

Water Supplies Department New Works Branch Construction Division 11 Tai Yip Lane Kowloon Bay Kowloon Hong Kong

Your reference:

Date:

Our reference: HKWSD201/50/106618

22 June 2020

Attention: Mr Y M Chan

BY POST

Quotation No.: WQ/17/A071 Independent Environmental Checker for Water Supplies Department – Proposed Desalination Plant in TKO Area 137 for Contract No. 13/WSD/16 Verification of Monthly EM&A Report No.22

We refer to emails of 19 and 20 June 2020 attaching Monthly EM&A Report No.22 for the captioned project prepared by the ET.

We have no further comments and hereby verify the Monthly EM&A Report No.22 in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned or our Mr Francis Lau on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

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Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 22 (Period from 1 to 31 May 2020)

June 2020 (Rev. 0)

| | Prepared by: | Certified by: |
|-----------|-------------------|---------------------------|
| Name | Karen Cheung | Jacky Leung |
| Position | EnvironmentalTeam | Environmental Team Leader |
| Signature | d-z. | h |
| Date: | 18 June 2020 | 18 June 2020 |



Revision History

| 0 | 1 st Submission | 18 Jun 2020 |
|------|-----------------------------|-------------|
| Rev. | DESCRIPTION OF MODIFICATION | DATE |



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EXECUTIVE SUMMARY

Introduction

- A1. Penta-Ocean Concentric Joint Venture (POCJV) is contracted to carry out the Mainlaying in Tseung Kwan O under Contract No. 13/WSD/16 (hereinafter known as "the Project").
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 22nd Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O (TKO) during the reporting period from 1 May 2020 to 31 May 2020.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

A5. Key works carried out in this reporting period for the Project included the following:

| Location | Works Conducted in the reporting month | |
|----------------------------------|--|--|
| | • Working pit's excavation for DN900 HSV chamber at CH.CA4+30. | |
| Portion H of the Project Site | • Casting of concrete thrust block for the 45 degrees horizontal bend between CH.CT2+09 and CH.CT2+43 was completed in May 2020. | |
| | • The construction of inspection tee chamber at CH.CT2+47 was in-progress. | |
| | Inspection pit at downhill lane of Po Lam South Road was completed. | |
| | • Trial pit was carried out at CH.A6+30 to expose two | |
| | existing watermain crossing. Trench excavation to expose the pipe end of the cross-lane watermain was in-progress. | |
| Portion J of the Project | The construction of DN900 Horizontal Valve | |
| Site | chamber and DN150 by pass pipe were completed. | |
| | Backfilling and road reinstatement work were in- progress. | |
| | • The grouting work in working pit B was completed | |
| | on 20 May 2020 and the temporary working platform over the pit was also removed. | |
| | • Grouting work for working pit C for preventing | |
| | ingress of underground water was in-progress. | |



| Location | Works Conducted in the reporting month | | |
|----------|--|--|--|
| | Trial pit work at cycle track and drainage diversion of working pit near Hong Kong Velodrome were completed in May 2020. Inspection pit at Pit Q near HKT building and Wan Lung Road was in-progress. | | |

- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation saw cutting of concrete surface, mainlaying of pipes and inspection pits works
 - Waste generation from the construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for trial pits works and mainlaying of pipes and saw cutting of the concrete surfaces
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste

Summary of Exceedance & Investigation & Follow-up

A8. No noise monitoring was conducted in the reporting month due to the overly distant monitoring station from the works location. No project-related exceedance of the Action Level was recorded during the reporting period.

Complaint Handling and Prosecution

- A9. No project-related environmental complaint was received during the reporting period.
- A10. Neither notifications of summons nor prosecution was received for the Project.

Reporting Change

A11. There were no changes to be reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

A12. Key works in June 2020 (the next reporting month) for the Project will include the followings:



| Location | Works Conducting in the next reporting month |
|----------------------------------|--|
| Portion H of the Project Site | Construction of DN900 HSV chamber near SENTX (SENT Landfill Extension) Entrance Gate will be continued. Preparation work for construction of 137PitA, 137PitB and 137pitC near SENTX Entrance Gate will be continued. Mainlaying work for two 45 degrees bends of DN1200 MS pipe will be commenced. Construction of IT chamber and washout chamber will be continued. |
| Portion J of the Project Site | 2 nos. of work fronts implemented as scheduled for the open-trench between CH. A 06+53 to 13+70 will be continued. Pipe jacking at working Pit A, Pit B and Pit C will be continued at CH.A 13+70, CH.A 16+00 and CH.A 19+26. Excavation work and installation of temporary shoring system in working pit B and C in Wan Po Road will be continued. Mainlaying work at Landfill Stage 1's cycle track will be continued between CH.FC1+20 and CH.FC4+87. Mainlaying works in Area A and B in Landfill Stage 1 will be continued. Tree transplanting work in access road inside HK Velodrome will be commenced Inspection pit excavation at uphill lane of Po Lam South Road will be commenced. Continue inspection pit excavation in Pit Q near Wan Lung Road. Commence inspection pit excavation on footpath outside Green Valley Landfill. |

- A13. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from trial pit works, pipes mainlaying, grouting and open-trench works
 - Waste generation from construction activities
- A14. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Dust suppression by regular wetting and water spraying for trial pit, grouting, open-trench and pipe mainlaying works
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste



1. BASIC PROJECT INFORMATION

1.1 Background

The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million liters per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative fresh water resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Variation of Environmental Permit (No. EP-503/2015/A) to Water Supplies Department (WSD) for the Project on 26 January 2018.

The scope of the Contract may be considered in brief, to consist of the laying of about 10km long 1200mm diameter fresh water mains and the associated works along the alignment of the Project as shown with the overall view in **Appendix B**.



1.2 The Reporting Scope

This is the 22nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2020 to 31 May 2020.

1.3 Project Organization

The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

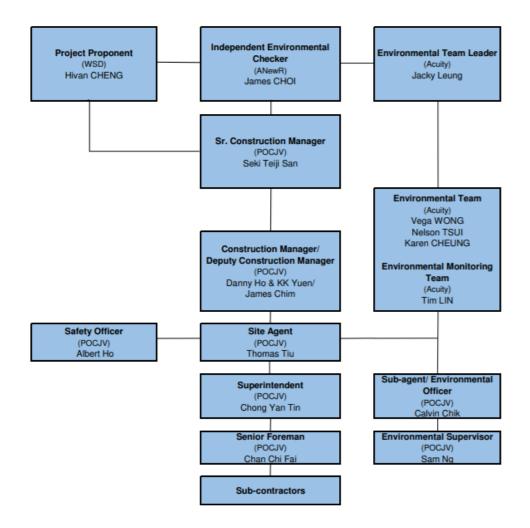


Figure 1.1 Project Organization Chart

Contact details of the key personnel are presented in **Table 1.1** below:



| Table 1.1 Contact Details of Key Personne | Table 1.1 | Contact | Details | of Key | Personnel |
|---|-----------|---------|---------|--------|-----------|
|---|-----------|---------|---------|--------|-----------|

| Party | Position | Name | Telephone no. |
|--|---|-------------|---------------|
| Penta-Ocean - Concentric Joint Venture | Environmental Officer | Calvin Chik | 9863 5630 |
| Acuity Sustainability Consulting Limited | Environmental Team Leader | Jacky Leung | 2698 6833 |
| ANewR Consulting Limited | Independent Environmental Checker | James Choi | 2618 2831 |

1.4 Summary of Construction Works

Details of the major construction works undertaken in this reporting period are shown in **Table 1.2** and the construction works locations are shown **in Appendix B**. The construction programme is presented in **Appendix A**.

| Table 1.2 Summary of the Construction Works Undertaken during the Reporting |
|---|
| Month |

| Location of works | Construction works undertaken | Remarks on progress |
|----------------------------------|--|---------------------|
| Portion H of the Project Site | Working pit's excavation for DN900 HSV chamber at CH.CA4+30. Casting of concrete thrust block for the 45 degrees horizontal bend between CH.CT2+09 and CH.CT2+43 was completed | Completed |
| | • The construction of inspection tee chamber at CH.CT2+47 was in-progress. | In progress |
| Portion J of the Project Site | Inspection pit at downhill lane of Po Lam South Road was completed. Trial pit was carried out at CH.A6+30 to expose two existing watermain crossing. The construction of DN900 Horizontal Valve chamber and DN150 by pass pipe was completed. The grouting work in working pit B was completed on 20 May 2020 and the temporary working | Completed |



| Location of works | Construction works undertaken | Remarks on progress |
|----------------------|---|---------------------|
| | platform over the pit was also removed. Trial pit work at cycle track and drainage diversion of working pit near Hong Kong Velodrome were completed in May 2020. | |
| | Trench excavation to expose the pipe end of the cross-lane watermain was in-progress at CH.A6+30. Backfilling and road reinstatement work were in- progress at the CH.A12+45 combine thrust block. Grouting work for working pit C for preventing ingress of underground water was in- progress Inspection pit at Pit Q near HKT building and Wan Lung Road was in-progress. | In progress |

1.5 Summary of Environmental Status

A summary of the valid permits, licences, and or notifications on environmental protection for this Project is presented in **Table 1.3**.



Table 1.3 Summary of the Status of Valid Environmental Licence, Notification,Permit and Documentations

| Permit/ Licences/ Notification | Reference | Validity Period | Remarks |
|--|------------------------|-------------------------|---------|
| Variation of Environmental Permit | EP no.: EP-503/2015/A | Throughout the Contract | - |
| Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA) | Ref no.: 423775 | Throughout the Contract | - |
| Chemical Waste Producer Registration | WPN: 5213-839-P3287-01 | Throughout the Contract | - |
| Billing Account for Disposal of Construction Waste | A/C no.: 7029491 | Throughout the Contract | - |
| Water Discharge Licence | WT00032336-2018 | Until 31 Dec 2023 | - |
| Construction Noise Permit | GW-RE1016-19 | Until 29 June 2020 | - |
| Construction Noise Permit (Hong Kong Velodrome) | GW-RE0364-20 | Until 17 November 2020 | - |

The status for all environmental aspects is presented Table 1.4.

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

| Parameters | Status | | |
|--|--|--|--|
| | Noise | | |
| Baseline Monitoring | The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4 | | |
| Impact Monitoring | On-going | | |
| Waste Management | | | |
| Mitigation Measures in Waste Monitoring Plan On-going | | | |
| | Landfill Gas | | |
| Impact Monitoring | On-going | | |
| | Environmental Audit | | |
| Site Inspection | On-going | | |

Other than the EM&A works by ET, regular environmental management meetings were conducted in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.



2. NOISE MONITORING

2.1 Monitoring Requirements

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 – Creative Secondary School, (ii) NSR24 – PLK Laws Foundation College, and (iii) NSR31 – School of Continuing and Professional Studies – CUHK respectively.

In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring will be conducted once per week in the form of 30-minute measurements Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

No impact monitoring for noise impact was conducted in the reporting month due to the overly distant monitoring station from the works location, where they were farther than 1 km from the closet monitoring station NSR4 to the works location.

2.2 Noise Monitoring Parameters, Time, Frequency

Impact noise monitoring will be conducted weekly in the reporting period between 0700-1900 on normal weekdays. No construction works were carried out during 1900-0700 in all days or any time on Sundays or general holidays during the reporting period.

Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq _{30min} was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring. The monitoring schedule is provided in **Appendix D**.

| Time | Frequency | Duration | Parameters |
|-----------------------|---------------|---|---|
| Daytime: 0700-1900 | Once per week | Continuously in L _{eq 5min} /L _{eq 30min} (average of 6 consecutive L _{eq 5min}) | L _{eq} , L ₁₀ & L ₉₀ |

| TILL OANL' | N.A | D | | | |
|-----------------|--------------|-------------|-------|-----------|----------------|
| Table 2.1 Noise | Ivionitoring | Parameters, | lime, | Frequency | / and Duration |



2.3 Noise Monitoring Locations

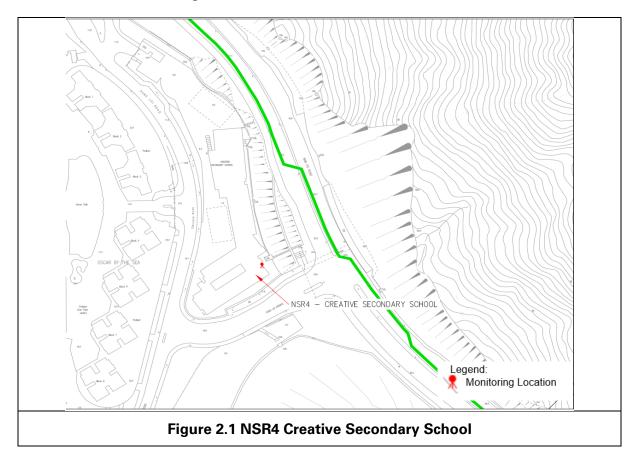
The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

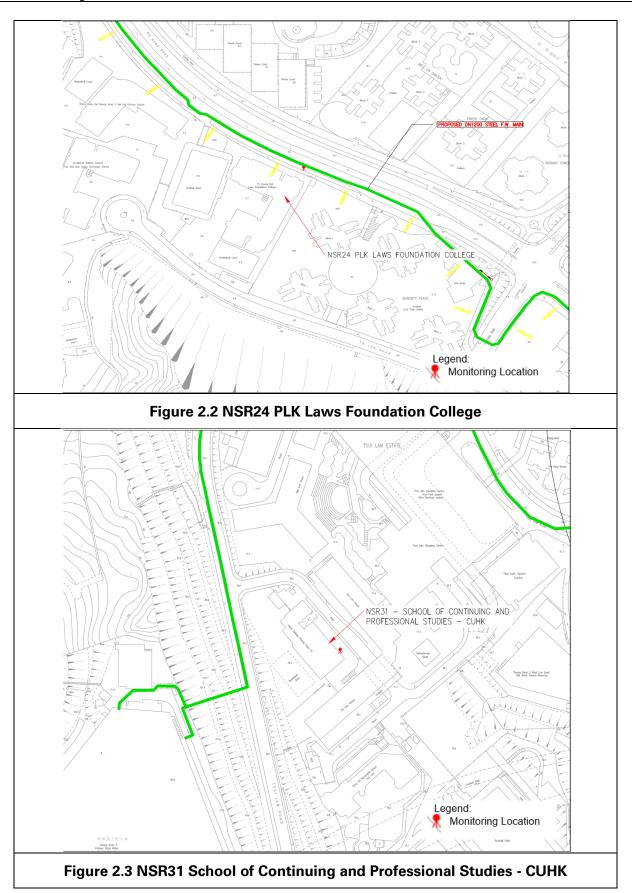
| NSR ID | Noise Sensitive Receivers | Monitoring Location | Position |
|--------|---|------------------------------------|-----------------|
| NSR 4 | Creative Secondary School | Roof Floor | 1 m from facade |
| NSR 24 | PLK Laws Foundation College | Pedestrian Road on Ground Floor | Free-field |
| NSR 31 | School of Continuing and Professional Studies - CUHK | Roof Floor | 1 m from facade |

Table 2.2 Noise Monitoring Location

Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.









2.4 Impact Monitoring Methodology

Integrated sound level meter shall be used for the noise monitoring. The meter shall be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used are presented in **Appendix E**. **Appendix E** is intentionally left blank since no impact monitoring equipment was used in the reporting month.

Noise measurements shall not be made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

| Equipment | Brand and Model | Detection Limit |
|---------------------------------|----------------------------|-----------------|
| Sound Level Meter | Nti XL2 | 30-130 dB(A) |
| Sound Level Meter Calibrator | Rion NC-74 | Nil |
| Pocket Wind Meter Anemometer | Kestrel 1000 Wind Meter | Nil |

Table 2.3 Impact Noise Monitoring Equipment

2.5 Action and Limit Levels

The Action/Limit Levels in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.4**.

Table 2.4 Action and Limit Levels for Noise

| Time Period | Action | Limit (dB(A)) | |
|---|--|---|--|
| 0700-1900 on normal weekdays | When one documented complaint is received from any one of the noise sensitive receivers | 70 dB(A) for school and 65 dB(A) during examination period | |
| Notes: (a) Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively. | | | |

If exceedances were found during noise monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix F**.



2.6 Monitoring Results and Observations

Referring to EM&A manual Section 4.1.2, no impact monitoring for noise impact was conducted in the reporting period.

Detailed monitoring results are presented in **Appendix G**. **Appendix G** is intentionally left blank since there is no impact monitoring for noise impact in the reporting month.

3. WASTE MANAGEMENT

3.1 The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.1. Details of cumulative waste management data are presented as a waste flow table in Appendix H.

| | Quantity | | | | | |
|------------------|---------------------------------------|----------------------------------|-------------------------------------|---------------------------------|----------------------------|--------------------------|
| | | | No | n-inert C&D Mater | ials | |
| Reporting period | Inert C&D Materials (in '000m3) | Chemical Waste (in '000kg) | Others, e.g. Recycled materials | | | |
| | | | disposed at Landfill (in '000m3) | Paper/card board (in '000kg) | Plastics (in ′000kg) | Metals (in '000kg) |
| May-20 | 1.294 | 0.000 | 0.004 | 0.058 | 0.000 | 0.000 |

Table 3.1 Quantities of waste generated from the Project



4. LANDFILL GAS MONITORING

4.1 Monitoring Requirement

In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter fresh water mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

4.2 Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the consultation Zone. In this reporting period, 606 times of monitoring was recorded.

During construction of works within the consultation zones, excavations of 1m depth or more was monitored:

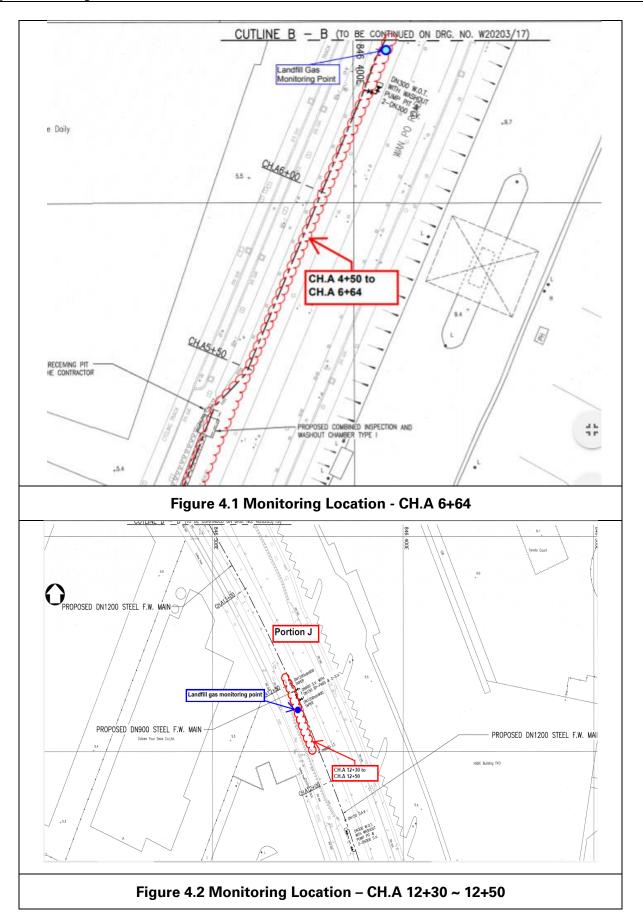
- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

For excavations between 300mm and 1m deep, measurements should be carried out:

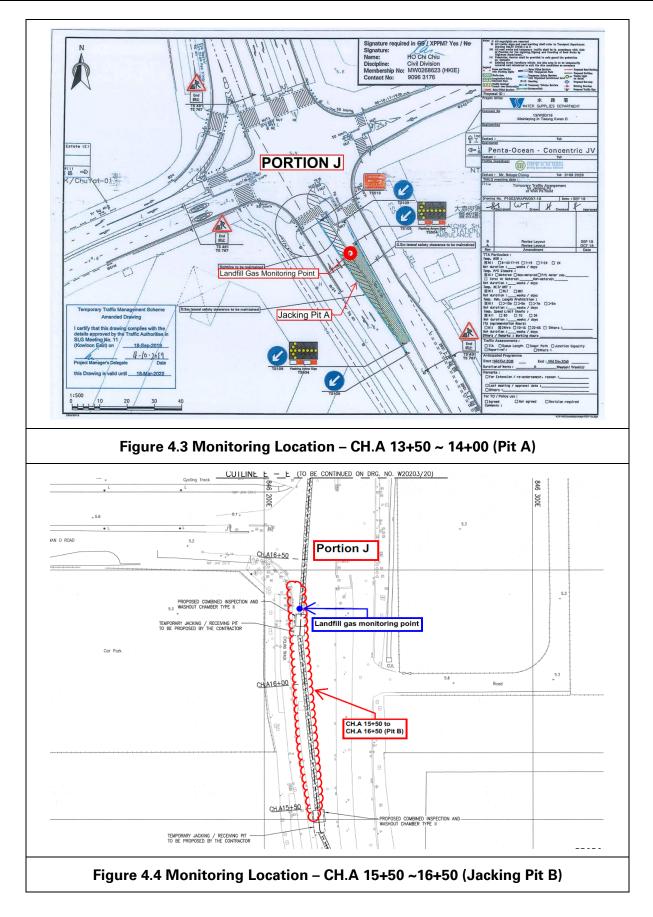
- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.13**.

