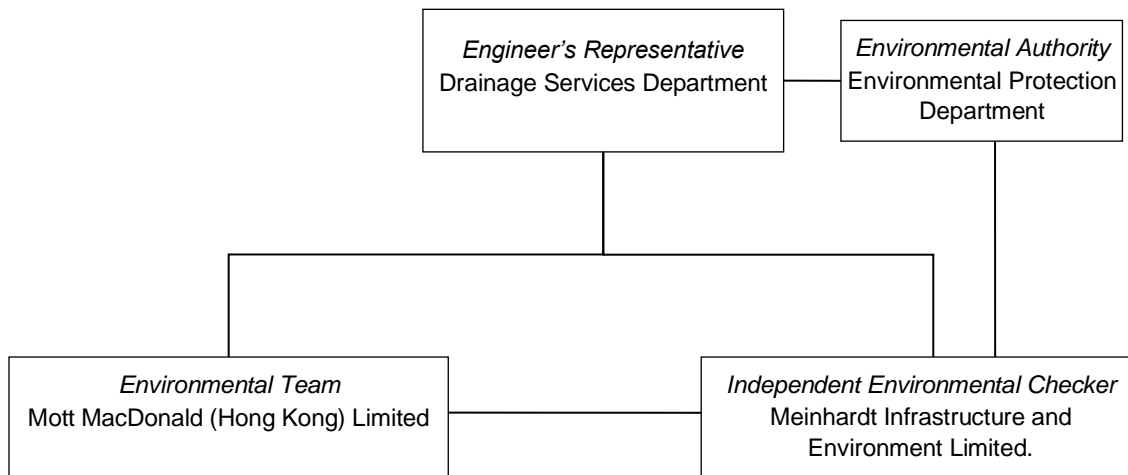


Table A.1: Contact Information

| Company / Department | Position | Name | Telephone / Mobile |
|--|-----------------------------------|------------------------|--------------------|
| Drainage Services Department | Engineer's Representative | Mr. Lui Chun-lung, Sam | 2594 7306 |
| Meinhardt Infrastructure and Environment Limited | Independent Environmental Checker | Mr. Chiu Wai Kwan | 2859 5881 |
| Mott MacDonald (Hong Kong) Ltd. | Environmental Team Leader | Ir Thomas Chan | 2828 5967 |

B. Method Statement of Odour Impact Monitoring



Provision of Environmental Team (ET) Services for Tuen Mun Area 54 Sewage Pumping Station

Method Statement of Odour Impact Monitoring

September 2019

This Method Statement of Odour Impact Monitoring for Tuen Mun Area 54 Sewage Pumping Station has been reviewed, certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).

Certified by:



Ir Thomas Chan
Environmental Team Leader (ETL)
Mott MacDonald Hong Kong Limited

Date: 30 October 2019

Verified by:



Wai Kwan CHIU
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Provision of Environmental Team (ET) Services for Tuen Mun Area 54 Sewage Pumping Station

Method Statement of Odour Impact Monitoring

September 2019

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Appendix

Appendix A – Technical specification of Jerome X631 0003 H2S Analyzer

Appendix B – Sample of air quality (H2S) monitoring data record sheet

Appendix C – Plan showing the odour monitoring locations for the baseline odour monitoring

Appendix D – Advice on the programme of private land resumption from LandsD

Appendix E – Plan showing the proposed locations of odour monitoring stations for the impact odour monitoring

Appendix F – Monitoring location for exhaust vent pipe from the deodourizing unit

1 Introduction

1.1 Background

In November 2018, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Drainage Services Department (DSD) under Quotation Ref. DEMP/2018/04 to undertake the duties of Environmental Team (ET) as specified in the Environmental Monitoring and Audit (EM&A) Manual and the EP in relation to the odour impact monitoring for the 12-month operation Tuen Mun Area 54 Sewage Pumping Station (TMA54SPS).

1.2 Purpose of the Method Statement

With reference to Section 2.53 of the EM&A Manual (AEIAR-122/2008), Hydrogen Sulphide (H₂S) monitoring programme shall be conducted in the first year upon commissioning of TMA54SPS. This method statement presents the methodology and monitoring requirements for the odour impact monitoring according to the EM&A Manual (AEIAR-122/2008).

1.3 Structure of the Method Statement

The structure of the method statement is as follows:

- Section 1 - Background, purpose and the structure of the proposal;
- Section 2 - Monitoring requirements of odour impact monitoring; and
- Section 3 - Conclusion.

1.4 Abbreviation

The following abbreviations are used in this method statement:

| | |
|------------------|---|
| ASRs | Air Sensitive Receivers |
| DSD | Drainage Services Department |
| LandsD | Lands Department |
| ET | Environmental Team |
| IEC | Independent Environmental Checker |
| EM&A | Environmental Monitoring and Audit |
| H ₂ S | Hydrogen Sulphide |
| MMHK | Mott MacDonald Hong Kong Limited |
| TMA54SPS | Tuen Mun Area 54 Sewage Pumping Station |

2 Monitoring Requirements

2.1 Background

H₂S is one of the main components of odour emissions, which can serve as a surrogate indicator for sewage odours. During commissioning of TMA54SPS, measurements of H₂S concentrations at source and at the selected ASRs are required. This is to indicate whether the odour concentration would be higher or lower than the baseline condition. The odour level at sources and meteorological data shall be obtained as reference information for the analysis of the exceedance event.

The site measurements of the baseline odour monitoring have been conducted in December 2016, March 2017, August 2017 and February 2018. Taking into account the locations of potential representative sensitive receivers in the vicinity of TMA54SPS during its first year of commissioning, the ET proposed and the IEC agreed to adopt alternative odour monitoring stations (A1 to A4) for the baseline odour monitoring, while the monitoring station of A5 remained unchanged. The measurements were taken from a height of 2m above ground level. The Baseline Odour Monitoring Report has been prepared to present the methodology and the measurement results of the baseline odour monitoring. It also established the Action Levels for the operational phase odour impact monitoring in accordance with Table 2.4 of the Final EM&A Manual of the approved EIA of "Tuen Mun Area 54 Sewage Pumping Station" (TMA54SPS) (hereafter known as EM&A Manual). The Report, with IEC's verification, was submitted to EPD for agreement on 9 April 2018. EPD expressed no objection to the Baseline Odour Monitoring Report on 16 May 2018.

With reference to the EM&A Manual, an impact monitoring of H₂S measurements shall be conducted in the first year of operation upon commissioning of TMA54SPS (i.e. construction of TMA54SPS was substantially completed in March 2018). The monitoring measurement shall be conducted by the ET at the same monitoring stations and levels as in the baseline period (as presented in Table 3-1 of the Baseline Odour Monitoring Report). Further to discussions between DSD and EPD in the past few months, a new arrangement for odour monitoring locations and level of measurement for the impact odour monitoring has been established. As it was necessary to deal with some of the major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc) for the impact odour monitoring, the commencement of the monitoring exercise would be deferred from March 2018 to October 2019. The scheduling of the monitoring programme as well as the new locations of monitoring stations and level of measurement would be discussed in the latter part of this method statement.

2.2 Monitoring Equipment

2.2.1 Monitoring Equipment

Portable H₂S analyser, type Jerome 631-X H₂S, or equivalent will be used for H₂S sampling. The analyser fulfils the following requirements:

- able to measure H₂S concentration in the range of 1ppb to 50ppm, with resolution of 1ppb;
- operates within a temperature range of 0 to 40°C, at an air flow rate of 0.15 L/min; and
- with built-in suction pump to draw air sample and passed through a gold film sensor.

The H₂S concentration is measured by the analyser through drawing a grab air sample by built-in suction pump of a portable H₂S analyser and passed across a gold film sensor.

2.2.2 Conservative Approach on Reading Interpretation

According to the analyser technical specifications as attached in **Appendix A**, it is noticed that the equipment sensitivity is 0.003ppm H₂S, while the detection range is 3 ppb (0.003ppm) – 50 ppm in four graduated ranges. To cope with the uncertainty of reading below 3ppb, a conservative approach on reading interpretation will be adopted.

During the odour impact monitoring, for readings below 3ppb, it will be recorded as in **Table 2.1**.

Table 2.1: Conservative Approach on Reading Interpretation for Readings Below 3ppb

| Reading Shown on Analyser | Reading to be Recorded |
|---------------------------|------------------------|
| 0 ppb | 0.5 ppb |
| 1 ppb | 1.5 ppb |
| 2 ppb | 2.5 ppb |

2.3 Monitoring Parameters, Frequency and Duration

A 15-min H₂S concentration will be measured every 3 hours for duration of 24 hours at the agreed monitoring locations and level of measurement, including at the exhausted vent pipe from deodorizing unit. Monitoring will not be conducted on rainy days.

Besides, hourly meteorological data including temperature, wind speed and direction during the sampling period will be obtained from the nearest Hong Kong Observatory's Tuen Mun Weather Station.

Appendix B shows a sample of Air Quality (H₂S) Monitoring Data Record Sheet.

2.4 Impact Odour Monitoring

In accordance with Section 2.34 of the EM&A Manual, H₂S measurements will be taken at source and outside the premises of the identified ASRs for the impact odour monitoring. As discussed between DSD and EPD, new arrangements for odour monitoring locations and level of measurement for the impact odour monitoring have been established.

Monitoring locations for ASRs and the source are presented in the following paragraphs.

2.4.1 Monitoring Locations for ASRs

For the baseline odour monitoring, it was conducted at the original monitoring location for A5 as given in the EM&A Manual, and the alternative monitoring locations for A1 to A4 which were agreed with the IEC and CEDD and approved by EPD. The measurements were taken from a height of 2m above ground level at the agreed monitoring locations. A plan showing the odour monitoring locations for the baseline odour monitoring is given in **Appendix C**.

However, EPD raised that the odour monitoring stations and level of measurement for the impact odour monitoring should be further reviewed based on the latest site development and locations of potential representative sensitive receivers in the vicinity of TMA54SPS. Having reviewed, the odour measurement for the impact odour monitoring would be taken at a height of 10m above ground level, which is the predicted worst level of the receivers as stated in the EM&A Manual. A truck mounted working platform would be employed for the odour measurement at a height of 10m above ground level. As regards the locations of odour monitoring stations, it is noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) are currently

located in private lots which are not accessible for the ET to conduct the impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fall within CEDD's construction sites (i.e. Government land). As advised by LandsD (attached in **Appendix D**), the private land resumption (for A3 and A4) are planned to be made in July 2020, while the private land (for A5) will not be resumed. As the monitoring station "A5" which falls within the boundary of private open car park, DSD approached the car park company staff in person in March 2019 to see whether they could give permission for the ET to conduct the odour monitoring at 10m high by using a truck-mounted lifting platform in their car park. However, they turned down our request with a verbal response that any activities other than car parking were not allowed in the car park. As such, the alternative location of odour monitoring station for A5 should be proposed. It is noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, except that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" should be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach in determine the alternative location of odour monitoring station for A5, we propose that a new A5 is situated on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS. In view of the land resumption programme, the impact odour monitoring will be spilt into two phases. The 1st phase will include the odour monitoring at the locations A1, A2 and new A5, while A3 and A4 will be included in the 2nd phase after the completion of private land resumption in July 2020. A plan showing the proposed locations of odour monitoring stations for the impact odour monitoring is attached in **Appendix E**.

2.4.2 Monitoring at Source

H₂S measurements will be taken at the exhaust vent pipe from the deodourizing unit to obtain H₂S concentrations at source. The selected location is shown in **Appendix F**.

2.5 Monitoring Programme

As stipulated in Section 2.53 of the EM&A Manual, the H₂S monitoring will be conducted every three months for the first year of operation for TM54SPS. However, due to some major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc), the commencement of the impact odour monitoring was deferred from March 2018 to October 2019. In addition, as discussed between DSD and EPD, measurement results from the impact odour monitoring will be directly compared with that obtained in the baseline odour monitoring without any adjustments/ air modelling applied. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TM54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months). Action and Limit Levels for Air Quality in operation phase are given in **Table 2.2**.

Regarding the above requirements, a tentative monitoring programme is shown in **Table 2.3**.

Table 2.2: Action and Limit Levels for Air Quality (Operation Phase)

| Parameter | ASR | Action Level (ppb) | Limit Level (ppb) |
|-------------------------------|-----|--|---|
| H ₂ S | A1 | 2.5 | 2.5 |
| | A2 | 2.3 | 2.5 |
| | A3 | 2.5 | 2.5 |
| | A4 | 2.5 | 2.5 |
| | A5 | 2.5 | 2.5 |
| Incidents of odour complaints | - | Any incidence of odour complaint received through the Odour Complaint Register | Two or more complaints through the Odour Complaint Register within three months |

Note: (1) Odour complaints are to be handled in accordance with the complaint registration system as mentioned in Section 2.26-2.29 of the EM&A Manual

Table 2.3: Tentative Monitoring Programme

For 1st phase impact odour monitoring at A1, A2 and new A5:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | November 2019 | February 2020 | May 2020 | August 2020 |

For 2nd phase impact odour monitoring at A3 and A4:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | August 2020 | November 2020 | February 2021 | May 2021 |

3 Conclusion

Overall, the impact odour monitoring will be implemented in accordance with the recommendations of the approved EIA report (AEIAR-122/2008). The impact odour monitoring will be split into 2 phases. The first monitoring events under the 1st phase and 2nd phase are tentatively scheduled for November 2019 and August 2020, respectively. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TMA54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months).

Appendices

Appendix A Technical Specification of Jerome X631 0003 H₂S Analyzer

Jerome X631 0003 Gold Film Hydrogen Sulphide Analyzer
 Technical Specifications

| | |
|-----------------------------------|--|
| Resolution: | 0.001 ppm |
| Detection Range: | 3 ppb (0.003 ppm) – 50 ppm in four graduated ranges |
| Sensitivity: | 0.003ppm H ₂ S |
| Precision: | 5% relative standard deviation |
| Accuracy: | Range 0: ± 0.003ppm at 0.050ppm H ₂ S Range 1: ± 0.03ppm at 0.50ppm H ₂ S Range 2: ± 0.3ppm at 5.0ppm H ₂ S Range 3: ± 2ppm at 25ppm H ₂ S |
| Operating Environment: | 0 – 40°C Non-Condensing, Non-Explosive |
| Response Time-Sample Mode: | 10 to 50 ppm (Range 3): 13 seconds 1.0 to 10.0 ppm (Range 2): 16 seconds 0.10 to 1.00 ppm (Range 1): 25 seconds 0.001 to 0.100 ppm (Range 0): 30 seconds |
| Response Time-Survey Mode: | 10 to 50 ppm (Range 3): 3 seconds 1.0 to 9.9 ppm (Range 2): 6 seconds 0.10 to 0.99 ppm (Range 1): 15 seconds 0.001 to 0.099 ppm (Range 0): 20 seconds |
| Flow Rate: | 150 ± 10 ml/min (0.15 ± litres/min) |
| Power Requirements: | 100-120 V~, 50/60 Hz, 1 A or 220-240 V~, 50/60 Hz, 1 A |
| Fuse: | F1A 250V, 5mm X 20mm |
| Internal Battery Pack: | Rechargeable nickel cadmium |
| Case Construction: | Aluminium alloy |
| Dimensions: | 33 cm L x 15 cm W x 10 cm H (13" L x 6" W x 4" H) |
| Weight: | 3.18 kilos (7 pounds) |
| Digital Meter Display: | Liquid crystal display (LCD) |
| Data Output: | 1. RS-232 Serial, Baud Rate 1200 for use with data logger, and/or Jerome® communication program. 2. RS-232 Serial data format with 0 & 20mA current logic levels; Baud Rate 1200 (special industrial applications) and Analog 20 mA output. |

Appendix B Sample of Air Quality (H₂S) Monitoring Data Record Sheet

APPENDIX B Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | | |
|---------------------|--------|------------|----------------|-------------|-------------|
| Monitoring Location | | | | | |
| Date | | | | | |
| Weather | | | | | |
| Monitoring Results | | | | | |
| Sample No. | Time | Wind Speed | Wind Direction | Temperature | Level (ppb) |
| Sample 1 | Start: | | | | |
| | Stop: | | | | |
| Sample 2 | Start: | | | | |
| | Stop: | | | | |
| Sample 3 | Start: | | | | |
| | Stop: | | | | |
| Sample 4 | Start: | | | | |
| | Stop: | | | | |
| Sample 5 | Start: | | | | |
| | Stop: | | | | |
| Sample 6 | Start: | | | | |
| | Stop: | | | | |
| Sample 7 | Start: | | | | |
| | Stop: | | | | |
| Sample 8 | Start: | | | | |
| | Stop: | | | | |
| Other Observations | | | | | |

Name & Designation

Signature

Date

Recorded by:

Checked by:

Appendix C Plan Showing the Odour Monitoring Locations for the Baseline Odour Monitoring


APPENDIX C: PLAN SHOWING THE ODOUR MONITORING LOCATIONS FOR THE BASELINE ODOUR MONITORING



Appendix D Advice on the Programme of Private Land Resumption from Lands Department

Urgent Return receipt Sign Encrypt Mark Subject Restricted Expand personal&public groups



Re: Equiry on Land Use Status (Nearby Tuen Mun Area 54 Sewage Pumping Station) 

12/07/2019 10:17

From: TW CHOI/LAO/LANDSD/HKSARG@LANDSD
To: Chun Lung LUI/E&MP/DSD/HKSARG@DSD
Serial No.:

Dear Sam,

Please be advised that for Land Nos.1, 2 and 4 as shown at our LSP, the tentative land reversion date is 4/2020 and land clearance date (site handover to CEDD) is 7/2020.

Thank you.

Best Regards,
Jessica T.W. CHOI
LE/SD, DLO/TM
Tel: 2451 3310

Chun Lung LUI Dear Jessica, We spoke. Grateful for your a... 2019/07/12 上午 10:03:49

From: Chun Lung LUI/E&MP/DSD/HKSARG@DSD
To: TW CHOI/LAO/LANDSD/HKSARG@LANDSD,
Date: 2019/07/12 上午 10:03
Subject: Re: Equiry on Land Use Status (Nearby Tuen Mun Area 54 Sewage Pumping Station)

Dear Jessica,

We spoke. Grateful for your advice on the tentative land resumption schedule for Land No. 1, No. 2 and No. 4 as indicated in the attached LSP. Many thanks.

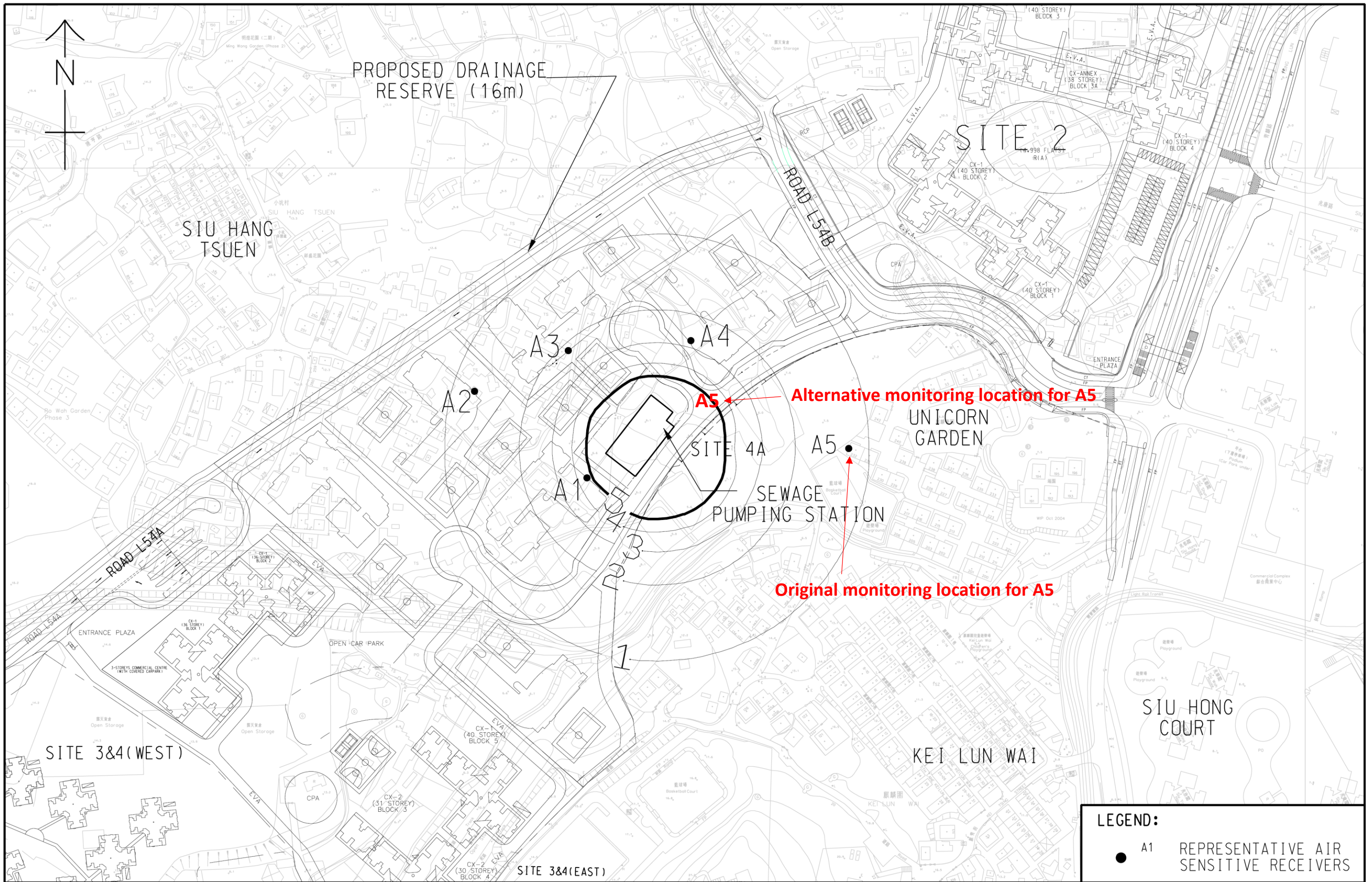
Best Regards,

LUI Chun-lung, Sam
EME/P1/2, E&MP, DSD
Office: 2594 7306
Mobile: 6070 0441



TW CHOI Dear Sam, Preceding email refers. 04/06/2019 15:38:51
Chun Lung LUI Dear Ms. CHOI, We spoke. Grateful for you c... 2019/06/04 上午 11:03:45

Appendix E Plan Showing the Proposed Locations of Odour Monitoring Stations for the Impact Odour Monitoring



LEGEND:

| | |
|------|--|
| ● A1 | REPRESENTATIVE AIR SENSITIVE RECEIVERS |
|------|--|

MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

AGREEMENT No. CE 21/2005 (CE)
FORMATION, ROADS AND DRAINS IN AREA 54, TUEN MUN - PHASES 1 AND 2 -
ENVIRONMENTAL, TRAFFIC AND DRAINAGE IMPACT ASSESSMENT REVIEW - INVESTIGATION
ADDITIONAL SERVICE No.2 - ENVIRONMENTAL IMPACT ASSESSMENT FOR TUEN MUN AREA 54 SEWAGE PUMPING STATION

CONTOURS OF ODOUR CONCENTRATION (OU/5-sec avg) AT 10m ABOVE GROUND - MITIGATED SCENARIO

| | | | |
|---------|----------|-------------|----------|
| SCALE | 1:2000 | DATE | FEB 2008 |
| CHECK | | DRAWN | SWKY |
| JOB No. | 60021938 | DRAWING No. | 3.3 |
| | | REV | - |



Unicorn Garden

A1

A5

Tuen Mun Area 54 SPS

A2

A4

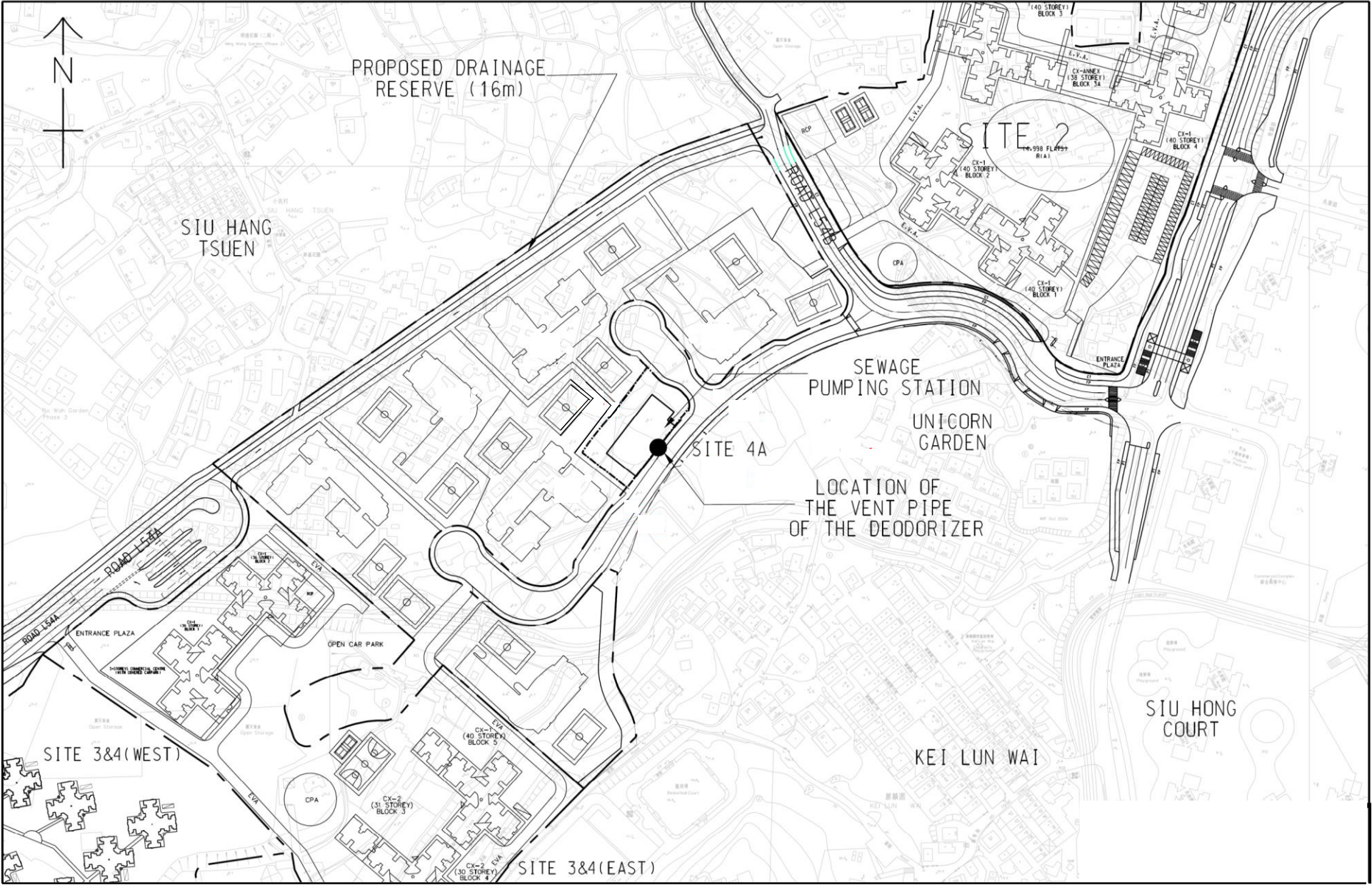
A3

Road L54B

Road L54A

Appendix F Monitoring Location for Exhaust Vent Pipe from the Deodourizing Unit

APPENDIX F: MONITORING LOCATION FOR EXHAUST VENT PIPE FROM THE DEODOURIZING UNIT





C. Event and Action Plan for Air Quality (Odour)

Table C.1: Event/Action Plan for Air Quality Monitoring (Operational Phase)

| EVENT | ACTION | | |
|----------------------------|---|--|---|
| | ET | IEC | ER (DSD) |
| Exceedance of Action level | <ol style="list-style-type: none"> 1. Identify source/ reason of exceedance; 2. Inform IEC and ER(DSD); 3. Carry out investigation to identify the source/reason of exceedance or complaints. Investigation shall be completed within 1 week and advise the findings to IEC and DSD; 4. Repeat measurement to confirm finding after rectification work. | <ol style="list-style-type: none"> 1. Check with ET and ER(DSD) on the operating activities and implementation of odour mitigation measures; 2. Discuss with ER(DSD) on the possible remedial actions; 3. Advise the ER(DSD) on the effectiveness of the proposed remedial measures; 4. Supervise implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Rectify any unacceptable practice; 3. Amend working methods as required; 4. Implement amended working methods. |
| Exceedance of Limit level | <ol style="list-style-type: none"> 1. Notify IEC, ER(DSD) and EPD; 2. Identify source of odour; 3. Increase monitoring frequency; 4. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 1 week and advise the findings to IEC and ER(DSD); 5. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 6. Assess effectiveness of the remedial actions and keep IEC, EPD and ER(DSD) informed of the results. | <ol style="list-style-type: none"> 1. Check with ET and ER(DSD) on the operating activities and implementation of odour mitigation measures; 2. Review the proposed remedial actions whenever necessary to assure their effectiveness and advise the ER(DSD) accordingly; 3. Supervise implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Rectify any unacceptable practice and amend working methods as required; 3. Formulate remedial actions and inform ET and IEC; 4. Ensure amended working methods and remedial actions properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and stop that portion of work until the exceedance is abated. |

D. Technical Reports for the Impact Odour Monitoring Events

1st Impact Odour Monitoring



First Operation Phase Odour Impact Monitoring Report

Impact Odour Monitoring - H₂S Measurement for Tuen Mun Area 54 Sewage
Pumping Station | Hong Kong

0118/19/ED/0255 01 | 5 December 2019

For review

Mott Macdonald Hong Kong Limited

Executive Summary

Fugro Technical Services Limited (FTS) has been appointed by Mott MacDonald Hong Kong Limited, the Project Environmental Team (ET) of Tuen Mun Area 54 Sewage Pumping Station (TMA54SPS) to undertake the operation phase impact odour monitoring for the project.

This is the first monitoring event for the first Phase Odour Impact Monitoring Report for TMA54SPS prepared by Fugro Technical Services Limited for submission to Mott MacDonald Hong Kong Limited.

This report presents the results obtained from the first operation phase impact odour monitoring carried out from 26 November 2019 to 27 November 2019 during the operation of TMA54SPS.

It is observed that there is no exceedance (Action/ Limit Level) of the 24-hour average H₂S concentration for the concerned monitoring stations A1, A2 and A5.

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Appendices

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Appendix B Photographs of Monitoring Stations

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Abbreviations

| | |
|------------------|---|
| ASRs | Air Sensitive Receivers |
| DSD | Drainage Services Department |
| LandsD | Lands Department |
| ET | Environmental Team |
| EM&A | Environmental Monitoring and Audit |
| H ₂ S | Hydrogen Sulphide |
| MMHK | Mott MacDonald Hong Kong Limited |
| FTS | Fugro Technical Services Limited |
| TMA54SPS | Tuen Mun Area 54 Sewage Pumping Station |
| OU | Odour Unit |

1. Introduction

1.1 Background

To cope with a shortfall in flat supply and a rise in housing demand, Tuen Mun Area 54 was identified by the Government as one of the areas having the potential for housing development. Thus, the New Territories West Development Office of Territory Development Department completed the “Planning and Development Study of Potential Housing Site in Area 54, Tuen Mun” in 1999. The Study put forward proposals on housing types, development parameters and planning layouts and assessed the development impacts on transport network, infrastructural capacities and environmental quality.

According to the Review of Tuen Mun and Tsing Yi Sewerage Master Plans, a new sewage pumping station is needed to convey sewage collected from Tuen Mun Area 54 to existing trunk sewers at Ming Kum Road. Other than Tuen Mun Area 54, TMA54SPS will also collect sewage from four recognized villages within Area 54 including Tsz Tin Tsuen, Po Tong Ha, Kei Lun Wai and Siu Hang Tsuen, and the proposed Tuen Mun North Sewage Pumping Station in Area 52. TMA54SPS has a capacity of about 90,000m³ per day; the design average dry weather flow is approximately 0.32m³/s.

TMA54SPS is located in the central part of Site 4A of Tuen Mun Area 54, north of Kei Lun Wai, south of Tsz Tin Tsuen and west of Site 2 of Tuen Mun Area 54. Site 4A is zoned “Government, Institution or Community” on the Tuen Mun Outline Zoning Plan No. S/TM/22 and is reserved for school development. **Appendix A** shows the location of TMA54SPS. Construction work for TMA54SPS is substantially completed and commissioning is anticipated in February 2018.

TMA54SPS is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of Environmental Impact Assessment (EIA) has been carried out to evaluate the environmental impacts associated with the project. An EIA Report and an Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department (EPD) on 12 November 2008. An Environmental Permit (EP) No. EP-381/2009 was issued on 4 January 2010 for TMA54SPS to the Civil Engineering and Development Department as the Permit Holder. The EP stipulates that an EM&A programme is required to ensure mitigation measures recommended in the EIA Report and the EM&A Manual are implemented during the construction and operation of TMA54SPS.

1.2 Project Description

FTS was commissioned to carry out operation phase odour impact monitoring for Mott MacDonald Hong Kong Limited for the project of TMA54SPS.

The EIA study of TMA54SPS has identified odour emissions from the sewage pumping station as the main potential air quality impact. To reduce odour emissions from the operation of TMA54SPS, it is recommended in the EIA Report that wet wells and screen chambers, the main

sources of odour, should be enclosed in a building structure. A deodorizing unit should also be installed; in order to treat vented air before it would be discharged into the atmosphere.

Furthermore, odour monitoring is required as per the EM&A Manual prior to and during the initial operation of TMA54SPS. The purpose of the odour impact monitoring is to indicate whether the odour concentration would be higher or lower than the baseline condition.

1.3 Monitoring Arrangement

According to the EM&A Manual, gaseous hydrogen sulphide (H_2S) is one of the main components of odour emissions. Ambient H_2S concentration can serve as a surrogate indicator for sewage odours as it can be readily monitored at the Air Sensitive Receivers (ASRs).

The odour impact monitoring shall be conducted in the first year upon commissioning of TMA54SPS. Odour Impact Monitoring would be conducted every three months for the first year of operation for TMA54SPS. However, due to some major technical issues (e.g. review of H_2S measurement method, monitoring locations and level of measurement, etc), the commencement of the impact odour monitoring was deferred from March 2018 to October 2019. In addition, as discussed between DSD and EPD, measurement results from the impact odour monitoring will be directly compared with that obtained in the baseline odour monitoring without any adjustments / air modelling applied. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TMA54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months). Action and Limit Levels for Air Quality in operation phase are given in **Table 1.1**.

As regards the locations of odour monitoring stations, it is noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) are currently located in private lots which are not accessible for the ET to conduct the impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fall within CEDD's construction sites (i.e. Government land). As the monitoring station "A5" which falls within the boundary of private open car park, alternative location of odour monitoring station for A5 was proposed. It is noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, except that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" should be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach in determine the alternative location of odour monitoring station for A5, the new A5 is situated on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS. In view of the land resumption programme, the impact odour monitoring will be split into two phases. The 1st phase will include the odour monitoring at the locations A1, A2 and new A5.

Regarding the above requirements, a tentative monitoring programme is shown in **Table 1.2**.

Table 1.1 Action and Limit Levels for Air Quality (Operation Phase)

| Parameter | ASR | Action Level (ppb) | Limit Level (ppb) |
|-------------------------------|-----|--|---|
| H ₂ S | A1 | 2.5 | 2.5 |
| | A2 | 2.3 | 2.5 |
| | A5 | 2.5 | 2.5 |
| Incidents of odour complaints | - | Any incidence of odour complaint received through the Odour Complaint Register | Two or more complaints through the Odour Complaint Register within three months |

Note: Odour complaints are to be handled in accordance with the complaint registration system as mentioned in Section 2.26-2.29 of the EM&A Manual

Table 1.2 Tentative Monitoring Programme

For 1st phase impact odour monitoring at A1, A2 and new A5:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | November 2019 | February 2020 | May 2020 | August 2020 |

2. Odour Impact Monitoring

2.1 Methodology

The H₂S analyzer, type Jerome 631-X, was used for the impact monitoring. Grab air sample was drawn by built-in suction pump of the analyzer and passed through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample.

The details of the equipment used for odour impact monitoring is presented in **Table 2.1**

Table 2.1 Equipment for Baseline Odour Monitoring

| Equipment | Manufacturer / Model | Serial Number | Sensor Number | Calibration Date | Next Calibration Date |
|--------------------------------------|----------------------|---------------|---------------|------------------|-----------------------|
| Gold Film Hydrogen Sulphide Analyzer | JEROME X631 0003 | 2967 | 16-4-13-V2DS | 17 January 2019 | 16 January 2020 |

2.2 Sampling Duration

A 15-min integrated gaseous H₂S sample was collected every 3 hours for a period of 24 hours at monitoring locations, in which five readings were recorded at every monitoring station during each 3-hour session. Maximum and minimum H₂S levels for each monitoring station were recorded.

2.3 Monitoring Locations

H₂S measurements was taken at the sources and outside the premises of the identified ASRs as shown in **Table 2.2** and **Appendix A** show the descriptions and locations of the H₂S monitoring stations.

Table 2.2 Monitoring Locations

| Monitoring Station | Monitoring Location | Description |
|--------------------|--------------------------------|-------------|
| A1 ¹ | Planned Secondary School | ASR |
| A2 ¹ | Planned Primary School | ASR |
| A5 ¹ | Road connecting to TMA54SPS | ASR |
| SPS ¹ | Exhausted vent pipe of TMA54SP | Source |

Note: ¹ 1st phase odour impact monitoring.

According to the EM&A Manual, the monitoring was taken at a height of predicted worst level of the receivers in the EIA (10 m ground level). Photos showing the monitoring setup are included in **Appendix B**.

2.4 Quality Assurance / Quality Control

In order to ensure the analyzer is functioning properly, manual sensor regeneration and zero adjustment were performed before each set of odour monitoring.

Calibration of the analyzer is conducted every year at the laboratory of the manufacturer. The calibration certificates for the analyzers are shown in **Appendix F**.

3. Monitoring Results

3.1 Weather Conditions and Other Factors

The first monitoring event for the first phase operation phase odour impact monitoring for TMA54SPS was conducted from 26 November 2019 (approx. 11:00 am) to 27 November 2019 (approx. 10:00 am).

The weather was mainly fine and wind was mainly mild to moderate during the monitoring event. An anemometer was used for measuring wind speed and wind direction presented in the site record in **Appendix D**. Meteorological conditions of 26 November 2019 and 27 November 2019 obtained from the nearest Hong Kong Observatory's Tuen Mun Weather Station are shown in **Appendix G**. Meteorological data was obtained as reference information for the analysis of the exceedance event.

No significant odour sources from the project site were observed during the impact monitoring period.

3.2 Monitoring Results

The monitoring results are summarised in **Table 3.1**. Details of monitoring data are shown in **Appendix C** (24-hour average, maximum and minimum H₂S concentration), **Appendix D** (site record) and **Appendix E** (data logger record).

Table 3.1 Summary of Monitoring Results

| Monitoring Station | Monitoring Location | 24-hour Average H ₂ S Concentration (ppb) |
|--------------------|--------------------------------|--|
| A1 ¹ | Planned Secondary School | 2.4 |
| A2 ¹ | Planned Primary School | 2.0 |
| A5 ¹ | Road connecting to TMA54SPS | 2.5 |
| SPS | Exhausted vent pipe of TMA54SP | 7.6 |

Note: ¹ Air Sensitive Receiver.

4. Odour Complaint

There were no complaints received in relation to the environmental impact during the reporting period.

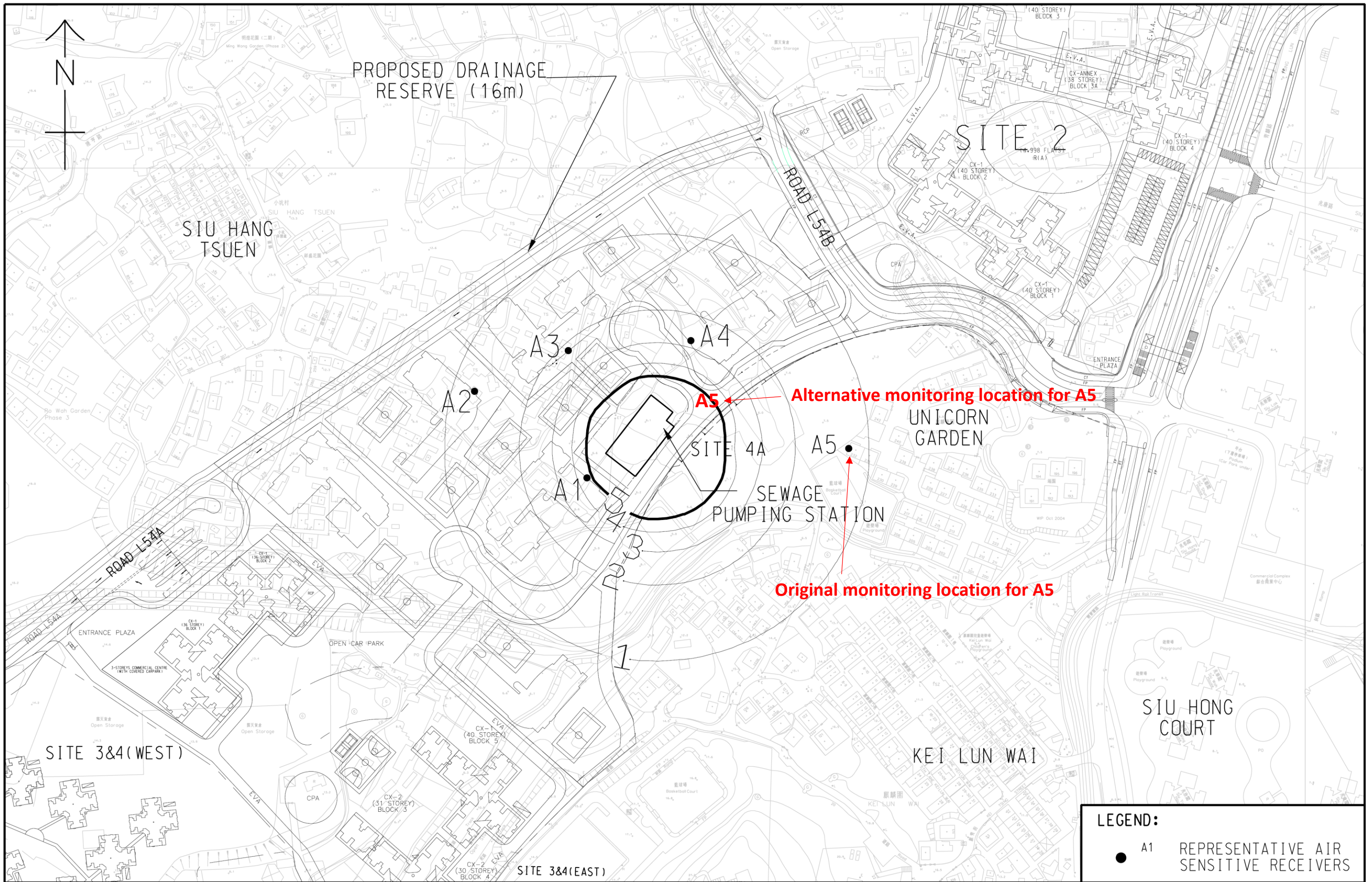
5. Conclusion and Recommendations

The first monitoring event for the first phase odour impact monitoring was carried out from 26 November 2019 to 27 November 2019.

Odour impact monitoring of hydrogen sulphide (H₂S) was conducted at four monitoring stations including three Air Sensitive Receivers around TMA54SPS and at source. It is observed that there is no exceedance (Action/ Limit Level) of the 24-hour average H₂S concentration for the concerned monitoring stations A1, A2 and A5.

Appendix A

Monitoring Station



LEGEND:

| | | |
|---|----|--|
| ● | A1 | REPRESENTATIVE AIR SENSITIVE RECEIVERS |
|---|----|--|

MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

AGREEMENT No. CE 21/2005 (CE)
FORMATION, ROADS AND DRAINS IN AREA 54, TUEN MUN - PHASES 1 AND 2 -
ENVIRONMENTAL, TRAFFIC AND DRAINAGE IMPACT ASSESSMENT REVIEW - INVESTIGATION
ADDITIONAL SERVICE No.2 - ENVIRONMENTAL IMPACT ASSESSMENT FOR TUEN MUN AREA 54 SEWAGE PUMPING STATION

CONTOURS OF ODOUR CONCENTRATION (OU/5-sec avg) AT 10m ABOVE GROUND - MITIGATED SCENARIO

| | | | |
|---------|----------|-------------|----------|
| SCALE | 1:2000 | DATE | FEB 2008 |
| CHECK | | DRAWN | SWKY |
| JOB No. | 60021938 | DRAWING No. | 3.3 |
| | | REV | - |



Appendix B

Photographs of Monitoring Stations



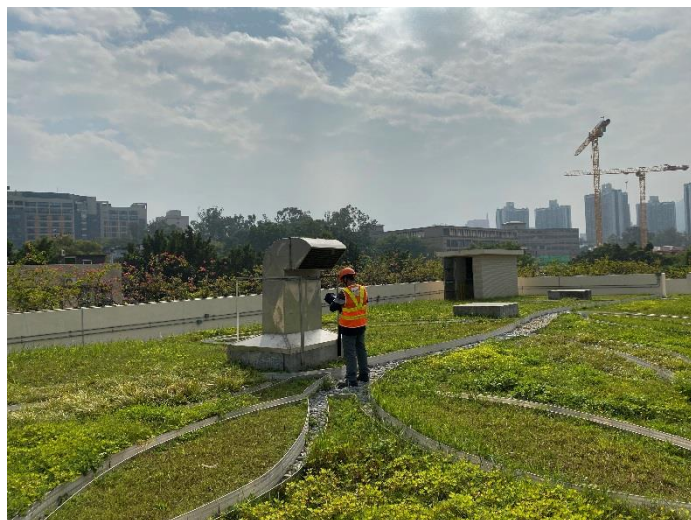
A1



A5



A2



Source

Appendix C

Monitoring Results

| Monitoring Station | Time Interval | 24-hour Average H ₂ S Concentration (ppb) | | | | | | | |
|--------------------|---------------|--|-----------------|---------|---------|--------------|------------|-------------|------------|
| | | 15-minute integrated average | 24-hour average | Maximum | Minimum | Action Level | Exceedance | Limit Level | Exceedance |
| A1 | 1100-1400 | 2.2 | 2.4 | 4.5 | 1.8 | 2.5 | N | 2.5 | N |
| | 1400-1700 | 2.0 | | | | | | | |
| | 1700-2000 | 2.2 | | | | | | | |
| | 2000-2300 | 4.5 | | | | | | | |
| | 2300-0200 | 2.0 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 2.2 | | | | | | | |
| | 0800-1100 | 1.8 | | | | | | | |
| A2 | 1100-1400 | 2.2 | 2.0 | 2.2 | 1.6 | 2.3 | N | 2.5 | N |
| | 1400-1700 | 2.2 | | | | | | | |
| | 1700-2000 | 2.0 | | | | | | | |
| | 2000-2300 | 2.0 | | | | | | | |
| | 2300-0200 | 2.0 | | | | | | | |
| | 0200-0500 | 1.6 | | | | | | | |
| | 0500-0800 | 2.0 | | | | | | | |
| | 0800-1100 | 2.0 | | | | | | | |
| A5 | 1100-1400 | 2.6 | 2.5 | 2.6 | 2.2 | 2.5 | N | 2.5 | N |
| | 1400-1700 | 2.6 | | | | | | | |
| | 1700-2000 | 2.6 | | | | | | | |
| | 2000-2300 | 2.4 | | | | | | | |
| | 2300-0200 | 2.4 | | | | | | | |
| | 0200-0500 | 2.2 | | | | | | | |
| | 0500-0800 | 2.4 | | | | | | | |
| | 0800-1100 | 2.4 | | | | | | | |
| SPS | 1100-1400 | 6.8 | 7.6 | 8.8 | 5.6 | N/A | N/A | N/A | N/A |
| | 1400-1700 | 7.2 | | | | | | | |
| | 1700-2000 | 5.6 | | | | | | | |
| | 2000-2300 | 7.8 | | | | | | | |
| | 2300-0200 | 7.8 | | | | | | | |
| | 0200-0500 | 8.0 | | | | | | | |
| | 0500-0800 | 8.8 | | | | | | | |
| | 0800-1100 | 8.4 | | | | | | | |

Appendix D

Site Record

Air Quality (H₂S) Monitoring Data Record Sheet



| General Information | | | | |
|--|--------------------------|------------|----------------|-------------------------------------|
| Monitoring Station | A1 | | | |
| Date | 26/11/19 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1134 | 0.2m/s | N | 0.002, 0.002, 0.002, 0.003 0.002 |
| | Stop: 1149 | | | |
| Sample 2 | Start: 1429 | 0.4m/s | N | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 1444 | | | |
| Sample 3 | Start: 1741 | 0.1m/s | NE | 0.002, 0.002, 0.003 0.002, 0.002 |
| | Stop: 1756 | | | |
| Sample 4 | Start: ¹ 0935 | 0.1m/s | NE | 0.003, 0.007, 0.013 0.003, 0.005 |
| | Stop: ¹ 0950 | | | |
| Sample 5 | Start: ² 1130 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: ² 1145 | | | |
| Sample 6 | Start: 0240 | / | / | 0.002, 0.002, 0.002 0.003, 0.003 |
| | Stop: 0255 | | | |
| Sample 7 | Start: 0536 | / | / | 0.003, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0551 | | | |
| Sample 8 | Start: 0830 | / | / | 0.001, 0.002, 0.003 0.001, 0.002 |
| | Stop: 0845 | | | |
| Other Observations Remarks: ¹ Sampling time of "Sample 4" shall read as Start: 21:35 Stop: 21:50 ² Sampling time of "Sample 5" shall read as Start: 23:30 Stop: 23:45 | | | | |


| | | | |
|---------------------|---|----------------------|-------------------------|
| Recorded by: | <u>Name & Designation</u> Chen Ho Cheung | <u>Signature</u> | <u>Date</u> 26/11/19 |
| Checked by: | Vincent Lu | | 29/11/2019 |



Air Quality (H₂S) Monitoring Data Record Sheet



| General Information | | | | |
|--|-------------------------------------|------------|----------------|--------------------------------------|
| Monitoring Station | A2 | | | |
| Date | 26/11 | | | |
| Weather | fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1100 | 0.6m/s | N | 0.002, 0.003, 0.002, 0.002, 0.002 |
| | Stop: 1115 | | | |
| Sample 2 | Start: 1400 | 0.3m/s | N | 0.002, 0.002, 0.002 0.003, 0.002 |
| | Stop: 1415 | | | |
| Sample 3 | Start: 1705 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 1720 | | | |
| Sample 4 | Start: ¹ 0900 | / | / | 0.002, 0.002, 0.003 0.002, 0.001 |
| | Stop: ¹ 0915 | | | |
| Sample 5 | Start: ² 1100 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: ² 1115 | | | |
| Sample 6 | Start: 0200 | / | / | 0.002, 0.002, 0.002 0.001, 0.001 |
| | Stop: 0215 | | | |
| Sample 7 | Start: 0500 | / | / | 0.002, 0.001, 0.002 0.003, 0.002 |
| | Stop: 0515 | | | |
| Sample 8 | Start: 0800 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0815 | | | |
| Other Observations Remarks: ¹ Sampling time of "Sample 4" shall read as Start: 21:00 Stop: 21:15 ² Sampling time of "Sample 5" shall read as Start: 23:00 Stop: 23:15 | | | | |

| | | | |
|--------------|-------------------------------|--|-------------|
| | Name & Designation | Signature | Date |
| Recorded by: | Sy Chan Ho Cheung |  | 26/11/19 |
| Checked by: | Vincent Lu |  | 29/11/2019 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---|--------------------------|------------|----------------|-----------------------------------|
| Monitoring Station | AS | | | |
| Date | 26/11 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1158 | 0.0m/s | — | 0.004, 0.002, 0.002, 0.003, 0.002 |
| | Stop: 1213 | | | |
| Sample 2 | Start: 1458 | 0.0m/s | — | 0.004, 0.003, 0.002, 0.002, 0.002 |
| | Stop: 1513 | | | |
| Sample 3 | Start: 1810 | 0.0m/s | — | 0.003, 0.002, 0.002, 0.003, 0.003 |
| | Stop: 1825 | | | |
| Sample 4 | Start: ¹ 0958 | — | — | 0.003, 0.003, 0.002, 0.002, 0.002 |
| | Stop: ¹ 1013 | | | |
| Sample 5 | Start: ² 1155 | — | — | 0.003, 0.003, 0.002, 0.002, 0.002 |
| | Stop: ² 0010 | | | |
| Sample 6 | Start: 0307 | 0.3m/s | NE | 0.002, 0.003, 0.002, 0.002, 0.002 |
| | Stop: 0322 | | | |
| Sample 7 | Start: 0559 | — | — | 0.002, 0.002, 0.003, 0.002, 0.003 |
| | Stop: 0614 | | | |
| Sample 8 | Start: 0855 | — | — | 0.003, 0.002, 0.002, 0.003, 0.002 |
| | Stop: 0910 | | | |
| Other Observations | | | | |
| Remarks: ¹ Sampling time of "Sample 4" shall read as Start: 21:58 Stop: 22:13 ² Sampling time of "Sample 5" shall refer to the logging time at Data Logger Record from 23:53 to 00:05 | | | | |

| | | | |
|--------------|-------------------------------|--|-------------|
| | Name & Designation | Signature | Date |
| Recorded by: | Chen Ho Chey |  | 26/11/19 |
| Checked by: | Vincent Lu |  | 29/11/2019 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---|--------------------------|------------|----------------|---------------------|
| Monitoring Station | SPS | | | |
| Date | 26/11 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1217 | 0.0m/s | / | 0.008, 0.011, 0.003 |
| | Stop: 1232 | | | 0.010, 0.002 |
| Sample 2 | Start: 1525 | 0.0m/s | / | 0.003, 0.003, 0.012 |
| | Stop: 1540 | | | 0.009, 0.009 |
| Sample 3 | Start: 1837 | 0.0m/s | / | 0.003, 0.011, 0.009 |
| | Stop: 1852 | | | 0.003, 0.002 |
| Sample 4 | Start: ¹ 1020 | 0.0m/s | / | 0.008, 0.008, 0.008 |
| | Stop: ¹ 1035 | | | 0.007, 0.008 |
| Sample 5 | Start: 0017 | / | / | 0.008, 0.007, 0.007 |
| | Stop: 0032 | | | 0.009, 0.008 |
| Sample 6 | Start: 0340 | / | / | 0.008, 0.010, 0.008 |
| | Stop: 0355 | | | 0.007, 0.007 |
| Sample 7 | Start: 0625 | / | / | 0.009, 0.011, 0.008 |
| | Stop: 0640 | | | 0.008, 0.008 |
| Sample 8 | Start: 0917 | / | / | 0.009, 0.008, 0.008 |
| | Stop: 0932 | | | 0.007, 0.010 |
| Other Observations | | | | |
| Remarks: ¹ Sampling time of "Sample 4" shall read as Start: 22:20 Stop: 22:35 | | | | |

| | | | |
|---------------------|---|----------------------|-------------------------|
| Recorded by: | <u>Name & Designation</u> Em don Ho Cheong | <u>Signature</u> | <u>Date</u> 26/11/19 |
| Checked by: | Vincent Lu | | 29/11/2019 |

Appendix E

Data Logger Record

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS
Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|----|-------------|------------|--------------|----------------|
| 1 | 十一月-26-2019 | 11:00:08am | 0.002 | |
| 2 | 十一月-26-2019 | 11:03:08am | 0.003 | |
| 3 | 十一月-26-2019 | 11:06:08am | 0.002 | |
| 4 | 十一月-26-2019 | 11:09:08am | 0.002 | |
| 5 | 十一月-26-2019 | 11:12:08am | 0.002 | |
| 6 | 十一月-26-2019 | 11:34:10am | /III | End Of Session |
| 7 | 十一月-26-2019 | 11:34:10am | 0.002 | |
| 8 | 十一月-26-2019 | 11:37:10am | 0.002 | |
| 9 | 十一月-26-2019 | 11:40:10am | 0.002 | |
| 10 | 十一月-26-2019 | 11:43:10am | 0.003 | |
| 11 | 十一月-26-2019 | 11:47:10am | 0.002 | |
| 12 | 十一月-26-2019 | 11:58:16am | /III | End Of Session |
| 13 | 十一月-26-2019 | 11:58:16am | 0.004 | |
| 14 | 十一月-26-2019 | 12:01:16pm | 0.002 | |
| 15 | 十一月-26-2019 | 12:04:16pm | 0.002 | |
| 16 | 十一月-26-2019 | 12:07:16pm | 0.003 | |
| 17 | 十一月-26-2019 | 12:10:16pm | 0.002 | |
| 18 | 十一月-26-2019 | 12:17:51pm | /III | End Of Session |
| 19 | 十一月-26-2019 | 12:17:51pm | 0.008 | |
| 20 | 十一月-26-2019 | 12:20:51pm | 0.011 | |
| 21 | 十一月-26-2019 | 12:23:51pm | 0.003 | |
| 22 | 十一月-26-2019 | 12:26:51pm | 0.010 | |
| 23 | 十一月-26-2019 | 12:29:51pm | 0.002 | |
| 24 | 十一月-26-2019 | 02:00:02pm | /III | End Of Session |
| 25 | 十一月-26-2019 | 02:00:02pm | 0.002 | |
| 24 | 十一月-26-2019 | 02:03:02pm | 0.002 | |
| 25 | 十一月-26-2019 | 02:06:02pm | 0.002 | |
| 28 | 十一月-26-2019 | 02:09:02pm | 0.003 | |
| 29 | 十一月-26-2019 | 02:12:02pm | 0.002 | |
| 30 | 十一月-26-2019 | 02:29:30pm | /III | End Of Session |
| 31 | 十一月-26-2019 | 02:29:30pm | 0.002 | |
| 32 | 十一月-26-2019 | 02:32:30pm | 0.002 | |
| 33 | 十一月-26-2019 | 02:35:30pm | 0.002 | |
| 34 | 十一月-26-2019 | 02:38:30pm | 0.002 | |
| 35 | 十一月-26-2019 | 02:41:30pm | 0.002 | |
| 36 | 十一月-26-2019 | 02:58:44pm | /III | End Of Session |
| 37 | 十一月-26-2019 | 02:58:44pm | 0.004 | |
| 38 | 十一月-26-2019 | 03:01:44pm | 0.003 | |
| 39 | 十一月-26-2019 | 03:04:44pm | 0.002 | |
| 40 | 十一月-26-2019 | 03:07:44pm | 0.002 | |
| 41 | 十一月-26-2019 | 03:10:44pm | 0.002 | |
| 42 | 十一月-26-2019 | 03:25:23pm | /III | End Of Session |
| 43 | 十一月-26-2019 | 03:25:23pm | 0.003 | |
| 44 | 十一月-26-2019 | 03:28:23pm | 0.003 | |
| 45 | 十一月-26-2019 | 03:31:23pm | 0.012 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS
Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

Page 2 of 5

| | DATE/TIME | | RESULT (ppm) |
|----|-------------|------------|---------------------|
| 46 | 十一月-26-2019 | 03:34:23pm | 0.009 |
| 47 | 十一月-26-2019 | 03:37:23pm | 0.009 |
| 48 | 十一月-26-2019 | 05:05:02pm | /III End Of Session |
| 49 | 十一月-26-2019 | 05:05:02pm | 0.002 |
| 50 | 十一月-26-2019 | 05:08:02pm | 0.002 |
| 51 | 十一月-26-2019 | 05:11:02pm | 0.002 |
| 52 | 十一月-26-2019 | 05:14:02pm | 0.002 |
| 53 | 十一月-26-2019 | 05:17:02pm | 0.002 |
| 54 | 十一月-26-2019 | 05:41:34pm | /III End Of Session |
| 55 | 十一月-26-2019 | 05:41:34pm | 0.002 |
| 56 | 十一月-26-2019 | 05:44:34pm | 0.002 |
| 57 | 十一月-26-2019 | 05:47:34pm | 0.003 |
| 58 | 十一月-26-2019 | 05:50:34pm | 0.002 |
| 59 | 十一月-26-2019 | 05:53:34pm | 0.002 |
| 60 | 十一月-26-2019 | 06:10:59pm | /III End Of Session |
| 61 | 十一月-26-2019 | 06:10:59pm | 0.003 |
| 62 | 十一月-26-2019 | 06:13:59pm | 0.002 |
| 63 | 十一月-26-2019 | 06:16:59pm | 0.002 |
| 64 | 十一月-26-2019 | 06:19:59pm | 0.003 |
| 65 | 十一月-26-2019 | 06:22:59pm | 0.003 |
| 66 | 十一月-26-2019 | 06:37:22pm | /III End Of Session |
| 67 | 十一月-26-2019 | 06:37:22pm | 0.003 |
| 68 | 十一月-26-2019 | 06:40:22pm | 0.011 |
| 69 | 十一月-26-2019 | 06:43:22pm | 0.009 |
| 70 | 十一月-26-2019 | 06:46:22pm | 0.003 |
| 71 | 十一月-26-2019 | 06:49:22pm | 0.002 |
| 72 | 十一月-26-2019 | 09:00:03pm | /III End Of Session |
| 73 | 十一月-26-2019 | 09:00:03pm | 0.002 |
| 74 | 十一月-26-2019 | 09:03:03pm | 0.002 |
| 75 | 十一月-26-2019 | 09:06:03pm | 0.003 |
| 76 | 十一月-26-2019 | 09:09:03pm | 0.002 |
| 77 | 十一月-26-2019 | 09:12:03pm | 0.001 |
| 78 | 十一月-26-2019 | 09:35:17pm | /III End Of Session |
| 79 | 十一月-26-2019 | 09:35:17pm | 0.003 |
| 80 | 十一月-26-2019 | 09:38:17pm | 0.007 |
| 81 | 十一月-26-2019 | 09:41:17pm | 0.013 |
| 82 | 十一月-26-2019 | 09:44:17pm | 0.003 |
| 83 | 十一月-26-2019 | 09:47:17pm | 0.005 |
| 84 | 十一月-26-2019 | 09:58:38pm | /III End Of Session |
| 85 | 十一月-26-2019 | 09:58:38pm | 0.003 |
| 86 | 十一月-26-2019 | 10:01:38pm | 0.003 |
| 87 | 十一月-26-2019 | 10:04:38pm | 0.002 |
| 88 | 十一月-26-2019 | 10:07:38pm | 0.002 |
| 89 | 十一月-26-2019 | 10:10:38pm | 0.002 |
| 90 | 十一月-26-2019 | 10:20:41pm | /III End Of Session |
| 91 | 十一月-26-2019 | 10:20:41pm | 0.008 |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS
Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|-------------|------------|--------------|----------------|
| 92 | 十一月-26-2019 | 10:23:41pm | 0.008 | |
| 93 | 十一月-26-2019 | 10:26:41pm | 0.008 | |
| 94 | 十一月-26-2019 | 10:29:41pm | 0.007 | |
| 95 | 十一月-26-2019 | 10:32:41pm | 0.008 | |
| 96 | 十一月-26-2019 | 11:00:09pm | /III | End Of Session |
| 97 | 十一月-26-2019 | 11:00:09pm | 0.002 | |
| 98 | 十一月-26-2019 | 11:03:09pm | 0.002 | |
| 99 | 十一月-26-2019 | 11:06:09pm | 0.002 | |
| 100 | 十一月-26-2019 | 11:09:09pm | 0.002 | |
| 101 | 十一月-26-2019 | 11:12:09pm | 0.002 | |
| 102 | 十一月-26-2019 | 11:30:51pm | /III | End Of Session |
| 103 | 十一月-26-2019 | 11:30:51pm | 0.002 | |
| 104 | 十一月-26-2019 | 11:33:51pm | 0.002 | |
| 105 | 十一月-26-2019 | 11:36:51pm | 0.002 | |
| 106 | 十一月-26-2019 | 11:39:51pm | 0.002 | |
| 107 | 十一月-26-2019 | 11:42:51pm | 0.002 | |
| 108 | 十一月-26-2019 | 11:53:22pm | /III | End Of Session |
| 109 | 十一月-26-2019 | 11:53:22pm | 0.003 | |
| 110 | 十一月-26-2019 | 11:56:22pm | 0.003 | |
| 111 | 十一月-26-2019 | 11:59:22pm | 0.002 | |
| 112 | 十一月-27-2019 | 00:02:22am | 0.002 | |
| 113 | 十一月-27-2019 | 00:05:22am | 0.002 | |
| 114 | 十一月-27-2019 | 00:17:51am | /III | End Of Session |
| 115 | 十一月-27-2019 | 00:17:51am | 0.008 | |
| 116 | 十一月-27-2019 | 00:20:51am | 0.007 | |
| 117 | 十一月-27-2019 | 00:23:51am | 0.007 | |
| 118 | 十一月-27-2019 | 00:26:51am | 0.009 | |
| 119 | 十一月-27-2019 | 00:29:51am | 0.008 | |
| 120 | 十一月-27-2019 | 02:00:36am | /III | End Of Session |
| 121 | 十一月-27-2019 | 02:00:36am | 0.002 | |
| 122 | 十一月-27-2019 | 02:03:36am | 0.002 | |
| 123 | 十一月-27-2019 | 02:06:36am | 0.002 | |
| 124 | 十一月-27-2019 | 02:09:36am | 0.001 | |
| 125 | 十一月-27-2019 | 02:12:36am | 0.001 | |
| 126 | 十一月-27-2019 | 02:40:53am | /III | End Of Session |
| 127 | 十一月-27-2019 | 02:40:53am | 0.002 | |
| 128 | 十一月-27-2019 | 02:43:53am | 0.002 | |
| 129 | 十一月-27-2019 | 02:46:53am | 0.002 | |
| 130 | 十一月-27-2019 | 02:49:53am | 0.003 | |
| 131 | 十一月-27-2019 | 02:52:53am | 0.003 | |
| 132 | 十一月-27-2019 | 03:07:11am | /III | End Of Session |
| 133 | 十一月-27-2019 | 03:07:11am | 0.002 | |
| 134 | 十一月-27-2019 | 03:10:11am | 0.003 | |
| 135 | 十一月-27-2019 | 03:13:11am | 0.002 | |
| 136 | 十一月-27-2019 | 03:17:11am | 0.002 | |
| 137 | 十一月-27-2019 | 03:20:11am | 0.002 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS
Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|-------------|------------|--------------|----------------|
| 92 | 十一月-26-2019 | 10:23:41pm | 0.008 | |
| 93 | 十一月-26-2019 | 10:26:41pm | 0.008 | |
| 94 | 十一月-26-2019 | 10:29:41pm | 0.007 | |
| 95 | 十一月-26-2019 | 10:32:41pm | 0.008 | |
| 96 | 十一月-26-2019 | 11:00:09pm | /III | End Of Session |
| 97 | 十一月-26-2019 | 11:00:09pm | 0.002 | |
| 98 | 十一月-26-2019 | 11:03:09pm | 0.002 | |
| 99 | 十一月-26-2019 | 11:06:09pm | 0.002 | |
| 100 | 十一月-26-2019 | 11:09:09pm | 0.002 | |
| 101 | 十一月-26-2019 | 11:12:09pm | 0.002 | |
| 102 | 十一月-26-2019 | 11:30:51pm | /III | End Of Session |
| 103 | 十一月-26-2019 | 11:30:51pm | 0.002 | |
| 104 | 十一月-26-2019 | 11:33:51pm | 0.002 | |
| 105 | 十一月-26-2019 | 11:36:51pm | 0.002 | |
| 106 | 十一月-26-2019 | 11:39:51pm | 0.002 | |
| 107 | 十一月-26-2019 | 11:42:51pm | 0.002 | |
| 108 | 十一月-26-2019 | 11:53:22pm | /III | End Of Session |
| 109 | 十一月-26-2019 | 11:53:22pm | 0.003 | |
| 110 | 十一月-26-2019 | 11:56:22pm | 0.003 | |
| 111 | 十一月-26-2019 | 11:59:22pm | 0.002 | |
| 112 | 十一月-27-2019 | 00:02:22am | 0.002 | |
| 113 | 十一月-27-2019 | 00:05:22am | 0.002 | |
| 114 | 十一月-27-2019 | 00:17:51am | /III | End Of Session |
| 115 | 十一月-27-2019 | 00:17:51am | 0.008 | |
| 116 | 十一月-27-2019 | 00:20:51am | 0.007 | |
| 117 | 十一月-27-2019 | 00:23:51am | 0.007 | |
| 118 | 十一月-27-2019 | 00:26:51am | 0.009 | |
| 119 | 十一月-27-2019 | 00:29:51am | 0.008 | |
| 120 | 十一月-27-2019 | 02:00:36am | /III | End Of Session |
| 121 | 十一月-27-2019 | 02:00:36am | 0.002 | |
| 122 | 十一月-27-2019 | 02:03:36am | 0.002 | |
| 123 | 十一月-27-2019 | 02:06:36am | 0.002 | |
| 124 | 十一月-27-2019 | 02:09:36am | 0.001 | |
| 125 | 十一月-27-2019 | 02:12:36am | 0.001 | |
| 126 | 十一月-27-2019 | 02:40:53am | /III | End Of Session |
| 127 | 十一月-27-2019 | 02:40:53am | 0.002 | |
| 128 | 十一月-27-2019 | 02:43:53am | 0.002 | |
| 129 | 十一月-27-2019 | 02:46:53am | 0.002 | |
| 130 | 十一月-27-2019 | 02:49:53am | 0.003 | |
| 131 | 十一月-27-2019 | 02:52:53am | 0.003 | |
| 132 | 十一月-27-2019 | 03:07:11am | /III | End Of Session |
| 133 | 十一月-27-2019 | 03:07:11am | 0.002 | |
| 134 | 十一月-27-2019 | 03:10:11am | 0.003 | |
| 135 | 十一月-27-2019 | 03:13:11am | 0.002 | |
| 136 | 十一月-27-2019 | 03:17:11am | 0.002 | |
| 137 | 十一月-27-2019 | 03:20:11am | 0.002 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS
Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|-------------|------------|--------------|----------------|
| 138 | 十一月-27-2019 | 03:40:44am | /III | End Of Session |
| 139 | 十一月-27-2019 | 03:40:44am | 0.008 | |
| 140 | 十一月-27-2019 | 03:43:44am | 0.010 | |
| 141 | 十一月-27-2019 | 03:46:44am | 0.008 | |
| 142 | 十一月-27-2019 | 03:49:44am | 0.007 | |
| 143 | 十一月-27-2019 | 03:52:44am | 0.007 | |
| 144 | 十一月-27-2019 | 05:00:06am | /III | End Of Session |
| 145 | 十一月-27-2019 | 05:00:06am | 0.002 | |
| 146 | 十一月-27-2019 | 05:03:06am | 0.001 | |
| 147 | 十一月-27-2019 | 05:06:06am | 0.002 | |
| 148 | 十一月-27-2019 | 05:09:06am | 0.003 | |
| 149 | 十一月-27-2019 | 05:12:06am | 0.002 | |
| 150 | 十一月-27-2019 | 05:36:45am | /III | End Of Session |
| 151 | 十一月-27-2019 | 05:36:45am | 0.003 | |
| 152 | 十一月-27-2019 | 05:39:45am | 0.002 | |
| 153 | 十一月-27-2019 | 05:42:45am | 0.002 | |
| 154 | 十一月-27-2019 | 05:45:45am | 0.002 | |
| 155 | 十一月-27-2019 | 05:48:45am | 0.002 | |
| 156 | 十一月-27-2019 | 05:59:29am | /III | End Of Session |
| 157 | 十一月-27-2019 | 05:59:29am | 0.002 | |
| 158 | 十一月-27-2019 | 06:02:29am | 0.002 | |
| 159 | 十一月-27-2019 | 06:05:29am | 0.003 | |
| 160 | 十一月-27-2019 | 06:08:29am | 0.002 | |
| 161 | 十一月-27-2019 | 06:11:29am | 0.003 | |
| 162 | 十一月-27-2019 | 06:25:37am | /III | End Of Session |
| 163 | 十一月-27-2019 | 06:25:37am | 0.009 | |
| 164 | 十一月-27-2019 | 06:28:37am | 0.011 | |
| 165 | 十一月-27-2019 | 06:31:37am | 0.008 | |
| 166 | 十一月-27-2019 | 06:34:37am | 0.008 | |
| 167 | 十一月-27-2019 | 06:37:37am | 0.008 | |
| 168 | 十一月-27-2019 | 08:00:04am | /III | End Of Session |
| 169 | 十一月-27-2019 | 08:00:04am | 0.002 | |
| 170 | 十一月-27-2019 | 08:03:04am | 0.002 | |
| 171 | 十一月-27-2019 | 08:06:04am | 0.002 | |
| 172 | 十一月-27-2019 | 08:09:04am | 0.002 | |
| 173 | 十一月-27-2019 | 08:12:04am | 0.002 | |
| 174 | 十一月-27-2019 | 08:30:17am | /III | End Of Session |
| 175 | 十一月-27-2019 | 08:30:17am | 0.001 | |
| 176 | 十一月-27-2019 | 08:33:17am | 0.002 | |
| 177 | 十一月-27-2019 | 08:36:17am | 0.003 | |
| 178 | 十一月-27-2019 | 08:39:17am | 0.001 | |
| 179 | 十一月-27-2019 | 08:42:17am | 0.002 | |
| 180 | 十一月-27-2019 | 08:55:11am | /III | End Of Session |
| 181 | 十一月-27-2019 | 08:55:11am | 0.003 | |
| 182 | 十一月-27-2019 | 08:58:11am | 0.002 | |
| 183 | 十一月-27-2019 | 09:01:11am | 0.002 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2967
Comment:
Date/Time: 十一月-29-2018 10:08am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) |
|-----|------------------|------------|---------------------|
| 184 | 十一月-27-2019 | 09:04:11am | 0.003 |
| 185 | 十一月-27-2019 | 09:07:11am | 0.002 |
| 186 | 十一月-27-2019 | 09:17:55am | /III End Of Session |
| 187 | 十一月-27-2019 | 09:17:55am | 0.009 |
| 188 | 十一月-27-2019 | 09:20:55am | 0.008 |
| 189 | 十一月-27-2019 | 09:23:55am | 0.008 |
| 190 | 十一月-27-2019 | 09:26:55am | 0.007 |
| 191 | 十一月-27-2019 | 09:29:55am | 0.010 |
| | Readings: | | 160 |
| | Minimum: | | 0.001 |
| | Maximum: | | 0.013 |
| | Average: | | 0.0037 |
| | SD: | | 0.0028 |