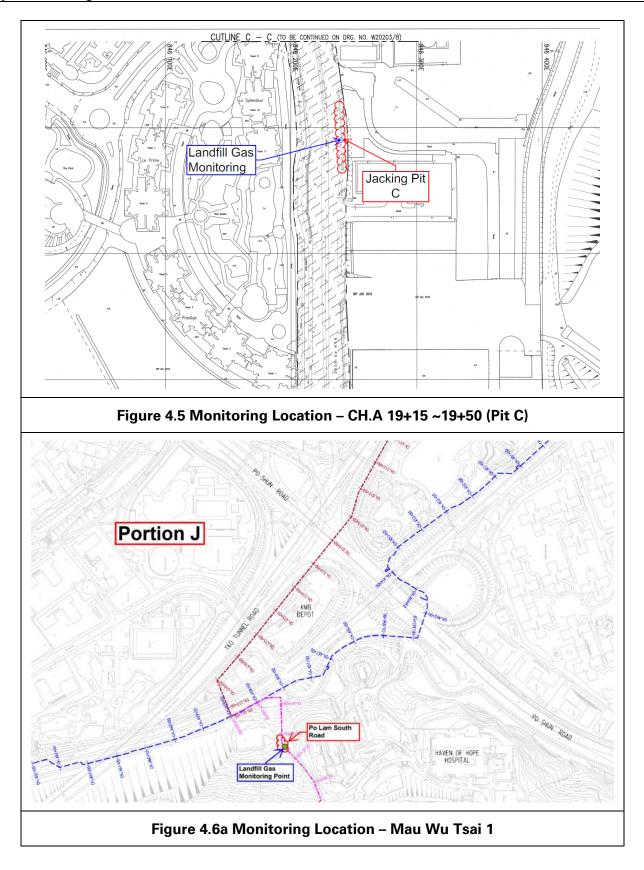




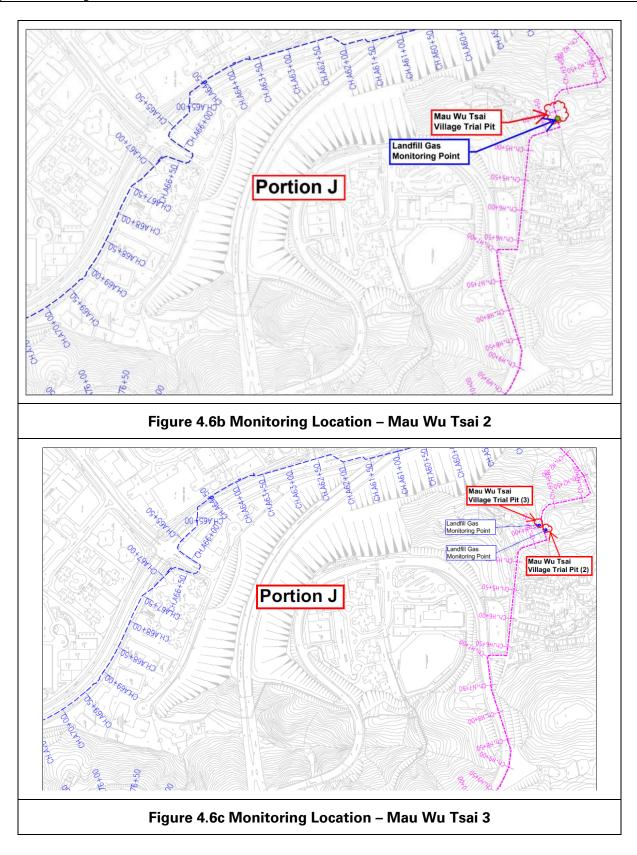














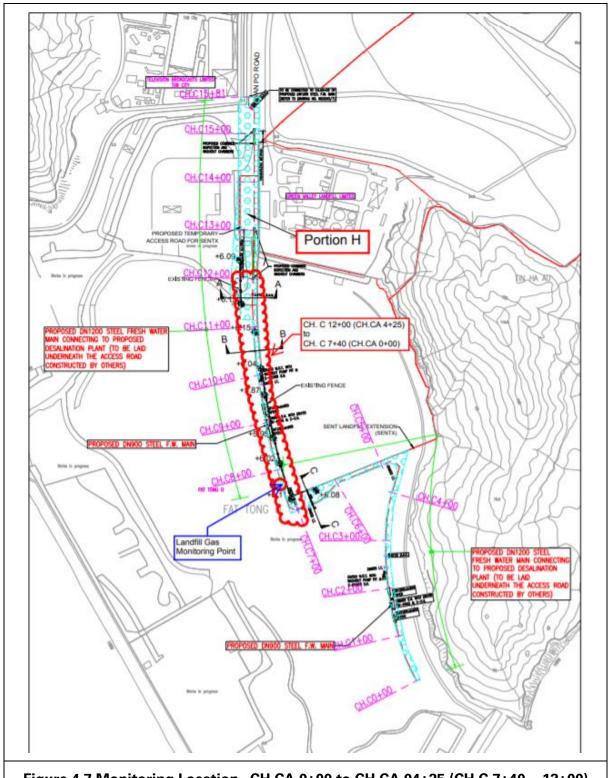
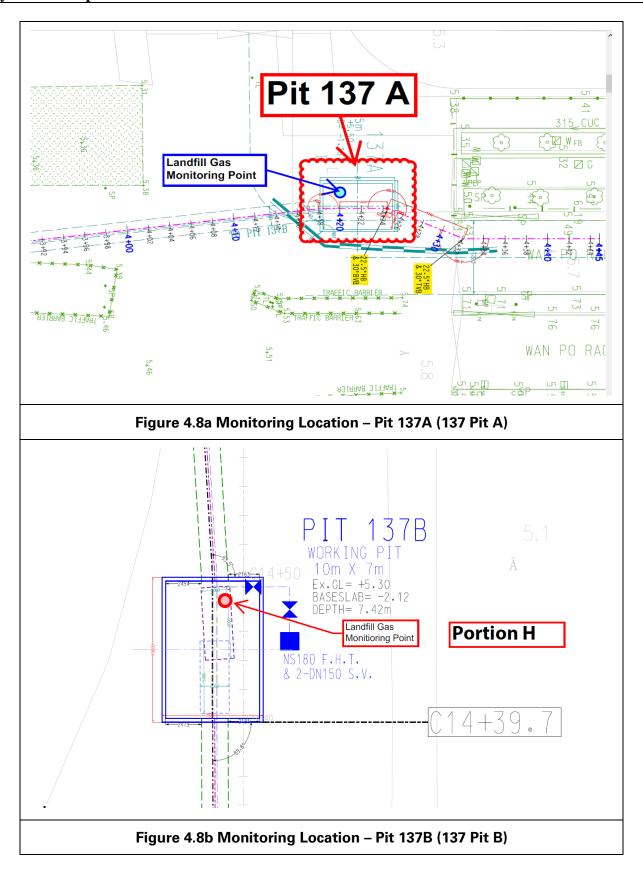
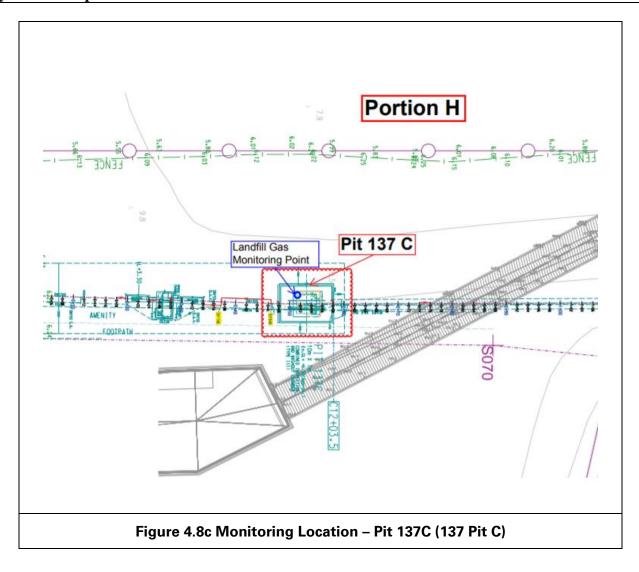


Figure 4.7 Monitoring Location –CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

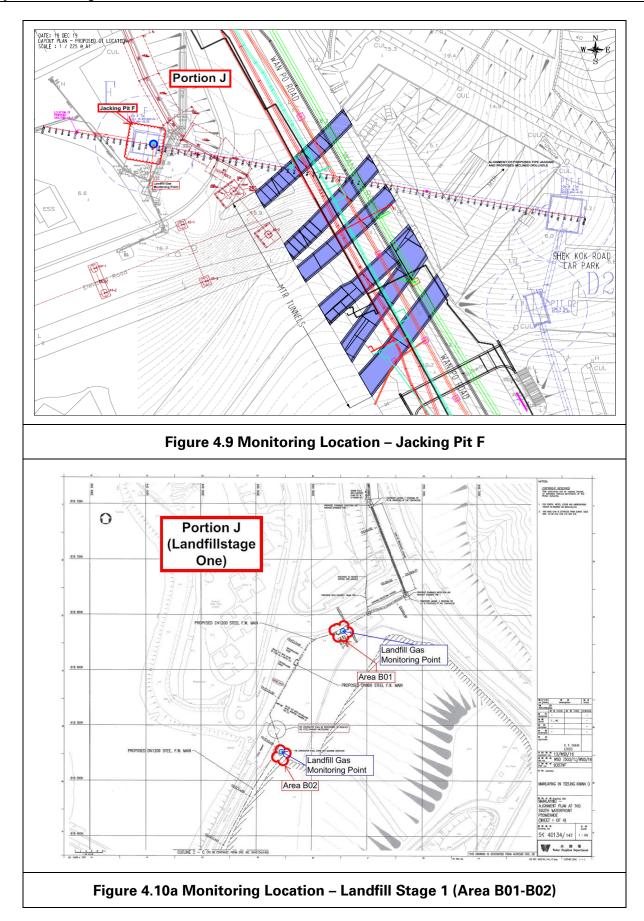




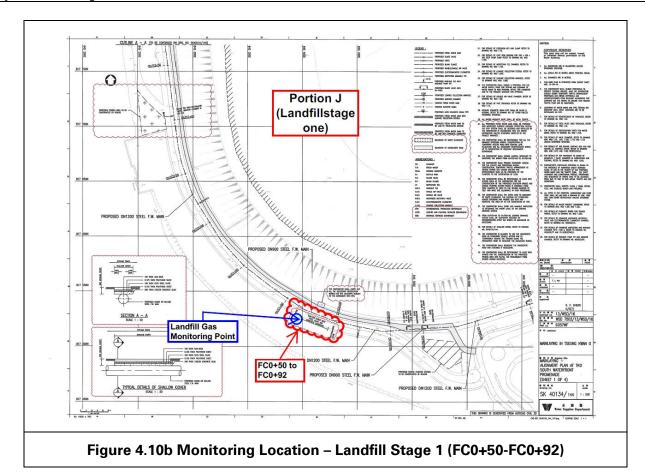




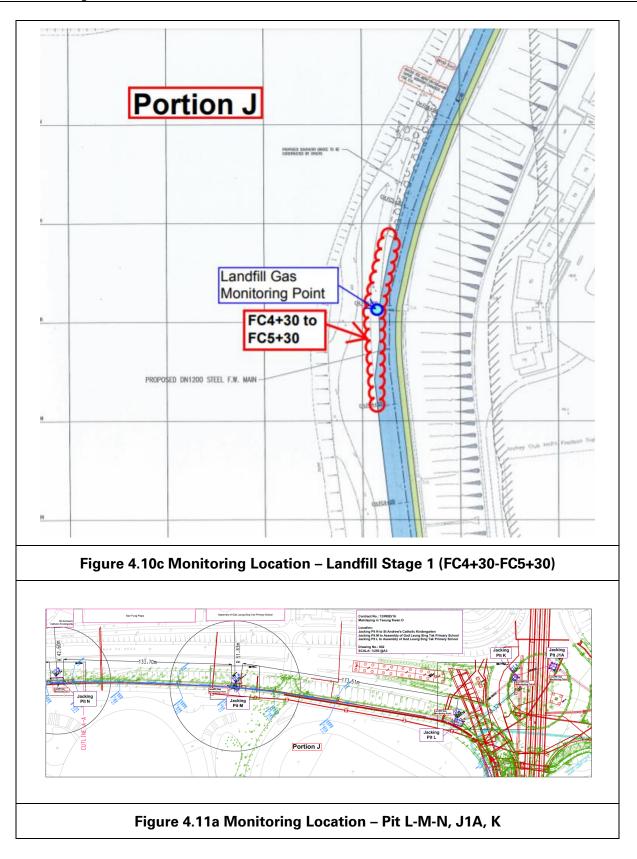




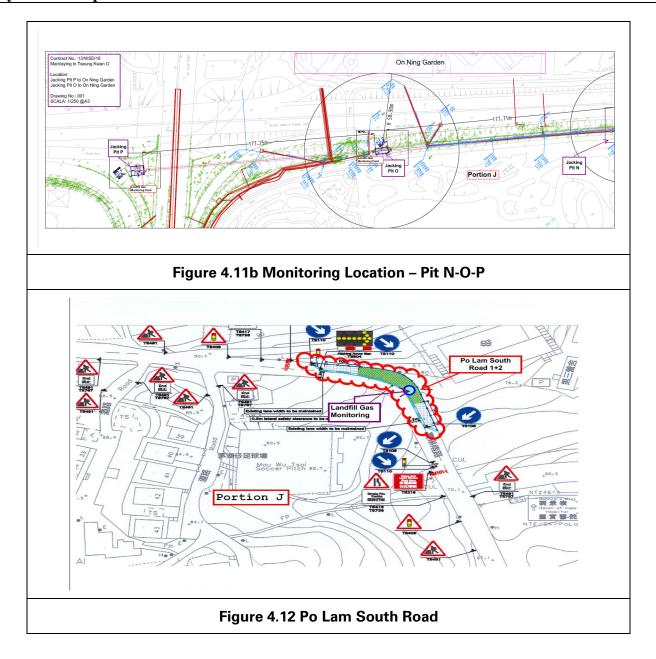




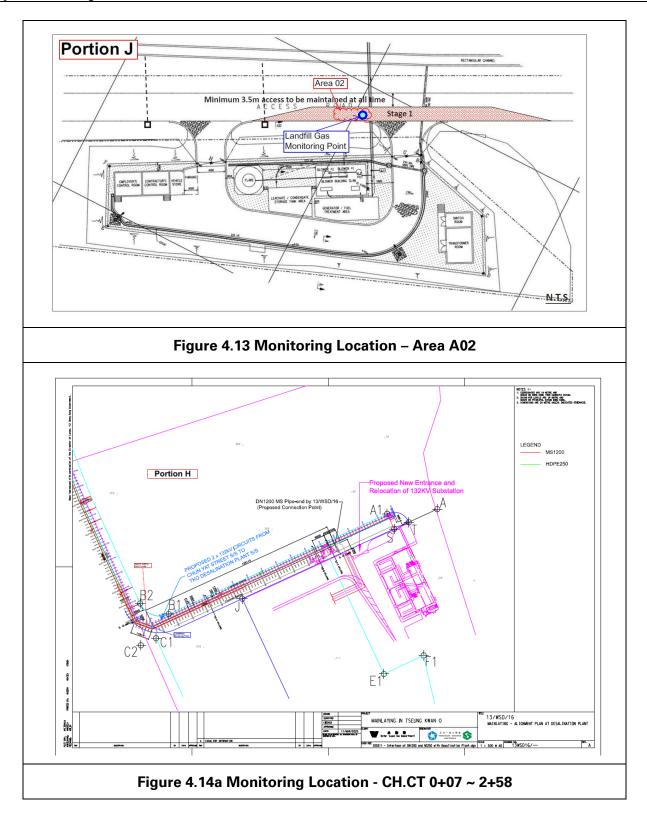




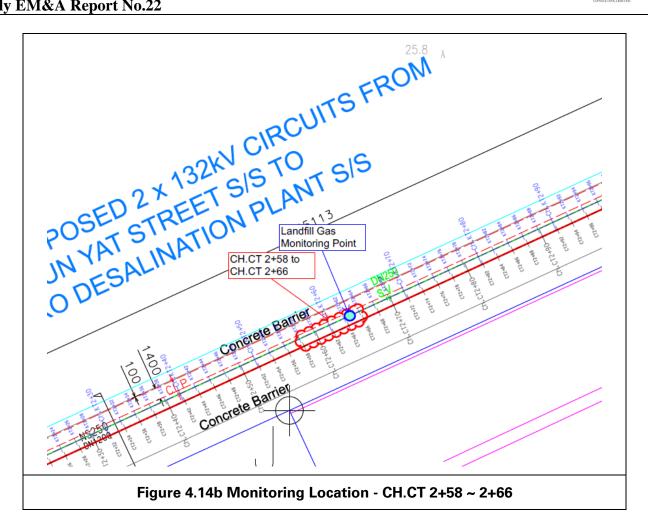














4.3 Monitoring Parameters

LFG monitoring was carried out to identify any migration between the landfill and the Project and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Project area.