Appendix F

Calibration Certificates



3375 N. Delaware Street, Chandler, AZ 85225
 800.528.7411 | (f) 602.281.1745 | azic.com

Certification of Instrument Calibration

Guyline (Asia) Ltd
 Rm 1611, Eastern Harbour Centre
 Quarry Bay,

RMA # 2634783

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2967, with Sensor Number 16-4-13-V2DS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

| | Actual | Calibration Gas | Allowable Range |
|------------------|---------|-----------------|-----------------|
| Incoming: | Range 1 | ppm H2S | +/- 6% |
| | RSD % | | <5% |
| Outgoing: | Range 1 | 0.501 ppm H2S | +/- 6% |
| | RSD % | 1.51 | <5% |

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 17-Jan-2019 Recalibration Date: 16-Jan-2020

Temperature °F: 72.50 % Relative Humidity: 38.50

Cheryl Hradek

Approved By: _____
 Title: Cheryl Hradek - Quality Control

Date Approved: 18-Jan-2019

Equipment Used:

- H2S Calibration Standard:** CC-230020 NIST#: 1417575
 Calibration Date: 30-May-2017 Calibration Date Due: 31-May-2020
- Mass Flow Controller B:** 124604 NIST#: 215457
 Calibration Date: 13-Dec-2018 Calibration Date Due: 13-Dec-2019
- Mass Flow Controller D:** 124602 NIST#: 215454
 Calibration Date: 13-Dec-2018 Calibration Date Due: 13-Dec-2019
- Digital Multimeter:** 74620534 NIST#: 7003079
 Calibration Date: 16-Feb-2018 Calibration Date Due: 16-Feb-2019
- Flowmeter:** US04126032 NIST#: 1813; 1817; 1796
 Calibration Date: 17-Oct-2018 Calibration Date Due: 18-Oct-2019

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
 Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.
 As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

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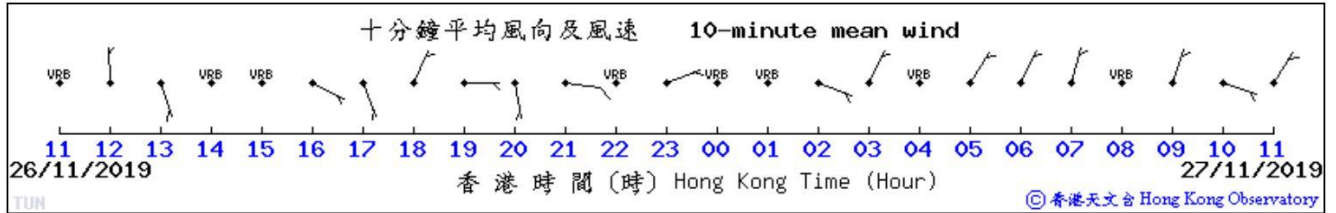
RMA-E20



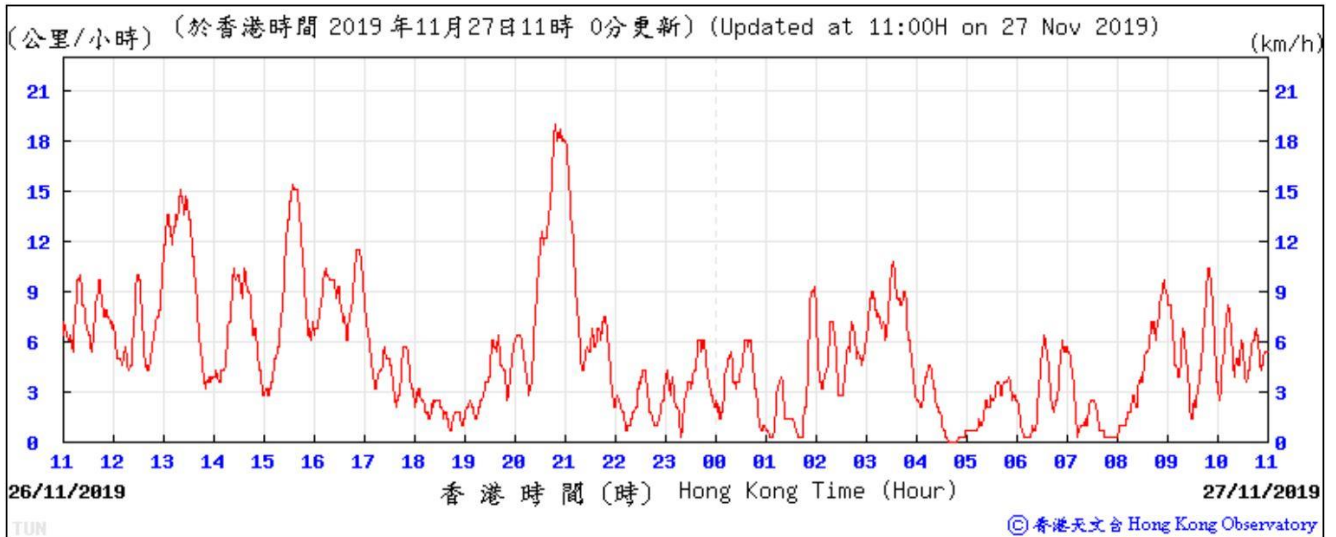
Appendix G

Meteorological Conditions

10-Minute Mean Wind Direction at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



10-Minute Mean Wind Speed at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



Meteorological conditions during the first operation phase odour impact monitoring

| Date | Time | Weather Parameters | | |
|------------------|------|--------------------|----------------|----------------------|
| | | Temperature | Wind Direction | Wind Speed (km/hour) |
| 26 November 2019 | 1100 | 23 | -- | 7.0 |
| | 1200 | 23 | N | 7.0 |
| | 1300 | 24 | SE | 9.0 |
| | 1400 | 23 | -- | 4.0 |
| | 1500 | 24 | -- | 3.0 |
| | 1600 | 23 | SE | 7.0 |
| | 1700 | 23 | SE | 7.0 |
| | 1800 | 23 | NE | 2.0 |
| | 1900 | 22 | E | 1.0 |
| | 2000 | 22 | SE | 5.5 |
| | 2100 | 22 | SE | 18.0 |
| | 2200 | 22 | -- | 2.5 |
| | 2300 | 22 | NE | 3.0 |
| | 2400 | 23 | -- | 2.5 |
| 27 November 2019 | 0100 | 23 | -- | 1.0 |
| | 0200 | 22 | SE | 8.5 |
| | 0300 | 22 | NE | 6.0 |
| | 0400 | 22 | -- | 2.5 |
| | 0500 | 21 | NE | 0.5 |
| | 0600 | 21 | -- | 2.5 |
| | 0700 | 21 | -- | 5.5 |
| | 0800 | 21 | NE | 0.5 |
| | 0900 | 21 | SE | 8.0 |
| | 1000 | 22 | NE | 3.0 |

PRESS WEATHER NO. 082 - HOURLY READINGS

HOURLY READINGS

AT 11 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 71 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 21 DEGREES; |
| CHEUNG CHAU | 22 DEGREES; |
| CHEK LAP KOK | 22 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 22 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 23 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 11:02 HKT ON 26.11.2019

PRESS WEATHER NO. 094 - HOURLY READINGS

HOURLY READINGS

AT NOON AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 71 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 24 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 23 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 22 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 23 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 23 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 22 DEGREES; |
| KOWLOON CITY | 22 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 23 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 24 DEGREES; |
| TAI MEI TUK | 24 DEGREES. |

A TRACE OF RAINFALL WAS RECORDED AT THE HONG KONG OBSERVATORY BETWEEN MIDNIGHT LAST NIGHT AND MIDDAY TODAY.

DISPATCHED BY HONG KONG OBSERVATORY AT 12:02 HKT ON 26.11.2019

PRESS WEATHER NO. 102 - HOURLY READINGS

HOURLY READINGS

AT 1 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 23 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 69 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 23 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 23 DEGREES; |
| TUEN MUN | 24 DEGREES; |
| TSEUNG KWAN O | 23 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 24 DEGREES; |
| CHEK LAP KOK | 24 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 25 DEGREES; |
| TSUEN WAN HO KOON | 22 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 23 DEGREES; |
| HONG KONG PARK | 23 DEGREES; |
| SHAU KEI WAN | 22 DEGREES; |
| KOWLOON CITY | 22 DEGREES; |
| HAPPY VALLEY | 23 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 23 DEGREES; |
| KWUN TONG | 22 DEGREES; |
| SHAM SHUI PO | 23 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 24 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 13:02 HKT ON 26.11.2019

PRESS WEATHER NO. 108 - HOURLY READINGS

HOURLY READINGS

AT 2 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 23 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 68 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 23 DEGREES; |
| WONG CHUK HANG | 23 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 27 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 23 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 24 DEGREES; |
| CHEK LAP KOK | 25 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 23 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 23 DEGREES; |
| HONG KONG PARK | 23 DEGREES; |
| SHAU KEI WAN | 22 DEGREES; |
| KOWLOON CITY | 23 DEGREES; |
| HAPPY VALLEY | 23 DEGREES; |
| WONG TAI SIN | 23 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 22 DEGREES; |
| SHAM SHUI PO | 24 DEGREES; |
| KAI TAK RUNWAY PARK | 23 DEGREES; |
| YUEN LONG PARK | 25 DEGREES; |
| TAI MEI TUK | 23 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 14:02 HKT ON 26.11.2019

PRESS WEATHER NO. 112 - HOURLY READINGS

HOURLY READINGS

AT 3 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 23 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 72 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 23 DEGREES; |
| TA KWU LING | 23 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 23 DEGREES; |
| TUEN MUN | 24 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 23 DEGREES; |
| CHEK LAP KOK | 24 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 22 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 23 DEGREES; |
| HONG KONG PARK | // DEGREES; |
| SHAU KEI WAN | 22 DEGREES; |
| KOWLOON CITY | 23 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 23 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 22 DEGREES; |
| SHAM SHUI PO | 24 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 24 DEGREES; |
| TAI MEI TUK | 24 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 15:04 HKT ON 26.11.2019

PRESS WEATHER NO. 116 - HOURLY READINGS

HOURLY READINGS

AT 4 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 73 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.8. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 23 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 22 DEGREES; |
| CHEK LAP KOK | 24 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 22 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | // DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 22 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 23 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 23 DEGREES; |
| TAI MEI TUK | 23 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 16:02 HKT ON 26.11.2019

PRESS WEATHER NO. 130 - HOURLY READINGS

HOURLY READINGS

AT 5 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 75 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 23 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | // DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 23 DEGREES; |
| TAI MEI TUK | 22 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 17:02 HKT ON 26.11.2019

PRESS WEATHER NO. 136 - HOURLY READINGS

HOURLY READINGS

AT 6 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.0. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 23 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 18:02 HKT ON 26.11.2019

PRESS WEATHER NO. 146 - HOURLY READINGS

HOURLY READINGS

AT 7 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 19:02 HKT ON 26.11.2019

PRESS WEATHER NO. 152 - HOURLY READINGS

HOURLY READINGS

AT 8 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 20:02 HKT ON 26.11.2019

PRESS WEATHER NO. 160 - HOURLY READINGS

HOURLY READINGS

AT 9 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 21 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 21 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 21:02 HKT ON 26.11.2019

PRESS WEATHER NO. 166 - HOURLY READINGS

HOURLY READINGS

AT 10 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 22:02 HKT ON 26.11.2019

PRESS WEATHER NO. 172 - HOURLY READINGS

HOURLY READINGS

AT 11 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 79 PER

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING 'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 23:02 HKT ON 26.11.2019

PRESS WEATHER NO. 004 - HOURLY READINGS

HOURLY READINGS

AT MIDNIGHT AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 79 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 22 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 22 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 22 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 23 DEGREES; |
| SHEK KONG | 23 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 22 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 23 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 23 DEGREES; |
| TAI MEI TUK | 22 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 00:02 HKT ON 26.11.2019

PRESS WEATHER NO. 010 - HOURLY READINGS

HOURLY READINGS

AT 1 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 22 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 23 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 22 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 23 DEGREES; |
| TAI MEI TUK | 22 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 01:02 HKT ON 26.11.2019

PRESS WEATHER NO. 016 - HOURLY READINGS

HOURLY READINGS

AT 2 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 22 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 22 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 22 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 22 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 22 DEGREES; |
| TAI MEI TUK | 22 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 02:02 HKT ON 26.11.2019

PRESS WEATHER NO. 020 - HOURLY READINGS

HOURLY READINGS

AT 3 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 22 DEGREES; |
| TA KWU LING | 20 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 23 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 21 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 22 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 21 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 03:02 HKT ON 26.11.2019

PRESS WEATHER NO. 026 - HOURLY READINGS

HOURLY READINGS

AT 4 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 81 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 20 DEGREES; |
| LAU FAU SHAN | 21 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 22 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 22 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 22 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 21 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 21 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 04:02 HKT ON 26.11.2019

PRESS WEATHER NO. 032 - HOURLY READINGS

HOURLY READINGS

AT 5 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 22 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 81 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 20 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 21 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 21 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 22 DEGREES; |
| TSING YI | 21 DEGREES; |
| SHEK KONG | 20 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 21 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 21 DEGREES; |
| SHAM SHUI PO | 21 DEGREES; |
| KAI TAK RUNWAY PARK | 22 DEGREES; |
| YUEN LONG PARK | 21 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 05:02 HKT ON 26.11.2019

PRESS WEATHER NO. 042 - HOURLY READINGS

HOURLY READINGS

AT 6 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 21 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 77 PER CENT.

STRONG WINDS ARE EXPECTED FROM THE EAST. THE PUBLIC SHOULD BEWARE OF THE POSSIBLE DANGER BROUGHT BY ROUGH SEAS.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 20 DEGREES; |
| TAI PO | 21 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 21 DEGREES; |
| TSEUNG KWAN O | 20 DEGREES; |
| SAI KUNG | 20 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 22 DEGREES; |
| TSING YI | 21 DEGREES; |
| SHEK KONG | 20 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 20 DEGREES; |
| KOWLOON CITY | 20 DEGREES; |
| HAPPY VALLEY | 21 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 20 DEGREES; |
| SHAM SHUI PO | 21 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 20 DEGREES; |
| TAI MEI TUK | 19 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 06:02 HKT ON 26.11.2019

PRESS WEATHER NO. 052 - HOURLY READINGS

HOURLY READINGS

AT 7 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 21 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 75 PER CENT.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 19 DEGREES; |
| TAI PO | 20 DEGREES; |
| SHA TIN | 20 DEGREES; |
| TUEN MUN | 21 DEGREES; |
| TSEUNG KWAN O | 20 DEGREES; |
| SAI KUNG | 20 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 21 DEGREES; |
| TSING YI | 21 DEGREES; |
| SHEK KONG | 19 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 20 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 20 DEGREES; |
| KOWLOON CITY | 20 DEGREES; |
| HAPPY VALLEY | 21 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 19 DEGREES; |
| SHAM SHUI PO | 20 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 20 DEGREES; |
| TAI MEI TUK | 19 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 07:02 HKT ON 26.11.2019

PRESS WEATHER NO. 060 - HOURLY READINGS

HOURLY READINGS

AT 8 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 21 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 74 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.1. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THA

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 19 DEGREES; |
| TAI PO | 20 DEGREES; |
| SHA TIN | 20 DEGREES; |
| TUEN MUN | 21 DEGREES; |
| TSEUNG KWAN O | 20 DEGREES; |
| SAI KUNG | 20 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 21 DEGREES; |
| TSING YI | 21 DEGREES; |
| SHEK KONG | 19 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 20 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 20 DEGREES; |
| KOWLOON CITY | 20 DEGREES; |
| HAPPY VALLEY | 21 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 19 DEGREES; |
| SHAM SHUI PO | 21 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 20 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 08:02 HKT ON 26.11.2019

PRESS WEATHER NO. 066 - HOURLY READINGS

HOURLY READINGS

AT 9 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 21 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 73 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.5. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 20 DEGREES; |
| LAU FAU SHAN | 20 DEGREES; |
| TAI PO | 20 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 21 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 20 DEGREES; |
| CHEUNG CHAU | 21 DEGREES; |
| CHEK LAP KOK | 21 DEGREES; |
| TSING YI | 21 DEGREES; |
| SHEK KONG | 20 DEGREES; |
| TSUEN WAN HO KOON | 20 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 20 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 21 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 20 DEGREES; |
| SHAM SHUI PO | 21 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 20 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

BETWEEN MIDNIGHT AND 9 A.M. THE MINIMUM TEMPERATURE WAS 21.0 DEGREES CELSIUS AT THE HONG KONG OBSERVATORY.

PRESS WEATHER NO. 078 - HOURLY READINGS

HOURLY READINGS

AT 10 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 21 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 72 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 1. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE STRONG MONSOON SIGNAL HAS BEEN ISSUED.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 21 DEGREES; |
| WONG CHUK HANG | 21 DEGREES; |
| TA KWU LING | 21 DEGREES; |
| LAU FAU SHAN | 22 DEGREES; |
| TAI PO | 20 DEGREES; |
| SHA TIN | 21 DEGREES; |
| TUEN MUN | 22 DEGREES; |
| TSEUNG KWAN O | 21 DEGREES; |
| SAI KUNG | 20 DEGREES; |
| CHEUNG CHAU | 23 DEGREES; |
| CHEK LAP KOK | 22 DEGREES; |
| TSING YI | 22 DEGREES; |
| SHEK KONG | 21 DEGREES; |
| TSUEN WAN HO KOON | 21 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 21 DEGREES; |
| HONG KONG PARK | 21 DEGREES; |
| SHAU KEI WAN | 21 DEGREES; |
| KOWLOON CITY | 21 DEGREES; |
| HAPPY VALLEY | 22 DEGREES; |
| WONG TAI SIN | 21 DEGREES; |
| STANLEY | 21 DEGREES; |
| KWUN TONG | 20 DEGREES; |
| SHAM SHUI PO | 22 DEGREES; |
| KAI TAK RUNWAY PARK | 21 DEGREES; |
| YUEN LONG PARK | 21 DEGREES; |
| TAI MEI TUK | 21 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 10:02 HKT ON 26.11.2019

2nd Impact Odour Monitoring



Second Operation Phase Odour Impact Monitoring Report

Impact Odour Monitoring - H₂S Measurement for Tuen Mun Area 54 Sewage
Pumping Station | Hong Kong

0118/19/ED/0336 01 | 20 February 2020

For review

Mott Macdonald Hong Kong Limited

Executive Summary

Fugro Technical Services Limited (FTS) has been appointed by Mott MacDonald Hong Kong Limited, the Project Environmental Team (ET) of Tuen Mun Area 54 Sewage Pumping Station (TMA54SPS) to undertake the operation phase impact odour monitoring for the project.

This is the second monitoring report for the Odour Impact Monitoring of TMA54SPS, prepared by Fugro Technical Services Limited for submission to Mott MacDonald Hong Kong Limited.

This report presents the results obtained from the second operation phase impact odour monitoring carried out from 18 February 2020 to 19 February 2020 during the operation of TMA54SPS.

Exceedances of Action level of 2.3 ppb and Limit Level of 2.5 ppb H₂S concentration at A2 was recorded. As the major monitoring results of A2 were higher than the result at Source, it is considered that the Source (SPS) is not the major contributor to H₂S concentration at A2 during sample 3 and 4, and thus the exceedance at A2 is not project related.

In this reporting period, there were no records of odour complaint received.

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Abbreviations

| | |
|------------------|---|
| ASRs | Air Sensitive Receivers |
| DSD | Drainage Services Department |
| LandsD | Lands Department |
| ET | Environmental Team |
| EM&A | Environmental Monitoring and Audit |
| H ₂ S | Hydrogen Sulphide |
| MMHK | Mott MacDonald Hong Kong Limited |
| FTS | Fugro Technical Services Limited |
| TMA54SPS | Tuen Mun Area 54 Sewage Pumping Station |
| OU | Odour Unit |

1. Introduction

1.1 Background

To cope with a shortfall in flat supply and a rise in housing demand, Tuen Mun Area 54 was identified by the Government as one of the areas having the potential for housing development. Thus, the New Territories West Development Office of Territory Development Department completed the "Planning and Development Study of Potential Housing Site in Area 54, Tuen Mun" in 1999. The Study put forward proposals on housing types, development parameters and planning layouts and assessed the development impacts on transport network, infrastructural capacities and environmental quality.

According to the Review of Tuen Mun and Tsing Yi Sewerage Master Plans, a new sewage pumping station is needed to convey sewage collected from Tuen Mun Area 54 to existing trunk sewers at Ming Kum Road. Other than Tuen Mun Area 54, TMA54SPS will also collect sewage from four recognized villages within Area 54 including Tsz Tin Tsuen, Po Tong Ha, Kei Lun Wai and Siu Hang Tsuen, and the proposed Tuen Mun North Sewage Pumping Station in Area 52. TMA54SPS has a capacity of about 90,000m³ per day; the design average dry weather flow is approximately 0.32m³/s.

TMA54SPS is located in the central part of Site 4A of Tuen Mun Area 54, north of Kei Lun Wai, south of Tsz Tin Tsuen and west of Site 2 of Tuen Mun Area 54. Site 4A is zoned "Government, Institution or Community" on the Tuen Mun Outline Zoning Plan No. S/TM/22 and is reserved for school development. **Appendix A** shows the location of TMA54SPS. Construction work for TMA54SPS is substantially completed and commissioning is anticipated in February 2018.

TMA54SPS is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of Environmental Impact Assessment (EIA) has been carried out to evaluate the environmental impacts associated with the project. An EIA Report and an Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department (EPD) on 12 November 2008. An Environmental Permit (EP) No. EP-381/2009 was issued on 4 January 2010 for TMA54SPS to the Civil Engineering and Development Department as the Permit Holder. The EP stipulates that an EM&A programme is required to ensure mitigation measures recommended in the EIA Report and the EM&A Manual are implemented during the construction and operation of TMA54SPS.

1.2 Project Description

FTS was commissioned to carry out operation phase odour impact monitoring for Mott MacDonald Hong Kong Limited for the project of TMA54SPS.

The EIA study of TMA54SPS has identified odour emissions from the sewage pumping station as the main potential air quality impact. To reduce odour emissions from the operation of TMA54SPS, it is recommended in the EIA Report that wet wells and screen chambers, the main

sources of odour, should be enclosed in a building structure. A deodorizing unit should also be installed; in order to treat vented air before it would be discharged into the atmosphere.

Furthermore, odour monitoring is required as per the EM&A Manual prior to and during the initial operation of TMA54SPS. The purpose of the odour impact monitoring is to indicate whether the odour concentration would be higher or lower than the baseline condition.

1.3 Monitoring Arrangement

According to the EM&A Manual, gaseous hydrogen sulphide (H₂S) is one of the main components of odour emissions. Ambient H₂S concentration can serve as a surrogate indicator for sewage odours as it can be readily monitored at the Air Sensitive Receivers (ASRs).

The odour impact monitoring shall be conducted in the first year upon commissioning of TMA54SPS. Odour Impact Monitoring would be conducted every three months for the first year of operation for TMA54SPS. However, due to some major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc), the commencement of the impact odour monitoring was deferred from March 2018 to October 2019. In addition, as discussed between DSD and EPD, measurement results from the impact odour monitoring will be directly compared with that obtained in the baseline odour monitoring without any adjustments / air modelling applied. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TMA54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months). Action and Limit Levels for Air Quality in operation phase are given in **Table 1.1**.

As regards the locations of odour monitoring stations, it is noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) are currently located in private lots which are not accessible for the ET to conduct the impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fall within CEDD's construction sites (i.e. Government land). As the monitoring station "A5" which falls within the boundary of private open car park, alternative location of odour monitoring station for A5 was proposed. It is noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, except that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" should be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach in determine the alternative location of odour monitoring station for A5, the new A5 is situated on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS. In view of the land resumption programme, the impact odour monitoring will be split into two phases. The 1st phase will include the odour monitoring at the locations A1, A2 and new A5.

Regarding the above requirements, a tentative monitoring programme is shown in **Table 1.2**.

Table 1.1 Action and Limit Levels for Air Quality (Operation Phase)

| Parameter | ASR | Action Level (ppb) | Limit Level (ppb) |
|-------------------------------|-----|--|---|
| H ₂ S | A1 | 2.5 | 2.5 |
| | A2 | 2.3 | 2.5 |
| | A5 | 2.5 | 2.5 |
| Incidents of odour complaints | - | Any incidence of odour complaint received through the Odour Complaint Register | Two or more complaints through the Odour Complaint Register within three months |

Note: Odour complaints are to be handled in accordance with the complaint registration system as mentioned in Section 2.26-2.29 of the EM&A Manual

Table 1.2 Tentative Monitoring Programme

For 1st phase impact odour monitoring at A1, A2 and new A5:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | November 2019 | February 2020 | May 2020 | August 2020 |

2. Odour Impact Monitoring

2.1 Methodology

The H₂S analyzer, type Jerome 631-X, was used for the impact monitoring. Grab air sample was drawn by built-in suction pump of the analyzer and passed through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample.

The details of the equipment used for odour impact monitoring is presented in **Table 2.1**

Table 2.1 Equipment for Baseline Odour Monitoring

| Equipment | Manufacturer / Model | Serial Number | Sensor Number | Calibration Date | Next Calibration Date |
|--------------------------------------|----------------------|---------------|---------------|------------------|-----------------------|
| Gold Film Hydrogen Sulphide Analyzer | JEROME X631 0003 | 2966 | 19-8-23-S4AS | 17 October 2020 | 16 October 2020 |

2.2 Sampling Duration

A 15-min integrated gaseous H₂S sample was collected every 3 hours for a period of 24 hours at monitoring locations, in which five readings were recorded at every monitoring station during each 3-hour session. Maximum and minimum H₂S levels for each monitoring station were recorded.

2.3 Monitoring Locations

H₂S measurements was taken at the sources and outside the premises of the identified ASRs as shown in **Table 2.2** and **Appendix A** show the descriptions and locations of the H₂S monitoring stations.

Table 2.2 Monitoring Locations

| Monitoring Station | Monitoring Location | Description |
|--------------------|--------------------------------|-------------|
| A1 ¹ | Planned Secondary School | ASR |
| A2 ¹ | Planned Secondary School | ASR |
| A5 ¹ | Road connecting to TMA54SPS | ASR |
| SPS ¹ | Exhausted vent pipe of TMA54SP | Source |

Note: ¹ 1st phase odour impact monitoring.

According to the EM&A Manual, the monitoring was taken at a height of predicted worst level of the receivers in the EIA (10 m ground level). Photos showing the monitoring setup are included in **Appendix B**.

2.4 Quality Assurance / Quality Control

In order to ensure the analyzer is functioning properly, manual sensor regeneration and zero adjustment were performed before each set of odour monitoring.

Calibration of the analyzer is conducted every year at the laboratory of the manufacturer. The calibration certificates for the analyzers are shown in **Appendix F**.

3. Monitoring Results

3.1 Weather Conditions and Other Factors

The second monitoring event for the second phase operation phase odour impact monitoring for TMA54SPS was conducted from 18 February 2020 (approx. 11:00 am) to 19 February 2020 (approx. 10:59 am).

The weather was mainly fine and wind was mainly mild to moderate during the monitoring event. An anemometer was used for measuring wind speed and wind direction presented in the site record in **Appendix D**. Meteorological conditions of 18 February 2020 and 19 February 2020 obtained from the nearest Hong Kong Observatory's Tuen Mun Weather Station are shown in **Appendix G**. Meteorological data was obtained as reference information for the analysis of the exceedance event.

No significant odour sources from the project site were observed during the impact monitoring period.

3.2 Monitoring Results

The monitoring results are summarised in **Table 3.1**. Details of monitoring data are shown in **Appendix C** (24-hour average, maximum and minimum H₂S concentration), **Appendix D** (site record) and **Appendix E** (data logger record).

Table 3.1 Summary of Monitoring Results

| Monitoring Station | Monitoring Location | 24-hour Average H ₂ S Concentration (ppb) |
|--------------------|--------------------------------|--|
| A1 ¹ | Planned Secondary School | 2.4 |
| A2 ¹ | Planned Secondary School | 2.6 |
| A5 ¹ | Road connecting to TMA54SPS | 2.5 |
| SPS | Exhausted vent pipe of TMA54SP | 2.4 |

Note: ¹ Air Sensitive Receiver.

4. Odour Complaint

There were no complaints received in relation to the environmental impact during the reporting period.

5. Conclusion and Recommendations

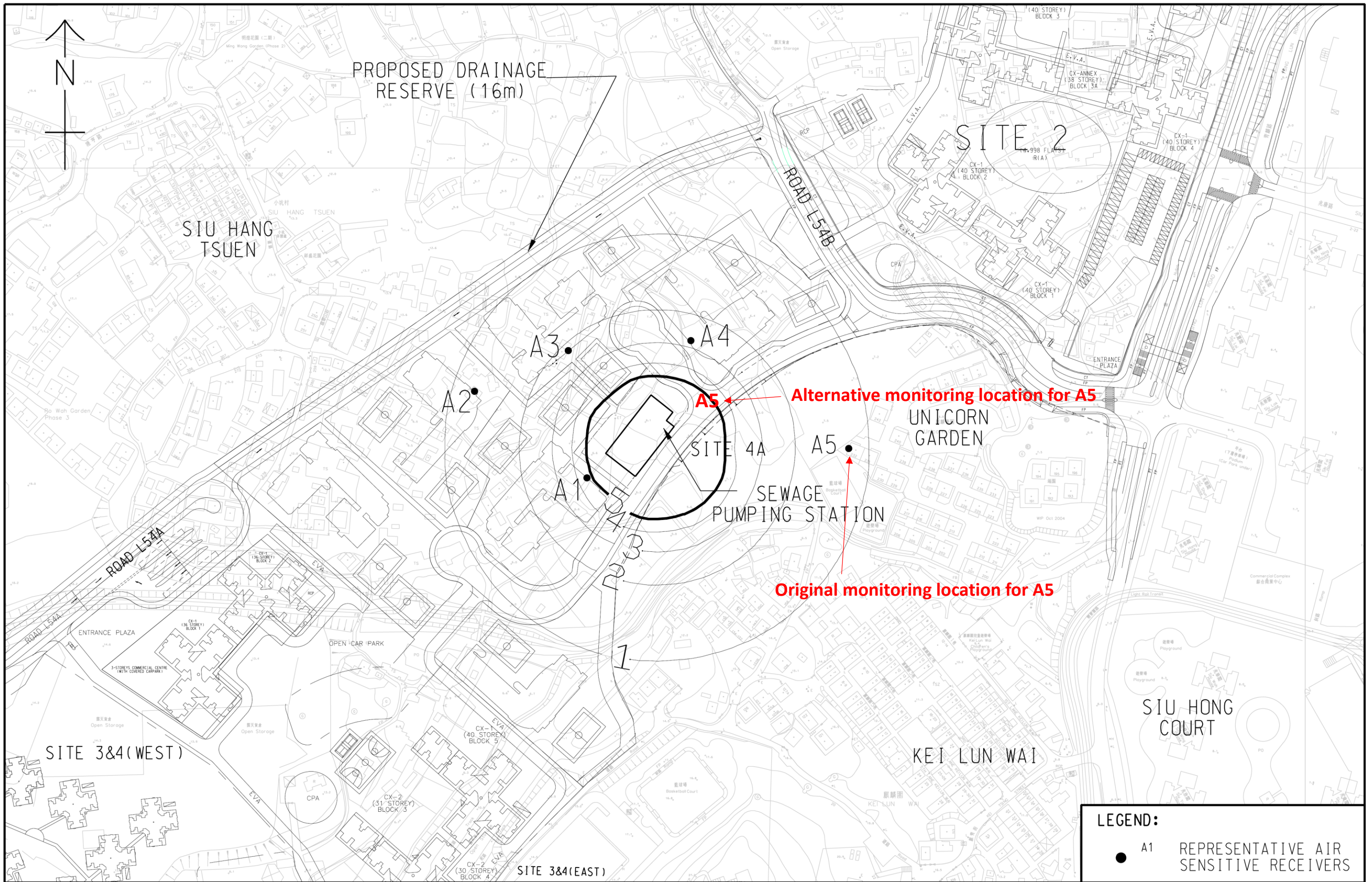
The second monitoring event for the odour impact monitoring was carried out from 18 February 2020 to 19 February 2020.

Odour impact monitoring of H₂S was conducted at four monitoring stations including three Air Sensitive Receivers around TMA54SPS and at Source. Exceedances of Action level of 2.3 ppb and Limit Level of 2.5 ppb H₂S concentration at A2 was recorded.

As the major monitoring results of A2 were higher than the result at Source. Also, at Sample 3 and 4, the H₂S concentration at A2 is 31-44% higher than at Source (SPS). Under the above observations, it is considered that the Source (SPS) is not the major contributor to H₂S concentration at A2 during sample 3 and 4, and thus the exceedance at A2 is not project related.