The following parameters were monitored:

- Methane.
- Oxygen.
- Carbon Dioxide.
- Barometric Pressure.
- 4.4 Action and Limit Level

Action and Limit Level is provided in **Table 4.1**.

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

| Parameters | Action Level | Limit Level |
|----------------------|---------------|-------------|
| Oxygen (O2) | ← % O2 | <19% O2 |
| Methane (CH4) | >10% LEL | >80% LEL |
| Carbon Dioxide (CO2) | >0.5% CO2 | >1.5% CO2 |



4.5 Monitoring Equipment

Landfill Gas monitoring was carried out using intrinsically-safe, portable multigas monitoring instruments. The gas monitoring equipment is:

- Comply with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
- Capable of continuous barometric pressure and gas pressure measurements;
- Normally operate in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
- Have low battery, fault and over range indication incorporated;
- Store monitoring data, and shall be capable of being down-loaded directly;

| methane | 0-100% Lower Explosion Limit (LEL) and 0- 100% v/v; |
|---------------------|--|
| oxygen | 0-25% v/v; |
| carbon dioxide | 0-100% v/v; and |
| barometric pressure | mBar (absolute) |

• Measure in the following ranges:

• alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

| methane | >10% LEL; |
|---------------------|----------------------|
| oxygen | >0.5% by volume; and |
| carbon dioxide | <19% by volume |
| barometric pressure | mBar (absolute) |

Monitoring Equipment used in the reporting period are summarised in **Table 4.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix I**.



Table 4.2 Landfill Gas Monitoring Equipment

| Equipment | Brand and Model | Calibration Expiry Date |
|-----------------------|-----------------|--------------------------------|
| Portable Gas Detector | QRAE II | 28 August 2020 |

4.6 Monitoring Results

In the reporting period, construction works within the consultation zones, excavations of 1m depth or more was monitored. Landfill gas monitoring was carried out by the Registered Safety Officer by the Contractor at the excavation locations for 606 times. All the measured results were presented in **Appendix J** and within the Action and Limit Levels.



5. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

5.1 The Environmental Complaint Handling Procedure is shown in below **Figure 5.1**:

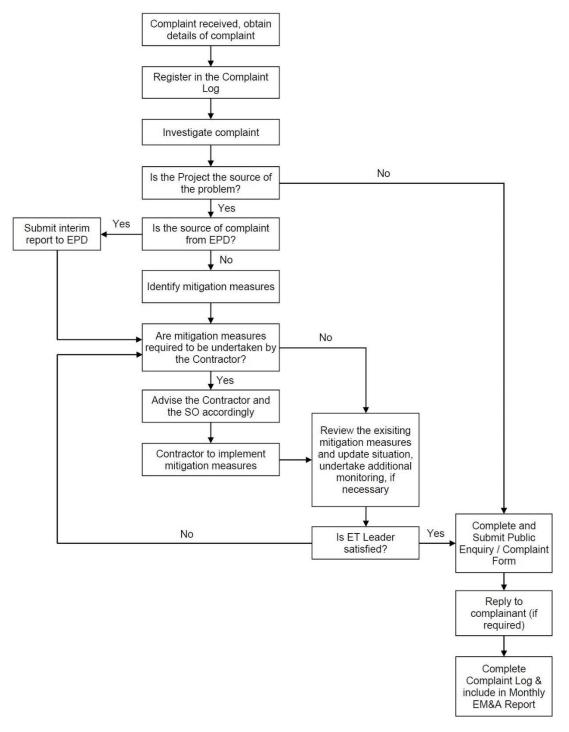


Figure 5.1 Environmental Complaint Handling Procedure



- 5.2 No noise monitoring was conducted during the reporting period since there are no project-related construction activities undertaken within a radius of 300m from the monitoring locations.
- 5.3 No project-related exceedance of the Action Level was recorded during the reporting period.
- 5.4 No notification of summons and prosecution was received in the reporting period.
- 5.5 Statistics on complaints and regulatory compliance are summarized in **Appendix K**.



6. EM&A SITE INSPECTION

6.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 2, 9, 16, 23 and 28 at the site portions list in **Table 6.1** below.

| Date | Inspected Site Portion | Time |
|-------------|------------------------|------------------|
| 07 May 2020 | Portion J | 9:30am – 11:20am |
| 14 May 2020 | Portion J | 9:30am – 11:45pm |
| 21 May 2020 | Portion H and J | 9:30am – 12:00pm |
| 26 May 2020 | Portion J | 9:20am – 11:50am |

Table 6.1 Site Inspection Record

- 6.2 One joint site inspection with IEC was carried out on 26 May 2020.
- 6.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.2**.

Table 6.2 Site Observations

| Date | Environmental Observations | Follow-up Status |
|----------------|---|---|
| | 1. Environmental permit was not observed on the vehicle exit/entrance at CHA6+64. | Environmental permit was added on the vehicle exit/entrance at CHA6+64. |
| | 2. Chemicals were not placed inside the drip tray at CHA6+64, Pit B and FC0+64. | Chemicals were removed. Construction materials were removed. |
| 07 May | 3. Construction materials were not stored properly at | 4. Chemical spillage was cleaned. |
| 2020 | CHA12+50. | 5. Wastewater was discharged |
| | 4. Chemical spillage was observed at Pit B. | through the sedimentation tank. |
| | 5. Wastewater was not directed to water treatment facilities at FC0+64. | NRMM Label was changed to a new one. |
| | 6. NRMM label was observed damaged at FC4+65-5+00. | |
| 14 May 2020 | 1. Chemicals were not placed inside the drip tray at Pit C. | Chemicals were removed. Construction boundaries |
| | Construction boundaries were not fully protected by | were fully protected by sandbags. |
| | sandbags at Pit C. | 3. Dusty suppression |
| | 3. Dust suppression | mitigations were |
| | mitigations have not been | implemented or stockpiles |
| | fully implemented at | were removed. |
| | CHA12+50, Landfill Stage 1 Area A and Pit F | |



| Date | Environmental Observations | Follow-up Status |
|------------------|---|--|
| 21 April 2020 | Chemicals were not placed inside the drip tray at Pit C and FC4+65-5+00. Construction boundaries were not fully protected by sandbags at Pit C. Chemcial leakage was observed at CHA6+64 and FC4+65-5+00. | Chemicals were removed or placed inside the drip tray. Construction boundaries were fully protected by sandbags. Chemical leakage was cleaned. |
| 26 April 2020 | 1. Oil leakage was observed at CHA6+64. | 1. Oil leakage was cleaned. |

- 6.4 According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**.
- 6.5 Site inspection proforma of the reporting period is provided in **Appendix L**.



7. FUTURE KEY ISSUES

7.1 Key works anticipated in the next reporting period for the Project will include in **Table 7.1**.

| Location | Works Conducting in the next reporting month |
|----------------------------------|--|
| Portion H of the Project Site | Construction of DN900 HSV chamber near SENTX (SENT Landfill Extension) Entrance Gate will be continued. Preparation work for construction of 137PitA, 137PitB and 137pitC near SENTX Entrance Gate will be continued. Mainlaying work for two 45 degrees bends of DN1200 MS pipe will be commenced. Construction of IT chamber and washout chamber will be continued. |
| Portion J of the Project Site | 2 nos. of work fronts implemented as scheduled for the open-trench between CH. A 06+53 to 13+70 will be continued. Pipe jacking at working Pit A, Pit B and Pit C will be continued at CH.A 13+70, CH.A 16+00 and CH.A 19+26. Excavation work and installation of temporary shoring system in working pit B and C in Wan Po Road will be continued. Mainlaying work at Landfill Stage 1's cycle track will be continued between CH.FC1+20 and CH.FC4+87. Mainlaying works in Area A and B in Landfill Stage 1 will be continued. Tree transplanting work in access road inside HK Velodrome will be commenced Inspection pit excavation at uphill lane of Po Lam South Road will be continued. Inspection pit excavation in Pit Q near Wan Lung Road will be continued. |

Table 7.1. Key works for the next reporting month

- 7.2 The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from trial pits works, trench excavating works, pipe mainlaying and grouting works.
 - Waste generation from construction activities
- 7.3 The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:



- Dust suppression by regular wetting and water spraying for trial pits works, trench excavation
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste
- 7.4 The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.
- 7.5 Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 7.6 The impact monitoring schedule for the next reporting month is attached in **Appendix N**. **Appendix N** is intentionally left blank since no impact monitoring will be conducted in the next reporting month.

8. CONCLUSION AND RECOMMENDATIONS

- 8.1 This 22nd monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 May 2020 to 31 May 2020. in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 8.2 No noise monitoring was conducted in the reporting period due to the overly distant monitoring station from the works location.
- 8.3 No project-related exceedance of the Action Level was recorded during the reporting period.
- 8.4 Weekly environmental site inspection was conducted during the reporting period. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the project was therefore considered satisfactory.
- 8.5 According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, dust suppression mitigations and proper materials storage.
- 8.6 No environmental complaint was received in the reporting period.
- 8.7 No notification of summons or prosecution was received since commencement of the Contract.
- 8.8 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



Appendix A

Construction Programme



13/WSD/16 - Mainlaying in Tseung Kwan O

Outline Construction Programme (As on 31 Aug 2018)

| YEAR | | LOCATION | | | | | | 20 | 18 | | | | | | | 2 | 2019 | | | | Τ | | | | 2020 |) | | | | | | | 20 | 021 | | | |
|--|---------|------------------------|------|------|-----|---|-----|----|----|-----|----|-------|-----|-----|---|-----|------|-----|------|------|-----|---|-----|---|------|-----|---|------|------|-----|---|---|-----|-----------|-----|-----------|-----------|
| MONTH | PJ-ID | ROAD | FROM | то | 1 2 | 3 | 4 5 | 6 | 7 | 8 9 | 10 | 11 12 | 2 1 | 2 3 | 4 | 5 6 | 7 | 8 9 | 9 10 | 11 1 | 2 1 | 2 | 3 4 | 5 | 6 | 7 8 | 9 | 10 1 | 1 12 | 1 2 | 3 | 4 | 5 6 | 7 | 8 9 | 10 | 1 12 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \square | + | \square | \square |
| Section A (TKO137 to Wan Po Road) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \square | | \square | \square |
| Section A1 (Open-trench) | - | Wan Po Road | 0 | 362 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \square |
| Section A2 (Pipe-Jacking) | А | Wan Po Road | 362 | 530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section A3 (Open-trench) | - | Wan Po Road | 530 | 1379 | | | | | | # | | | | | | | | | | | | | | | | | | | | | | | | \square | | | \square |
| Section A4 (Pipe-Jacking) | в | Wan Po Road | 1379 | 2268 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \square |
| Section A5 (Open-trench) | - | Wan Po Road | 2268 | 4113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \square |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B (Po Yap Road to Po Hong Road) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B1 (Pipe-Jacking) | С | Po Yap Road | 4113 | 4200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B2 (Open-trench) | - | Po Yap & Po Hong Rd | 4200 | 5500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B3 (Pipe-Jacking) | D1 & D2 | Po Hong & Ling Hong Rd | 5500 | 5600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B4 (Open-trench) | - | Ling Hong Road | 5600 | 5799 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B5 (Pipe-Jacking) | Е | Po Hong Road | 5799 | 5838 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B6 (Open-trench) | - | Po Hong Road | 5838 | 6254 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B7 (Pipe-Jacking) | F | Po Hong Road | 6254 | 6368 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section B8 (Open-trench) | - | Po Hong Road | 6368 | 7250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section C (Po Lam Road to Tsui Lam to TKOFWPSR*) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section C1 (Open-trench) | - | Po Lam Road | 7250 | 7740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section C2 (Pipe-Jacking) | G | Tsui Lam Road | 7740 | 7770 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section C3 (Open-trench) | - | Tsui Lam Road | 7770 | 8300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section C4 (Slope) | - | TKOFWPSR | 8300 | 8376 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Commencement of works at CH.A 720 on 30 Aug 2018.