Appendix A

Monitoring Station



LEGEND:

| | | |
|---|----|--|
| ● | A1 | REPRESENTATIVE AIR SENSITIVE RECEIVERS |
|---|----|--|

MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

AGREEMENT No. CE 21/2005 (CE)
FORMATION, ROADS AND DRAINS IN AREA 54, TUEN MUN - PHASES 1 AND 2 -
ENVIRONMENTAL, TRAFFIC AND DRAINAGE IMPACT ASSESSMENT REVIEW - INVESTIGATION
ADDITIONAL SERVICE No.2 - ENVIRONMENTAL IMPACT ASSESSMENT FOR TUEN MUN AREA 54 SEWAGE PUMPING STATION

CONTOURS OF ODOUR CONCENTRATION (OU/5-sec avg) AT 10m ABOVE GROUND - MITIGATED SCENARIO

| | | | |
|---------|----------|-------------|----------|
| SCALE | 1:2000 | DATE | FEB 2008 |
| CHECK | | DRAWN | SWKY |
| JOB No. | 60021938 | DRAWING No. | 3.3 |
| | | REV | - |



Appendix B

Photographs of Monitoring Stations



A1



A5



A2



Source

Appendix C

Monitoring Results

| Monitoring Station | Time Interval | 24-hour Average H ₂ S Concentration (ppb) | | | | | | | |
|--------------------|---------------|--|---|---------|---------|--------------|------------|-------------|------------|
| | | 15-minute integrated average | 2 nd Event for Phase One Odour Impact Monitoring (18 – 19 February 2020) | | | | | | |
| | | | 24-hour average | Maximum | Minimum | Action Level | Exceedance | Limit Level | Exceedance |
| A1 | 1100-1400 | 1.6 | 2.4 | 3.2 | 1.6 | 2.5 | N | 2.5 | N |
| | 1400-1700 | 2.4 | | | | | | | |
| | 1700-2000 | 2.8 | | | | | | | |
| | 2000-2300 | 2.8 | | | | | | | |
| | 2300-0200 | 2.0 | | | | | | | |
| | 0200-0500 | 3.2 | | | | | | | |
| | 0500-0800 | 2.4 | | | | | | | |
| | 0800-1100 | 2.2 | | | | | | | |
| A2 | 1100-1400 | 1.6 | 2.6 | 3.6 | 1.6 | 2.3 | Y | 2.5 | Y |
| | 1400-1700 | 2.4 | | | | | | | |
| | 1700-2000 | 3.6 | | | | | | | |
| | 2000-2300 | 3.2 | | | | | | | |
| | 2300-0200 | 2.0 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 2.4 | | | | | | | |
| | 0800-1100 | 2.8 | | | | | | | |
| A5 | 1100-1400 | 1.4 | 2.5 | 3.4 | 1.4 | 2.5 | N | 2.5 | N |
| | 1400-1700 | 2.0 | | | | | | | |
| | 1700-2000 | 1.4 | | | | | | | |
| | 2000-2300 | 3.4 | | | | | | | |
| | 2300-0200 | 3.0 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 2.8 | | | | | | | |
| | 0800-1100 | 3.2 | | | | | | | |
| SPS | 1100-1400 | 1.6 | 2.4 | 3.6 | 1.6 | N/A | N/A | N/A | N/A |
| | 1400-1700 | 2.0 | | | | | | | |
| | 1700-2000 | 2.2 | | | | | | | |
| | 2000-2300 | 2.2 | | | | | | | |
| | 2300-0200 | 2.2 | | | | | | | |
| | 0200-0500 | 3.0 | | | | | | | |
| | 0500-0800 | 3.6 | | | | | | | |
| | 0800-1100 | 2.6 | | | | | | | |

Appendix D

Site Record

Air Quality (H₂S) Monitoring Data Record Sheet

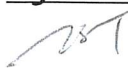

| General Information | | | | |
|---------------------|-------------|------------|----------------|---------------------|
| Monitoring Station | A1 | | | |
| Date | 18/2 | | | |
| Weather | fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1148 | 0.3m/s | SW | 0.002, 0.002, 0.002 |
| | Stop: 1203 | | | 0.001, 0.001 |
| Sample 2 | Start: 1436 | 0.2m/s | SW | 0.004, 0.002, 0.002 |
| | Stop: 1451 | | | 0.002, 0.002 |
| Sample 3 | Start: 1739 | / | / | 0.002, 0.002, 0.003 |
| | Stop: 1754 | | | 0.005, 0.002 |
| Sample 4 | Start: 2035 | 0.6m/s | E | 0.003, 0.003, 0.003 |
| | Stop: 2050 | | | 0.003, 0.002 |
| Sample 5 | Start: 2330 | / | / | 0.002, 0.002, 0.002 |
| | Stop: 2345 | | | 0.002, 0.002 |
| Sample 6 | Start: 0229 | / | / | 0.004, 0.004, |
| | Stop: 0244 | | | 0.003, 0.003, 0.002 |
| Sample 7 | Start: 0530 | 0.3m/s | S | 0.002, 0.002, 0.002 |
| | Stop: 0545 | | | 0.003, 0.003 |
| Sample 8 | Start: 0837 | / | / | 0.002, 0.002, 0.003 |
| | Stop: 0852 | | | 0.002, 0.002 |
| Other Observations | | | | |

| | | | |
|---------------------|---|----------------------|---------------------------|
| Recorded by: | <u>Name & Designation</u> Ting Chan To | <u>Signature</u> | <u>Date</u> 20/12/2020 |
| Checked by: | Vincent Lu EC | | 20/02/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

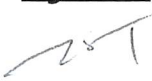

| General Information | | | | |
|---------------------|-----------------------------|------------|----------------|-------------------------------------|
| Monitoring Station | A2 | | | |
| Date | 18/2 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1100 1100 | 0.2 | E | 0.002, 0.002 0.002, 0.001, 0.001 |
| | Stop: 1115 1115 | | | |
| Sample 2 | Start: 1400 | 0.1 | S | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1415 | | | |
| Sample 3 | Start: 1700 | / | / | 0.004, 0.004, 0.003 0.004, 0.003 |
| | Stop: 1715 | | | |
| Sample 4 | Start: 2000 | 0.7m/s | SE | 0.004, 0.003, 0.003 0.003, 0.003 |
| | Stop: 2015 | | | |
| Sample 5 | Start: 2300 | / | / | 0.002, 0.002, 0.003 0.002, 0.001 |
| | Stop: 2315 | | | |
| Sample 6 | Start: 0200 | / | / | 0.002, 0.002, 0.002 0.003, 0.003 |
| | Stop: 0215 | | | |
| Sample 7 | Start: 0500 | / | / | 0.003, 0.002, 0.003 0.002, 0.002 |
| | Stop: 0515 | | | |
| Sample 8 | Start: 0800 | 0.3 | E | 0.003, 0.003, 0.002 0.003, 0.003 |
| | Stop: 0815 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|--|---------------------------|
| Recorded by: | Name & Designation Ting Chen To | Signature  | Date 20/02/2020 |
| Checked by: | Vincent Lu EC |  | 20/02/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---------------------|-------------|------------|----------------|--------------------------------------|
| Monitoring Station | A5 | | | |
| Date | 18/2 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1220 | 0.9 m/s | SW | 0.002, 0.002, 0.001 0.001, 0.001 |
| | Stop: 1235 | | | |
| Sample 2 | Start: 1501 | 0.3 m/s | SE | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 1516 | | | |
| Sample 3 | Start: 1809 | / | / | 0.002, 0.001, 0.002 0.001, 0.001 |
| | Stop: 1824 | | | |
| Sample 4 | Start: 2103 | / | / | 0.004, 0.003, 0.003 0.004, 0.003 |
| | Stop: 2118 | | | |
| Sample 5 | Start: 2359 | / | / | 0.004, 0.003, 0.003, 0.003, 0.002 |
| | Stop: 0014 | | | |
| Sample 6 | Start: 0255 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 0310 | | | |
| Sample 7 | Start: 0555 | / | / | 0.003, 0.003, 0.001 0.003, 0.002 |
| | Stop: 0610 | | | |
| Sample 8 | Start: 0805 | / | / | 0.003, 0.004, 0.003 0.003, 0.003 |
| | Stop: 0920 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|--|--------------------------|
| Recorded by: | <u>Name & Designation</u> Ting Chan To | <u>Signature</u>  | <u>Date</u> 20/2/2020 |
| Checked by: | Vincent Lu EC |  | 20/2/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---------------------|-------------|------------|----------------|--|
| Monitoring Station | SPS | | | |
| Date | 18/2 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1238 | 0.1 | SW | 0.002, 0.001, 0.001 0.002, 0.002 |
| | Stop: 1253 | | | |
| Sample 2 | Start: 1520 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 1535 | | | |
| Sample 3 | Start: 1830 | / | / | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1845 | | | |
| Sample 4 | Start: 2123 | 0.3m/s | SE | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 2138 | | | |
| Sample 5 | Start: 0020 | / | / | 0.003, 0.002, 0.002 0.002, 0.002, 0.002 |
| | Stop: 0035 | | | |
| Sample 6 | Start: 0313 | / | / | 0.003, 0.003, 0.003 0.003, 0.003 |
| | Stop: 0328 | | | |
| Sample 7 | Start: 0614 | 0.4m/s | S | 0.004, 0.003, 0.003 0.004, 0.004 |
| | Stop: 0629 | | | |
| Sample 8 | Start: 0925 | 0.3m/s | E | 0.003, 0.003, 0.003 0.002, 0.002 |
| | Stop: 0940 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|----------------------|--------------------------|
| Recorded by: | <u>Name & Designation</u> Ting Chan To | <u>Signature</u> | <u>Date</u> 20/2/2020 |
| Checked by: | Vincent Lu EC | | 20/02/2020 |



Appendix E

Data Logger Record

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 二月-20-2020 09:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|----|------------|------------|--------------|----------------|
| 1 | 二月-18-2020 | 11:00:29am | 0.002 | |
| 2 | 二月-18-2020 | 11:03:29am | 0.002 | |
| 3 | 二月-18-2020 | 11:06:29am | 0.002 | |
| 4 | 二月-18-2020 | 11:09:29am | 0.001 | |
| 5 | 二月-18-2020 | 11:12:29am | 0.001 | |
| 6 | 二月-18-2020 | 11:48:52am | /III | End Of Session |
| 7 | 二月-18-2020 | 11:48:52am | 0.002 | |
| 8 | 二月-18-2020 | 11:51:52am | 0.002 | |
| 9 | 二月-18-2020 | 11:54:52am | 0.002 | |
| 10 | 二月-18-2020 | 11:57:52am | 0.001 | |
| 11 | 二月-18-2020 | 12:00:52pm | 0.001 | |
| 12 | 二月-18-2020 | 12:20:33pm | /III | End Of Session |
| 13 | 二月-18-2020 | 12:20:33pm | 0.002 | |
| 14 | 二月-18-2020 | 12:23:33pm | 0.002 | |
| 15 | 二月-18-2020 | 12:26:33pm | 0.001 | |
| 16 | 二月-18-2020 | 12:29:33pm | 0.001 | |
| 17 | 二月-18-2020 | 12:32:33pm | 0.001 | |
| 18 | 二月-18-2020 | 12:38:42pm | /III | End Of Session |
| 19 | 二月-18-2020 | 12:38:42pm | 0.002 | |
| 20 | 二月-18-2020 | 12:41:42pm | 0.001 | |
| 21 | 二月-18-2020 | 12:44:42pm | 0.001 | |
| 22 | 二月-18-2020 | 12:47:42pm | 0.002 | |
| 23 | 二月-18-2020 | 12:50:42pm | 0.002 | |
| 24 | 二月-18-2020 | 02:00:21pm | /III | End Of Session |
| 25 | 二月-18-2020 | 02:00:21pm | 0.003 | |
| 24 | 二月-18-2020 | 02:03:21pm | 0.003 | |
| 25 | 二月-18-2020 | 02:06:21pm | 0.002 | |
| 28 | 二月-18-2020 | 02:09:21pm | 0.002 | |
| 29 | 二月-18-2020 | 02:12:21pm | 0.002 | |
| 30 | 二月-18-2020 | 02:36:44pm | /III | End Of Session |
| 31 | 二月-18-2020 | 02:36:44pm | 0.004 | |
| 32 | 二月-18-2020 | 02:39:44pm | 0.002 | |
| 33 | 二月-18-2020 | 02:42:44pm | 0.002 | |
| 34 | 二月-18-2020 | 02:45:44pm | 0.002 | |
| 35 | 二月-18-2020 | 02:48:44pm | 0.002 | |
| 36 | 二月-18-2020 | 03:01:08pm | /III | End Of Session |
| 37 | 二月-18-2020 | 03:01:08pm | 0.002 | |
| 38 | 二月-18-2020 | 03:04:08pm | 0.002 | |
| 39 | 二月-18-2020 | 03:07:08pm | 0.002 | |
| 40 | 二月-18-2020 | 03:10:08pm | 0.002 | |
| 41 | 二月-18-2020 | 03:13:08pm | 0.002 | |
| 42 | 二月-18-2020 | 03:20:22pm | /III | End Of Session |
| 43 | 二月-18-2020 | 03:20:22pm | 0.002 | |
| 44 | 二月-18-2020 | 03:23:22pm | 0.002 | |
| 45 | 二月-18-2020 | 03:26:22pm | 0.002 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 二月-20-2020 09:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) |
|----|------------|------------|---------------------|
| 46 | 二月-18-2020 | 03:29:22pm | 0.002 |
| 47 | 二月-18-2020 | 03:32:22pm | 0.002 |
| 48 | 二月-18-2020 | 05:00:36pm | /III End Of Session |
| 49 | 二月-18-2020 | 05:00:36pm | 0.004 |
| 50 | 二月-18-2020 | 05:03:36pm | 0.004 |
| 51 | 二月-18-2020 | 05:06:36pm | 0.003 |
| 52 | 二月-18-2020 | 05:09:36pm | 0.004 |
| 53 | 二月-18-2020 | 05:12:36pm | 0.003 |
| 54 | 二月-18-2020 | 05:39:51pm | /III End Of Session |
| 55 | 二月-18-2020 | 05:39:51pm | 0.002 |
| 56 | 二月-18-2020 | 05:42:51pm | 0.002 |
| 57 | 二月-18-2020 | 05:45:51pm | 0.003 |
| 58 | 二月-18-2020 | 05:48:51pm | 0.005 |
| 59 | 二月-18-2020 | 05:51:51pm | 0.002 |
| 60 | 二月-18-2020 | 06:09:24pm | /III End Of Session |
| 61 | 二月-18-2020 | 06:09:24pm | 0.002 |
| 62 | 二月-18-2020 | 06:12:24pm | 0.001 |
| 63 | 二月-18-2020 | 06:15:24pm | 0.002 |
| 64 | 二月-18-2020 | 06:18:24pm | 0.001 |
| 65 | 二月-18-2020 | 06:21:24pm | 0.001 |
| 66 | 二月-18-2020 | 06:30:15pm | /III End Of Session |
| 67 | 二月-18-2020 | 06:30:15pm | 0.002 |
| 68 | 二月-18-2020 | 06:33:15pm | 0.003 |
| 69 | 二月-18-2020 | 06:36:15pm | 0.002 |
| 70 | 二月-18-2020 | 06:39:15pm | 0.002 |
| 71 | 二月-18-2020 | 06:42:15pm | 0.002 |
| 72 | 二月-18-2020 | 08:00:39pm | /III End Of Session |
| 73 | 二月-18-2020 | 08:00:39pm | 0.004 |
| 74 | 二月-18-2020 | 08:03:39pm | 0.003 |
| 75 | 二月-18-2020 | 08:06:39pm | 0.003 |
| 76 | 二月-18-2020 | 08:09:39pm | 0.003 |
| 77 | 二月-18-2020 | 08:12:39pm | 0.003 |
| 78 | 二月-18-2020 | 08:35:41pm | /III End Of Session |
| 79 | 二月-18-2020 | 08:35:41pm | 0.003 |
| 80 | 二月-18-2020 | 08:38:41pm | 0.003 |
| 81 | 二月-18-2020 | 08:41:41pm | 0.003 |
| 82 | 二月-18-2020 | 08:44:41pm | 0.003 |
| 83 | 二月-18-2020 | 08:47:41pm | 0.002 |
| 84 | 二月-18-2020 | 09:03:16pm | /III End Of Session |
| 85 | 二月-18-2020 | 09:03:16pm | 0.004 |
| 86 | 二月-18-2020 | 09:06:16pm | 0.003 |
| 87 | 二月-18-2020 | 09:09:16pm | 0.003 |
| 88 | 二月-18-2020 | 09:12:16pm | 0.004 |
| 89 | 二月-18-2020 | 09:15:16pm | 0.003 |
| 90 | 二月-18-2020 | 09:23:27pm | /III End Of Session |
| 91 | 二月-18-2020 | 09:23:27pm | 0.002 |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 二月-20-2020 09:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) |
|-----|------------|------------|---------------------|
| 92 | 二月-18-2020 | 09:26:27pm | 0.003 |
| 93 | 二月-18-2020 | 09:29:27pm | 0.002 |
| 94 | 二月-18-2020 | 09:32:27pm | 0.002 |
| 95 | 二月-18-2020 | 09:35:27pm | 0.002 |
| 96 | 二月-18-2020 | 11:00:42pm | /III End Of Session |
| 97 | 二月-18-2020 | 11:00:42pm | 0.002 |
| 98 | 二月-18-2020 | 11:03:42pm | 0.002 |
| 99 | 二月-18-2020 | 11:06:42pm | 0.003 |
| 100 | 二月-18-2020 | 11:09:42pm | 0.002 |
| 101 | 二月-18-2020 | 11:12:42pm | 0.001 |
| 102 | 二月-18-2020 | 11:30:29pm | /III End Of Session |
| 103 | 二月-18-2020 | 11:30:29pm | 0.002 |
| 104 | 二月-18-2020 | 11:33:29pm | 0.002 |
| 105 | 二月-18-2020 | 11:36:29pm | 0.002 |
| 106 | 二月-18-2020 | 11:39:29pm | 0.002 |
| 107 | 二月-18-2020 | 11:42:29pm | 0.002 |
| 108 | 二月-18-2020 | 11:59:58pm | /III End Of Session |
| 109 | 二月-18-2020 | 11:59:58pm | 0.004 |
| 110 | 二月-19-2020 | 00:02:58am | 0.003 |
| 111 | 二月-19-2020 | 00:05:58am | 0.003 |
| 112 | 二月-19-2020 | 00:08:58am | 0.003 |
| 113 | 二月-19-2020 | 00:11:58am | 0.002 |
| 114 | 二月-19-2020 | 00:20:33am | /III End Of Session |
| 115 | 二月-19-2020 | 00:20:33am | 0.003 |
| 116 | 二月-19-2020 | 00:23:33am | 0.002 |
| 117 | 二月-19-2020 | 00:26:33am | 0.002 |
| 118 | 二月-19-2020 | 00:29:33am | 0.002 |
| 119 | 二月-19-2020 | 00:32:33am | 0.002 |
| 120 | 二月-19-2020 | 02:00:28am | /III End Of Session |
| 121 | 二月-19-2020 | 02:00:28am | 0.002 |
| 122 | 二月-19-2020 | 02:03:28am | 0.002 |
| 123 | 二月-19-2020 | 02:06:28am | 0.002 |
| 124 | 二月-19-2020 | 02:09:28am | 0.003 |
| 125 | 二月-19-2020 | 02:12:28am | 0.003 |
| 126 | 二月-19-2020 | 02:29:20am | /III End Of Session |
| 127 | 二月-19-2020 | 02:29:20am | 0.004 |
| 128 | 二月-19-2020 | 02:32:20am | 0.004 |
| 129 | 二月-19-2020 | 02:35:20am | 0.003 |
| 130 | 二月-19-2020 | 02:38:20am | 0.003 |
| 131 | 二月-19-2020 | 02:41:20am | 0.002 |
| 132 | 二月-19-2020 | 02:55:08am | /III End Of Session |
| 133 | 二月-19-2020 | 02:55:08am | 0.003 |
| 134 | 二月-19-2020 | 02:58:08am | 0.003 |
| 135 | 二月-19-2020 | 03:01:08am | 0.002 |
| 136 | 二月-19-2020 | 03:04:08am | 0.002 |
| 137 | 二月-19-2020 | 03:07:08am | 0.002 |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 二月-20-2020 09:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|--------------|----------------|
| 138 | 二月-19-2020 | 03:13:17am | /III | End Of Session |
| 139 | 二月-19-2020 | 03:13:17am | 0.003 | |
| 140 | 二月-19-2020 | 03:16:17am | 0.003 | |
| 141 | 二月-19-2020 | 03:19:17am | 0.003 | |
| 142 | 二月-19-2020 | 03:22:17am | 0.003 | |
| 143 | 二月-19-2020 | 03:25:17am | 0.003 | |
| 144 | 二月-19-2020 | 05:00:47am | /III | End Of Session |
| 145 | 二月-19-2020 | 05:00:47am | 0.003 | |
| 146 | 二月-19-2020 | 05:03:47am | 0.002 | |
| 147 | 二月-19-2020 | 05:06:47am | 0.003 | |
| 148 | 二月-19-2020 | 05:09:47am | 0.002 | |
| 149 | 二月-19-2020 | 05:12:47am | 0.002 | |
| 150 | 二月-19-2020 | 05:30:24am | /III | End Of Session |
| 151 | 二月-19-2020 | 05:30:24am | 0.002 | |
| 152 | 二月-19-2020 | 05:33:24am | 0.002 | |
| 153 | 二月-19-2020 | 05:36:24am | 0.002 | |
| 154 | 二月-19-2020 | 05:39:24am | 0.003 | |
| 155 | 二月-19-2020 | 05:42:24am | 0.003 | |
| 156 | 二月-19-2020 | 05:55:07am | /III | End Of Session |
| 157 | 二月-19-2020 | 05:55:07am | 0.003 | |
| 158 | 二月-19-2020 | 05:58:07am | 0.003 | |
| 159 | 二月-19-2020 | 06:01:07am | 0.003 | |
| 160 | 二月-19-2020 | 06:04:07am | 0.003 | |
| 161 | 二月-19-2020 | 06:07:07am | 0.002 | |
| 162 | 二月-19-2020 | 06:14:32am | /III | End Of Session |
| 163 | 二月-19-2020 | 06:14:32am | 0.004 | |
| 164 | 二月-19-2020 | 06:17:32am | 0.003 | |
| 165 | 二月-19-2020 | 06:20:32am | 0.003 | |
| 166 | 二月-19-2020 | 06:23:32am | 0.004 | |
| 167 | 二月-19-2020 | 06:26:32am | 0.004 | |
| 168 | 二月-19-2020 | 08:00:36am | /III | End Of Session |
| 169 | 二月-19-2020 | 08:00:36am | 0.003 | |
| 170 | 二月-19-2020 | 08:03:36am | 0.003 | |
| 171 | 二月-19-2020 | 08:06:36am | 0.002 | |
| 172 | 二月-19-2020 | 08:09:36am | 0.003 | |
| 173 | 二月-19-2020 | 08:12:36am | 0.003 | |
| 174 | 二月-19-2020 | 08:37:44am | /III | End Of Session |
| 175 | 二月-19-2020 | 08:37:44am | 0.002 | |
| 176 | 二月-19-2020 | 08:40:44am | 0.002 | |
| 177 | 二月-19-2020 | 08:43:44am | 0.003 | |
| 178 | 二月-19-2020 | 08:46:44am | 0.002 | |
| 179 | 二月-19-2020 | 08:49:44am | 0.002 | |
| 180 | 二月-19-2020 | 09:05:29am | /III | End Of Session |
| 181 | 二月-19-2020 | 09:05:29am | 0.003 | |
| 182 | 二月-19-2020 | 09:08:29am | 0.004 | |
| 183 | 二月-19-2020 | 09:11:29am | 0.003 | |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 二月-20-2020 09:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) |
|-----|------------|------------|---------------------|
| 184 | 二月-19-2020 | 09:14:29am | 0.003 |
| 185 | 二月-19-2020 | 09:17:29am | 0.003 |
| 186 | 二月-19-2020 | 09:25:52am | /III End Of Session |
| 187 | 二月-19-2020 | 09:25:52am | 0.003 |
| 188 | 二月-19-2020 | 09:28:52am | 0.003 |
| 189 | 二月-19-2020 | 09:31:52am | 0.003 |
| 190 | 二月-19-2020 | 09:34:52am | 0.002 |
| 191 | 二月-19-2020 | 09:37:52am | 0.002 |

Readings: 160
Minimum: 0.001
Maximum: 0.005
Average: 0.00246
SD: 0.00079

Appendix F

Calibration Certificates



3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 | (f) 602.281.1745 | azic.com

Certification of Instrument Calibration

Guyline (Asia) Ltd
Rm 1611, Eastern Harbour Centre
Quarry Bay,

RMA # 2694299

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2966, with Sensor Number 19-8-23-S4AS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

| | | Actual | Calibration Gas | Allowable Range |
|------------------|---------|---------------|-----------------|-----------------|
| Incoming: | Range 1 | 0.094 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 11.33 | | <5% |
| Outgoing: | Range 1 | 0.518 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 2.11 | | <5% |

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 17-Oct-2019 Recalibration Date: 16-Oct-2020

Temperature °F: 70.60 % Relative Humidity: 32.90

Approved By: Jackie Kreitlow
Title: Jackie Kreitlow - Quality Control

Date Approved: 18-Oct-2019

Equipment Used:

- H2S Calibration Standard:** CC-75664 NIST#: 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021
- Mass Flow Controller B:** 124604 NIST#: 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Mass Flow Controller D:** 124602 NIST#: 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Digital Multimeter:** 74620505 NIST#: 7003079
Calibration Date: 05-Apr-2019 **Calibration Date Due:** 05-Apr-2020
- Flowmeter:** US04126032 NIST#: 1813; 1817; 1796
Calibration Date: 12-Aug-2019 **Calibration Date Due:** 12-Aug-2020

Calibration Procedure Used: 730-0032

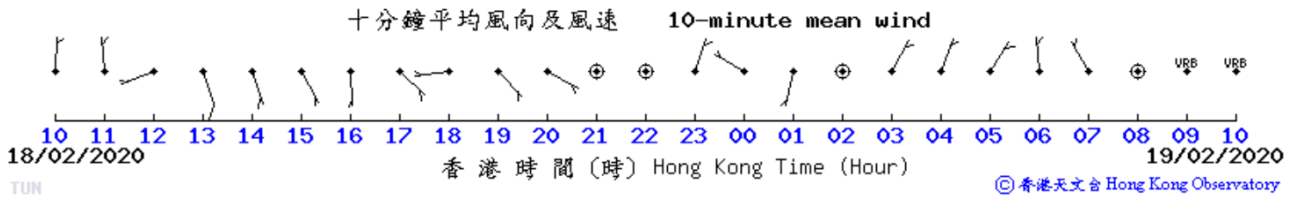
AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.
As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

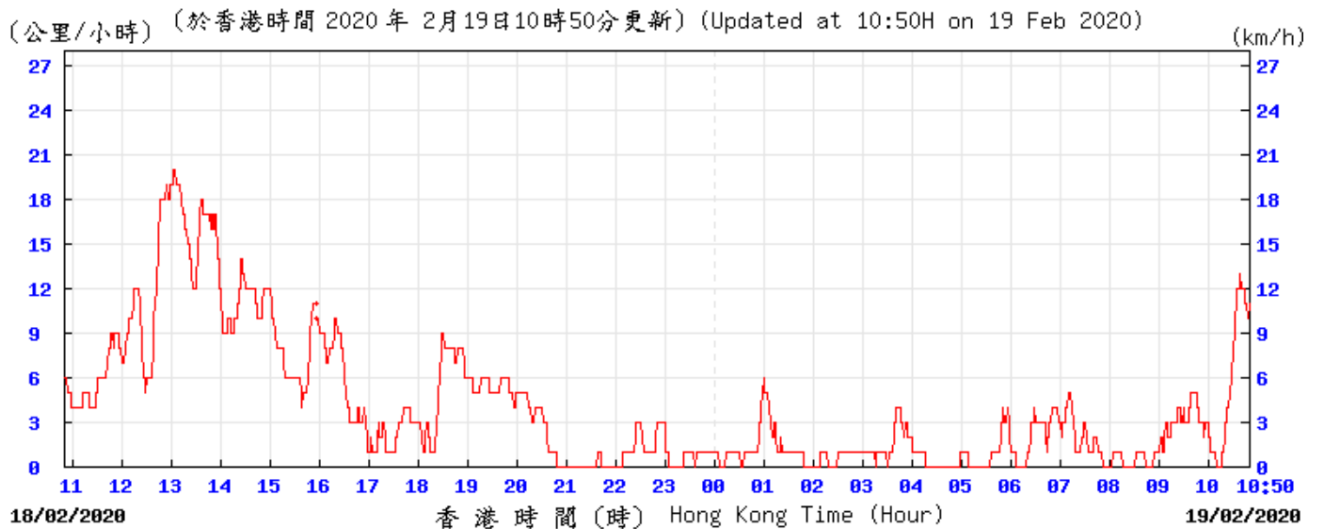
Appendix G

Meteorological Conditions

10-Minute Mean Wind Direction at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



10-Minute Mean Wind Speed at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



Meteorological conditions during the second operation phase odour impact monitoring

| Date | Time | Weather Parameters | | |
|------------------|------|--------------------|----------------|----------------------|
| | | Temperature | Wind Direction | Wind Speed (km/hour) |
| 18 February 2020 | 1100 | 16 | N | 4.0 |
| | 1200 | 17 | SW | 7.0 |
| | 1300 | 17 | SE | 18.0 |
| | 1400 | 17 | SE | 9.0 |
| | 1500 | 18 | SE | 12.0 |
| | 1600 | 18 | S | 9.0 |
| | 1700 | 17 | SE | 1.0 |
| | 1800 | 16 | W | 3.0 |
| | 1900 | 14 | SE | 6.0 |
| | 2000 | 13 | SE | 4.0 |
| | 2100 | 13 | -- | 0.0 |
| | 2200 | 12 | -- | 0.0 |
| | 2300 | 12 | N | 1.0 |
| | 2400 | 13 | NW | 1.0 |
| 19 February 2020 | 0100 | 14 | S | 6.0 |
| | 0200 | 14 | -- | 0.0 |
| | 0300 | 14 | N | 1.0 |
| | 0400 | 14 | N | 1.0 |
| | 0500 | 13 | N | 1.0 |
| | 0600 | 13 | N | 1.5 |
| | 0700 | 14 | N | 2.0 |
| | 0800 | 14 | -- | 0.0 |
| | 0900 | 15 | -- | 1.5 |
| | 1000 | 17 | -- | 3.0 |

PRESS WEATHER NO. 078 - HOURLY READINGS

HOURLY READINGS

AT 11 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 50 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 4. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 16 DEGREES; |
| WONG CHUK HANG | 16 DEGREES; |
| TA KWU LING | 15 DEGREES; |
| LAU FAU SHAN | 14 DEGREES; |
| TAI PO | 15 DEGREES; |
| SHA TIN | 15 DEGREES; |
| TUEN MUN | 16 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 16 DEGREES; |
| TSUEN WAN HO KOON | 15 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 16 DEGREES; |
| HONG KONG PARK | 16 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 16 DEGREES; |
| HAPPY VALLEY | 17 DEGREES; |
| WONG TAI SIN | 17 DEGREES; |
| STANLEY | 16 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 16 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 17 DEGREES; |
| TAI MEI TUK | 18 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 11:02 HKT ON 18.02.2020

PRESS WEATHER NO. 084 - HOURLY READINGS

HOURLY READINGS

AT NOON AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 17 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 51 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 5. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 16 DEGREES; |
| WONG CHUK HANG | 16 DEGREES; |
| TA KWU LING | 17 DEGREES; |
| LAU FAU SHAN | 15 DEGREES; |
| TAI PO | 15 DEGREES; |
| SHA TIN | 16 DEGREES; |
| TUEN MUN | 17 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 16 DEGREES; |
| SHEK KONG | 17 DEGREES; |
| TSUEN WAN HO KOON | 16 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 17 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 17 DEGREES; |
| HAPPY VALLEY | 17 DEGREES; |
| WONG TAI SIN | 16 DEGREES; |
| STANLEY | 16 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 17 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 18 DEGREES; |
| TAI MEI TUK | 19 DEGREES. |

NO RAINFALL WAS RECORDED AT THE HONG KONG OBSERVATORY BETWEEN MIDNIGHT LAST NIGHT AND MIDDAY TODAY.

DISPATCHED BY HONG KONG OBSERVATORY AT 12:02 HKT ON 18.02.2020

PRESS WEATHER NO. 092 - HOURLY READINGS

HOURLY READINGS

AT 1 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 17 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 48 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 6. THE INTENSITY OF UV RADIATION WAS HIGH.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 16 DEGREES; |
| WONG CHUK HANG | 16 DEGREES; |
| TA KWU LING | 17 DEGREES; |
| LAU FAU SHAN | 18 DEGREES; |
| TAI PO | 15 DEGREES; |
| SHA TIN | 17 DEGREES; |
| TUEN MUN | 17 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 18 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 17 DEGREES; |
| SHEK KONG | 18 DEGREES; |
| TSUEN WAN HO KOON | 17 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 18 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 17 DEGREES; |
| HAPPY VALLEY | 16 DEGREES; |
| WONG TAI SIN | 17 DEGREES; |
| STANLEY | 16 DEGREES; |
| KWUN TONG | 16 DEGREES; |
| SHAM SHUI PO | 18 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 18 DEGREES; |
| TAI MEI TUK | 19 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 13:02 HKT ON 18.02.2020

PRESS WEATHER NO. 096 - HOURLY READINGS

HOURLY READINGS

AT 2 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 17 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 48 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 6. THE INTENSITY OF UV RADIATION WAS HIGH.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 17 DEGREES; |
| WONG CHUK HANG | 17 DEGREES; |
| TA KWU LING | 18 DEGREES; |
| LAU FAU SHAN | 17 DEGREES; |
| TAI PO | 16 DEGREES; |
| SHA TIN | 17 DEGREES; |
| TUEN MUN | 17 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 18 DEGREES; |
| CHEK LAP KOK | 18 DEGREES; |
| TSING YI | 18 DEGREES; |
| SHEK KONG | 19 DEGREES; |
| TSUEN WAN HO KOON | 18 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 19 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 18 DEGREES; |
| HAPPY VALLEY | 17 DEGREES; |
| WONG TAI SIN | 17 DEGREES; |
| STANLEY | 17 DEGREES; |
| KWUN TONG | 16 DEGREES; |
| SHAM SHUI PO | 18 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 19 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 14:02 HKT ON 18.02.2020

PRESS WEATHER NO. 100 - HOURLY READINGS

HOURLY READINGS

AT 3 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 18 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 49 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 4. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 17 DEGREES; |
| WONG CHUK HANG | 17 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 17 DEGREES; |
| TAI PO | 17 DEGREES; |
| SHA TIN | 17 DEGREES; |
| TUEN MUN | 18 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 16 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 18 DEGREES; |
| SHEK KONG | 19 DEGREES; |
| TSUEN WAN HO KOON | 18 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 19 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 18 DEGREES; |
| HAPPY VALLEY | 18 DEGREES; |
| WONG TAI SIN | 17 DEGREES; |
| STANLEY | 17 DEGREES; |
| KWUN TONG | 16 DEGREES; |
| SHAM SHUI PO | 18 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 19 DEGREES; |
| TAI MEI TUK | 20 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 15:02 HKT ON 18.02.2020

PRESS WEATHER NO. 104 - HOURLY READINGS

HOURLY READINGS

AT 4 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 18 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 50 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 17 DEGREES; |
| WONG CHUK HANG | 17 DEGREES; |
| TA KWU LING | 19 DEGREES; |
| LAU FAU SHAN | 18 DEGREES; |
| TAI PO | 16 DEGREES; |
| SHA TIN | 17 DEGREES; |
| TUEN MUN | 18 DEGREES; |
| TSEUNG KWAN O | 17 DEGREES; |
| SAI KUNG | 16 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 18 DEGREES; |
| SHEK KONG | 19 DEGREES; |
| TSUEN WAN HO KOON | 18 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 18 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 18 DEGREES; |
| HAPPY VALLEY | 18 DEGREES; |
| WONG TAI SIN | 18 DEGREES; |
| STANLEY | 17 DEGREES; |
| KWUN TONG | 17 DEGREES; |
| SHAM SHUI PO | 18 DEGREES; |
| KAI TAK RUNWAY PARK | 17 DEGREES; |
| YUEN LONG PARK | 19 DEGREES; |
| TAI MEI TUK | 17 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 16:02 HKT ON 18.02.2020

PRESS WEATHER NO. 118 - HOURLY READINGS

HOURLY READINGS

AT 5 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 17 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 51 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 1. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 17 DEGREES; |
| WONG CHUK HANG | 17 DEGREES; |
| TA KWU LING | 18 DEGREES; |
| LAU FAU SHAN | 17 DEGREES; |
| TAI PO | 16 DEGREES; |
| SHA TIN | 17 DEGREES; |
| TUEN MUN | 17 DEGREES; |
| TSEUNG KWAN O | 15 DEGREES; |
| SAI KUNG | 16 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 18 DEGREES; |
| SHEK KONG | 18 DEGREES; |
| TSUEN WAN HO KOON | 17 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 18 DEGREES; |
| HONG KONG PARK | 17 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 17 DEGREES; |
| HAPPY VALLEY | 17 DEGREES; |
| WONG TAI SIN | 18 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 16 DEGREES; |
| SHAM SHUI PO | 18 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 17 DEGREES; |
| TAI MEI TUK | 16 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 17:02 HKT ON 18.02.2020

PRESS WEATHER NO. 124 - HOURLY READINGS

HOURLY READINGS

AT 6 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 16 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 60 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 15 DEGREES; |
| WONG CHUK HANG | 16 DEGREES; |
| TA KWU LING | 16 DEGREES; |
| LAU FAU SHAN | 16 DEGREES; |
| TAI PO | 16 DEGREES; |
| SHA TIN | 15 DEGREES; |
| TUEN MUN | 16 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 17 DEGREES; |
| SHEK KONG | 17 DEGREES; |
| TSUEN WAN HO KOON | 16 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 16 DEGREES; |
| HONG KONG PARK | 16 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 16 DEGREES; |
| HAPPY VALLEY | 16 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 16 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 16 DEGREES; |
| TAI MEI TUK | 15 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 18:02 HKT ON 18.02.2020

PRESS WEATHER NO. 132 - HOURLY READINGS

HOURLY READINGS

AT 7 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 62 PER CENT.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 14 DEGREES; |
| LAU FAU SHAN | 15 DEGREES; |
| TAI PO | 13 DEGREES; |
| SHA TIN | 14 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 12 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 16 DEGREES; |
| SHEK KONG | 15 DEGREES; |
| TSUEN WAN HO KOON | 12 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 14 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 14 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 15 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 14 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 19:02 HKT ON 18.02.2020

PRESS WEATHER NO. 138 - HOURLY READINGS

HOURLY READINGS

AT 8 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 66 PER CENT.