*TKOFWPSR - Tseung Kwan O Fresh Water Primiary Service Reservoir

 $\ast\ast$ Remaining 1581m within TKO137 with site possession from Nov 2019



Appendix B

Overview of Mainlaying in Tseung Kwan O



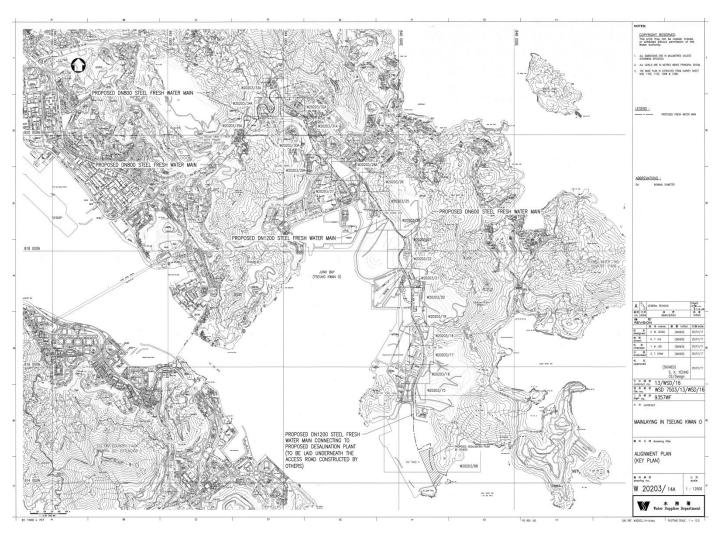


Figure B1. Overview of Mainlaying in TKO



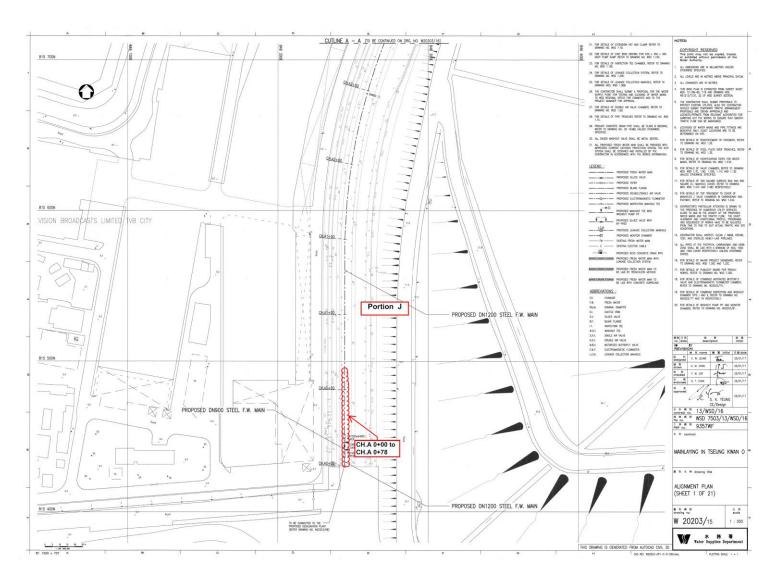


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78



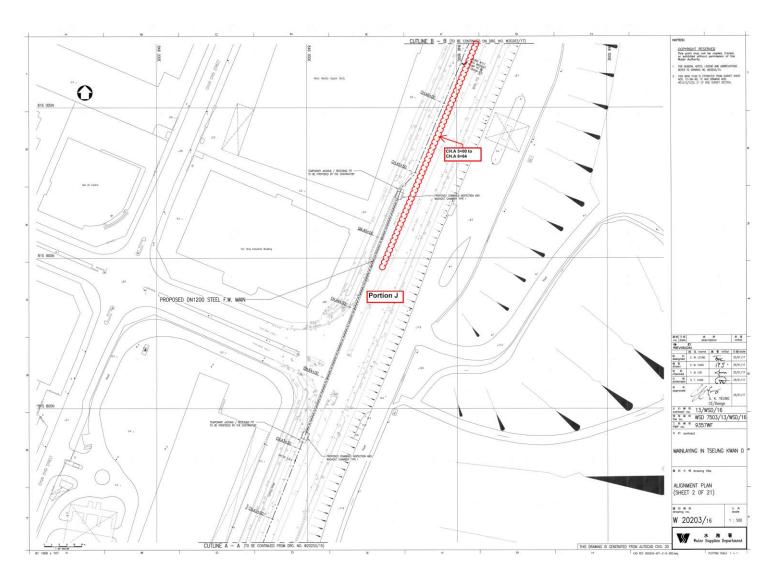


Figure B3a. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64



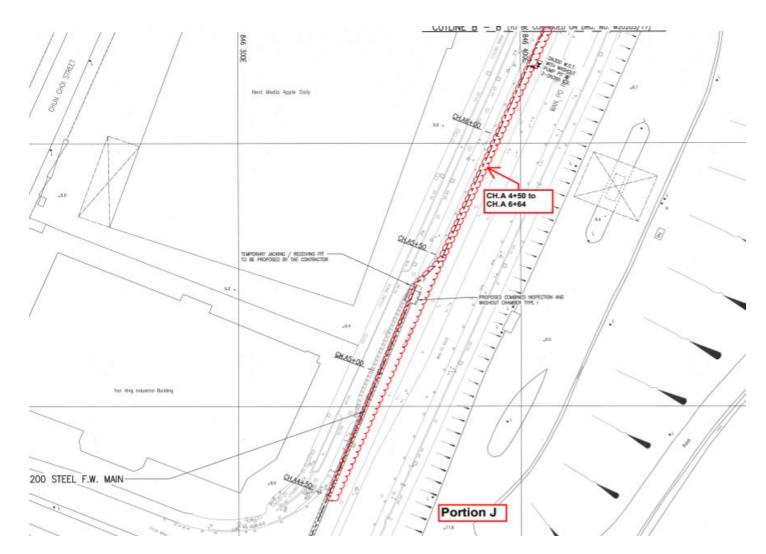


Figure B3b. Location Plan for Portion J - CH.A 4+50 to CH.A 6+64



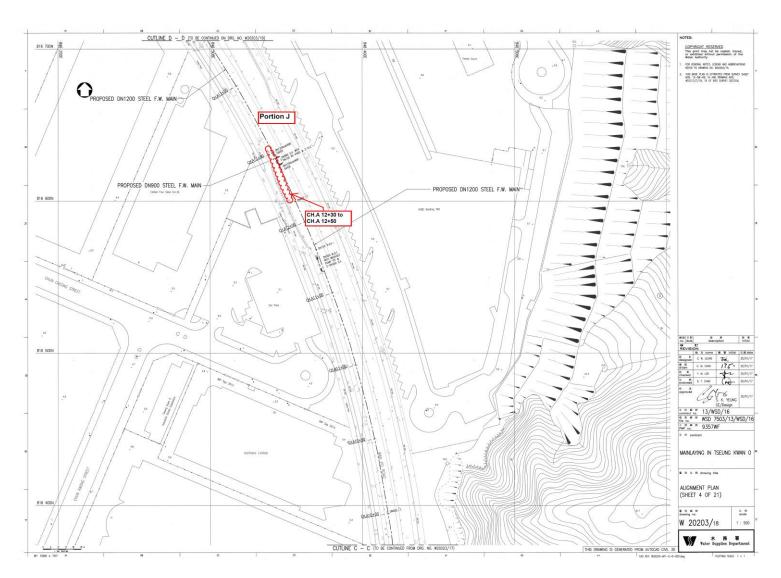


Figure B4. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50



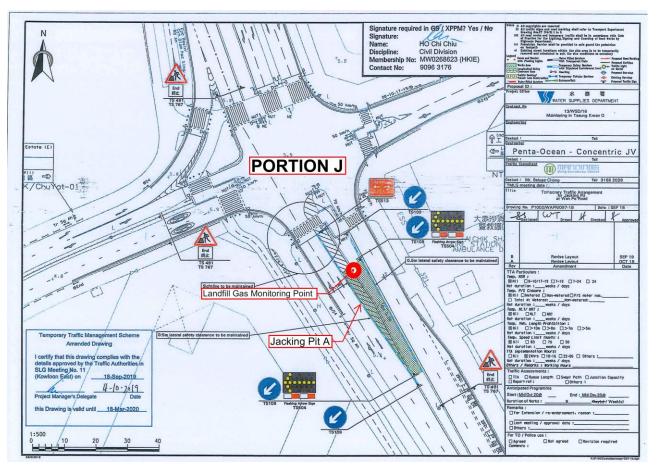


Figure B5. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)



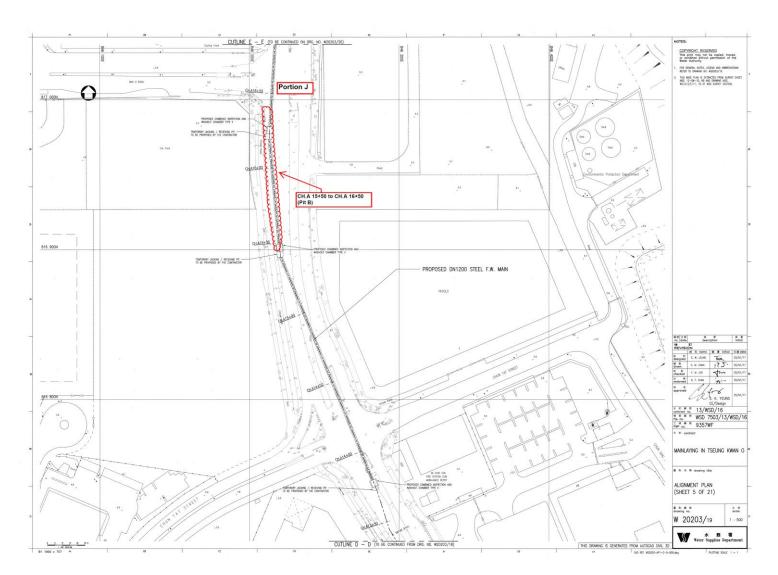


Figure B6. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)



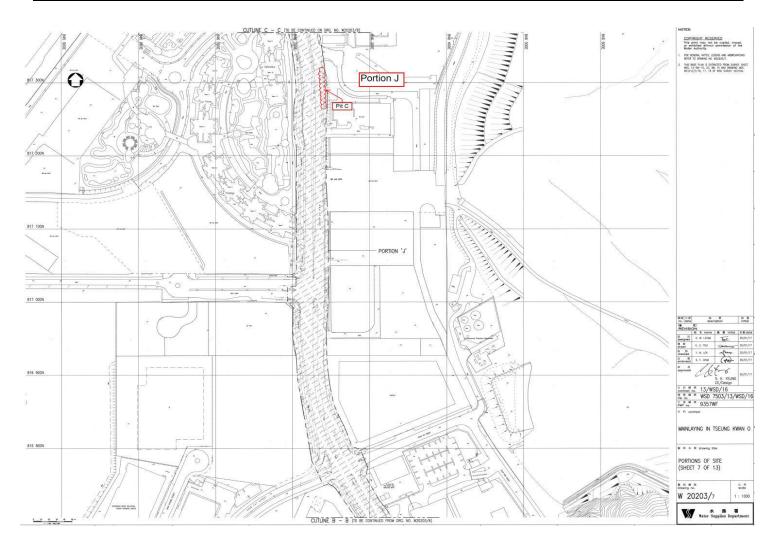


Figure B7. Location Plan for Portion J – CH.A 19+15 to CH.A 19+50 (Pit C)



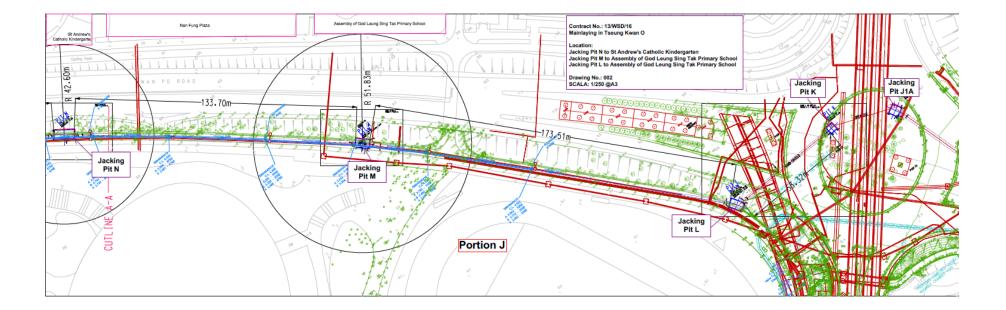


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



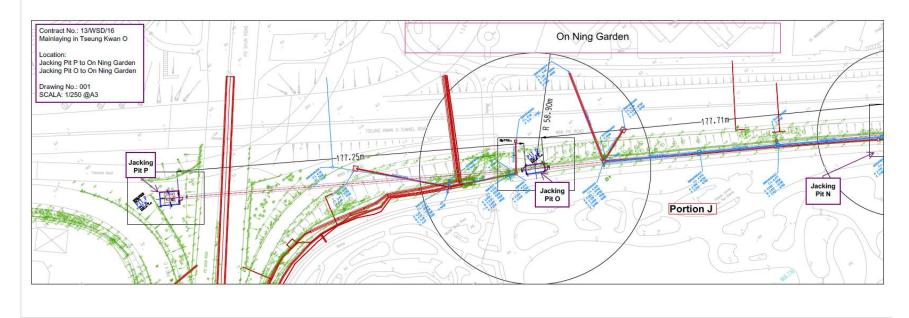


Figure B8b. Location Plan for Portion J – Pit N-O-P



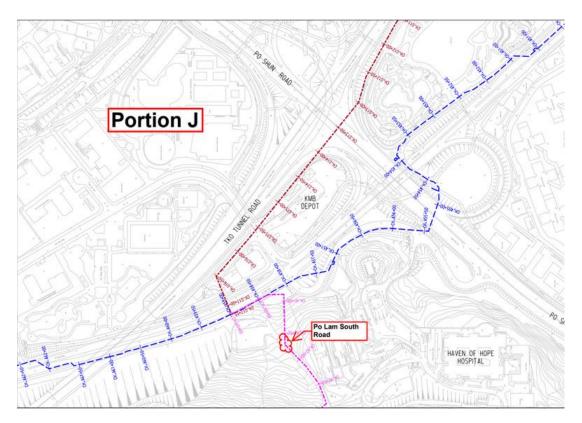


Figure B9a. Location Plan for Mau Wu Tsai 1

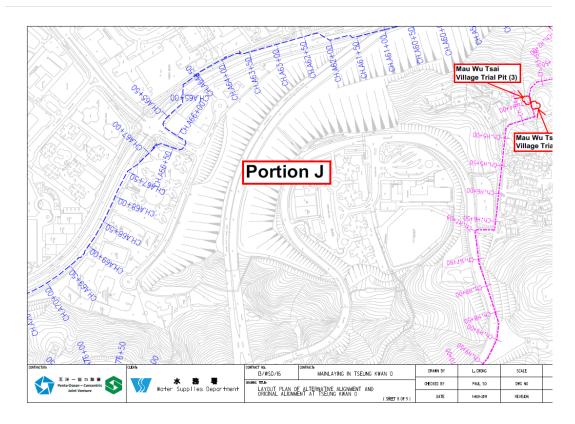


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3



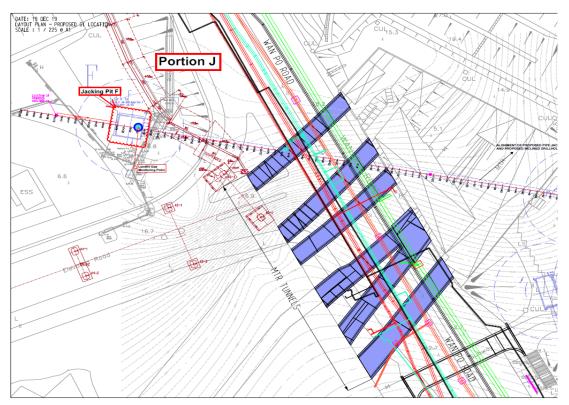


Figure B10. Location Plan for Jacking Pit F

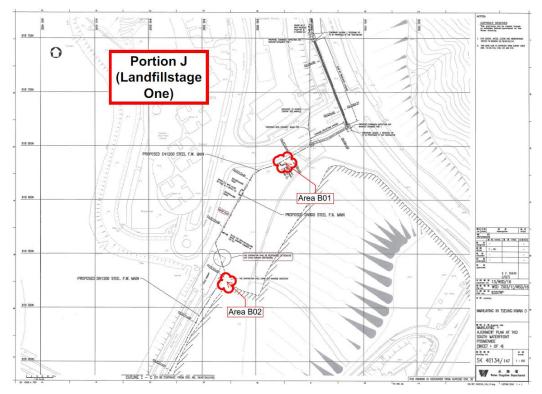


Figure B11a. Location Plan – Landfill Stage 1 (Area B01-B02)



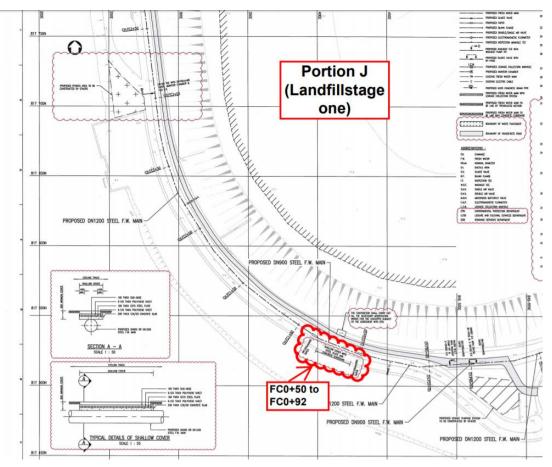


Figure B11b. Location Plan – Landfill Stage 1 (Area FC0+50 -FC0+92)

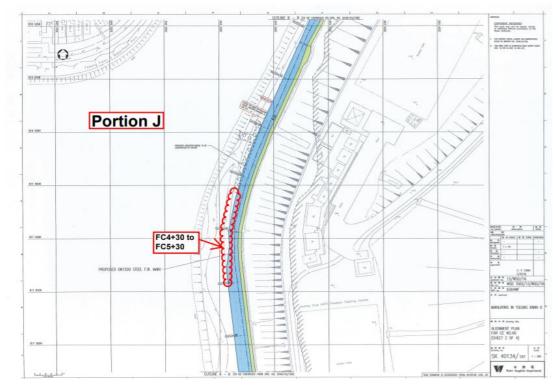


Figure B11c. Location Plan – Landfill Stage 1 (Area FC4+30 -FC5+30)



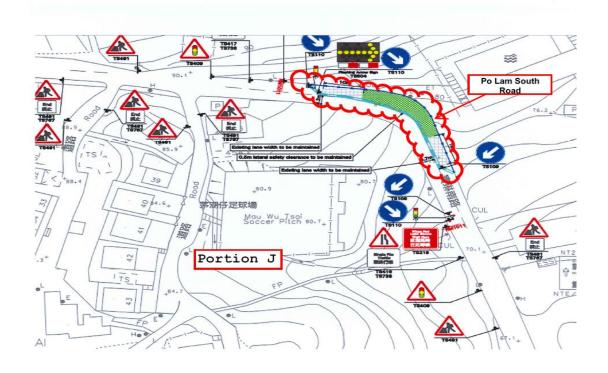


Figure B12. Monitoring Location – Po Lam South Road

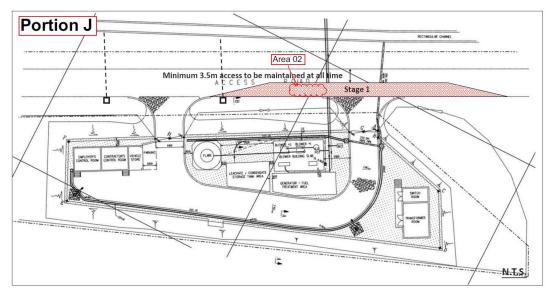


Figure B13. Monitoring Location – Area A02



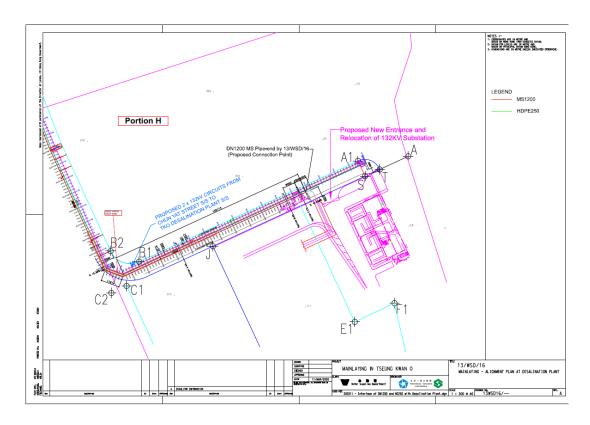


Figure B14a. Location Plan for CH.CT 0+07 – 2+58

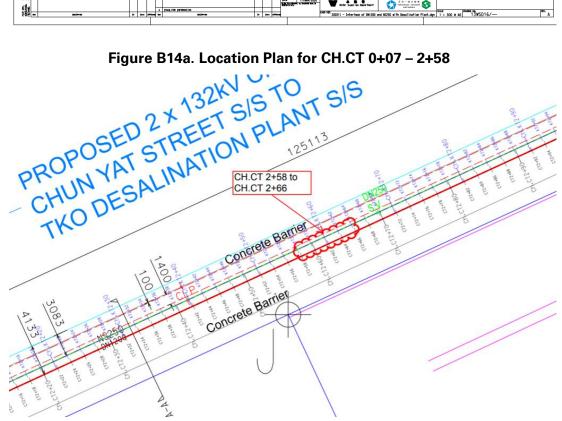


Figure B14b. Location Plan for CH.CT 2+58 - 2+66



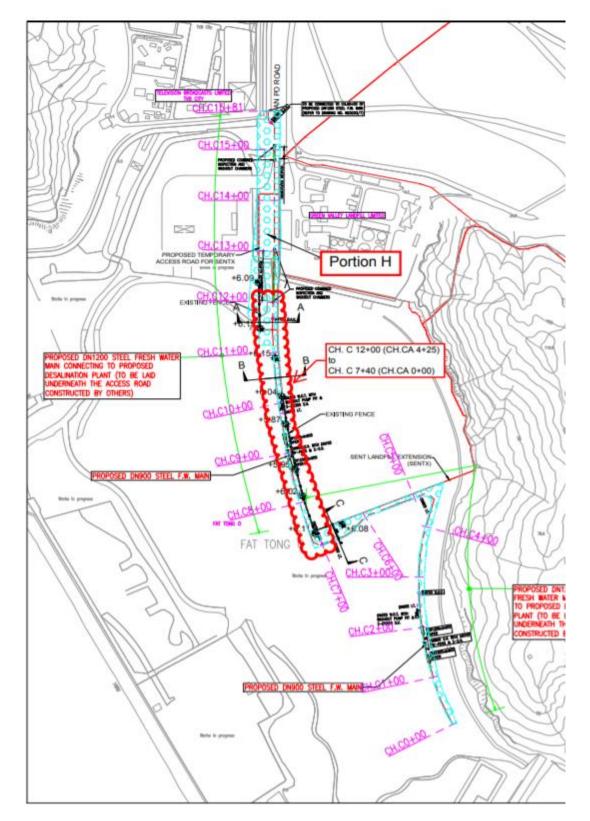


Figure B15. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)