PLEASE BE REMINDED THAT:

THE FIRE DANGER WARNING IS RED AND THE FIRE RISK IS EXTREME. THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 13 DEGREES; |
| TA KWU LING | 13 DEGREES; |
| LAU FAU SHAN | 14 DEGREES; |
| TAI PO | 13 DEGREES; |
| SHA TIN | 14 DEGREES; |
| TUEN MUN | 13 DEGREES; |
| TSEUNG KWAN O | 11 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 14 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 13 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 20:02 HKT ON 18.02.2020

PRESS WEATHER NO. 146 - HOURLY READINGS

HOURLY READINGS

AT 9 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 66 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 13 DEGREES; |
| TA KWU LING | 12 DEGREES; |
| LAU FAU SHAN | 13 DEGREES; |
| TAI PO | 13 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 13 DEGREES; |
| TSEUNG KWAN O | 11 DEGREES; |
| SAI KUNG | 12 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 14 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 12 DEGREES; |
| HONG KONG PARK | 13 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 13 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 12 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 21:02 HKT ON 18.02.2020

PRESS WEATHER NO. 152 - HOURLY READINGS

HOURLY READINGS

AT 10 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 68 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 12 DEGREES; |
| TSEUNG KWAN O | 11 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 11 DEGREES; |
| HONG KONG PARK | 13 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 13 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 12 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 22:02 HKT ON 18.02.2020

PRESS WEATHER NO. 156 - HOURLY READINGS

HOURLY READINGS

AT 11 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 71 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 15 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 10 DEGREES; |
| LAU FAU SHAN | 11 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 12 DEGREES; |
| TUEN MUN | 12 DEGREES; |
| TSEUNG KWAN O | 12 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 12 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 12 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 23:02 HKT ON 18.02.2020

PRESS WEATHER NO. 004 - HOURLY READINGS

HOURLY READINGS

AT MIDNIGHT AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 71 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 15 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 10 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 12 DEGREES; |
| TUEN MUN | 13 DEGREES; |
| TSEUNG KWAN O | 12 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 16 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 13 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 12 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 16 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 12 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 00:02 HKT ON 19.02.2020

PRESS WEATHER NO. 010 - HOURLY READINGS

HOURLY READINGS

AT 1 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 74 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 16 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 13 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 15 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 15 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 01:02 HKT ON 19.02.2020

PRESS WEATHER NO. 014 - HOURLY READINGS

HOURLY READINGS

AT 2 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 12 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 14 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 16 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 13 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 14 DEGREES; |
| HONG KONG PARK | 15 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 15 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 10 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 02:02 HKT ON 19.02.2020

PRESS WEATHER NO. 018 - HOURLY READINGS

HOURLY READINGS

AT 3 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 14 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 12 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 15 DEGREES; |
| SHAU KEI WAN | 15 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 15 DEGREES; |
| WONG TAI SIN | 14 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 03:02 HKT ON 19.02.2020

PRESS WEATHER NO. 024 - HOURLY READINGS

HOURLY READINGS

AT 4 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 79 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 12 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 12 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 14 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 14 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 13 DEGREES; |
| HAPPY VALLEY | 15 DEGREES; |
| WONG TAI SIN | 14 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 13 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 04:02 HKT ON 19.02.2020

PRESS WEATHER NO. 032 - HOURLY READINGS

HOURLY READINGS

AT 5 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 13 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 13 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 14 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 13 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 14 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 13 DEGREES; |
| SHAM SHUI PO | 13 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 11 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 05:02 HKT ON 19.02.2020

PRESS WEATHER NO. 044 - HOURLY READINGS

HOURLY READINGS

AT 6 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 14 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 13 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 12 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 13 DEGREES; |
| TSEUNG KWAN O | 12 DEGREES; |
| SAI KUNG | 12 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 14 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 12 DEGREES; |
| HONG KONG PARK | 13 DEGREES; |
| SHAU KEI WAN | 13 DEGREES; |
| KOWLOON CITY | 12 DEGREES; |
| HAPPY VALLEY | 13 DEGREES; |
| WONG TAI SIN | 13 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 13 DEGREES; |
| SHAM SHUI PO | 13 DEGREES; |
| KAI TAK RUNWAY PARK | 14 DEGREES; |
| YUEN LONG PARK | 12 DEGREES; |
| TAI MEI TUK | 12 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 06:02 HKT ON 19.02.2020

PRESS WEATHER NO. 052 - HOURLY READINGS

HOURLY READINGS

AT 7 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 14 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 79 PER CENT.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 13 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 12 DEGREES; |
| SHA TIN | 12 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 12 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 14 DEGREES; |
| SHEK KONG | 11 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 13 DEGREES; |
| SHAU KEI WAN | 13 DEGREES; |
| KOWLOON CITY | 12 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 13 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 13 DEGREES; |
| SHAM SHUI PO | 13 DEGREES; |
| KAI TAK RUNWAY PARK | 14 DEGREES; |
| YUEN LONG PARK | 12 DEGREES; |
| TAI MEI TUK | 13 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 07:02 HKT ON 19.02.2020

PRESS WEATHER NO. 060 - HOURLY READINGS

HOURLY READINGS

AT 8 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 14 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 77 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.1. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 14 DEGREES; |
| TA KWU LING | 11 DEGREES; |
| LAU FAU SHAN | 12 DEGREES; |
| TAI PO | 13 DEGREES; |
| SHA TIN | 13 DEGREES; |
| TUEN MUN | 14 DEGREES; |
| TSEUNG KWAN O | 13 DEGREES; |
| SAI KUNG | 13 DEGREES; |
| CHEUNG CHAU | 13 DEGREES; |
| CHEK LAP KOK | 15 DEGREES; |
| TSING YI | 14 DEGREES; |
| SHEK KONG | 12 DEGREES; |
| TSUEN WAN HO KOON | 11 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 13 DEGREES; |
| HONG KONG PARK | 14 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 13 DEGREES; |
| HAPPY VALLEY | 14 DEGREES; |
| WONG TAI SIN | 13 DEGREES; |
| STANLEY | 14 DEGREES; |
| KWUN TONG | 13 DEGREES; |
| SHAM SHUI PO | 14 DEGREES; |
| KAI TAK RUNWAY PARK | 14 DEGREES; |
| YUEN LONG PARK | 12 DEGREES; |
| TAI MEI TUK | 14 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 08:02 HKT ON 19.02.2020

PRESS WEATHER NO. 066 - HOURLY READINGS

HOURLY READINGS

AT 9 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 15 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 76 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.3. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE COLD WEATHER WARNING IS NOW IN FORCE. COLD WEATHER MIGHT CAUSE ADVERSE HEALTH EFFECTS. MEMBERS OF THE PUBLIC SHOULD TAKE CARE TO KEEP WARM.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 14 DEGREES; |
| WONG CHUK HANG | 15 DEGREES; |
| TA KWU LING | 14 DEGREES; |
| LAU FAU SHAN | 14 DEGREES; |
| TAI PO | 14 DEGREES; |
| SHA TIN | 15 DEGREES; |
| TUEN MUN | 15 DEGREES; |
| TSEUNG KWAN O | 14 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 15 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 15 DEGREES; |
| SHEK KONG | 14 DEGREES; |
| TSUEN WAN HO KOON | 13 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 15 DEGREES; |
| HONG KONG PARK | 15 DEGREES; |
| SHAU KEI WAN | 14 DEGREES; |
| KOWLOON CITY | 14 DEGREES; |
| HAPPY VALLEY | 15 DEGREES; |
| WONG TAI SIN | 15 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 14 DEGREES; |
| SHAM SHUI PO | 15 DEGREES; |
| KAI TAK RUNWAY PARK | 15 DEGREES; |
| YUEN LONG PARK | 15 DEGREES; |
| TAI MEI TUK | 15 DEGREES. |

BETWEEN MIDNIGHT AND 9 A.M. THE MINIMUM TEMPERATURE WAS 14.0 DEGREES CELSIUS AT THE HONG KONG OBSERVATORY.

DISPATCHED BY HONG KONG OBSERVATORY AT 09:02 HKT ON 19.02.2020

PRESS WEATHER NO. 082 - HOURLY READINGS

HOURLY READINGS

AT 10 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 16 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 69 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 1. THE INTENSITY OF UV RADIATION WAS LOW.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 16 DEGREES; |
| WONG CHUK HANG | 17 DEGREES; |
| TA KWU LING | 16 DEGREES; |
| LAU FAU SHAN | 16 DEGREES; |
| TAI PO | 16 DEGREES; |
| SHA TIN | 16 DEGREES; |
| TUEN MUN | 17 DEGREES; |
| TSEUNG KWAN O | 16 DEGREES; |
| SAI KUNG | 15 DEGREES; |
| CHEUNG CHAU | 17 DEGREES; |
| CHEK LAP KOK | 17 DEGREES; |
| TSING YI | 16 DEGREES; |
| SHEK KONG | 16 DEGREES; |
| TSUEN WAN HO KOON | 15 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 17 DEGREES; |
| HONG KONG PARK | 16 DEGREES; |
| SHAU KEI WAN | 16 DEGREES; |
| KOWLOON CITY | 17 DEGREES; |
| HAPPY VALLEY | 17 DEGREES; |
| WONG TAI SIN | 17 DEGREES; |
| STANLEY | 15 DEGREES; |
| KWUN TONG | 16 DEGREES; |
| SHAM SHUI PO | 17 DEGREES; |
| KAI TAK RUNWAY PARK | 16 DEGREES; |
| YUEN LONG PARK | 17 DEGREES; |
| TAI MEI TUK | 17 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 10:02 HKT ON 19.02.2020

3rd Impact Odour Monitoring



Third Operation Phase Odour Impact Monitoring Report

Impact Odour Monitoring - Hydrogen Sulphide Measurement for Tuen Mun
Area 54 Sewage Pumping Station | Hong Kong

0118/19/ED/0392 01 | 10 June 2020

For review

Mott Macdonald Hong Kong Limited

Executive Summary

Fugro Technical Services Limited (FTS) has been appointed by Mott MacDonald Hong Kong Limited, the Project Environmental Team (ET) of Tuen Mun Area 54 Sewage Pumping Station (TMA54SPS) to undertake the operation phase impact odour monitoring for the project.

This is the third monitoring report for the Odour Impact Monitoring of TMA54SPS, prepared by Fugro Technical Services Limited for submission to Mott MacDonald Hong Kong Limited.

This report presents the results obtained from the third operation phase impact odour monitoring carried out from 27 May 2020 to 28 May 2020 during the operation of TMA54SPS.

Exceedance of Action and Limit level at A1 and A5 were recorded. Exceedance of Action level at A2 was recorded.

In this reporting period, there were no records of odour complaint received.

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Appendices

Appendix A Monitoring Station

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Abbreviations

| | |
|------------------|---|
| ASRs | Air Sensitive Receivers |
| DSD | Drainage Services Department |
| LandsD | Lands Department |
| ET | Environmental Team |
| EM&A | Environmental Monitoring and Audit |
| H ₂ S | Hydrogen Sulphide |
| MMHK | Mott MacDonald Hong Kong Limited |
| FTS | Fugro Technical Services Limited |
| TMA54SPS | Tuen Mun Area 54 Sewage Pumping Station |
| OU | Odour Unit |

1. Introduction

1.1 Background

To cope with a shortfall in flat supply and a rise in housing demand, Tuen Mun Area 54 was identified by the Government as one of the areas having the potential for housing development. Thus, the New Territories West Development Office of Territory Development Department completed the "Planning and Development Study of Potential Housing Site in Area 54, Tuen Mun" in 1999. The Study put forward proposals on housing types, development parameters and planning layouts and assessed the development impacts on transport network, infrastructural capacities and environmental quality.

According to the Review of Tuen Mun and Tsing Yi Sewerage Master Plans, a new sewage pumping station is needed to convey sewage collected from Tuen Mun Area 54 to existing trunk sewers at Ming Kum Road. Other than Tuen Mun Area 54, TMA54SPS will also collect sewage from four recognized villages within Area 54 including Tsz Tin Tsuen, Po Tong Ha, Kei Lun Wai and Siu Hang Tsuen, and the proposed Tuen Mun North Sewage Pumping Station in Area 52. TMA54SPS has a capacity of about 90,000m³ per day; the design average dry weather flow is approximately 0.32m³/s.

TMA54SPS is located in the central part of Site 4A of Tuen Mun Area 54, north of Kei Lun Wai, south of Tsz Tin Tsuen and west of Site 2 of Tuen Mun Area 54. Site 4A is zoned "Government, Institution or Community" on the Tuen Mun Outline Zoning Plan No. S/TM/22 and is reserved for school development. **Appendix A** shows the location of TMA54SPS. Construction work for TMA54SPS is substantially completed and commissioning is anticipated in February 2018.

TMA54SPS is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of Environmental Impact Assessment (EIA) has been carried out to evaluate the environmental impacts associated with the project. An EIA Report and an Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department (EPD) on 12 November 2008. An Environmental Permit (EP) No. EP-381/2009 was issued on 4 January 2010 for TMA54SPS to the Civil Engineering and Development Department as the Permit Holder. The EP stipulates that an EM&A programme is required to ensure mitigation measures recommended in the EIA Report and the EM&A Manual are implemented during the construction and operation of TMA54SPS.

1.2 Project Description

FTS was commissioned to carry out operation phase odour impact monitoring for Mott MacDonald Hong Kong Limited for the project of TMA54SPS.

The EIA study of TMA54SPS has identified odour emissions from the sewage pumping station as the main potential air quality impact. To reduce odour emissions from the operation of TMA54SPS, it is recommended in the EIA Report that wet wells and screen chambers, the main

sources of odour, should be enclosed in a building structure. A deodorizing unit should also be installed; in order to treat vented air before it would be discharged into the atmosphere.

Furthermore, odour monitoring is required as per the EM&A Manual prior to and during the initial operation of TMA54SPS. The purpose of the odour impact monitoring is to indicate whether the odour concentration would be higher or lower than the baseline condition.

1.3 Monitoring Arrangement

According to the EM&A Manual, gaseous hydrogen sulphide (H₂S) is one of the main components of odour emissions. Ambient H₂S concentration can serve as a surrogate indicator for sewage odours as it can be readily monitored at the Air Sensitive Receivers (ASRs).

The odour impact monitoring shall be conducted in the first year upon commissioning of TMA54SPS. Odour Impact Monitoring would be conducted every three months for the first year of operation for TMA54SPS. However, due to some major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc), the commencement of the impact odour monitoring was deferred from March 2018 to October 2019. In addition, as discussed between DSD and EPD, measurement results from the impact odour monitoring will be directly compared with that obtained in the baseline odour monitoring without any adjustments / air modelling applied. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TMA54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months). Action and Limit Levels for Air Quality in operation phase are given in **Table 1.1**.

As regards the locations of odour monitoring stations, it is noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) are currently located in private lots which are not accessible for the ET to conduct the impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fall within CEDD's construction sites (i.e. Government land). As the monitoring station "A5" which falls within the boundary of private open car park, alternative location of odour monitoring station for A5 was proposed. It is noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, except that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" should be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach in determine the alternative location of odour monitoring station for A5, the new A5 is situated on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS. In view of the land resumption programme, the impact odour monitoring will be split into two phases. The 1st phase will include the odour monitoring at the locations A1, A2 and new A5.

Regarding the above requirements, a tentative monitoring programme is shown in **Table 1.2**.

Table 1.1 Action and Limit Levels for Air Quality (Operation Phase)

| Parameter | ASR | Action Level (ppb) | Limit Level (ppb) |
|-------------------------------|-----|--|---|
| H ₂ S | A1 | 2.5 | 2.5 |
| | A2 | 2.3 | 2.5 |
| | A5 | 2.5 | 2.5 |
| Incidents of odour complaints | - | Any incidence of odour complaint received through the Odour Complaint Register | Two or more complaints through the Odour Complaint Register within three months |

Note: Odour complaints are to be handled in accordance with the complaint registration system as mentioned in Section 2.26-2.29 of the EM&A Manual

Table 1.2 Tentative Monitoring Programme

For 1st phase impact odour monitoring at A1, A2 and new A5:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | November 2019 | February 2020 | May 2020 | August 2020 |

2. Odour Impact Monitoring

2.1 Methodology

The H₂S analyzer, type Jerome 631-X, was used for the impact monitoring. Grab air sample was drawn by built-in suction pump of the analyzer and passed through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample.

The details of the equipment used for odour impact monitoring is presented in **Table 2.1**

Table 2.1 Equipment for Baseline Odour Monitoring

| Equipment | Manufacturer / Model | Serial Number | Sensor Number | Calibration Date | Next Calibration Date |
|--------------------------------------|----------------------|---------------|---------------|------------------|-----------------------|
| Gold Film Hydrogen Sulphide Analyzer | JEROME X631 0003 | 2966 | 19-8-23-S4AS | 17 October 2019 | 16 October 2020 |

2.2 Sampling Duration

A 15-min integrated gaseous H₂S sample was collected every 3 hours for a period of 24 hours at monitoring locations, in which five readings were recorded at every monitoring station during each 3-hour session. Maximum and minimum H₂S levels for each monitoring station were recorded.

2.3 Monitoring Locations

H₂S measurements was taken at the sources and outside the premises of the identified ASRs as shown in **Table 2.2** and **Appendix A** show the descriptions and locations of the H₂S monitoring stations.

Table 2.2 Monitoring Locations

| Monitoring Station | Monitoring Location | Description |
|--------------------|--------------------------------|-------------|
| A1 ¹ | Planned Secondary School | ASR |
| A2 ¹ | Planned Primary School | ASR |
| A5 ¹ | Road connecting to TMA54SPS | ASR |
| SPS ¹ | Exhausted vent pipe of TMA54SP | Source |

Note: ¹ 1st phase odour impact monitoring.

According to the EM&A Manual, the monitoring was taken at a height of predicted worst level of the receivers in the EIA (10 m ground level). Photos showing the monitoring setup are included in **Appendix B**.

2.4 Quality Assurance / Quality Control

In order to ensure the analyzer is functioning properly, manual sensor regeneration and zero adjustment were performed before each set of odour monitoring.

Calibration of the analyzer is conducted every year at the laboratory of the manufacturer. The calibration certificates for the analyzers are shown in **Appendix F**.

3. Monitoring Results

3.1 Weather Conditions and Other Factors

The third monitoring event for the odour impact monitoring for TMA54SPS was conducted from 27 May 2020 (approx. 11:00 am) to 28 May 2020 (approx. 10:59 am).

The weather was mainly fine and wind was mainly mild to moderate during the monitoring event. An anemometer was used for measuring wind speed and wind direction presented in the site record in **Appendix D**. Meteorological conditions of 27 May 2020 and 28 May 2020 obtained from the nearest Hong Kong Observatory's Tuen Mun Weather Station are shown in **Appendix G**. Meteorological data was obtained as reference information for the analysis of the exceedance event.

No significant odour sources from the project site were observed during the impact monitoring period.

3.2 Monitoring Results

The monitoring results are summarised in **Table 3.1**. Details of monitoring data are shown in **Appendix C** (24-hour average, maximum and minimum H₂S concentration), **Appendix D** (site record) and **Appendix E** (data logger record).

Table 3.1 Summary of Monitoring Results

| Monitoring Station | Monitoring Location | 24-hour Average H ₂ S Concentration (ppb) |
|--------------------|--------------------------------|--|
| A1 ¹ | Planned Secondary School | 2.7 |
| A2 ¹ | Planned Primary School | 2.4 |
| A5 ¹ | Road connecting to TMA54SPS | 2.9 |
| SPS | Exhausted vent pipe of TMA54SP | 2.5 |

Note: ¹ Air Sensitive Receiver.

4. Odour Complaint

There were no complaints received in relation to the environmental impact during the reporting period.

5. Conclusion and Recommendations

The third monitoring event for the odour impact monitoring was carried out from 27 May 2020 to 28 May 2020.

Odour impact monitoring of hydrogen sulphide (H₂S) was conducted at four monitoring stations including three Air Sensitive Receivers around TMA54SPS and at source. Exceedance of Action and Limit level at A1 and A5 were recorded. Exceedance of Action level at A2 was recorded.

At A1, it is observed that 3 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A1 is higher than at source. Also, at Sample 2, 3 and 5, the H₂S

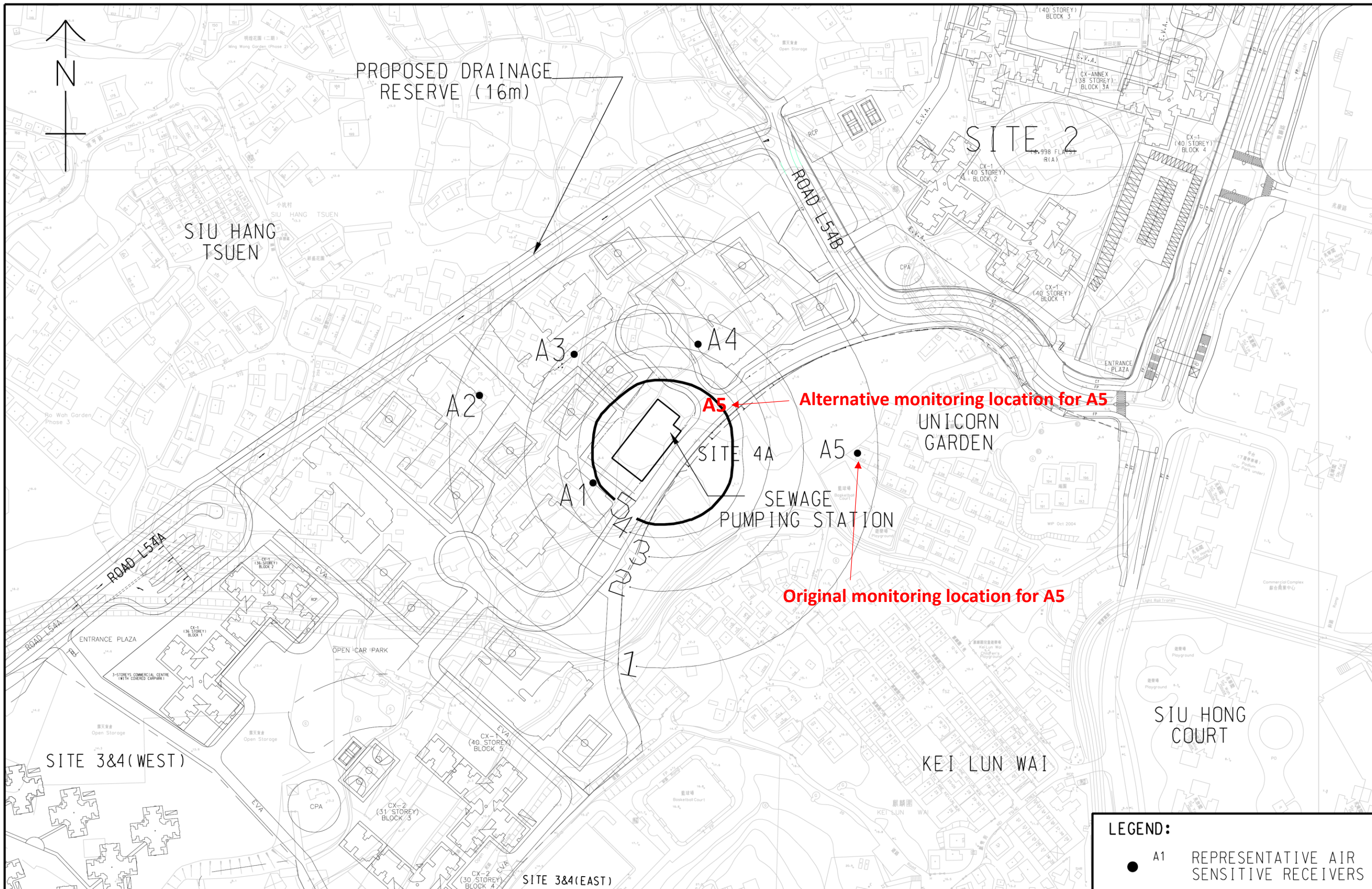
concentration at A1 is 23-45.8% higher than at source. Under the above observations, it is considered that the source is not the major contributor to H₂S concentration at A1 during sample 2, 3 and 5, and thus the exceedance at A1 is not project related.

At A2, it is observed that 3 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A2 is higher than at source. Also, at Sample 2 and 3, the H₂S concentration at A2 is 19 - 20% higher than at source. Under the above observations, it is considered that the source is not the major contributor to H₂S concentration at A2 during sample 2 and 3, and thus the exceedance at A2 is not project related.

At A5, it is observed that over half of the sampling events throughout the 24-hours monitoring period, the H₂S concentration at A5 is higher than at source. Also, at Sample 1, 2, 3 and 6, the H₂S concentration at A2 is 10-43% higher than at source. Under the above observations, it is considered that the source is not the major contributor to H₂S concentration at A5 during Sample 1, 2, 3 and 6, and thus the exceedance at A5 is not project related.

Appendix A

Monitoring Station



LEGEND:

| | | |
|---|----|--|
| ● | A1 | REPRESENTATIVE AIR SENSITIVE RECEIVERS |
|---|----|--|

| | | | |
|---------|----------|-------------|----------|
| SCALE | 1:2000 | DATE | FEB 2008 |
| CHECK | | DRAWN | SWKY |
| JOB No. | 60021938 | DRAWING No. | 3.3 |
| | | REV | - |



Appendix B

Photographs of Monitoring Stations



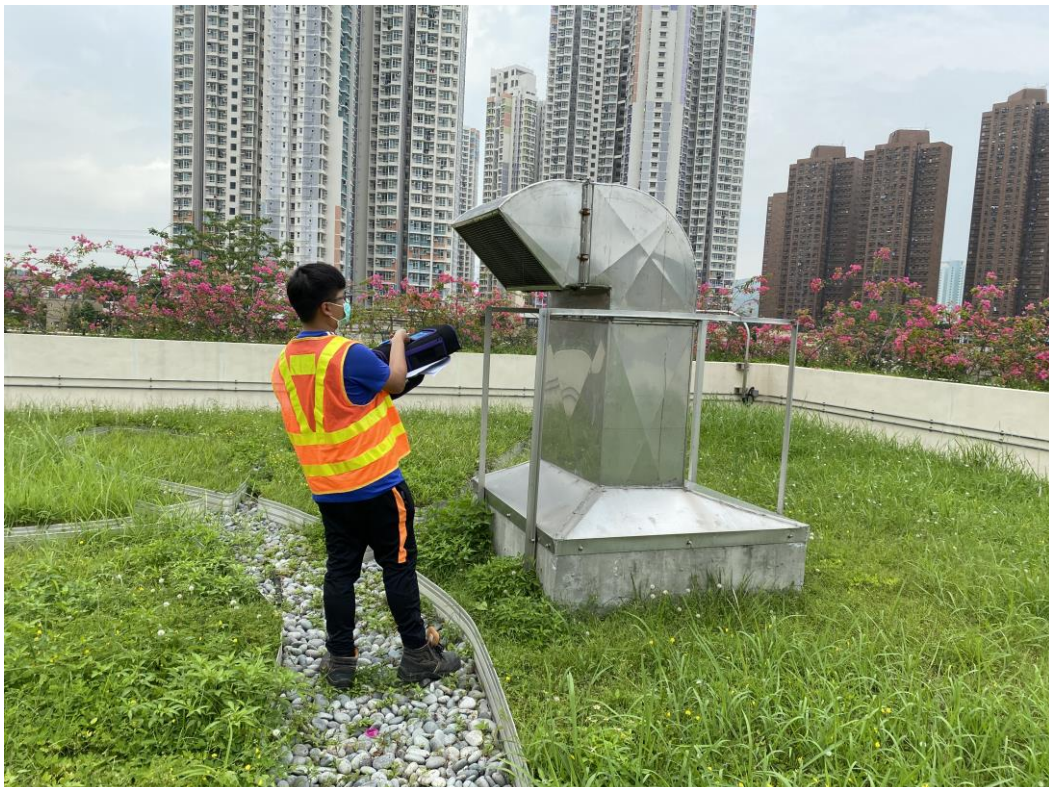
A1



A2



A5



Source

Appendix C

Monitoring Results

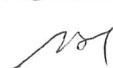

| Monitoring Station | Time Interval | 24-hour Average H ₂ S Concentration (ppb) 3 rd Event for Phase One Odour Impact Monitoring (27 – 28 May 2020) | | | | | | | |
|--------------------|---------------|--|-----------------|---------|---------|--------------|------------|-------------|------------|
| | | 15-minute integrated average | 24-hour average | Maximum | Minimum | Action Level | Exceedance | Limit Level | Exceedance |
| A1 | 1100-1400 | 2.6 | 2.7 | 4.8 | 1.6 | 2.5 | Y | 2.5 | Y |
| | 1400-1700 | 4.0 | | | | | | | |
| | 1700-2000 | 4.8 | | | | | | | |
| | 2000-2300 | 2.2 | | | | | | | |
| | 2300-0200 | 2.6 | | | | | | | |
| | 0200-0500 | 2.0 | | | | | | | |
| | 0500-0800 | 1.6 | | | | | | | |
| | 0800-1100 | 2.0 | | | | | | | |
| A2 | 1100-1400 | 3.2 | 2.4 | 3.2 | 1.6 | 2.3 | Y | 2.5 | N |
| | 1400-1700 | 3.0 | | | | | | | |
| | 1700-2000 | 3.2 | | | | | | | |
| | 2000-2300 | 2.2 | | | | | | | |
| | 2300-0200 | 2.2 | | | | | | | |
| | 0200-0500 | 1.6 | | | | | | | |
| | 0500-0800 | 2.2 | | | | | | | |
| | 0800-1100 | 1.6 | | | | | | | |
| A5 | 1100-1400 | 4.0 | 2.9 | 4.2 | 1.8 | 2.5 | Y | 2.5 | Y |
| | 1400-1700 | 4.2 | | | | | | | |
| | 1700-2000 | 3.6 | | | | | | | |
| | 2000-2300 | 2.8 | | | | | | | |
| | 2300-0200 | 2.2 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 2.2 | | | | | | | |
| | 0800-1100 | 1.8 | | | | | | | |
| SPS | 1100-1400 | 3.6 | 2.5 | 3.6 | 2.0 | N/A | N/A | N/A | N/A |
| | 1400-1700 | 2.4 | | | | | | | |
| | 1700-2000 | 2.6 | | | | | | | |
| | 2000-2300 | 2.8 | | | | | | | |
| | 2300-0200 | 2.0 | | | | | | | |
| | 0200-0500 | 2.0 | | | | | | | |
| | 0500-0800 | 2.2 | | | | | | | |
| | 0800-1100 | 2.2 | | | | | | | |

Appendix D

Site Record

Air Quality (H₂S) Monitoring Data Record Sheet



| General Information | | | | |
|---------------------|-------------|------------|----------------|-------------------------------------|
| Monitoring Station | A1 | | | |
| Date | 27/5/2020 | | | |
| Weather | Cloudy | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1150 | / | / | 0.004, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1205 | | | |
| Sample 2 | Start: 1431 | / | / | 0.004, 0.004, 0.004 0.004, 0.004 |
| | Stop: 1446 | | | |
| Sample 3 | Start: 1735 | 0.9 m/s | SE | 0.004, 0.004, 0.005 0.005, 0.006 |
| | Stop: 1750 | | | |
| Sample 4 | Start: 2035 | / | / | 0.002, 0.002, 0.002 0.002, 0.003 |
| | Stop: 2050 | | | |
| Sample 5 | Start: 2330 | / | / | 0.002, 0.002, 0.003 0.003, 0.003 |
| | Stop: 2345 | | | |
| Sample 6 | Start: 0231 | / | / | 0.001, 0.002, 0.002 0.003, 0.002 |
| | Stop: 0246 | | | |
| Sample 7 | Start: 0535 | / | / | 0.001, 0.001, 0.002 0.002, 0.002 |
| | Stop: 0550 | | | |
| Sample 8 | Start: 0825 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0840 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|--|--------------------------|
| Recorded by: | <u>Name & Designation</u> Ting Chan To | <u>Signature</u>  | <u>Date</u> 28/5/2020 |
| Checked by: | Vincent Lu EC |  | 28/5/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet



| General Information | | | | |
|---------------------|--------------|------------|----------------|-------------------------------------|
| Monitoring Station | AZ | | | |
| Date | 27/5 / 2020 | | | |
| Weather | cloudy | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 11:20 | 0.2 | E | 0.004, 0.004, 0.003 0.002, 0.003 |
| | Stop: 11:35 | | | |
| Sample 2 | Start: 14:00 | — | — | 0.004, 0.003, 0.003 0.002, 0.003 |
| | Stop: 14:15 | | | |
| Sample 3 | Start: 17:00 | 0.4 m/s | S | 0.005, 0.003, 0.003 0.003, 0.002 |
| | Stop: 17:15 | | | |
| Sample 4 | Start: 20:00 | — | — | 0.002, 0.002, 0.002 0.002, 0.003 |
| | Stop: 20:15 | | | |
| Sample 5 | Start: 23:00 | 0.3 | NE | 0.002, 0.002, 0.002 0.003, 0.002 |
| | Stop: 23:15 | | | |
| Sample 6 | Start: 02:00 | 0.6 | NE | 0.001, 0.002, 0.001 0.002, 0.002 |
| | Stop: 02:15 | | | |
| Sample 7 | Start: 05:00 | / | / | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 05:15 | | | |
| Sample 8 | Start: 08:00 | / | / | 0.002, 0.002 0.001, 0.001, 0.002 |
| | Stop: 08:15 | | | |
| Other Observations | | | | |

| | | | |
|--------------|-------------------------------|--|-------------|
| | Name & Designation | Signature | Date |
| Recorded by: | Ting Chan To |  | 28/5/2020 |
| Checked by: | Vincent Lu EC |  | 28/5/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

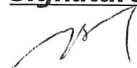

| General Information | | | | |
|---------------------|-------------|------------|----------------|-------------------------------------|
| Monitoring Station | S | | | |
| Date | 27/5/2020 | | | |
| Weather | Cloudy | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1233 | / | / | 0.004, 0.004, 0.003 0.003, 0.004 |
| | Stop: 1248 | | | |
| Sample 2 | Start: 1510 | 0.3 m/s | S | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1525 | | | |
| Sample 3 | Start: 1819 | / | / | 0.002, 0.002, 0.003 0.003, 0.003 |
| | Stop: 1834 | | | |
| Sample 4 | Start: 2120 | 0 | 0 | 0.004, 0.003, 0.004 0.002, 0.002 |
| | Stop: 2135 | | | |
| Sample 5 | Start: 0013 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0028 | | | |
| Sample 6 | Start: 0317 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0332 | | | |
| Sample 7 | Start: 0640 | / | / | 0.003, 0.002, 0.002 0.002, 0.002 |
| | Stop: 0655 | | | |
| Sample 8 | Start: 0905 | / | / | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 0920 | | | |
| Other Observations | | | | |

| | | | |
|--------------|--------------------------------------|--|--------------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Recorded by: | Ting An To |  | 28/5/2020 |
| Checked by: | Vincent Lu EC |  | 28/5/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---------------------|----------------------------|------------|----------------|-------------------------------------|
| Monitoring Station | AS | | | |
| Date | 27/5/2020 | | | |
| Weather | Cloudy | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 12 15 | 0.3 | SE | 0.005, 0.004, 0.004 0.003, 0.004 |
| | Stop: 12 30 | | | |
| Sample 2 | Start: 14 50 | 0.16 m/s | S | 0.005, 0.005, 0.005 0.003, 0.003 |
| | Stop: 15 05 | | | |
| Sample 3 | Start: 17 59 | 0.4 m/s | S | 0.003, 0.003, 0.002 0.005, 0.005 |
| | Stop: 18 14 | | | |
| Sample 4 | Start: 20 21 00 | 0 | 0 | 0.003, 0.003, 0.003 0.003, 0.002 |
| | Stop: 21 15 | | | |
| Sample 5 | Start: 23 55 | 0 | 0 | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 00 10 | | | |
| Sample 6 | Start: 02 55 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 03 10 | | | |
| Sample 7 | Start: 06 20 | / | / | 0.002, 0.001, 0.003 0.002, 0.003 |
| | Stop: 06 35 | | | |
| Sample 8 | Start: 08 46 | / | / | 0.002, 0.002, 0.003 0.001, 0.001 |
| | Stop: 09 01 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|--|--------------------------|
| Recorded by: | <u>Name & Designation</u> Ting Chan T. | <u>Signature</u>  | <u>Date</u> 28/5/2020 |
| Checked by: | Vincent Lu EC |  | 28/5/2020 |