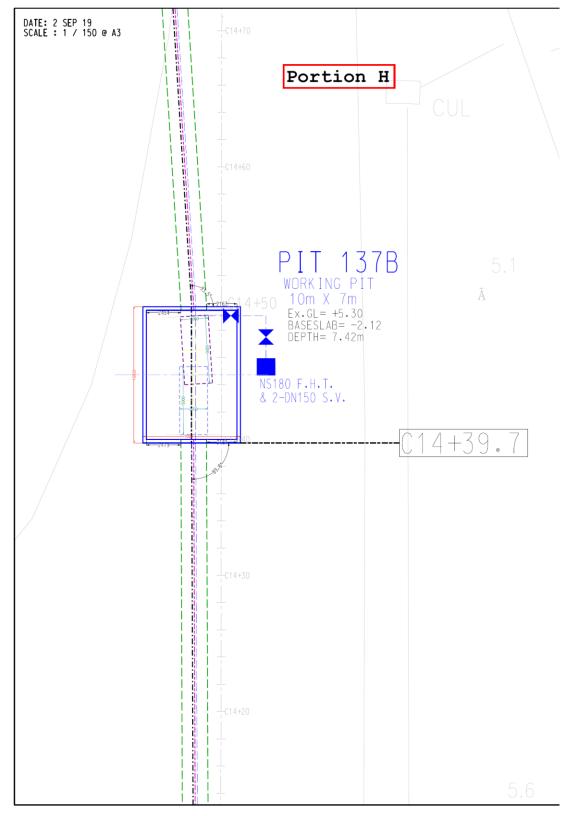


Figure B16a. Location Plan for Portion H– Pit 137B



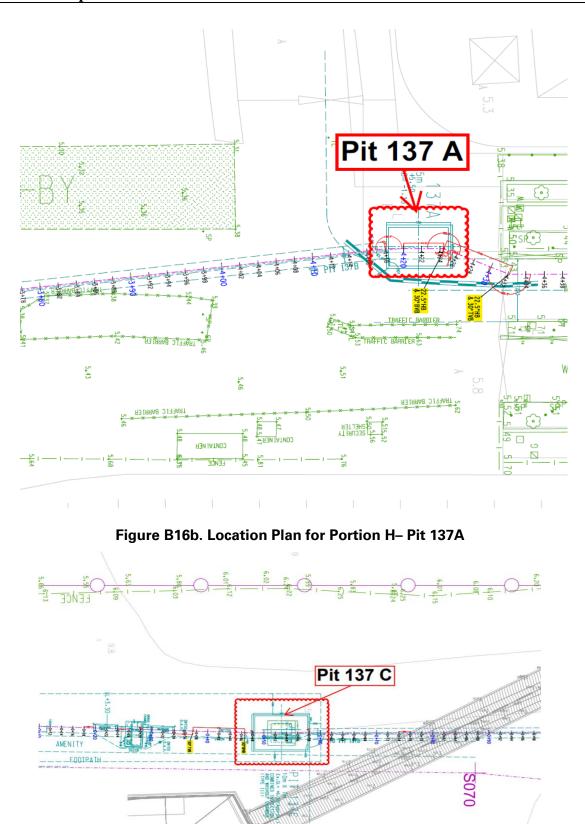


Figure B16c. Location Plan for Portion H– Pit 137C



Appendix C

Summary of Implementation Status of Environmental Mitigation



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures | Implementation | Impler Stage | | | Implementation | Relevant Legislation & Guidelines | |
|---------------|--|---|----------------|-----------------|----------|---|--|--|--|
| | Measures/ Mitigation Measures | & main concerns to address | Agent | D | С | 0 | status | | |
| Air Quality | · | | | • | | | | | |
| S4.8.1 | Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings. | Land site/ During Construction | Contractor(s) | | √ | | N/A | Air Pollution Control (Construction Dust) | |
| S4.8.1 | Impervious sheet will be provided for skip hoist for material transport. | Land site/ During Construction, particularly dry season | Contractor(s) | | ~ | | NA | | |
| S4.8.1 | The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable. | Land site/ During Construction | Contractor(s) | | - | | Implemented, rectified after observation | | |
| S4.8.1 | All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation. | Land site/ During Construction | Contractor(s) | | ~ | | Implemented, rectified after observation | | |
| S4.8.1 | Dropping heights for excavated materials should be controlled to a practical height to minimise the fugitive dust arising from unloading. | Land site/ During Construction | Contractor(s) | | • | | N/A | | |
| S4.8.1 | During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport. | Land site/ During Construction | Contractor(s) | | - | | N/A | | |
| S4.8.1 | Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable. | Land site/ During Construction | Contractor(s) | | ~ | | N/A | | |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures | Implementation | Imple Stage | mentat | ion | Implementation | Relevant Legislation & Guidelines |
|---------------|--|---|----------------|----------------|--------|-----|--|---|
| EIA Reference | Measures/ Mitigation Measures | & main concerns to address | Agent | D | С | 0 | status | |
| S4.8.1 | Road sections between vehicle-wash areas and vehicular entrance will be paved. | Land site/ During Construction | Contractor(s) | | - | | Implemented | |
| S4.8.1 | Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary. | Land site/ During construction | Contractor(s) | • | • | | N/A | |
| S4.8.1 | Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times. | Land site/ During construction | Contractor(s) | | • | | Implemented. | |
| S4.8.1 | Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time. | Land site/ During construction | Contractor(s) | | - | | Implemented, rectified after observation | |
| S4.8.1 | Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3- sides. | Land site/ During construction | Contractor(s) | | ~ | | N/A | |
| S4.8.1 | All exposed areas will be kept wet always to minimise dust emission. | Land site/ During construction | Contractor(s) | | • | | Implemented, rectified after observation | |
| S4.8.1 | Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites. | Land site/ During construction/ During Operation | Contractor(s) | | • | ~ | Implemented | Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites |



| EIA Reference | ecommended Environmental Protection r | Objectives of the recommended measures | Implementation | Impler Stage | | ion | Implementation | Relevant Legislation & Guidelines | | |
|---------------|---|---|--|-----------------|---|-----|----------------|-----------------------------------|--|--|
| LIA Reference | Measures/ Mitigation Measures | & main concerns to address | Agent | D | C | 0 | status | | | |
| S4.8.1 | The engine of the construction equipment during idling will be switched off. | Land site/ During construction | Contractor(s) | | ~ | | Implemented | | | |
| S4.8.1 | Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be | Land site/ During construction | Contractor(s) | | • | | N/A | Guidance Note on a Best | | |
| S4.8.1 | Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission. | Land site/ During construction | Contractor(s) | | ~ | | Implemented | | | |
| S4.10 | To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period. | Land site/ During construction | Contractor(s)/ Environmenta I Team (ET) & Independent Environmenta I Checker (IEC) | | • | | Implemented | | | |

Note: D – Design stage C – Construction O – Operation



| EIA Reference | Recommended Environmental Protection | | Implementation | Impler Stage | nentat | ion | Implementation status | Relevant Legislation & |
|---------------|--|--|----------------|-----------------|----------|-----|-----------------------|--|
| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| Noise | | | | | | | | |
| S5.7 | Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase. | All area/ During construction | Contractor(s) | | • | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase. | Noise control/ During construction | Contractor(s) | | √ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Mobile plant, if any, will be sited as far away from NSRs as possible. | Noise control/ During construction | Contractor(s) | | • | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum. | Noise control/ During construction | Contractor(s) | | • | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. | Noise control/ During construction | Contractor(s) | | • | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. | Noise control/ During construction | Contractor(s) | | √ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Use of Quite Powered Mechanical Equipment (QPME). | Noise control/ During construction | Contractor(s) | | • | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater | Noise control/ During construction | Contractor(s) | | • | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Impleı Stage | mentat | ion | Implementation status | Relevant Legislation & |
|---------------|--|---|----------------|-----------------|----------|-----|-----------------------|--|
| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| | than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps. | | | | | | | |
| S5.7 | The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints. | Noise control/ During construction | Contractor(s) | | √ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |
| S5.7 | Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously. | Noise control/ During construction | Contractor(s) | | ✓ | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works |
| S5.7 | PMEs will not be used at the works areas near educational institutions with residual impact (ie the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions. | Noise control / During construction | Contractor(s) | | ✓ | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works |
| S5.7 | Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators. Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m ⁻² may be used for screening the noise from operation of the saw/groover, concrete. | Noise control/ Pre- construction/ During construction | Contractor(s) | · | • | | N/A | |
| S5.9 | Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period. | Noise control/ Pre- construction/ During construction | Contractor(s) | - | √ | | N/A | |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Impleı Stage | mentat | ion | Implementation status | Relevant Legislation & Guidelines | | |
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| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines | | |
| S5.9 | In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (eg summer holiday, Easter holiday or Christmas holiday, etc) as far as practicable. Scheduling the construction work for the four schools. | Noise control/ Pre- construction/ During construction | Contractor(s) | ~ | • | | N/A | | | |
| S5.10 | A noise monitoring programme shall be implemented for the construction phase. | Designated monitoring stations as defined in EM&A Manual/During construction phase | Environmental Team (ET) | | • | | N/A | | | |
| S5.10 | The effectiveness of on-site control measures could also be evaluated through the regular site audits. | All facilities/ During construction | Contractor(s)/ Environment al Team (ET) & Independent Environment al Checker (IEC) | | | | Implemented | - | | |

Note: D – Design stage C – Construction O – Operation



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementati on Agent | Implen Stage | nentat | ion | Implementation status | Relevant Legislation & Guidelines | | |
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| | Weasures/ Willigation Weasures | main concerns to address | on Agent | D | С | 0 | | Guideimes | | |
| Water Quality | | | | | | | - | | | |
| S6.9 | Dredged marine sediment will be disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO). | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | Dumping at Sea Ordinance (DASO) | | |
| S6.9 | Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport. | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | - | | |
| S6.9 | Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action. | Marine Dredging/ During construction | Contractor(s) | | • | | N/A | - | | |
| S6.9 | After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area. | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | - | | |
| S6.9 | All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment. | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | - | | |
| S6.9 | All vessels must have a clean ballast system. | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | - | | |
| S6.9 | No discharge of sewage/grey wastewater should be allowed. Waste water from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system. | Marine Dredging/ During construction | Contractor(s) | | ~ | | N/A | - | | |
| S6.9 | No soil waste is allowed to be disposed overboard. | Marine Dredging/ During construction | Contractor(s) | | 1 | | N/A | - | | |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementati on Agent | Implementation Stage | | | Implementation status | Relevant Legislation & |
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| S6.9 | Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. | Land site & drainage/ During construction | Contractor(s) | | v ✓ | | Implemented, rectified after observation | ProPECC PN 1/94 TM Standard under the WPCO |
| S6.9 | Deposited silt and grit will be removed regularly. Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms. | Land site & drainage/ During construction | Contractor(s) | | • | | Implemented | - |
| S6.9 | Appropriate surface drainage will be designed and provided where necessary. | Land site & drainage/ During construction | Contractor(s) | | 1 | | N/A | - |
| S6.9 | The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. | Land site & drainage/ During construction | Contractor(s) | | • | | Implemented | ProPECC PN 1/94 |
| S6.9 | Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages. | Land site & drainage/ During construction | Contractor(s) | | • | | Implemented | - |
| S6.9 | Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows. | Land site & drainage/ During construction | Contractor(s) | | - | | N/A | - |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementati on Agent | Implementation Stage | | | Implementation status | Relevant Legislation & |
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| S6.9 | The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required. | Land site & drainage/ During construction | Contractor(s) | | • | | N/A | - |
| S6.9 | Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment. | Land site & drainage/ During construction | Contractor(s) | | - | | Implemented | - |
| S6.9 and S6.12 | The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer. | Sterilization of water mains prior to commissioning | Contractor(s) | | • | • | N/A | Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters |
| S6.9 | The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging. | Sterilization of water mains prior to commissioning | Contractor(s) | | • | v | N/A | Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters |
| S6.9 | Site drainage should be well maintained and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams. | Land site & drainage/ During construction/ During operation | Contractor(s) | | • | v | Implemented, rectified after observation | - |



| EIA Rotoronco | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementati on Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
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| S6.12 | Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality. | During construction | Contractor(s)/ Environment al Team (ET) & Independent Environment al Checker (IEC) | | ✓ | | Implemented | - |

Note: D – Design stage C – Construction O – Operation



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Imple Stage | mentat | tion | Implementation Status | Relevant Legislation & Guidelines |
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| Waste Manage | | | | | | | | |
| S8.5 | Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site. | Contract mobilisation/ During construction | Contractor(s) | | √ | | Implemented | - |
| \$8.5 | Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works. | Contract mobilisation/ During construction | Contractor(s) | | × | | Implemented | - |
| S8.5 | Provision of sufficient waste disposal points and regular collection for disposal. | All area/ During construction/ During operation | Contractor(s) | | ✓ | • | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | All area/ During construction | Contractor(s) | | ~ | | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation. | All area/ During construction | Contractor(s) | | ~ | | Implemented | ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites |
| S8.5 | Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi. | All area/ During construction | n Contractor(s) | | • | | N/A | Chapters 2 & 3 Code of Practice on the Packagir Labelling & Storage of |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Impler Stage | nenta | tion | Implementation Status | Relevant Legislation & |
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| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| | | | | | | | | Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35 |
| S8.5 | Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. | Land site/ During construction | Contractor(s) | | ~ | | Implemented | Waste Disposal Ordinance (Cap 354) |
| S8.5 | A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s). | Land site/ During construction | Contractor(s) | | • | | Implemented | DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials |
| S8.5 | Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. | Land site/ During construction/ During operation | Contractor(s) | | • | | Implemented, rectified after observation | WBTC 32/92, The Use of Tropical Hard Wood on Construction Site |
| S8.5 | Encourage collection of aluminium cans and waste paper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce. | Land site/ During construction | Contractor(s) | | • | | Implemented | ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock |
| S8.5 | Any unused chemicals and those with remaining functional capacity will be recycled as far as possible. | Land site/ During construction | Contractor(s) | | ~ | | N/A | - |
| S8.5 | Use of reusable non-timber formwork to reduce the amount of C&D materials. | All areas/ During construction | Contractor(s) | | • | | N/A | WBTC 32/92, The Use of Tropical Hard Wood on Construction Site |
| S8.5 | Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill. | All areas/ During construction | Contractor(s) | | • | | Implemented | DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials |
| S8.5 | Proper storage and site practices to reduce the potential for damage or contamination of construction materials. | All areas/ During construction | Contractor(s) | | • | | Implemented, rectified after observation | - |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Imple Stage | mentat | tion | Implementation Status | Relevant Legislation & Guidelines |
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| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | |
| S8.5 | Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste. | All areas/ During construction | Contractor(s) | | ✓ | | Implemented | - |
| S8.5 | A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method. | Marine works/ During construction | Contractor(s) | | √ | | N/A | ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO) |
| S8.5 | The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No.</i> <i>34/2002</i> will be incorporated in the Specification of the Contract Documents. | Marine works/ During construction | WSD/ Contractor(s) | | • | | Implemented | ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO) |
| S8.5 | The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges. | Contract mobilisation/ During construction | Contractor(s) | | ~ | | Implemented | Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation |
| S8.5 | A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping. | Contract mobilisation/ During construction | Contractor(s) | | ✓ | | Implemented | DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials |
| S8.5 | The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan. | All area/ During construction | Contractor(s)/ Environmen tal Team (ET) & Independent Environmen tal Checker (IEC) | | ✓ | | Implemented | ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Imple Stage | mentat | ion | Implementation Status | Relevant Legislation & Guidelines |
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| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | |
| S8.5 | A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase. | All area/ During construction | Contractor(s) | | ✓ | | Implemented | Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005 |
| S8.5 | Inert C&D materials (public fill) will be reused within the Project as far as practicable. | All area/ During construction | Contractor(s) | | 1 | | N/A | - |
| S8.5 | Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal. | All area/ During construction | Contractor(s) | | • | | Implemented | - |
| S8.5 | Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable. | All area/ During construction | Contractor(s) | | - | | Implemented | - |
| S8.5 | To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling. | All area/ During construction | Contractor(s) | | • | | Implemented, rectified after observation | Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358) |
| S8.5 | Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric. | Land site/ During Construction, particularly dry season | Contractor(s) | | ~ | | Implemented, rectified after observation. | Air Pollution Control (Construction Dust) Regulation (Cap 311R) |
| S8.5 | Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed. | All area/ During construction/ During operation | Contractor(s)/ WSD | | √ | • | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD. | All area/ During construction/ During operation | Contractor(s)/ WSD | | · | • | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & main concerns to address | Implementation | Impler Stage | nentat | ion | Implementation Status | Relevant Legislation & Guidelines |
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| S8.5 | A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Storage areas for chemical waste shall be enclosed on at least 3 sides. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | ✓ | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | ✓ | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Storage areas for chemical waste shall have adequate ventilation. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | - | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary). | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Storage areas for chemical waste shall be | All area/ During | Contractor(s)/ | | ✓ | ✓ | Implemented | Waste Disposal |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Impler Stage | | ion | Implementation Status | Relevant Legislation & Guidelines |
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| | arranged so that incompatible materials are appropriately separated. | construction/ During operation | WSD | | | | | (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes. | All area/ During construction/ During operation | Contractor(s)/ WSD | | • | • | Implemented | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Adequate number of waste containers will be provided to avoid over-spillage of waste. | All area/ During construction/ During operation | Contractor(s)/ WSD | | √ | ~ | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. | All area/ During construction/ During operation | Contractor(s)/ WSD | | - | • | N/A | - |
| S8.5 | Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling. | All area/ During construction/ During operation | Contractor(s)/ WSD | | - | √ | Implemented | - |
| S8.5 | To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site. | All area/ During construction | Contractor(s) | | • | | Implemented | - |
| S8.5 | The burning of refuse on construction sites is prohibited by law. | All area/ During construction | | | ~ | | Implemented | Air Pollution Control Ordinance (Cap 311) |
| S8.7 | To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit | All facilities/ During construction | ET/ IEC | | • | | Implemented | - |