Appendix E

Data Logger Record

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | | RESULT (ppm) |
|----|------------|------------|-------|----------------|
| 1 | 五月-27-2020 | 11:20:46am | 0.004 | A2 |
| 2 | 五月-27-2020 | 11:23:46am | 0.004 | |
| 3 | 五月-27-2020 | 11:26:46am | 0.003 | |
| 4 | 五月-27-2020 | 11:29:46am | 0.002 | |
| 5 | 五月-27-2020 | 11:32:46am | 0.003 | |
| 6 | 五月-27-2020 | 11:50:33am | /III | End Of Session |
| 7 | 五月-27-2020 | 11:50:33am | 0.004 | A1 |
| 8 | 五月-27-2020 | 11:53:33am | 0.003 | |
| 9 | 五月-27-2020 | 11:56:33am | 0.002 | |
| 10 | 五月-27-2020 | 11:59:33am | 0.002 | |
| 11 | 五月-27-2020 | 12:02:33pm | 0.002 | |
| 12 | 五月-27-2020 | 12:15:07pm | /III | End Of Session |
| 13 | 五月-27-2020 | 12:18:07pm | 0.005 | A5 |
| 14 | 五月-27-2020 | 12:21:07pm | 0.004 | |
| 15 | 五月-27-2020 | 12:24:07pm | 0.004 | |
| 16 | 五月-27-2020 | 12:27:07pm | 0.003 | |
| 17 | 五月-27-2020 | 12:30:07pm | 0.004 | |
| 18 | 五月-27-2020 | 12:33:31pm | /III | End Of Session |
| 19 | 五月-27-2020 | 12:33:31pm | 0.004 | Source |
| 20 | 五月-27-2020 | 12:36:31pm | 0.004 | |
| 21 | 五月-27-2020 | 12:39:31pm | 0.003 | |
| 22 | 五月-27-2020 | 12:42:31pm | 0.003 | |
| 23 | 五月-27-2020 | 12:45:31pm | 0.004 | |
| 24 | 五月-27-2020 | 02:00:44pm | /III | End Of Session |
| 25 | 五月-27-2020 | 02:00:44pm | 0.004 | A2 |
| 24 | 五月-27-2020 | 02:03:44pm | 0.003 | |
| 25 | 五月-27-2020 | 02:06:44pm | 0.003 | |
| 28 | 五月-27-2020 | 02:09:44pm | 0.002 | |
| 29 | 五月-27-2020 | 02:12:44pm | 0.003 | |
| 30 | 五月-27-2020 | 02:31:13pm | /III | End Of Session |
| 31 | 五月-27-2020 | 02:31:13pm | 0.004 | A1 |
| 32 | 五月-27-2020 | 02:34:13pm | 0.004 | |
| 33 | 五月-27-2020 | 02:37:13pm | 0.004 | |
| 34 | 五月-27-2020 | 02:40:13pm | 0.004 | |
| 35 | 五月-27-2020 | 02:43:13pm | 0.004 | |
| 36 | 五月-27-2020 | 02:50:22pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|----|------------|------------|--------------|----------------|
| 37 | 五月-27-2020 | 02:50:22pm | 0.005 | A5 |
| 38 | 五月-27-2020 | 02:53:22pm | 0.005 | |
| 39 | 五月-27-2020 | 02:56:22pm | 0.005 | |
| 40 | 五月-27-2020 | 02:59:22pm | 0.003 | |
| 41 | 五月-27-2020 | 03:02:22pm | 0.003 | |
| 42 | 五月-27-2020 | 03:10:39pm | /III | End Of Session |
| 43 | 五月-27-2020 | 03:10:39pm | 0.003 | Source |
| 44 | 五月-27-2020 | 03:13:39pm | 0.003 | |
| 45 | 五月-27-2020 | 03:16:39pm | 0.002 | |
| 46 | 五月-27-2020 | 03:19:39pm | 0.002 | |
| 47 | 五月-27-2020 | 03:22:39pm | 0.002 | |
| 48 | 五月-27-2020 | 05:00:28pm | /III | End Of Session |
| 49 | 五月-27-2020 | 05:00:28pm | 0.005 | A2 |
| 50 | 五月-27-2020 | 05:03:28pm | 0.003 | |
| 51 | 五月-27-2020 | 05:06:28pm | 0.003 | |
| 52 | 五月-27-2020 | 05:09:28pm | 0.003 | |
| 53 | 五月-27-2020 | 05:12:28pm | 0.002 | |
| 54 | 五月-27-2020 | 05:35:44pm | /III | End Of Session |
| 55 | 五月-27-2020 | 05:35:44pm | 0.004 | A1 |
| 56 | 五月-27-2020 | 05:38:44pm | 0.004 | |
| 57 | 五月-27-2020 | 05:41:44pm | 0.005 | |
| 58 | 五月-27-2020 | 05:44:44pm | 0.005 | |
| 59 | 五月-27-2020 | 05:47:44pm | 0.006 | |
| 60 | 五月-27-2020 | 05:59:24pm | /III | End Of Session |
| 61 | 五月-27-2020 | 05:59:24pm | 0.003 | A5 |
| 62 | 五月-27-2020 | 06:02:24pm | 0.003 | |
| 63 | 五月-27-2020 | 06:05:24pm | 0.002 | |
| 64 | 五月-27-2020 | 06:08:24pm | 0.005 | |
| 65 | 五月-27-2020 | 06:11:24pm | 0.005 | |
| 66 | 五月-27-2020 | 06:19:06pm | /III | End Of Session |
| 67 | 五月-27-2020 | 06:19:06pm | 0.002 | Source |
| 68 | 五月-27-2020 | 06:22:06pm | 0.002 | |
| 69 | 五月-27-2020 | 06:25:06pm | 0.003 | |
| 70 | 五月-27-2020 | 06:28:06pm | 0.003 | |
| 71 | 五月-27-2020 | 06:31:06pm | 0.003 | |
| 72 | 五月-27-2020 | 08:00:29pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | | RESULT (ppm) |
|-----|------------|------------|-------|----------------|
| 73 | 五月-27-2020 | 08:00:29pm | 0.002 | A2 |
| 74 | 五月-27-2020 | 08:03:29pm | 0.002 | |
| 75 | 五月-27-2020 | 08:06:29pm | 0.002 | |
| 76 | 五月-27-2020 | 08:09:29pm | 0.002 | |
| 77 | 五月-27-2020 | 08:12:29pm | 0.003 | |
| 78 | 五月-27-2020 | 08:35:41pm | /III | End Of Session |
| 79 | 五月-27-2020 | 08:35:41pm | 0.002 | A1 |
| 80 | 五月-27-2020 | 08:38:41pm | 0.002 | |
| 81 | 五月-27-2020 | 08:41:41pm | 0.002 | |
| 82 | 五月-27-2020 | 08:44:41pm | 0.002 | |
| 83 | 五月-27-2020 | 08:47:41pm | 0.003 | |
| 84 | 五月-27-2020 | 09:00:24pm | /III | End Of Session |
| 85 | 五月-27-2020 | 09:00:24pm | 0.003 | A5 |
| 86 | 五月-27-2020 | 09:03:24pm | 0.003 | |
| 87 | 五月-27-2020 | 09:06:24pm | 0.003 | |
| 88 | 五月-27-2020 | 09:09:24pm | 0.003 | |
| 89 | 五月-27-2020 | 09:12:24pm | 0.002 | |
| 90 | 五月-27-2020 | 09:20:07pm | /III | End Of Session |
| 91 | 五月-27-2020 | 09:20:07pm | 0.004 | Source |
| 92 | 五月-27-2020 | 09:23:07pm | 0.003 | |
| 93 | 五月-27-2020 | 09:26:07pm | 0.003 | |
| 94 | 五月-27-2020 | 09:29:07pm | 0.002 | |
| 95 | 五月-27-2020 | 09:32:07pm | 0.002 | |
| 96 | 五月-27-2020 | 11:00:09pm | /III | End Of Session |
| 97 | 五月-27-2020 | 11:00:09pm | 0.002 | A2 |
| 98 | 五月-27-2020 | 11:03:09pm | 0.002 | |
| 99 | 五月-27-2020 | 11:06:09pm | 0.002 | |
| 100 | 五月-27-2020 | 11:09:09pm | 0.003 | |
| 101 | 五月-27-2020 | 11:12:09pm | 0.002 | |
| 102 | 五月-27-2020 | 11:30:57pm | /III | End Of Session |
| 103 | 五月-27-2020 | 11:30:57pm | 0.002 | A1 |
| 104 | 五月-27-2020 | 11:33:57pm | 0.002 | |
| 105 | 五月-27-2020 | 11:36:57pm | 0.003 | |
| 106 | 五月-27-2020 | 11:39:57pm | 0.003 | |
| 107 | 五月-27-2020 | 11:42:57pm | 0.003 | |
| 108 | 五月-27-2020 | 11:55:04pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|--------------|----------------|
| 109 | 五月-27-2020 | 11:55:04pm | 0.002 | A5 |
| 110 | 五月-27-2020 | 11:58:04pm | 0.003 | |
| 111 | 五月-28-2020 | 00:01:04am | 0.002 | |
| 112 | 五月-28-2020 | 00:04:04am | 0.002 | |
| 113 | 五月-28-2020 | 00:07:04am | 0.002 | |
| 114 | 五月-28-2020 | 00:13:42am | /III | End Of Session |
| 115 | 五月-28-2020 | 00:13:42am | 0.002 | Source |
| 116 | 五月-28-2020 | 00:16:42am | 0.002 | |
| 117 | 五月-28-2020 | 00:19:42am | 0.002 | |
| 118 | 五月-28-2020 | 00:22:42am | 0.002 | |
| 119 | 五月-28-2020 | 00:25:42am | 0.002 | |
| 120 | 五月-28-2020 | 02:00:05am | /III | End Of Session |
| 121 | 五月-28-2020 | 02:00:05am | 0.001 | A2 |
| 122 | 五月-28-2020 | 02:03:05am | 0.002 | |
| 123 | 五月-28-2020 | 02:06:05am | 0.001 | |
| 124 | 五月-28-2020 | 02:09:05am | 0.002 | |
| 125 | 五月-28-2020 | 02:12:05am | 0.002 | |
| 126 | 五月-28-2020 | 02:31:31am | /III | End Of Session |
| 127 | 五月-28-2020 | 02:31:31am | 0.001 | A1 |
| 128 | 五月-28-2020 | 02:34:31am | 0.002 | |
| 129 | 五月-28-2020 | 02:37:31am | 0.002 | |
| 130 | 五月-28-2020 | 02:40:31am | 0.003 | |
| 131 | 五月-28-2020 | 02:43:31am | 0.002 | |
| 132 | 五月-28-2020 | 02:55:53am | /III | End Of Session |
| 133 | 五月-28-2020 | 02:55:53am | 0.003 | A5 |
| 134 | 五月-28-2020 | 02:58:53am | 0.003 | |
| 135 | 五月-28-2020 | 03:01:53am | 0.002 | |
| 136 | 五月-28-2020 | 03:04:53am | 0.002 | |
| 137 | 五月-28-2020 | 03:07:53am | 0.002 | |
| 138 | 五月-28-2020 | 03:17:38am | /III | End Of Session |
| 139 | 五月-28-2020 | 03:17:38am | 0.002 | Source |
| 140 | 五月-28-2020 | 03:20:38am | 0.002 | |
| 141 | 五月-28-2020 | 03:23:38am | 0.002 | |
| 142 | 五月-28-2020 | 03:26:38am | 0.002 | |
| 143 | 五月-28-2020 | 03:29:38am | 0.002 | |
| 144 | 五月-28-2020 | 05:00:21am | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|--------------|----------------|
| 145 | 五月-28-2020 | 05:00:21am | 0.002 | A2 |
| 146 | 五月-28-2020 | 05:03:21am | 0.003 | |
| 147 | 五月-28-2020 | 05:06:21am | 0.002 | |
| 148 | 五月-28-2020 | 05:09:21am | 0.002 | |
| 149 | 五月-28-2020 | 05:12:21am | 0.002 | |
| 150 | 五月-28-2020 | 05:35:06am | /III | End Of Session |
| 151 | 五月-28-2020 | 05:35:06am | 0.001 | A1 |
| 152 | 五月-28-2020 | 05:38:06am | 0.001 | |
| 153 | 五月-28-2020 | 05:41:06am | 0.002 | |
| 154 | 五月-28-2020 | 05:44:06am | 0.002 | |
| 155 | 五月-28-2020 | 05:47:06am | 0.002 | |
| 156 | 五月-28-2020 | 06:20:09am | /III | End Of Session |
| 157 | 五月-28-2020 | 06:20:09am | 0.002 | A5 |
| 158 | 五月-28-2020 | 06:23:09am | 0.001 | |
| 159 | 五月-28-2020 | 06:26:09am | 0.003 | |
| 160 | 五月-28-2020 | 06:29:09am | 0.002 | |
| 161 | 五月-28-2020 | 06:32:09am | 0.003 | |
| 162 | 五月-28-2020 | 06:40:14am | /III | End Of Session |
| 163 | 五月-28-2020 | 06:40:14am | 0.003 | Source |
| 164 | 五月-28-2020 | 06:43:14am | 0.002 | |
| 165 | 五月-28-2020 | 06:46:14am | 0.002 | |
| 166 | 五月-28-2020 | 06:49:14am | 0.002 | |
| 167 | 五月-28-2020 | 06:52:14am | 0.002 | |
| 168 | 五月-28-2020 | 08:00:06am | /III | End Of Session |
| 169 | 五月-28-2020 | 08:00:06am | 0.002 | A2 |
| 170 | 五月-28-2020 | 08:03:06am | 0.002 | |
| 171 | 五月-28-2020 | 08:06:06am | 0.001 | |
| 172 | 五月-28-2020 | 08:09:06am | 0.001 | |
| 173 | 五月-28-2020 | 08:12:06am | 0.002 | |
| 174 | 五月-28-2020 | 08:25:30am | /III | End Of Session |
| 175 | 五月-28-2020 | 08:25:30am | 0.002 | A1 |
| 176 | 五月-28-2020 | 08:28:30am | 0.002 | |
| 177 | 五月-28-2020 | 08:31:30am | 0.002 | |
| 178 | 五月-28-2020 | 08:34:30am | 0.002 | |
| 179 | 五月-28-2020 | 08:37:30am | 0.002 | |
| 180 | 五月-28-2020 | 08:46:51am | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 五月-28-2020 12:12am
Alarm Setpoint: 0 (ppm)

| | | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|-------|----------------|--|
| 181 | 五月-28-2020 | 08:46:51am | 0.002 | A5 | |
| 182 | 五月-28-2020 | 08:49:51am | 0.002 | | |
| 183 | 五月-28-2020 | 08:52:51am | 0.003 | | |
| 184 | 五月-28-2020 | 08:55:51am | 0.001 | | |
| 185 | 五月-28-2020 | 08:58:51am | 0.001 | | |
| 186 | 五月-28-2020 | 09:05:19am | /III | End Of Session | |
| 187 | 五月-28-2020 | 09:05:19am | 0.002 | Source | |
| 188 | 五月-28-2020 | 09:08:19am | 0.003 | | |
| 189 | 五月-28-2020 | 09:11:19am | 0.002 | | |
| 190 | 五月-28-2020 | 09:14:19am | 0.002 | | |
| 191 | 五月-28-2020 | 09:17:19am | 0.002 | | |

Readings: 160
Minimum: 0.001
Maximum: 0.006
Average: 0.00263
SD: 0.001

Appendix F

Calibration Certificates



3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 | (f) 602.281.1745 | azic.com

Certification of Instrument Calibration

Guyline (Asia) Ltd
Rm 1611, Eastern Harbour Centre
Quarry Bay,

RMA # 2694299

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2966, with Sensor Number 19-8-23-S4AS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

| | | Actual | Calibration Gas | Allowable Range |
|------------------|---------|---------------|-----------------|-----------------|
| Incoming: | Range 1 | 0.094 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 11.33 | | <5% |
| Outgoing: | Range 1 | 0.518 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 2.11 | | <5% |

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 17-Oct-2019 Recalibration Date: 16-Oct-2020

Temperature °F: 70.60 % Relative Humidity: 32.90

Approved By: Jackie Kreitlow
Title: Jackie Kreitlow - Quality Control

Date Approved: 18-Oct-2019

Equipment Used:

- H2S Calibration Standard:** CC-75664 NIST#: 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021
- Mass Flow Controller B:** 124604 NIST#: 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Mass Flow Controller D:** 124602 NIST#: 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Digital Multimeter:** 74620505 NIST#: 7003079
Calibration Date: 05-Apr-2019 **Calibration Date Due:** 05-Apr-2020
- Flowmeter:** US04126032 NIST#: 1813; 1817; 1796
Calibration Date: 12-Aug-2019 **Calibration Date Due:** 12-Aug-2020

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.

Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.

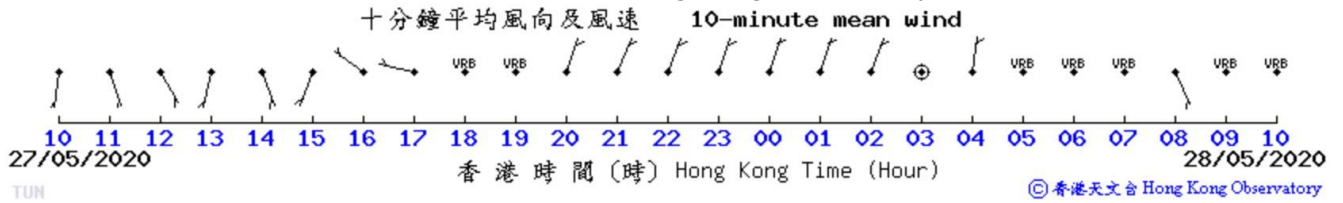
As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

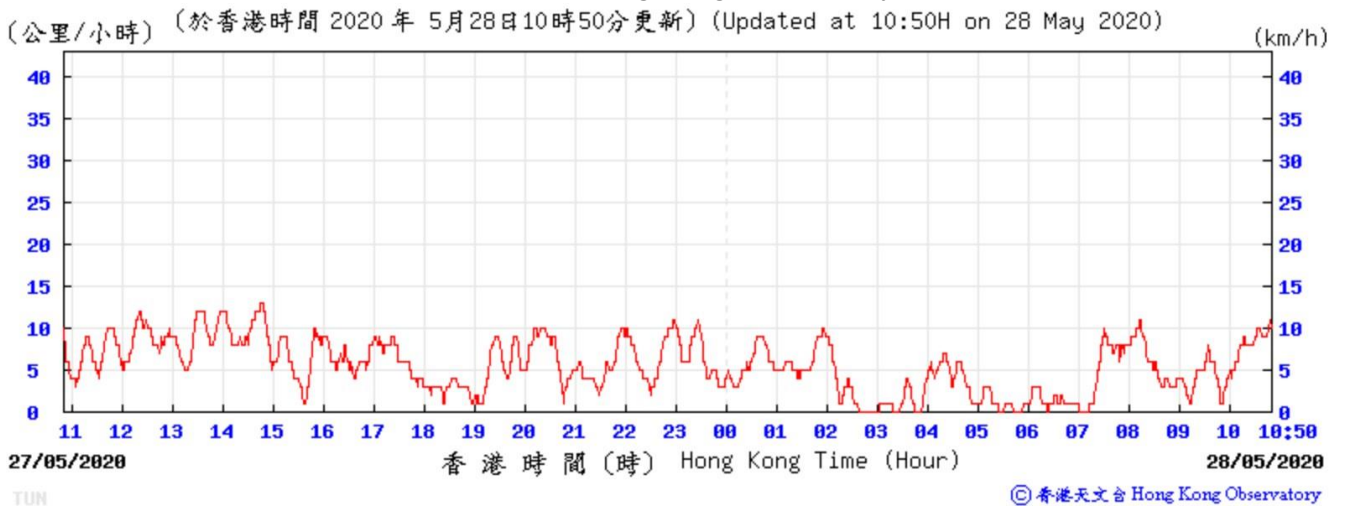
Appendix G

Meteorological Conditions

10-Minute Mean Wind Direction at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



10-Minute Mean Wind Speed at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



Meteorological conditions during the third operation phase odour impact monitoring

| Date | Time | Weather Parameters | | |
|-------------|------|--------------------|----------------|----------------------|
| | | Temperature | Wind Direction | Wind Speed (km/hour) |
| 27 May 2020 | 1100 | 29 | SE | 4.0 |
| | 1200 | 29 | SE | 5.0 |
| | 1300 | 30 | SW | 9.0 |
| | 1400 | 30 | SE | 12.0 |
| | 1500 | 29 | SW | 5.0 |
| | 1600 | 30 | NW | 9.0 |
| | 1700 | 29 | NW | 9.0 |
| | 1800 | 29 | -- | 3.0 |
| | 1900 | 28 | -- | 1.0 |
| | 2000 | 27 | NE | 5.0 |
| | 2100 | 27 | NE | 5.0 |
| | 2200 | 27 | NE | 10.0 |
| | 2300 | 26 | NE | 10.0 |
| | 2400 | 26 | NE | 4.0 |
| 28 May 2020 | 0100 | 26 | NE | 5.0 |
| | 0200 | 26 | NE | 9.0 |
| | 0300 | 25 | -- | 1.0 |
| | 0400 | 26 | NE | 5.0 |
| | 0500 | 26 | -- | 1.0 |
| | 0600 | 26 | -- | 1.0 |
| | 0700 | 26 | -- | 0.0 |
| | 0800 | 27 | SE | 8.0 |
| | 0900 | 28 | -- | 4.0 |
| | 1000 | 28 | -- | 5.0 |

PRESS WEATHER NO. 075 - HOURLY READINGS

HOURLY READINGS

AT 11 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 4. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING WAS ISSUED AT 11:05 A.M. IT WILL REMAIN EFFECTIVE UNTIL 1:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER NEW TERRITORIES.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 31 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 30 DEGREES; |
| SAI KUNG | 31 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 29 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 31 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 31 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 30 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 30 DEGREES; |
| TAI MEI TUK | 31 DEGREES. |

BETWEEN 9:45 AND 10:45 A.M. , THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|-----------|------------|
| TAI PO | 0 TO 6 MM; |
| TSUEN WAN | 0 TO 2 MM; |
| YUEN LONG | 0 TO 2 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 11:06 HKT ON 27.05.2020

PRESS WEATHER NO. 081 - HOURLY READINGS

HOURLY READINGS

AT NOON AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 1:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER NEW TERRITORIES.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 29 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 31 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 28 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 28 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 29 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

BETWEEN 10:45 AND 11:45 A.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|----------------|-------------|
| NORTH DISTRICT | 0 TO 12 MM; |
| TAI PO | 0 TO 9 MM; |
| YUEN LONG | 0 TO 7 MM; |
| SAI KUNG | 0 TO 3 MM; |
| SHA TIN | 0 TO 1 MM. |

0.1 MILLIMETRE OF RAINFALL WAS RECORDED AT THE HONG KONG OBSERVATORY BETWEEN MIDNIGHT LAST NIGHT AND MIDDAY TODAY. DISPATCHED BY HONG KONG OBSERVATORY AT 12:02 HKT ON 27.05.2020

PRESS WEATHER NO. 093 - HOURLY READINGS

HOURLY READINGS

AT 1 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 80 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 4. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 3:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER NEW TERRITORIES.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 30 DEGREES; |
| TSEUNG KWAN O | 30 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 31 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 29 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 30 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 30 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 30 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

BETWEEN 11:45 A.M. AND 12:45 P.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|----------------|------------|
| TAI PO | 0 TO 5 MM; |
| NORTH DISTRICT | 0 TO 4 MM; |
| SAI KUNG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 13:02 HKT ON 27.05.2020

PRESS WEATHER NO. 109 - HOURLY READINGS

HOURLY READINGS

AT 3 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 79 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 4:30 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER HONG KONG.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 31 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 31 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 31 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 30 DEGREES; |
| SHEK KONG | 31 DEGREES; |
| TSUEN WAN HO KOON | 29 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 30 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 31 DEGREES; |
| WONG TAI SIN | 30 DEGREES; |
| STANLEY | 30 DEGREES; |
| KWUN TONG | 30 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 30 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

BETWEEN 1:45 AND 2:45 P.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|------------------|-------------|
| TAI PO | 0 TO 10 MM; |
| ISLANDS DISTRICT | 0 TO 9 MM; |
| NORTH DISTRICT | 0 TO 6 MM; |
| YUEN LONG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 15:02 HKT ON 27.05.2020

PRESS WEATHER NO. 117 - HOURLY READINGS

HOURLY READINGS

AT 4 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 74 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 4. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 5:30 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER NEW TERRITORIES EAST.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 30 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 31 DEGREES; |
| TUEN MUN | 30 DEGREES; |
| TSEUNG KWAN O | 31 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 31 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 30 DEGREES; |
| TSUEN WAN HO KOON | 29 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 31 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 31 DEGREES; |
| KOWLOON CITY | 31 DEGREES; |
| HAPPY VALLEY | 31 DEGREES; |
| WONG TAI SIN | 31 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 32 DEGREES; |
| SHAM SHUI PO | 30 DEGREES; |
| KAI TAK RUNWAY PARK | 32 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

BETWEEN 2:45 AND 3:45 P.M., LIGHTNING WAS DETECTED WITHIN NEW TERRITORIES EAST. THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|----------------|------------|
| NORTH DISTRICT | 0 TO 6 MM; |
| TAI PO | 0 TO 2 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 16:02 HKT ON 27.05.2020

PRESS WEATHER NO. 129 - HOURLY READINGS

HOURLY READINGS

AT 5 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 75 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 5:30 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER NEW TERRITORIES EAST.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 30 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 30 DEGREES; |
| TSUEN WAN HO KOON | 28 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 30 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 30 DEGREES; |
| HAPPY VALLEY | 31 DEGREES; |
| WONG TAI SIN | 31 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 31 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 27 DEGREES. |

BETWEEN 3:45 AND 4:45 P.M. , LIGHTNING WAS DETECTED WITHIN NEW TERRITORIES EAST. THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|----------------|------------|
| NORTH DISTRICT | 0 TO 3 MM; |
| TSUEN WAN | 0 TO 3 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 17:02 HKT ON 27.05.2020

PRESS WEATHER NO. 137 - HOURLY READINGS

HOURLY READINGS

AT 6 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 76 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.4. THE INTENSITY OF UV RADIATION WAS LOW.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | // DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | // DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 29 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | // DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 29 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | // DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 30 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 29 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 30 DEGREES; |
| TAI MEI TUK | 27 DEGREES. |

BETWEEN 4:45 AND 5:45 P.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|----------------|------------|
| NORTH DISTRICT | 0 TO 4 MM; |
| SHA TIN | 0 TO 1 MM; |
| YUEN LONG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 18:02 HKT ON 27.05.2020

PRESS WEATHER NO. 145 - HOURLY READINGS

HOURLY READINGS

AT 7 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 28 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 28 DEGREES; |
| TAI PO | 27 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 27 DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 28 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 28 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 28 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 29 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 19:02 HKT ON 27.05.2020

PRESS WEATHER NO. 151 - HOURLY READINGS

HOURLY READINGS

AT 8 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 28 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 27 DEGREES; |
| TAI PO | 27 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 27 DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

BETWEEN 6:45 AND 7:45 P.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|------------|------------|
| YUEN LONG | 0 TO 9 MM; |
| SHA TIN | 0 TO 4 MM; |
| KWAI TSING | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 20:02 HKT ON 27.05.2020

PRESS WEATHER NO. 159 - HOURLY READINGS

HOURLY READINGS

AT 9 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 28 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 27 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 27 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 21:02 HKT ON 27.05.2020

PRESS WEATHER NO. 165 - HOURLY READINGS

HOURLY READINGS

AT 10 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 27 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 22:02 HKT ON 27.05.2020

PRESS WEATHER NO. 169 - HOURLY READINGS

HOURLY READINGS

AT 11 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 27 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 23:02 HKT ON 27.05.2020

PRESS WEATHER NO. 004 - HOURLY READINGS

HOURLY READINGS

AT MIDNIGHT AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 27 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 26 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 00:02 HKT ON 28.05.2020

PRESS WEATHER NO. 010 - HOURLY READINGS

HOURLY READINGS

AT 1 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 01:02 HKT ON 28.05.2020

PRESS WEATHER NO. 014 - HOURLY READINGS

HOURLY READINGS

AT 2 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 25 DEGREES; |
| SHA TIN | 26 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 25 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 25 DEGREES; |
| CHEK LAP KOK | 27 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 26 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 27 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 25 DEGREES. |

BETWEEN 0:45 AND 1:45 A.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|-----------|------------|
| TAI PO | 0 TO 1 MM; |
| TSUEN WAN | 0 TO 1 MM; |
| YUEN LONG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 02:02 HKT ON 28.05.2020

PRESS WEATHER NO. 018 - HOURLY READINGS

HOURLY READINGS

AT 3 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 84 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 26 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 25 DEGREES; |
| SHA TIN | 25 DEGREES; |
| TUEN MUN | 25 DEGREES; |
| TSEUNG KWAN O | 25 DEGREES; |
| SAI KUNG | 26 DEGREES; |
| CHEUNG CHAU | 25 DEGREES; |
| CHEK LAP KOK | 27 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 25 DEGREES; |
| TSUEN WAN HO KOON | 24 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 25 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 26 DEGREES; |
| HAPPY VALLEY | 26 DEGREES; |
| WONG TAI SIN | 26 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 26 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 25 DEGREES; |
| TAI MEI TUK | 25 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 03:02 HKT ON 28.05.2020

PRESS WEATHER NO. 024 - HOURLY READINGS

HOURLY READINGS

AT 4 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 84 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 27 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 25 DEGREES; |
| SHA TIN | 26 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 25 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 25 DEGREES; |
| CHEK LAP KOK | 27 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 25 DEGREES; |
| TSUEN WAN HO KOON | 24 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 25 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 26 DEGREES; |
| HAPPY VALLEY | 27 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 26 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 26 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 25 DEGREES; |
| TAI MEI TUK | 25 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 04:02 HKT ON 28.05.2020

PRESS WEATHER NO. 028 - HOURLY READINGS

HOURLY READINGS

AT 5 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 87 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 26 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 25 DEGREES; |
| LAU FAU SHAN | 25 DEGREES; |
| TAI PO | 25 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 25 DEGREES; |
| CHEK LAP KOK | 27 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 25 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 26 DEGREES; |
| HAPPY VALLEY | 27 DEGREES; |
| WONG TAI SIN | 26 DEGREES; |
| STANLEY | 26 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 26 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 25 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 05:02 HKT ON 28.05.2020

PRESS WEATHER NO. 044 - HOURLY READINGS

HOURLY READINGS

AT 7 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 93 PER CENT.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 26 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 26 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 26 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 26 DEGREES; |
| CHEUNG CHAU | 26 DEGREES; |
| CHEK LAP KOK | 27 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 26 DEGREES; |
| TSUEN WAN HO KOON | 25 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 26 DEGREES; |
| HAPPY VALLEY | 27 DEGREES; |
| WONG TAI SIN | 26 DEGREES; |
| STANLEY | 26 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 26 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

BETWEEN 5:45 AND 6:45 A.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|------------------|------------|
| EASTERN DISTRICT | 0 TO 1 MM; |
| SAI KUNG | 0 TO 1 MM; |
| KWUN TONG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 07:02 HKT ON 28.05.2020

PRESS WEATHER NO. 050 - HOURLY READINGS

HOURLY READINGS

AT 8 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 27 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 90 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.3. THE INTENSITY OF UV RADIATION WAS LOW.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 26 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 27 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 27 DEGREES; |
| WONG TAI SIN | 26 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 27 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

BETWEEN 6:45 AND 7:45 A.M., THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

| | |
|--------------|------------|
| WONG TAI SIN | 0 TO 2 MM; |
| SAI KUNG | 0 TO 1 MM. |

DISPATCHED BY HONG KONG OBSERVATORY AT 08:02 HKT ON 28.05.2020

PRESS WEATHER NO. 058 - HOURLY READINGS

HOURLY READINGS

AT 9 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 28 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 27 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 28 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 26 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 26 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 28 DEGREES; |
| TAI MEI TUK | 27 DEGREES. |

BETWEEN MIDNIGHT AND 9 A.M. THE MINIMUM TEMPERATURE WAS 26.7 DEGREES CELSIUS AT THE HONG KONG OBSERVATORY.

DISPATCHED BY HONG KONG OBSERVATORY AT 09:02 HKT ON 28.05.2020

PRESS WEATHER NO. 066 - HOURLY READINGS

HOURLY READINGS

AT 10 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 28 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 28 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 28 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 26 DEGREES; |
| SHA TIN | 27 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 26 DEGREES; |
| SAI KUNG | 27 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 28 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 27 DEGREES; |
| SHAU KEI WAN | 27 DEGREES; |
| KOWLOON CITY | 27 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 27 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 27 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 27 DEGREES; |
| YUEN LONG PARK | 29 DEGREES; |
| TAI MEI TUK | 26 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 10:02 HKT ON 28.05.2020

4th Impact Odour Monitoring



Fourth Operation Phase Odour Impact Monitoring Report

Impact Odour Monitoring - H₂S Measurement for Tuen Mun Area 54 Sewage
Pumping Station | Hong Kong

0118/19/ED/0442 01 | 11 September 2020

For review

Mott Macdonald Hong Kong Limited

Document Control

Document Information

| | |
|------------------------|---|
| Project Title | Impact Odour Monitoring - Hydrogen Sulphide Measurement for Tuen Mun Area 54 Sewage Pumping Station |
| Document Title | Fourth Operation Phase Odour Impact Monitoring Report |
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| Fugro Legal Entity | Fugro Technical Services Limited |
| Issuing Office Address | Room 723-726, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong |

Client Information

| | |
|------------------|--|
| Client | Mott Macdonald Hong Kong Limited |
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Revision History

| Issue | Date | Status | Comments on Content | Prepared By | Checked By | Approved By |
|-------|-------------------|------------|--------------------------|-------------|------------|-------------|
| 01 | 04 September 2020 | For Review | Awaiting client comments | VL | LMK | AC |

Project Team

| Initials | Name | Role |
|----------|---------------|---------------------------------|
| AC | Arthur Cheng | Project Manager |
| LMK | Lui Mang Kwok | Senior Environmental Consultant |
| VL | Vincent Lu | Environmental Consultant |

Executive Summary

Fugro Technical Services Limited (FTS) has been appointed by Mott MacDonald Hong Kong Limited, the Project Environmental Team (ET) of Tuen Mun Area 54 Sewage Pumping Station (TMA54SPS) to undertake the operation phase impact odour monitoring for the project.

This is the fourth monitoring report for the Odour Impact Monitoring of TMA54SPS, prepared by Fugro Technical Services Limited for submission to Mott MacDonald Hong Kong Limited.

This report presents the results obtained from the fourth operation phase impact odour monitoring carried out from 02 September 2020 to 03 September 2020 during the operation of TMA54SPS.

Exceedance of Action and Limit level at A5 were recorded. Exceedance of Action level at A2 was recorded.

In this reporting period, there were no records of odour complaint received.

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Abbreviations

| | |
|------------------|---|
| ASRs | Air Sensitive Receivers |
| DSD | Drainage Services Department |
| LandsD | Lands Department |
| ET | Environmental Team |
| EM&A | Environmental Monitoring and Audit |
| H ₂ S | Hydrogen Sulphide |
| MMHK | Mott MacDonald Hong Kong Limited |
| FTS | Fugro Technical Services Limited |
| TMA54SPS | Tuen Mun Area 54 Sewage Pumping Station |
| OU | Odour Unit |

1. Introduction

1.1 Background

To cope with a shortfall in flat supply and a rise in housing demand, Tuen Mun Area 54 was identified by the Government as one of the areas having the potential for housing development. Thus, the New Territories West Development Office of Territory Development Department completed the "Planning and Development Study of Potential Housing Site in Area 54, Tuen Mun" in 1999. The Study put forward proposals on housing types, development parameters and planning layouts and assessed the development impacts on transport network, infrastructural capacities and environmental quality.

According to the Review of Tuen Mun and Tsing Yi Sewerage Master Plans, a new sewage pumping station is needed to convey sewage collected from Tuen Mun Area 54 to existing trunk sewers at Ming Kum Road. Other than Tuen Mun Area 54, TMA54SPS will also collect sewage from four recognized villages within Area 54 including Tsz Tin Tsuen, Po Tong Ha, Kei Lun Wai and Siu Hang Tsuen, and the proposed Tuen Mun North Sewage Pumping Station in Area 52. TMA54SPS has a capacity of about 90,000m³ per day; the design average dry weather flow is approximately 0.32m³/s.

TMA54SPS is located in the central part of Site 4A of Tuen Mun Area 54, north of Kei Lun Wai, south of Tsz Tin Tsuen and west of Site 2 of Tuen Mun Area 54. Site 4A is zoned "Government, Institution or Community" on the Tuen Mun Outline Zoning Plan No. S/TM/22 and is reserved for school development. **Appendix A** shows the location of TMA54SPS. Construction work for TMA54SPS is substantially completed and commissioning is anticipated in February 2018.

TMA54SPS is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of Environmental Impact Assessment (EIA) has been carried out to evaluate the environmental impacts associated with the project. An EIA Report and an Environmental Monitoring and Audit (EM&A) Manual were approved by the Environmental Protection Department (EPD) on 12 November 2008. An Environmental Permit (EP) No. EP-381/2009 was issued on 4 January 2010 for TMA54SPS to the Civil Engineering and Development Department as the Permit Holder. The EP stipulates that an EM&A programme is required to ensure mitigation measures recommended in the EIA Report and the EM&A Manual are implemented during the construction and operation of TMA54SPS.

1.2 Project Description

FTS was commissioned to carry out operation phase odour impact monitoring for Mott MacDonald Hong Kong Limited for the project of TMA54SPS.

The EIA study of TMA54SPS has identified odour emissions from the sewage pumping station as the main potential air quality impact. To reduce odour emissions from the operation of TMA54SPS, it is recommended in the EIA Report that wet wells and screen chambers, the main

sources of odour, should be enclosed in a building structure. A deodorizing unit should also be installed; in order to treat vented air before it would be discharged into the atmosphere.

Furthermore, odour monitoring is required as per the EM&A Manual prior to and during the initial operation of TMA54SPS. The purpose of the odour impact monitoring is to indicate whether the odour concentration would be higher or lower than the baseline condition.

1.3 Monitoring Arrangement

According to the EM&A Manual, gaseous hydrogen sulphide (H₂S) is one of the main components of odour emissions. Ambient H₂S concentration can serve as a surrogate indicator for sewage odours as it can be readily monitored at the Air Sensitive Receivers (ASRs).

The odour impact monitoring shall be conducted in the first year upon commissioning of TMA54SPS. Odour Impact Monitoring would be conducted every three months for the first year of operation for TMA54SPS. However, due to some major technical issues (e.g. review of H₂S measurement method, monitoring locations and level of measurement, etc), the commencement of the impact odour monitoring was deferred from March 2018 to October 2019. In addition, as discussed between DSD and EPD, measurement results from the impact odour monitoring will be directly compared with that obtained in the baseline odour monitoring without any adjustments / air modelling applied. If all monitoring results are below the limit levels, the impact monitoring will be ceased. If the monitoring results of detected odour monitoring concentration at any ASR is higher than the limit levels due to operation of the TMA54SPS, the odour monitoring will be extended until the odour concentration at the ASR in consecutive 2 times are below the limit levels (once for 3 months). Action and Limit Levels for Air Quality in operation phase are given in **Table 1.1**.

As regards the locations of odour monitoring stations, it is noticed that there are 3 odour monitoring stations selected in the EM&A Manual (i.e. A3-A5) are currently located in private lots which are not accessible for the ET to conduct the impact odour monitoring at a height of 10m above ground level, while the remaining 2 stations (i.e. A1 and A2) fall within CEDD's construction sites (i.e. Government land). As the monitoring station "A5" which falls within the boundary of private open car park, alternative location of odour monitoring station for A5 was proposed. It is noted that the sites on both sides of the road connecting to TMA54SPS are all private land lots, except that TMA54SPS and the road itself are on government land. The odour monitoring station "A5" should be relocated to somewhere on the road connecting to TMA54SPS. In addition, according to the contours of odour concentrations at 10m above ground, the original location of A5 is within 1 OU zone which is the furthest measurement point from TMA54SPS. As a prudent approach in determine the alternative location of odour monitoring station for A5, the new A5 is situated on the road connecting to TMA54SPS at a location within 4 OU zone which is close to TMA54SPS. In view of the land resumption programme, the impact odour monitoring will be split into two phases. The 1st phase will include the odour monitoring at the locations A1, A2 and new A5.

Regarding the above requirements, a monitoring programme is shown in **Table 1.2**.

Table 1.1 Action and Limit Levels for Air Quality (Operation Phase)

| Parameter | ASR | Action Level (ppb) | Limit Level (ppb) |
|-------------------------------|-----|--|---|
| H ₂ S | A1 | 2.5 | 2.5 |
| | A2 | 2.3 | 2.5 |
| | A5 | 2.5 | 2.5 |
| Incidents of odour complaints | - | Any incidence of odour complaint received through the Odour Complaint Register | Two or more complaints through the Odour Complaint Register within three months |

Note: Odour complaints are to be handled in accordance with the complaint registration system as mentioned in Section 2.26-2.29 of the EM&A Manual

Table 1.2 Monitoring Programme

For 1st phase impact odour monitoring at A1, A2 and new A5:

| | 1 st Monitoring Event | 2 nd Monitoring Event | 3 rd Monitoring Event | 4 th Monitoring Event |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Monitoring Dates | November 2019 | February 2020 | May 2020 | September 2020* |

Note: The fourth monitoring event was postponed to September 2020 due to the adverse weather.

2. Odour Impact Monitoring

2.1 Methodology

The H₂S analyzer, type Jerome 631-X, was used for the impact monitoring. Grab air sample was drawn by built-in suction pump of the analyzer and passed through a gold film sensor. The electrical resistance of the gold film changes according to the change in mass of hydrogen sulphide in the gas sample.

The details of the equipment used for odour impact monitoring is presented in **Table 2.1**

Table 2.1 Equipment for Impact Odour Monitoring

| Equipment | Manufacturer / Model | Serial Number | Sensor Number | Calibration Date | Next Calibration Date |
|--------------------------------------|----------------------|---------------|---------------|------------------|-----------------------|
| Gold Film Hydrogen Sulphide Analyzer | JEROME X631 0003 | 2966 | 19-8-23-S4AS | 17 October 2019 | 16 October 2020 |

2.2 Sampling Duration

A 15-min integrated gaseous H₂S sample was collected every 3 hours for a period of 24 hours at monitoring locations, in which five readings were recorded at every monitoring station during each 3-hour session. Maximum and minimum H₂S levels for each monitoring station were recorded.

2.3 Monitoring Locations

H₂S measurements was taken at the sources and outside the premises of the identified ASRs as shown in **Table 2.2** and **Appendix A** show the descriptions and locations of the H₂S monitoring stations.

Table 2.2 Monitoring Locations

| Monitoring Station | Monitoring Location | Description |
|--------------------|--------------------------------|-------------|
| A1 ¹ | Planned Secondary School | ASR |
| A2 ¹ | Planned Primary School | ASR |
| A5 ¹ | Road connecting to TMA54SPS | ASR |
| SPS ¹ | Exhausted vent pipe of TMA54SP | Source |

Note: ¹ 1st phase odour impact monitoring.

According to the EM&A Manual, the monitoring was taken at a height of predicted worst level of the receivers in the EIA (10 m ground level). Photos showing the monitoring setup are included in **Appendix B**.

2.4 Quality Assurance / Quality Control

In order to ensure the analyzer is functioning properly, manual sensor regeneration and zero adjustment were performed before each set of odour monitoring.

Calibration of the analyzer is conducted every year at the laboratory of the manufacturer. The calibration certificates for the analyzers are shown in **Appendix F**.

3. Monitoring Results

3.1 Weather Conditions and Other Factors

The fourth monitoring event for the odour impact monitoring for TMA54SPS was conducted from 02 September 2020 (approx. 11:00 am) to 03 September 2020 (approx. 10:59 am).

The weather was mainly fine and wind was mainly mild during the monitoring event. An anemometer was used for measuring wind speed and wind direction presented in the site record in **Appendix D**. Meteorological conditions of 02 September 2020 and 03 September 2020 obtained from the nearest Hong Kong Observatory's Tuen Mun Weather Station are shown in **Appendix G**. Meteorological data was obtained as reference information for the analysis of the exceedance event.

No significant odour sources from the project site were observed during the impact monitoring period.

3.2 Monitoring Results

The monitoring results are summarised in **Table 3.1**. Details of monitoring data are shown in **Appendix C** (24-hour average, maximum and minimum H₂S concentration), **Appendix D** (site record) and **Appendix E** (data logger record).

Table 3.1 Summary of Monitoring Results

| Monitoring Station | Monitoring Location | 24-hour Average H ₂ S Concentration (ppb) |
|--------------------|--------------------------------|--|
| A1 ¹ | Planned Secondary School | 2.4 |
| A2 ¹ | Planned Primary School | 2.4 |
| A5 ¹ | Road connecting to TMA54SPS | 2.8 |
| SPS | Exhausted vent pipe of TMA54SP | 2.7 |

Note: ¹ Air Sensitive Receiver.

4. Odour Complaint

There were no complaints received in relation to the environmental impact during the reporting period.

5. Conclusion and Recommendations

The fourth monitoring event for the odour impact monitoring was carried out from 02 September 2020 to 03 September 2020.

Odour impact monitoring of hydrogen sulphide (H₂S) was conducted at four monitoring stations including three Air Sensitive Receivers around TMA54SPS and at source. Exceedance of Action and Limit level at A5 were recorded. Exceedance of Action level at A2 was recorded.

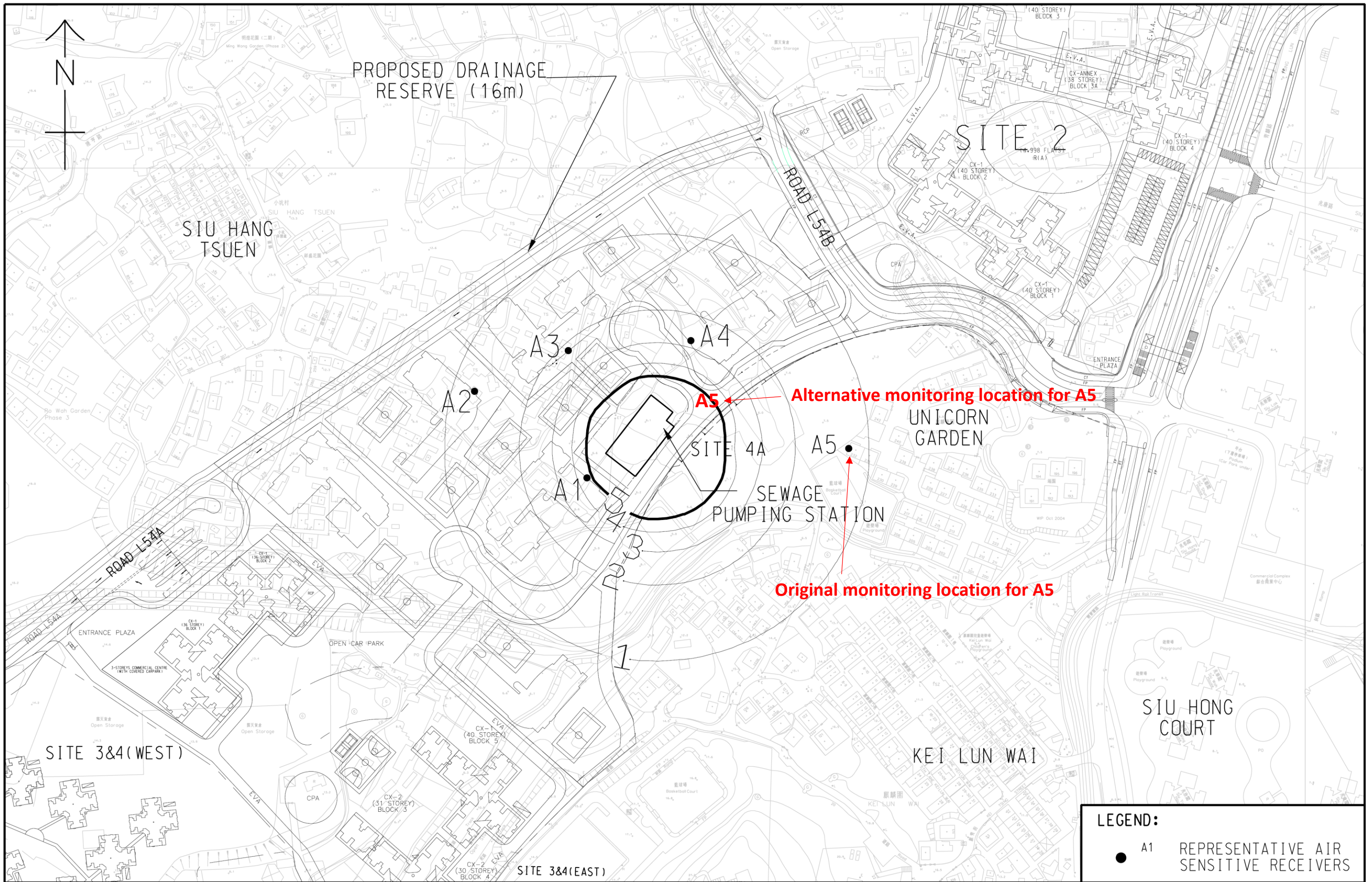
At A2, it is observed that 2 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A2 is higher than at source. At Sample 2 and 3, the H₂S concentration at A2 is 14 – 17% higher than at source. Under the above observations, it is

considered that the source is not the major contributor to H₂S concentration at A2 during sample 2 and 3, and thus the exceedance at A2 is not project related.

At A5, it is observed that 2 out of the 8 sampling events throughout the 24-hours monitoring period, the H₂S concentration at A5 is higher than at source. At Sample 2 and 3, the H₂S concentration at A5 is 17-57% higher than at source. Under the above observations, it is considered that the source is not the major contributor to H₂S concentration at A5 during Sample 2 and 3, and thus the exceedance at A5 is not project related.

Appendix A

Monitoring Station



LEGEND:

| | |
|------|--|
| ● A1 | REPRESENTATIVE AIR SENSITIVE RECEIVERS |
|------|--|

MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

AGREEMENT No. CE 21/2005 (CE)
FORMATION, ROADS AND DRAINS IN AREA 54, TUEN MUN - PHASES 1 AND 2 -
ENVIRONMENTAL, TRAFFIC AND DRAINAGE IMPACT ASSESSMENT REVIEW - INVESTIGATION
ADDITIONAL SERVICE No.2 - ENVIRONMENTAL IMPACT ASSESSMENT FOR TUEN MUN AREA 54 SEWAGE PUMPING STATION

CONTOURS OF ODOUR CONCENTRATION (OU/5-sec avg) AT 10m ABOVE GROUND - MITIGATED SCENARIO

| | | | |
|---------|----------|-------------|----------|
| SCALE | 1:2000 | DATE | FEB 2008 |
| CHECK | | DRAWN | SWKY |
| JOB No. | 60021938 | DRAWING No. | 3.3 |
| | | REV | - |



Appendix B

Photographs of Monitoring Stations



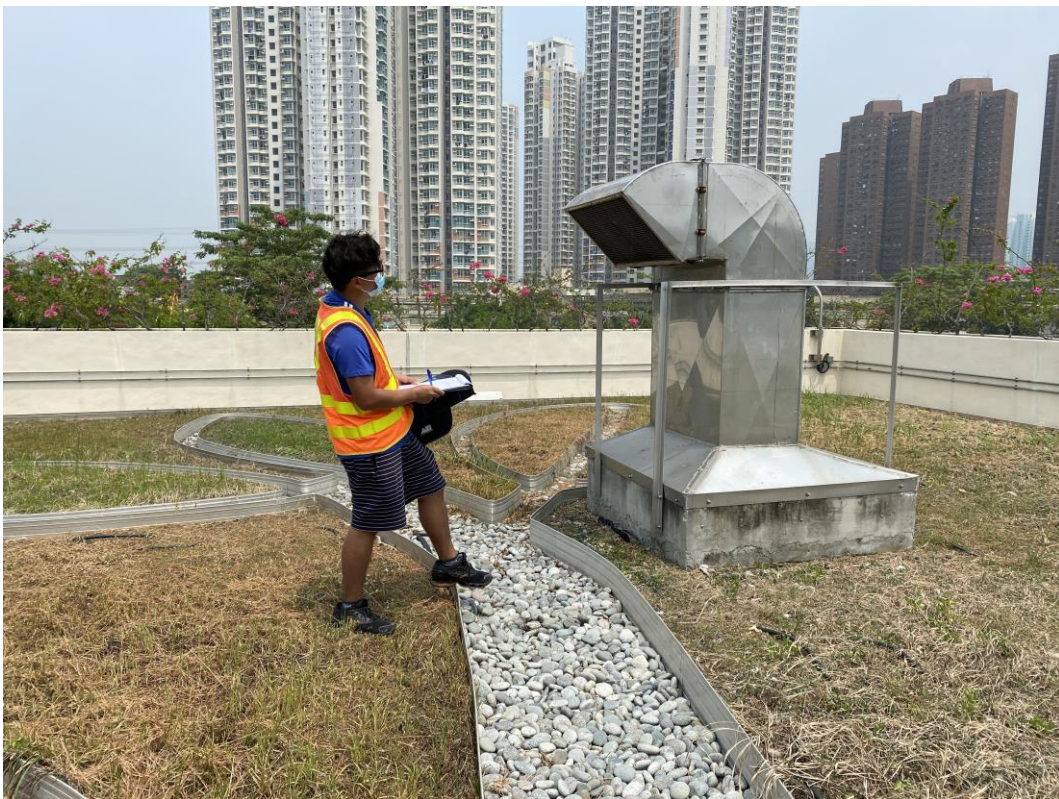
A1



A2



A5



Source

Appendix C

Monitoring Results



| Monitoring Station | Time Interval | 24-hour Average H ₂ S Concentration (ppb) | | | | | | | |
|--------------------|---------------|--|-----------------|---------|---------|--------------|------------|-------------|------------|
| | | 15-minute integrated average | 24-hour average | Maximum | Minimum | Action Level | Exceedance | Limit Level | Exceedance |
| A1 | 1100-1400 | 3.4 | 2.4 | 3.4 | 1.4 | 2.5 | N | 2.5 | N |
| | 1400-1700 | 2.6 | | | | | | | |
| | 1700-2000 | 3.4 | | | | | | | |
| | 2000-2300 | 2.0 | | | | | | | |
| | 2300-0200 | 2.4 | | | | | | | |
| | 0200-0500 | 2.2 | | | | | | | |
| | 0500-0800 | 1.4 | | | | | | | |
| | 0800-1100 | 1.4 | | | | | | | |
| A2 | 1100-1400 | 2.2 | 2.4 | 2.8 | 2.0 | 2.3 | Y | 2.5 | N |
| | 1400-1700 | 2.8 | | | | | | | |
| | 1700-2000 | 2.4 | | | | | | | |
| | 2000-2300 | 2.0 | | | | | | | |
| | 2300-0200 | 2.2 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 2.4 | | | | | | | |
| | 0800-1100 | 2.6 | | | | | | | |
| A5 | 1100-1400 | 2.8 | 2.8 | 5.6 | 1.6 | 2.5 | Y | 2.5 | Y |
| | 1400-1700 | 5.6 | | | | | | | |
| | 1700-2000 | 2.4 | | | | | | | |
| | 2000-2300 | 2.6 | | | | | | | |
| | 2300-0200 | 2.4 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 1.6 | | | | | | | |
| | 0800-1100 | 2.4 | | | | | | | |
| SPS | 1100-1400 | 2.8 | 2.7 | 3.4 | 2.0 | N/A | N/A | N/A | N/A |
| | 1400-1700 | 2.4 | | | | | | | |
| | 1700-2000 | 2.0 | | | | | | | |
| | 2000-2300 | 2.8 | | | | | | | |
| | 2300-0200 | 2.4 | | | | | | | |
| | 0200-0500 | 2.4 | | | | | | | |
| | 0500-0800 | 3.0 | | | | | | | |
| | 0800-1100 | 3.4 | | | | | | | |

Appendix D

Site Record

Air Quality (H₂S) Monitoring Data Record Sheet

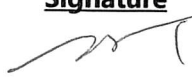

| General Information | | | | |
|---------------------|-------------|-----------------------|----------------|-------------------------------------|
| Monitoring Station | A1 | | | |
| Date | 2/9/2020 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1200 | / | / | 0.004, 0.004, 0.004 0.003, 0.002 |
| | Stop: 1215 | | | |
| Sample 2 | Start: 1430 | 0.4 0.1 | NW | 0.003, 0.003, 0.003 0.002, 0.002 |
| | Stop: 1445 | | | |
| Sample 3 | Start: 1725 | 0.2 | NW | 0.003, 0.002, 0.004 0.004, 0.004 |
| | Stop: 1750 | | | |
| Sample 4 | Start: 2040 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 2055 | | | |
| Sample 5 | Start: 2330 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 2345 | | | |
| Sample 6 | Start: 0230 | / | / | 0.002, 0.003, 0.002 0.002, 0.002 |
| | Stop: 0245 | | | |
| Sample 7 | Start: 0530 | / | / | 0.002, 0.002, 0.001 0.001, 0.001 |
| | Stop: 0545 | | | |
| Sample 8 | Start: 0830 | / | / | 0.002, 0.002 0.001, 0.001, 0.001 |
| | Stop: 0845 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|---|--|-------------------------|
| Recorded by: | <u>Name & Designation</u> Ting (T) | <u>Signature</u>  | <u>Date</u> 2/9/2020 |
| Checked by: | Vincent Lu EC |  | 4/9/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---------------------|-------------|------------|----------------|-------------------------------|
| Monitoring Station | AZ | | | |
| Date | 2/9/2020 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1130 | 0 | 0 | 0.002, 0.002 |
| | Stop: 1145 | | | 0.003, 0.002, 0.002 |
| Sample 2 | Start: 1400 | 0 | 0 | 0.004, 0.003, 0.003 |
| | Stop: 1415 | | | 0.002, 0.002 |
| Sample 3 | Start: 1700 | / | / | 0.003, 0.003, 0.002 |
| | Stop: 1715 | | | 0.002, 0.002 |
| Sample 4 | Start: 2000 | / | / | 0.002, 0.002, 0.002 |
| | Stop: 2015 | | | 0.002, 0.002 |
| Sample 5 | Start: 2300 | / | / | 0.002, 0.002, 0.002 |
| | Stop: 2315 | | | 0.002, 0.003 0.003 |
| Sample 6 | Start: 0200 | / | / | 0.002, 0.002, 0.003 |
| | Stop: 0215 | | | 0.003, 0.002 |
| Sample 7 | Start: 0500 | / | / | 0.002, 0.002, 0.002 |
| | Stop: 0515 | | | 0.003, 0.002 |
| Sample 8 | Start: 0800 | / | / | 0.002, 0.002, 0.003 |
| | Stop: 0815 | | | 0.003, 0.003 |
| Other Observations | | | | |
| NIL | | | | |

| | | | |
|---------------------|---|--|-------------------------|
| Recorded by: | <u>Name & Designation</u> Ting (T) | <u>Signature</u>  | <u>Date</u> 2/9/2020 |
| Checked by: | Vincent Lu EC |  | 4/4/2020 |



Air Quality (H₂S) Monitoring Data Record Sheet

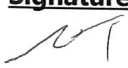

| General Information | | | | |
|---------------------|-------------|------------|----------------|-------------------------------------|
| Monitoring Station | AS | | | |
| Date | 2/9/2020 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1230 | 0.6 | NW | 0.004, 0.002, 0.002 0.004, 0.002 |
| | Stop: 1245 | | | |
| Sample 2 | Start: 1455 | / | - | 0.005, 0.005, 0.006 0.005, 0.007 |
| | Stop: 1510 | | | |
| Sample 3 | Start: 1755 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1810 | | | |
| Sample 4 | Start: 2105 | - | - | 0.002, 0.002, 0.003 0.003, 0.003 |
| | Stop: 2120 | | | |
| Sample 5 | Start: 2355 | / | / | 0.002, 0.002, 0.002 0.003, 0.003 |
| | Stop: 0010 | | | |
| Sample 6 | Start: 0300 | / | / | 0.002, 0.002, 0.002 0.003, 0.003 |
| | Stop: 0315 | | | |
| Sample 7 | Start: 0555 | / | - | 0.002, 0.002, 0.002 0.001, 0.001 |
| | Stop: 0610 | | | |
| Sample 8 | Start: 0850 | / | / | 0.003, 0.001, 0.002 0.003, 0.003 |
| | Stop: 0905 | | | |
| Other Observations | | | | |

Recorded by: Name & Designation Signature Date
 (Sig G) [Signature] 2/9/2020
Checked by: Vincent Lu EC [Signature] 4/9/2020



Air Quality (H₂S) Monitoring Data Record Sheet

| General Information | | | | |
|---------------------|-------------|------------|----------------|-------------------------------------|
| Monitoring Station | S | | | |
| Date | 21/9/2020 | | | |
| Weather | Fine | | | |
| Monitoring Results | | | | |
| Sample No | Time | Wind Speed | Wind Direction | Level(ppm) |
| Sample 1 | Start: 1250 | / | / | 0.003, 0.003, 0.002 0.003, 0.003 |
| | Stop: 1305 | | | |
| Sample 2 | Start: 1520 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 1535 | | | |
| Sample 3 | Start: 1820 | / | / | 0.002, 0.002, 0.002 0.002, 0.002 |
| | Stop: 1835 | | | |
| Sample 4 | Start: 2130 | / | / | 0.002, 0.004, 0.002 0.003, 0.003 |
| | Stop: 2145 | | | |
| Sample 5 | Start: 0020 | / | / | 0.002, 0.002, 0.002 0.003, 0.003 |
| | Stop: 0035 | | | |
| Sample 6 | Start: 0325 | / | / | 0.003, 0.003, 0.002 0.002, 0.002 |
| | Stop: 0340 | | | |
| Sample 7 | Start: 0620 | / | / | 0.003, 0.003 0.003, 0.003, 0.003 |
| | Stop: 0635 | | | |
| Sample 8 | Start: 0910 | / | / | 0.005, 0.004, 0.004 0.002, 0.002 |
| | Stop: 0925 | | | |
| Other Observations | | | | |

| | | | |
|---------------------|--|--|--------------------------|
| Recorded by: | <u>Name & Designation</u> Vincent Lu GC | <u>Signature</u>  | <u>Date</u> 21/9/2020 |
| Checked by: | |  | 4/9/2020 |



Appendix E

Data Logger Record

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|----|------------|------------|--------------|----------------|
| 1 | 九月-02-2020 | 11:30:21am | 0.002 | A2 |
| 2 | 九月-02-2020 | 11:33:21am | 0.002 | |
| 3 | 九月-02-2020 | 11:36:21am | 0.003 | |
| 4 | 九月-02-2020 | 11:39:21am | 0.002 | |
| 5 | 九月-02-2020 | 11:42:21am | 0.002 | |
| 6 | 九月-02-2020 | 12:00:17pm | /III | End Of Session |
| 7 | 九月-02-2020 | 12:00:17pm | 0.004 | A1 |
| 8 | 九月-02-2020 | 12:03:17pm | 0.004 | |
| 9 | 九月-02-2020 | 12:06:17pm | 0.004 | |
| 10 | 九月-02-2020 | 12:09:17pm | 0.003 | |
| 11 | 九月-02-2020 | 12:12:17pm | 0.002 | |
| 12 | 九月-02-2020 | 12:30:04pm | /III | End Of Session |
| 13 | 九月-02-2020 | 12:30:04pm | 0.004 | A5 |
| 14 | 九月-02-2020 | 12:33:04pm | 0.002 | |
| 15 | 九月-02-2020 | 12:36:04pm | 0.002 | |
| 16 | 九月-02-2020 | 12:39:04pm | 0.004 | |
| 17 | 九月-02-2020 | 12:42:04pm | 0.002 | |
| 18 | 九月-02-2020 | 12:50:31pm | /III | End Of Session |
| 19 | 九月-02-2020 | 12:50:31pm | 0.003 | Source |
| 20 | 九月-02-2020 | 12:53:31pm | 0.003 | |
| 21 | 九月-02-2020 | 12:56:31pm | 0.002 | |
| 22 | 九月-02-2020 | 12:59:31pm | 0.003 | |
| 23 | 九月-02-2020 | 01:02:31pm | 0.003 | |
| 24 | 九月-02-2020 | 02:00:51pm | /III | End Of Session |
| 25 | 九月-02-2020 | 02:00:51pm | 0.004 | A2 |
| 24 | 九月-02-2020 | 02:03:51pm | 0.003 | |
| 25 | 九月-02-2020 | 02:06:51pm | 0.003 | |
| 28 | 九月-02-2020 | 02:09:51pm | 0.002 | |
| 29 | 九月-02-2020 | 02:12:51pm | 0.002 | |
| 30 | 九月-02-2020 | 02:30:55pm | /III | End Of Session |
| 31 | 九月-02-2020 | 02:30:55pm | 0.003 | A1 |
| 32 | 九月-02-2020 | 02:33:55pm | 0.003 | |
| 33 | 九月-02-2020 | 02:36:55pm | 0.003 | |
| 34 | 九月-02-2020 | 02:39:55pm | 0.002 | |
| 35 | 九月-02-2020 | 02:42:55pm | 0.002 | |
| 36 | 九月-02-2020 | 02:55:26pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|----|------------|------------|--------------|----------------|
| 37 | 九月-02-2020 | 02:55:26pm | 0.005 | A5 |
| 38 | 九月-02-2020 | 02:58:26pm | 0.005 | |
| 39 | 九月-02-2020 | 03:01:26pm | 0.006 | |
| 40 | 九月-02-2020 | 03:04:26pm | 0.005 | |
| 41 | 九月-02-2020 | 03:07:26pm | 0.007 | |
| 42 | 九月-02-2020 | 03:20:47pm | /III | End Of Session |
| 43 | 九月-02-2020 | 03:20:47pm | 0.003 | Source |
| 44 | 九月-02-2020 | 03:23:47pm | 0.003 | |
| 45 | 九月-02-2020 | 03:26:47pm | 0.002 | |
| 46 | 九月-02-2020 | 03:29:47pm | 0.002 | |
| 47 | 九月-02-2020 | 03:32:47pm | 0.002 | |
| 48 | 九月-02-2020 | 05:00:33pm | /III | End Of Session |
| 49 | 九月-02-2020 | 05:00:33pm | 0.003 | A2 |
| 50 | 九月-02-2020 | 05:03:33pm | 0.003 | |
| 51 | 九月-02-2020 | 05:06:33pm | 0.002 | |
| 52 | 九月-02-2020 | 05:09:33pm | 0.002 | |
| 53 | 九月-02-2020 | 05:12:33pm | 0.002 | |
| 54 | 九月-02-2020 | 05:35:16pm | /III | End Of Session |
| 55 | 九月-02-2020 | 05:35:16pm | 0.003 | A1 |
| 56 | 九月-02-2020 | 05:38:16pm | 0.002 | |
| 57 | 九月-02-2020 | 05:41:16pm | 0.004 | |
| 58 | 九月-02-2020 | 05:44:16pm | 0.004 | |
| 59 | 九月-02-2020 | 05:47:16pm | 0.004 | |
| 60 | 九月-02-2020 | 05:55:46pm | /III | End Of Session |
| 61 | 九月-02-2020 | 05:55:46pm | 0.003 | A5 |
| 62 | 九月-02-2020 | 05:58:46pm | 0.003 | |
| 63 | 九月-02-2020 | 06:01:46pm | 0.002 | |
| 64 | 九月-02-2020 | 06:04:46pm | 0.002 | |
| 65 | 九月-02-2020 | 06:07:46pm | 0.002 | |
| 66 | 九月-02-2020 | 06:20:45pm | /III | End Of Session |
| 67 | 九月-02-2020 | 06:20:45pm | 0.002 | Source |
| 68 | 九月-02-2020 | 06:23:45pm | 0.002 | |
| 69 | 九月-02-2020 | 06:26:45pm | 0.002 | |
| 70 | 九月-02-2020 | 06:29:45pm | 0.002 | |
| 71 | 九月-02-2020 | 06:32:45pm | 0.002 | |
| 72 | 九月-02-2020 | 08:00:13pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|--------------|----------------|
| 73 | 九月-02-2020 | 08:00:13pm | 0.002 | A2 |
| 74 | 九月-02-2020 | 08:03:13pm | 0.002 | |
| 75 | 九月-02-2020 | 08:06:13pm | 0.002 | |
| 76 | 九月-02-2020 | 08:09:13pm | 0.002 | |
| 77 | 九月-02-2020 | 08:12:13pm | 0.002 | |
| 78 | 九月-02-2020 | 08:40:07pm | /III | End Of Session |
| 79 | 九月-02-2020 | 08:40:07pm | 0.002 | A1 |
| 80 | 九月-02-2020 | 08:43:07pm | 0.002 | |
| 81 | 九月-02-2020 | 08:46:07pm | 0.002 | |
| 82 | 九月-02-2020 | 08:49:07pm | 0.002 | |
| 83 | 九月-02-2020 | 08:52:07pm | 0.002 | |
| 84 | 九月-02-2020 | 09:05:11pm | /III | End Of Session |
| 85 | 九月-02-2020 | 09:05:11pm | 0.002 | A5 |
| 86 | 九月-02-2020 | 09:08:11pm | 0.002 | |
| 87 | 九月-02-2020 | 09:11:11pm | 0.003 | |
| 88 | 九月-02-2020 | 09:14:11pm | 0.003 | |
| 89 | 九月-02-2020 | 09:17:11pm | 0.003 | |
| 90 | 九月-02-2020 | 09:30:04pm | /III | End Of Session |
| 91 | 九月-02-2020 | 09:30:04pm | 0.002 | Source |
| 92 | 九月-02-2020 | 09:33:04pm | 0.004 | |
| 93 | 九月-02-2020 | 09:36:04pm | 0.002 | |
| 94 | 九月-02-2020 | 09:39:04pm | 0.003 | |
| 95 | 九月-02-2020 | 09:42:04pm | 0.003 | |
| 96 | 九月-02-2020 | 11:00:06pm | /III | End Of Session |
| 97 | 九月-02-2020 | 11:00:06pm | 0.002 | A2 |
| 98 | 九月-02-2020 | 11:03:06pm | 0.002 | |
| 99 | 九月-02-2020 | 11:06:06pm | 0.002 | |
| 100 | 九月-02-2020 | 11:09:06pm | 0.002 | |
| 101 | 九月-02-2020 | 11:12:06pm | 0.003 | |
| 102 | 九月-02-2020 | 11:30:29pm | /III | End Of Session |
| 103 | 九月-02-2020 | 11:30:29pm | 0.003 | A1 |
| 104 | 九月-02-2020 | 11:33:29pm | 0.003 | |
| 105 | 九月-02-2020 | 11:36:29pm | 0.002 | |
| 106 | 九月-02-2020 | 11:39:29pm | 0.002 | |
| 107 | 九月-02-2020 | 11:42:29pm | 0.002 | |
| 108 | 九月-02-2020 | 11:55:25pm | /III | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|-------|--------------|----------------|
| 109 | 九月-02-2020 | 11:55:25pm | 0.002 | A5 | |
| 110 | 九月-02-2020 | 11:58:25pm | 0.002 | | |
| 111 | 九月-03-2020 | 00:01:25am | 0.002 | | |
| 112 | 九月-03-2020 | 00:04:25am | 0.003 | | |
| 113 | 九月-03-2020 | 00:07:25am | 0.003 | | |
| 114 | 九月-03-2020 | 00:20:31am | /III | | End Of Session |
| 115 | 九月-03-2020 | 00:20:31am | 0.002 | Source | |
| 116 | 九月-03-2020 | 00:23:31am | 0.002 | | |
| 117 | 九月-03-2020 | 00:26:31am | 0.002 | | |
| 118 | 九月-03-2020 | 00:29:31am | 0.003 | | |
| 119 | 九月-03-2020 | 00:32:31am | 0.003 | | |
| 120 | 九月-03-2020 | 02:00:11am | /III | | End Of Session |
| 121 | 九月-03-2020 | 02:00:11am | 0.002 | A2 | |
| 122 | 九月-03-2020 | 02:03:11am | 0.002 | | |
| 123 | 九月-03-2020 | 02:06:11am | 0.003 | | |
| 124 | 九月-03-2020 | 02:09:11am | 0.003 | | |
| 125 | 九月-03-2020 | 02:12:11am | 0.002 | | |
| 126 | 九月-03-2020 | 02:30:39am | /III | | End Of Session |
| 127 | 九月-03-2020 | 02:30:39am | 0.002 | A1 | |
| 128 | 九月-03-2020 | 02:33:39am | 0.003 | | |
| 129 | 九月-03-2020 | 02:36:39am | 0.002 | | |
| 130 | 九月-03-2020 | 02:39:39am | 0.002 | | |
| 131 | 九月-03-2020 | 02:42:39am | 0.002 | | |
| 132 | 九月-03-2020 | 03:00:44am | /III | | End Of Session |
| 133 | 九月-03-2020 | 03:00:44am | 0.002 | A5 | |
| 134 | 九月-03-2020 | 03:03:44am | 0.002 | | |
| 135 | 九月-03-2020 | 03:06:44am | 0.002 | | |
| 136 | 九月-03-2020 | 03:09:44am | 0.003 | | |
| 137 | 九月-03-2020 | 03:12:44am | 0.003 | | |
| 138 | 九月-03-2020 | 03:25:27am | /III | | End Of Session |
| 139 | 九月-03-2020 | 03:25:27am | 0.003 | Source | |
| 140 | 九月-03-2020 | 03:28:27am | 0.003 | | |
| 141 | 九月-03-2020 | 03:31:27am | 0.002 | | |
| 142 | 九月-03-2020 | 03:34:27am | 0.002 | | |
| 143 | 九月-03-2020 | 03:37:27am | 0.002 | | |
| 144 | 九月-03-2020 | 05:00:35am | /III | | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------|-------|--------------|----------------|
| 145 | 九月-03-2020 | 05:00:35am | 0.002 | A2 | |
| 146 | 九月-03-2020 | 05:03:35am | 0.002 | | |
| 147 | 九月-03-2020 | 05:06:35am | 0.002 | | |
| 148 | 九月-03-2020 | 05:09:35am | 0.003 | | |
| 149 | 九月-03-2020 | 05:12:35am | 0.003 | | |
| 150 | 九月-03-2020 | 05:30:03am | /III | | End Of Session |
| 151 | 九月-03-2020 | 05:30:03am | 0.002 | A1 | |
| 152 | 九月-03-2020 | 05:33:03am | 0.002 | | |
| 153 | 九月-03-2020 | 05:36:03am | 0.001 | | |
| 154 | 九月-03-2020 | 05:39:03am | 0.001 | | |
| 155 | 九月-03-2020 | 05:42:03am | 0.001 | | |
| 156 | 九月-03-2020 | 05:55:23am | /III | | End Of Session |
| 157 | 九月-03-2020 | 05:55:23am | 0.002 | A5 | |
| 158 | 九月-03-2020 | 05:58:23am | 0.002 | | |
| 159 | 九月-03-2020 | 06:01:23am | 0.002 | | |
| 160 | 九月-03-2020 | 06:04:23am | 0.001 | | |
| 161 | 九月-03-2020 | 06:07:23am | 0.001 | | |
| 162 | 九月-03-2020 | 06:20:09am | /III | | End Of Session |
| 163 | 九月-03-2020 | 06:20:09am | 0.003 | Source | |
| 164 | 九月-03-2020 | 06:23:09am | 0.003 | | |
| 165 | 九月-03-2020 | 06:26:09am | 0.003 | | |
| 166 | 九月-03-2020 | 06:29:09am | 0.003 | | |
| 167 | 九月-03-2020 | 06:32:09am | 0.003 | | |
| 168 | 九月-03-2020 | 08:00:26am | /III | | End Of Session |
| 169 | 九月-03-2020 | 08:00:26am | 0.002 | A2 | |
| 170 | 九月-03-2020 | 08:03:26am | 0.002 | | |
| 171 | 九月-03-2020 | 08:06:26am | 0.003 | | |
| 172 | 九月-03-2020 | 08:09:26am | 0.003 | | |
| 173 | 九月-03-2020 | 08:12:26am | 0.003 | | |
| 174 | 九月-03-2020 | 08:30:38am | /III | | End Of Session |
| 175 | 九月-03-2020 | 08:30:38am | 0.002 | A1 | |
| 176 | 九月-03-2020 | 08:33:38am | 0.002 | | |
| 177 | 九月-03-2020 | 08:36:38am | 0.001 | | |
| 178 | 九月-03-2020 | 08:39:38am | 0.001 | | |
| 179 | 九月-03-2020 | 08:42:38am | 0.001 | | |
| 180 | 九月-03-2020 | 08:50:11am | /III | | End Of Session |

Site Name: Tuen Mun Area 54 SPS
Address: Tuen Mun Area 54 SPS

Sample Location: Inlet
Technician:
Instrument: 631-1, 631-X, SN 2966
Comment:
Date/Time: 九月-04-2020 11:50am
Alarm Setpoint: 0 (ppm)

| | | DATE/TIME | | RESULT (ppm) | |
|-----|------------|------------------|---------|--------------|----------------|
| 181 | 九月-03-2020 | 08:50:11am | 0.003 | A5 | |
| 182 | 九月-03-2020 | 08:53:11am | 0.001 | | |
| 183 | 九月-03-2020 | 08:56:11am | 0.002 | | |
| 184 | 九月-03-2020 | 08:59:11am | 0.003 | | |
| 185 | 九月-03-2020 | 09:02:11am | 0.003 | | |
| 186 | 九月-03-2020 | 09:10:26am | /III | | End Of Session |
| 187 | 九月-03-2020 | 09:10:26am | 0.005 | Source | |
| 188 | 九月-03-2020 | 09:13:26am | 0.004 | | |
| 189 | 九月-03-2020 | 09:16:26am | 0.004 | | |
| 190 | 九月-03-2020 | 09:19:26am | 0.002 | | |
| 191 | 九月-03-2020 | 09:22:26am | 0.002 | | |
| | | Readings: | 160 | | |
| | | Minimum: | 0.001 | | |
| | | Maximum: | 0.007 | | |
| | | Average: | 0.00254 | | |
| | | SD: | 0.00093 | | |

Appendix F

Calibration Certificates



3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 | (f) 602.281.1745 | azic.com

Certification of Instrument Calibration

Guyline (Asia) Ltd
Rm 1611, Eastern Harbour Centre
Quarry Bay,

RMA # 2694299

This is to certify that the Jerome X631 0003 Gold Film Hydrogen Sulfide Analyzer, Serial Number 2966, with Sensor Number 19-8-23-S4AS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

| | | Actual | Calibration Gas | Allowable Range |
|------------------|---------|---------------|-----------------|-----------------|
| Incoming: | Range 1 | 0.094 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 11.33 | | <5% |
| Outgoing: | Range 1 | 0.518 ppm H2S | 0.500 ppm H2S | +/- 6% |
| | RSD % | 2.11 | | <5% |

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 17-Oct-2019 Recalibration Date: 16-Oct-2020

Temperature °F: 70.60 % Relative Humidity: 32.90

Approved By: Jackie Kreitlow
Title: Jackie Kreitlow - Quality Control

Date Approved: 18-Oct-2019

Equipment Used:

- H2S Calibration Standard:** CC-75664 NIST#: 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021
- Mass Flow Controller B:** 124604 NIST#: 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Mass Flow Controller D:** 124602 NIST#: 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019
- Digital Multimeter:** 74620505 NIST#: 7003079
Calibration Date: 05-Apr-2019 **Calibration Date Due:** 05-Apr-2020
- Flowmeter:** US04126032 NIST#: 1813; 1817; 1796
Calibration Date: 12-Aug-2019 **Calibration Date Due:** 12-Aug-2020

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.

Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.

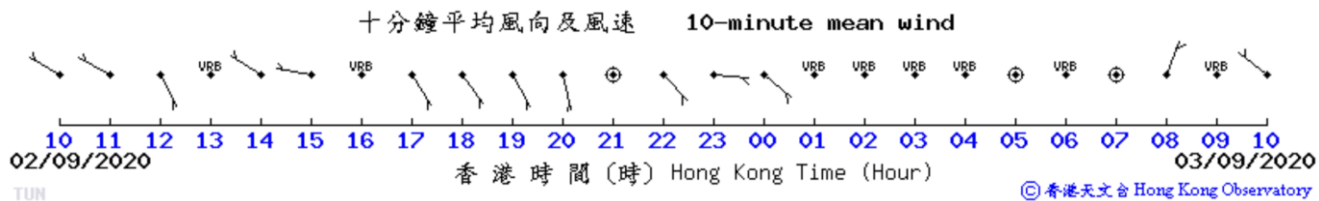
As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

Appendix G

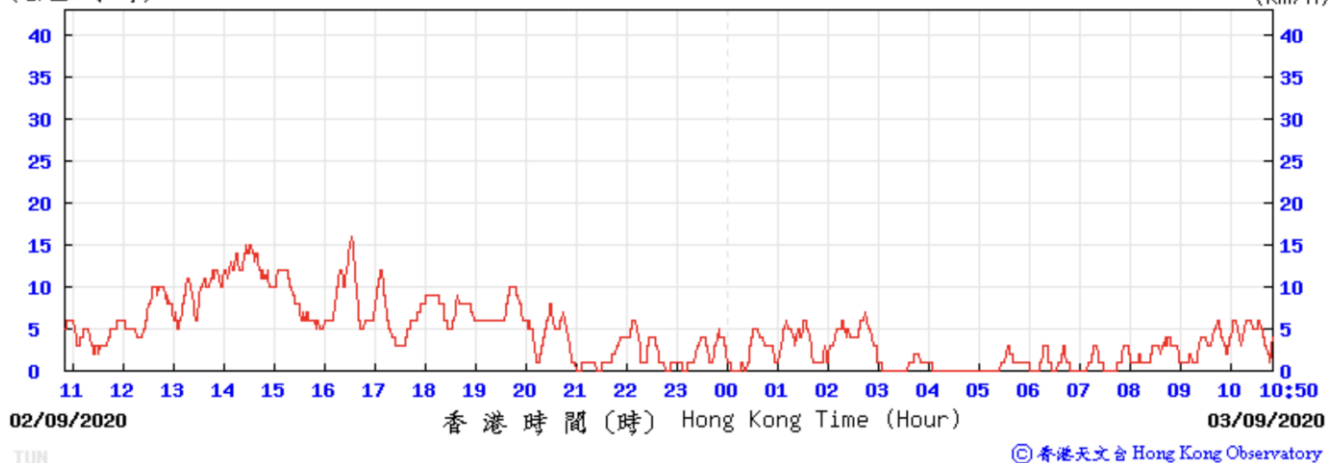
Meteorological Conditions

10-Minute Mean Wind Direction at the nearest Hong Kong Observatory's Tuen Mun Weather Station:



10-Minute Mean Wind Speed at the nearest Hong Kong Observatory's Tuen Mun Weather Station:

(公里/小時) (於香港時間 2020 年 9 月 3 日 10 時 50 分更新) (Updated at 10:50H on 3 Sep 2020)



Meteorological conditions during the fourth operation phase odour impact monitoring

| Date | Time | Weather Parameters | | |
|-------------------|------|--------------------|----------------|----------------------|
| | | Temperature | Wind Direction | Wind Speed (km/hour) |
| 02 September 2020 | 1100 | 33 | NW | 6.0 |
| | 1200 | 34 | SE | 6.0 |
| | 1300 | 33 | -- | 6.0 |
| | 1400 | 34 | NW | 12.0 |
| | 1500 | 33 | NW | 10.0 |
| | 1600 | 32 | -- | 6.0 |
| | 1700 | 30 | SE | 8.0 |
| | 1800 | 30 | SE | 8.0 |
| | 1900 | 29 | SE | 6.0 |
| | 2000 | 29 | SE | 6.0 |
| | 2100 | 29 | -- | 0.0 |
| | 2200 | 28 | SE | 4.0 |
| | 2300 | 28 | SE | 1.0 |
| | 2400 | 28 | SE | 1.0 |
| 03 September 2020 | 0100 | 28 | -- | 1.0 |
| | 0200 | 28 | -- | 1.0 |
| | 0300 | 28 | -- | 1.0 |
| | 0400 | 27 | -- | 1.0 |
| | 0500 | 27 | -- | 0.0 |
| | 0600 | 27 | -- | 1.0 |
| | 0700 | 28 | -- | 0.0 |
| | 0800 | 29 | NE | 2.0 |
| | 0900 | 31 | -- | 1.0 |
| | 1000 | 33 | NW | 4.0 |

PRESS WEATHER NO. 074 - HOURLY READINGS

HOURLY READINGS

AT 11 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 31 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 71 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 6. THE INTENSITY OF UV RADIATION WAS HIGH.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 32 DEGREES; |
| WONG CHUK HANG | 32 DEGREES; |
| TA KWU LING | 33 DEGREES; |
| LAU FAU SHAN | 31 DEGREES; |
| TAI PO | 32 DEGREES; |
| SHA TIN | 34 DEGREES; |
| TUEN MUN | 33 DEGREES; |
| TSEUNG KWAN O | 34 DEGREES; |
| SAI KUNG | 33 DEGREES; |
| CHEUNG CHAU | 31 DEGREES; |
| CHEK LAP KOK | 32 DEGREES; |
| TSING YI | 31 DEGREES; |
| SHEK KONG | 33 DEGREES; |
| TSUEN WAN HO KOON | 31 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 33 DEGREES; |
| HONG KONG PARK | 33 DEGREES; |
| SHAU KEI WAN | 33 DEGREES; |
| KOWLOON CITY | 33 DEGREES; |
| HAPPY VALLEY | 35 DEGREES; |
| WONG TAI SIN | 33 DEGREES; |
| STANLEY | 32 DEGREES; |
| KWUN TONG | 34 DEGREES; |
| SHAM SHUI PO | 33 DEGREES; |
| KAI TAK RUNWAY PARK | 33 DEGREES; |
| YUEN LONG PARK | 34 DEGREES; |
| TAI MEI TUK | 35 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 11:02 HKT ON 02.09.2020

PRESS WEATHER NO. 080 - HOURLY READINGS

HOURLY READINGS

AT NOON AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 32 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 69 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 7. THE INTENSITY OF UV RADIATION WAS HIGH.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 32 DEGREES; |
| WONG CHUK HANG | 33 DEGREES; |
| TA KWU LING | 34 DEGREES; |
| LAU FAU SHAN | 32 DEGREES; |
| TAI PO | 32 DEGREES; |
| SHA TIN | 34 DEGREES; |
| TUEN MUN | 34 DEGREES; |
| TSEUNG KWAN O | 34 DEGREES; |
| SAI KUNG | 34 DEGREES; |
| CHEUNG CHAU | 33 DEGREES; |
| CHEK LAP KOK | 33 DEGREES; |
| TSING YI | 32 DEGREES; |
| SHEK KONG | 34 DEGREES; |
| TSUEN WAN HO KOON | 31 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 33 DEGREES; |
| HONG KONG PARK | 33 DEGREES; |
| SHAU KEI WAN | 35 DEGREES; |
| KOWLOON CITY | 34 DEGREES; |
| HAPPY VALLEY | 35 DEGREES; |
| WONG TAI SIN | 35 DEGREES; |
| STANLEY | 32 DEGREES; |
| KWUN TONG | 34 DEGREES; |
| SHAM SHUI PO | 34 DEGREES; |
| KAI TAK RUNWAY PARK | 33 DEGREES; |
| YUEN LONG PARK | 35 DEGREES; |
| TAI MEI TUK | 35 DEGREES. |

NO RAINFALL WAS RECORDED AT THE HONG KONG OBSERVATORY BETWEEN MIDNIGHT LAST NIGHT AND MIDDAY TODAY.

DISPATCHED BY HONG KONG OBSERVATORY AT 12:02 HKT ON 02.09.2020

PRESS WEATHER NO. 088 - HOURLY READINGS

HOURLY READINGS

AT 1 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 33 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 67 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 8. THE INTENSITY OF UV RADIATION WAS VERY HIGH.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 33 DEGREES; |
| WONG CHUK HANG | 33 DEGREES; |
| TA KWU LING | 35 DEGREES; |
| LAU FAU SHAN | 32 DEGREES; |
| TAI PO | 33 DEGREES; |
| SHA TIN | 35 DEGREES; |
| TUEN MUN | 33 DEGREES; |
| TSEUNG KWAN O | 34 DEGREES; |
| SAI KUNG | 34 DEGREES; |
| CHEUNG CHAU | 34 DEGREES; |
| CHEK LAP KOK | 34 DEGREES; |
| TSING YI | 33 DEGREES; |
| SHEK KONG | 34 DEGREES; |
| TSUEN WAN HO KOON | 31 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 33 DEGREES; |
| HONG KONG PARK | 34 DEGREES; |
| SHAU KEI WAN | 33 DEGREES; |
| KOWLOON CITY | 35 DEGREES; |
| HAPPY VALLEY | 35 DEGREES; |
| WONG TAI SIN | 34 DEGREES; |
| STANLEY | 32 DEGREES; |
| KWUN TONG | 35 DEGREES; |
| SHAM SHUI PO | 35 DEGREES; |
| KAI TAK RUNWAY PARK | 33 DEGREES; |
| YUEN LONG PARK | 35 DEGREES; |
| TAI MEI TUK | 35 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 13:02 HKT ON 02.09.2020

PRESS WEATHER NO. 096 - HOURLY READINGS

HOURLY READINGS

AT 2 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 34 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 62 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 6. THE INTENSITY OF UV RADIATION WAS HIGH.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 3:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER HONG KONG.

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 33 DEGREES; |
| WONG CHUK HANG | 33 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 33 DEGREES; |
| TAI PO | 31 DEGREES; |
| SHA TIN | 35 DEGREES; |
| TUEN MUN | 34 DEGREES; |
| TSEUNG KWAN O | 34 DEGREES; |
| SAI KUNG | 33 DEGREES; |
| CHEUNG CHAU | 33 DEGREES; |
| CHEK LAP KOK | 34 DEGREES; |
| TSING YI | 34 DEGREES; |
| SHEK KONG | 35 DEGREES; |
| TSUEN WAN HO KOON | 31 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 33 DEGREES; |
| HONG KONG PARK | 33 DEGREES; |
| SHAU KEI WAN | 33 DEGREES; |
| KOWLOON CITY | 33 DEGREES; |
| HAPPY VALLEY | 34 DEGREES; |
| WONG TAI SIN | 35 DEGREES; |
| STANLEY | 32 DEGREES; |
| KWUN TONG | 35 DEGREES; |
| SHAM SHUI PO | 34 DEGREES; |
| KAI TAK RUNWAY PARK | 34 DEGREES; |
| YUEN LONG PARK | 36 DEGREES; |
| TAI MEI TUK | 32 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 14:02 HKT ON 02.09.2020

PRESS WEATHER NO. 104 - HOURLY READINGS

HOURLY READINGS

AT 3 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 32 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 67 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 5:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER HONG KONG.

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 33 DEGREES; |
| TA KWU LING | 29 DEGREES; |
| LAU FAU SHAN | 33 DEGREES; |
| TAI PO | 30 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 33 DEGREES; |
| TSEUNG KWAN O | 27 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 33 DEGREES; |
| CHEK LAP KOK | 34 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 34 DEGREES; |
| TSUEN WAN HO KOON | 30 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 30 DEGREES; |
| HONG KONG PARK | 32 DEGREES; |
| SHAU KEI WAN | 31 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 34 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 33 DEGREES; |
| KWUN TONG | 28 DEGREES; |
| SHAM SHUI PO | 26 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 35 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 15:02 HKT ON 02.09.2020

PRESS WEATHER NO. 108 - HOURLY READINGS

HOURLY READINGS

AT 4 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 78 PER CENT. DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.9. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 5:00 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER HONG KONG.

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 28 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 31 DEGREES; |
| TUEN MUN | 32 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 30 DEGREES; |
| CHEUNG CHAU | 33 DEGREES; |
| CHEK LAP KOK | 33 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 32 DEGREES; |
| TSUEN WAN HO KOON | 28 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 30 DEGREES; |
| HONG KONG PARK | 30 DEGREES; |
| SHAU KEI WAN | 28 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 27 DEGREES; |
| KWUN TONG | 29 DEGREES; |
| SHAM SHUI PO | // DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 33 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 16:02 HKT ON 02.09.2020

PRESS WEATHER NO. 126 - HOURLY READINGS

HOURLY READINGS

AT 5 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 70 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.4. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE THUNDERSTORM WARNING HAS BEEN ISSUED. IT WILL REMAIN EFFECTIVE UNTIL 6:30 P.M. TODAY. ISOLATED THUNDERSTORMS ARE EXPECTED TO OCCUR OVER HONG KONG.

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 31 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 30 DEGREES; |
| SHA TIN | 31 DEGREES; |
| TUEN MUN | 30 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 30 DEGREES; |
| CHEUNG CHAU | 31 DEGREES; |
| CHEK LAP KOK | 32 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 31 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 30 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 30 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 30 DEGREES. |

BETWEEN 3:45 AND 4:45 P.M., LIGHTNING WAS DETECTED OVER ALL REGIONS. THE RAINFALL RECORDED IN VARIOUS REGIONS WERE:

DISPATCHED BY HONG KONG OBSERVATORY AT 17:02 HKT ON 02.09.2020

PRESS WEATHER NO. 144 - HOURLY READINGS

HOURLY READINGS

AT 7 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 31 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 73 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 29 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 30 DEGREES; |
| CHEUNG CHAU | 29 DEGREES; |
| CHEK LAP KOK | 31 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 30 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 30 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 30 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 31 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 19:02 HKT ON 02.09.2020

PRESS WEATHER NO. 150 - HOURLY READINGS

HOURLY READINGS

AT 8 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 31 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 77 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 28 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 30 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 31 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 30 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 30 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 32 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 30 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 20:02 HKT ON 02.09.2020

PRESS WEATHER NO. 164 - HOURLY READINGS

HOURLY READINGS

AT 10 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 28 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 31 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 32 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 30 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 22:02 HKT ON 02.09.2020

PRESS WEATHER NO. 168 - HOURLY READINGS

HOURLY READINGS

AT 11 P.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 82 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 31 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 30 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 29 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 23:02 HKT ON 02.09.2020

PRESS WEATHER NO. 004 - HOURLY READINGS

HOURLY READINGS

AT MIDNIGHT AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 81 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 27 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 30 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 28 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 27 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 29 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 00:02 HKT ON 03.09.2020

PRESS WEATHER NO. 010 - HOURLY READINGS

HOURLY READINGS

AT 1 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 29 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | // DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 29 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 01:02 HKT ON 03.09.2020

PRESS WEATHER NO. 014 - HOURLY READINGS

HOURLY READINGS

AT 2 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 29 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 28 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 02:02 HKT ON 03.09.2020

PRESS WEATHER NO. 018 - HOURLY READINGS

HOURLY READINGS

AT 3 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 28 DEGREES; |
| YUEN LONG PARK | 28 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 03:02 HKT ON 03.09.2020

PRESS WEATHER NO. 026 - HOURLY READINGS

HOURLY READINGS

AT 4 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 28 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 27 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 04:02 HKT ON 03.09.2020

PRESS WEATHER NO. 030 - HOURLY READINGS

HOURLY READINGS

AT 5 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 86 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 28 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 28 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 30 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 28 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 28 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 27 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 05:02 HKT ON 03.09.2020

PRESS WEATHER NO. 042 - HOURLY READINGS

HOURLY READINGS

AT 6 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 84 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 27 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 28 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 28 DEGREES; |
| TUEN MUN | 27 DEGREES; |
| TSEUNG KWAN O | 28 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 27 DEGREES; |
| CHEK LAP KOK | 29 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 26 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 28 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 28 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 28 DEGREES; |
| TAI MEI TUK | 28 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 06:02 HKT ON 03.09.2020

PRESS WEATHER NO. 052 - HOURLY READINGS

HOURLY READINGS

AT 7 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 29 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 84 PER CENT.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|-------------|
| KING'S PARK | 29 DEGREES; |
| WONG CHUK HANG | 28 DEGREES; |
| TA KWU LING | 26 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 28 DEGREES; |
| SHA TIN | 29 DEGREES; |
| TUEN MUN | 28 DEGREES; |
| TSEUNG KWAN O | 29 DEGREES; |
| SAI KUNG | 29 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 30 DEGREES; |
| TSING YI | 28 DEGREES; |
| SHEK KONG | 27 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 26 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 29 DEGREES; |
| KOWLOON CITY | 29 DEGREES; |
| HAPPY VALLEY | 29 DEGREES; |
| WONG TAI SIN | 29 DEGREES; |
| STANLEY | 28 DEGREES; |
| KWUN TONG | 31 DEGREES; |
| SHAM SHUI PO | 29 DEGREES; |
| KAI TAK RUNWAY PARK | 29 DEGREES; |
| YUEN LONG PARK | 28 DEGREES; |
| TAI MEI TUK | 29 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 07:02 HKT ON 03.09.2020

PRESS WEATHER NO. 060 - HOURLY READINGS

HOURLY READINGS

AT 8 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 85 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 0.4. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 29 DEGREES; |
| TA KWU LING | 28 DEGREES; |
| LAU FAU SHAN | 29 DEGREES; |
| TAI PO | 29 DEGREES; |
| SHA TIN | 31 DEGREES; |
| TUEN MUN | 29 DEGREES; |
| TSEUNG KWAN O | 30 DEGREES; |
| SAI KUNG | 31 DEGREES; |
| CHEUNG CHAU | 28 DEGREES; |
| CHEK LAP KOK | 31 DEGREES; |
| TSING YI | 29 DEGREES; |
| SHEK KONG | 29 DEGREES; |
| TSUEN WAN HO KOON | 27 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 28 DEGREES; |
| HONG KONG PARK | 29 DEGREES; |
| SHAU KEI WAN | 31 DEGREES; |
| KOWLOON CITY | 31 DEGREES; |
| HAPPY VALLEY | 30 DEGREES; |
| WONG TAI SIN | 31 DEGREES; |
| STANLEY | 29 DEGREES; |
| KWUN TONG | 32 DEGREES; |
| SHAM SHUI PO | 30 DEGREES; |
| KAI TAK RUNWAY PARK | 30 DEGREES; |
| YUEN LONG PARK | 30 DEGREES; |
| TAI MEI TUK | 30 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 08:02 HKT ON 03.09.2020

PRESS WEATHER NO. 066 - HOURLY READINGS

HOURLY READINGS

AT 9 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 30 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 83 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 2. THE INTENSITY OF UV RADIATION WAS LOW.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 30 DEGREES; |
| WONG CHUK HANG | 32 DEGREES; |
| TA KWU LING | 30 DEGREES; |
| LAU FAU SHAN | 30 DEGREES; |
| TAI PO | 30 DEGREES; |
| SHA TIN | 32 DEGREES; |
| TUEN MUN | 31 DEGREES; |
| TSEUNG KWAN O | 32 DEGREES; |
| SAI KUNG | 33 DEGREES; |
| CHEUNG CHAU | 30 DEGREES; |
| CHEK LAP KOK | 32 DEGREES; |
| TSING YI | 31 DEGREES; |
| SHEK KONG | 31 DEGREES; |
| TSUEN WAN HO KOON | 30 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 30 DEGREES; |
| HONG KONG PARK | 31 DEGREES; |
| SHAU KEI WAN | 32 DEGREES; |
| KOWLOON CITY | 32 DEGREES; |
| HAPPY VALLEY | 32 DEGREES; |
| WONG TAI SIN | 33 DEGREES; |
| STANLEY | 31 DEGREES; |
| KWUN TONG | 34 DEGREES; |
| SHAM SHUI PO | 32 DEGREES; |
| KAI TAK RUNWAY PARK | 31 DEGREES; |
| YUEN LONG PARK | 33 DEGREES; |
| TAI MEI TUK | 31 DEGREES. |

BETWEEN MIDNIGHT AND 9 A.M. THE MINIMUM TEMPERATURE WAS 29.2 DEGREES CELSIUS AT THE HONG KONG OBSERVATORY.

DISPATCHED BY HONG KONG OBSERVATORY AT 09:02 HKT ON 03.09.2020

PRESS WEATHER NO. 076 - HOURLY READINGS

HOURLY READINGS

AT 10 A.M. AT THE HONG KONG OBSERVATORY THE AIR TEMPERATURE WAS 31 DEGREES CELSIUS AND THE RELATIVE HUMIDITY 75 PER CENT.

DURING THE PAST HOUR THE MEAN UV INDEX RECORDED AT KING'S PARK WAS 3. THE INTENSITY OF UV RADIATION WAS MODERATE.

PLEASE BE REMINDED THAT:

THE VERY HOT WEATHER WARNING IS NOW IN FORCE. THE PUBLIC SHOULD BEWARE OF HEATSTROKE AND DRINK MORE WATER.

THE AIR TEMPERATURES AT OTHER PLACES WERE:

| | |
|----------------------------|--------------------|
| KING'S PARK | 31 DEGREES; |
| WONG CHUK HANG | 32 DEGREES; |
| TA KWU LING | 32 DEGREES; |
| LAU FAU SHAN | 31 DEGREES; |
| TAI PO | 31 DEGREES; |
| SHA TIN | 34 DEGREES; |
| TUEN MUN | 33 DEGREES; |
| TSEUNG KWAN O | 34 DEGREES; |
| SAI KUNG | 33 DEGREES; |
| CHEUNG CHAU | 31 DEGREES; |
| CHEK LAP KOK | 33 DEGREES; |
| TSING YI | 32 DEGREES; |
| SHEK KONG | 32 DEGREES; |
| TSUEN WAN HO KOON | 30 DEGREES; |
| TSUEN WAN SHING MUN VALLEY | 33 DEGREES; |
| HONG KONG PARK | 32 DEGREES; |
| SHAU KEI WAN | 34 DEGREES; |
| KOWLOON CITY | 32 DEGREES; |
| HAPPY VALLEY | 34 DEGREES; |
| WONG TAI SIN | 34 DEGREES; |
| STANLEY | 31 DEGREES; |
| KWUN TONG | 34 DEGREES; |
| SHAM SHUI PO | 34 DEGREES; |
| KAI TAK RUNWAY PARK | 33 DEGREES; |
| YUEN LONG PARK | 34 DEGREES; |
| TAI MEI TUK | 35 DEGREES. |

DISPATCHED BY HONG KONG OBSERVATORY AT 10:02 HKT ON 03.09.2020

E. Incident Report on Action Level or Limit Level Exceedance

2nd Impact Odour Monitoring

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|---|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 18 Feb 2020 (11am) to 19 Feb 2020 (10:59am), Total 24hrs |
| Time | From 18 Feb 2020 (11am) to 19 Feb 2020 (10:59am), Total 24hrs |
| Monitoring Location | A2 (Planned Primary School) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.3 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.6 ppb |
| Possible reason for Action or Limit Level Non-compliance | <ol style="list-style-type: none"> 1. At A2, it is observed that half of the sampling events throughout the 24-hrs monitoring period, the H₂S conc. at A2 is higher than at source. 2. Also, at Sample 3 & 4, the H₂S conc. at A2 is 31-44% higher than at source. 3. Under the above observations, it is considered that the source is not the major contributor to H₂S conc. at A2 during sample 3 & 4, and thus the exceedance at A2 is not project related. |
| Actions taken / to be taken | Since the exceedance at A2 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | <ol style="list-style-type: none"> 1. Refer to the site observation at A2 during the monitoring period, no significant H₂S source was identified. 2. Detailed monitoring data will be presented in the Second Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |


Prepared by:

Thomas CHAN

Designation:

Environmental Team Leader (ETL)

Signature:



Date:

24 Feb 2020

3rd Impact Odour Monitoring

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|--|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Time | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Monitoring Location | A1 (Planned Primary School) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.5 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.7 ppb |
| Possible reason for Action or Limit Level Non-compliance | <ol style="list-style-type: none">1. At A1, it is observed that 3 of the 8 sampling events throughout the 24-hrs monitoring period, the H₂S conc. at A1 is higher than at source.2. Also, at Sample 2, 3 & 5, the H₂S conc. at A1 is 23-45.8% higher than at source.3. Under the above observations, it is considered that the source is not the major contributor to H₂S conc. at A1 during sample 2, 3 & 5, and thus the exceedance at A1 is not project related. |
| Actions taken / to be taken | Since the exceedance at A1 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | <ol style="list-style-type: none">1. Refer to the site observation at A1 during the monitoring period, no significant H₂S source was identified.2. Detailed monitoring data will be presented in the Third Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |

Prepared by: Thomas CHAN

Designation: Environmental Team Leader (ETL)

Signature: 


Date: 4 June 2020

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|--|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Time | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Monitoring Location | A2 (Planned Primary School) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.3 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.4 ppb |
| Possible reason for Action or Limit Level Non-compliance | 1. At A2, it is observed that 3 out of the 8 sampling events throughout the 24-hrs monitoring period, the H ₂ S conc. at A2 is higher than at source. 2. Also, at Sample 2 & 3, the H ₂ S conc. at A2 is 19 - 20% higher than at source. 3. Under the above observations, it is considered that the source is not the major contributor to H ₂ S conc. at A2 during sample 2 & 3, and thus the exceedance at A2 is not project related. |
| Actions taken / to be taken | Since the exceedance at A2 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | 1. Refer to the site observation at A2 during the monitoring period, no significant H ₂ S source was identified. 2. Detailed monitoring data will be presented in the Third Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |

Prepared by: Thomas CHAN

Designation: Environmental Team Leader (ETL)

Signature: 

Date: 4 June 2020

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|--|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Time | From 27 May 2020 (11am) to 28 May 2020 (10:59am), Total 24hrs |
| Monitoring Location | A5 (Road connecting to TMA54SPS) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.5 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.9 ppb |
| Possible reason for Action or Limit Level Non-compliance | <ol style="list-style-type: none"> 1. At A5, it is observed that over half of the sampling events throughout the 24-hrs monitoring period, the H₂S conc. at A5 is higher than at source. 2. Also, at Sample 1, 2, 3 & 6, the H₂S conc. at A2 is 10 - 43% higher than at source. 3. Under the above observations, it is considered that the source is not the major contributor to H₂S conc. at A5 during sample 1, 2, 3 & 6, and thus the exceedance at A5 is not project related. |
| Actions taken / to be taken | Since the exceedance at A5 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | <ol style="list-style-type: none"> 1. Refer to the site observation at A5 during the monitoring period, no significant H₂S source was identified. 2. Detailed monitoring data will be presented in the Third Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |

Prepared by: Thomas CHAN

Designation: Environmental Team Leader (ETL)

Signature: 

Date: 4 June 2020

4th Impact Odour Monitoring

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|--|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 2 September 2020 (11am) to 3 September 2020 (10:59am), Total 24hrs |
| Time | From 2 September 2020 (11am) to 3 September 2020 (10:59am), Total 24hrs |
| Monitoring Location | A2 (Planned Primary School) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.3 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.4 ppb |
| Possible reason for Action or Limit Level Non-compliance | <ol style="list-style-type: none"> 1. At A2, it is observed that 2 out of the 8 sampling events throughout the 24-hrs monitoring period, the H₂S conc. at A2 is higher than at source. 2. Also, at Sample 2 & 3, the H₂S conc. at A2 is 14 - 17% higher than at source. 3. Under the above observations, it is considered that the source is not the major contributor to H₂S conc. at A2 during sample 2 & 3, and thus the exceedance at A2 is not project related. |
| Actions taken / to be taken | Since the exceedance at A2 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | <ol style="list-style-type: none"> 1. Refer to the site observation at A2 during the monitoring period, no significant H₂S source was identified. 2. Detailed monitoring data will be presented in the Fourth Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |

Prepared by: Thomas CHAN

Designation: Environmental Team Leader (ETL)

Signature: 


Date: 9 September 2020

Incident Report on Action Level or Limit Level Exceedance

| | |
|--|--|
| Project | Tuen Mun Area 54 Sewage Pumping Station |
| Date | From 2 September 2020 (11am) to 3 September 2020 (10:59am), Total 24hrs |
| Time | From 2 September 2020 (11am) to 3 September 2020 (10:59am), Total 24hrs |
| Monitoring Location | A5 (Road connecting to TMA54SPS) |
| Parameter | Odour (H ₂ S concentration) |
| Action & Limit Levels | Action Level: 2.5 ppb Limit Level: 2.5 ppb |
| Measured Level | 24-hr average H ₂ S conc.: 2.8 ppb |
| Possible reason for Action or Limit Level Non-compliance | <ol style="list-style-type: none">1. At A5, it is observed that 2 of the sampling events throughout the 24-hrs monitoring period, the H₂S conc. at A5 is higher than at source.2. Also, at Sample 2 & 3, the H₂S conc. at A5 is 17 - 57% higher than at source.3. Under the above observations, it is considered that the source is not the major contributor to H₂S conc. at A5 during sample 2 & 3, and thus the exceedance at A5 is not project related. |
| Actions taken / to be taken | Since the exceedance at A5 is not project related, therefore, no remedial actions is recommended. |
| Remarks / Other Observations | <ol style="list-style-type: none">1. Refer to the site observation at A5 during the monitoring period, no significant H₂S source was identified.2. Detailed monitoring data will be presented in the Fourth Operation Phase Odour Impact Monitoring Report and to be deposit to EPD for record. |

Prepared by: Thomas CHAN

Designation: Environmental Team Leader (ETL)

Signature: 

Date: 9 September 2020