| E | IA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation Agent | Implen Stage | nentati | | Implementation Status | Relevant Legislation & Guidelines |
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| | | programme will be implemented throughout | | | | | | | |
| | | the construction phase. | | | | | | | |

Note: D – Design stage C – Construction O – Operation



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Impler Stage | nentat | ion | Status | Relevant Legislation & Guidelines |
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| | _ | main concerns to address | Agein | D | С | 0 | | Guidennes |
| | Ecology | | - | - | 1 . | | - | |
| S9.7 | For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance. | Slope mitigation works area/ During detailed design/ During construction | Contractor(s) | - | * | | Implemented | - |
| S9.7 | Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum. | Slope mitigation works area/ During construction | Contractor(s) | | ~ | | Implemented | |
| S9.7 | The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals. | Slope mitigation works area/ During detailed design/ During construction | Contractor(s) | V | - | | N/A | - |
| S9.7 and 9.10 | At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works. | Slope mitigation works area/ During detailed design/ During construction | Contractor(s) | ~ | • | | N/A | - |
| S9.7 | Temporary fencing will be installed to fence off | Slope mitigation works | Contractor(s) | + | ✓ | + | N/A | 1 |



| EIA Reference | Recommended Environmental Protection | recommended measures & | Implementation Agent | Impler Stage | nentat | ion | Implementation Status | Relevant Legislation & Guidelines |
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| | the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations. | area/ During construction | | | | | | |
| S9.7 and S9.10 | A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species. | Slope mitigation works area/ During construction | Contractor(s) | | 1 | | N/A | - |
| S9.7 | Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance. | Slope mitigation works area/ During construction | Contractor(s) | | • | | N/A | - |
| S9.7 | The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity. | Slope mitigation works area/ During construction | Contractor(s) | | • | | N/A | - |
| S9.7 | Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas. | All area/ During construction | Contractor(s) | | • | | Implemented | - |
| S9.7 | Regularly check the work site boundaries to ensure that they are not breached and that damage does not occur to surrounding areas. | All area/ During construction | Contractor(s)/ Environmental Team (ET) | | • | | Implemented | - |
| S9.7 | Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal. | All area/ During construction | Contractor(s) | | - | | Implemented | - |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | | Implementation | Implementation Stage | | | Implementation Status | Relevant Legislation & Guidelines |
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| S9.7 | Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on- site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area. | All area/ During construction | Contractor(s) | | - | | N/A | - |
| S9.7 | Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works. | | Contractor(s) | | • | | N/A | - |

Note: D – Design stage C – Construction O – Operation



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| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | |
| | Landscape & Visual | • | | | | | | |
| S11.10 & 11.11 | The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | • | ~ | Implemented | - |
| S11.10 & 11.11 | At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | √ | √ | Implemented | - |
| S11.10 & 11.11 | Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (ie without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, - to reduce their visual impact and blend them into the surrounding landscape. (MM3) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | × | × | • | Implemented | - |
| S11.10 & 11.11 | All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | ✓ | ✓ | Implemented | ETWB TCW No. 3/2006 - Tree Preservation. |
| S11.10 & 11.11 | No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | • | | Implemented | DEVB TC(W) No. 10/2013 |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Imple Stage | mentat | ion | Status | Relevant Legislation & Guidelines |
|----------------|---|--|-------------------------|----------------|--------|-----|-------------|--------------------------------------|
| | | main concerns to address | Agent | D | С | 0 | | |
| | departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5) | | | | | | | |
| S11.10 & 11.11 | Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | | × | | N/A | |
| S11.10 & 11.11 | Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for installation. (MM7) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | | × | - | N/A | |
| S11.10 & 11.11 | All night-time lighting will be reduced to a practical minimum both in terms of number of level and will be hooded and directional. (MM8)units and lux level and will be hooded and directional. (MM8) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | ✓ | - | Implemented | - |

Note: D – Design stage C – Construction O – Operation



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Impler Stage | nentat | tion | | Relevant Legislation & |
|---------------|---|--|----------------|-----------------|--------|----------|-------------|------------------------|
| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| | Landfill Gas Hazard | | | | | <u> </u> | - | |
| S12.7 | During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | | × | - | Implemented | - |
| S12.7 | During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 metre. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | • | | Implemented | |
| S12.7 | The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | • | • | Implemented | |
| S12.7 | Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | - | • | ~ | Implemented | |
| S12.7 | All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | - | • | • | Implemented | |



| EIA Reference | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Imple: Stage | mentat | ion | Implementation Status | Relevant Legislation & Guidelines |
|---------------|---|--|----------------|-----------------|--------|-----|--------------------------|--------------------------------------|
| | Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | | |
| S12.7 | Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | • | | Implemented | |
| S12.7 | Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | √ | • | | Implemented | |
| S12.7 | Proceed drilling with adequate care and precautions against the potential hazards which may be encountered. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | - | • | • | Implemented | |
| S12.7 | Prior to the commencement of the site works, the drilling contractor should devise a 'method- of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement. | All area/ During construction/ During operation | Contractor(s) | • | | • | Implemented | |
| S12.7 | Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | • | | N/A | |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & | Implementation Agent | Imple Stage | | ion | Implementation Status | Relevant Legislation & Guidelines |
|---------------|---|--|-------------------------|----------------|---|-----|--------------------------|--------------------------------------|
| | พเธลรนเธร/ พแน่งสนุบท พเธลรนเธร | main concerns to address | Agem | D | С | 0 | | Guideimes |
| | pathway for landfill gas and hence grilled metal covers should be used. | | | | | | | |
| S12.7 | It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | • | ~ | N/A | |
| S12.7 | The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | × | • | Implemented | |
| S12.7 | All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimised on-site. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | • | | · | Implemented | |

Note: D – Design stage C – Construction O – Operation



Appendix D

Impact Monitoring Schedule of the Reporting Month



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Appendix E

Noise Monitoring Equipment Calibration Certificate



(BLANK)



Appendix F

Event/Action Plan for Noise Exceedance



Event and Action Plan for Construction Noise Monitoring

| Event | Act | tion | | | | | | |
|--------------|-----|--|-----|---|----|---|----|---|
| | ET | | IEC | | ER | | Со | ntractor |
| Action Level | 1. | Carry out investigation to identify the source and cause of the | 1. | Review the analyzed results submitted by the ET | 1. | Confirm receipt of Notification of Exceedance in writing | 1. | Submit noise mitigation proposals if required, to the IEC and ER |
| | | complaint/ exceedance(s) | 2. | Review the proposed remedial | 2. | Require Contractor to propose | 2. | Implement noise mitigation |
| | 2. | Notify IEC, ER, and Contractor and report the results of investigation | | measures by the Contractor and advise the ER accordingly | | remedial measures for the analysed noise problem | | proposals. |
| | | to the Contractor, ER and the IEC | 3. | Supervise the implementation of | 3. | Ensure remedial measures are | | |
| | 3. | Discuss with the Contractor and IEC for remedial measures required | | remedial measures | | properly implemented | | |
| | 4. | If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor | | | | | | |



Appendix G

Noise Monitoring Data



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Appendix H

Waste Flow Table



Monthly Summary Waste Flow TableName of Department:WSDContract No. / Works Order No.:13/WSD/16Monthly Summary Waste Flow Table forMay 2020

| | | Actual Quantities o | f <u>Inert</u> Construction Wa | ste Generated Mo | onthly | |
|----------------|---|--|--------------------------------|-----------------------------|-------------------------------|-------------------------------|
| Month | Total Quantity Generated (see Note 4) | Hard Rock and Large Broken Concrete (see Note 3) | Reused in the Contract | Reused in other Projects | Disposed of as Public Fill | Imported Fill (see Note 1) |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) |
| 2018 | 1.157 | 0.063 | 0.000 | 0.000 | 1.157 | 0.518 |
| 2019 | 5.178 | 0.043 | 2.211 | 0.000 | 2.520 | 3.200 |
| Jan 2020 | 0.151 | 0.003 | 0.000 | 0.000 | 0.151 | 0.077 |
| Feb 2020 | 0.185 | 0.000 | 0.000 | 0.000 | 0.185 | 0.170 |
| Mar 2020 | 0.278 | 0.000 | 0.000 | 0.000 | 0.278 | 0.201 |
| Apr 2020 | 0.492 | 0.000 | 0.000 | 0.000 | 0.492 | 0.069 |
| May 2020 | 1.294 | 0.000 | 0.291 | 0.000 | 1.003 | 0.030 |
| Sub-total | 3.404 | 0.003 | 0.291 | 0.000 | 3.113 | 0.547 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Total for 2020 | 3.404 | 0.003 | 0.291 | 0.000 | 3.113 | 0.547 |



| | | Actual Quantities of | f <u>Non-inert</u> Construction | Waste Generated Mo | nthly |
|----------------|-------------|-------------------------------|---------------------------------|--------------------|---|
| Month | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste | Others, e.g. General Refuse disposed at Landfill |
| | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| 2018 | 0.000 | 0.417 | 0.000 | 0.000 | 0.139 |
| 2019 | 0.000 | 0.062 | 0.000 | 0.000 | 0.102 |
| Jan 2020 | 0.000 | 0.055 | 0.000 | 0.000 | 0.002 |
| Feb 2020 | 0.000 | 0.050 | 0.000 | 0.000 | 0.001 |
| Mar 2020 | 0.000 | 0.052 | 0.000 | 0.000 | 0.001 |
| April 2020 | 0.000 | 0.043 | 0.000 | 0.000 | 0.002 |
| May 2020 | 0.000 | 0.058 | 0.000 | 0.000 | 0.004 |
| Sub-total | 0.000 | 0.258 | 0.000 | 0.000 | 0.010 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total for 2020 | 0.000 | 0.258 | 0.000 | 0.000 | 0.010 |

Notes:

1. The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2. Plastic refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3. Broken concrete for recycling into aggregate.



- 4. "Total Quantity Generated" only refers to the actual quantities of inert C&D materials generated monthly excluding those that will be recycled (Hard Rock and Large Broken Concrete, Reused in the Contract, Reused in other Projects). Imported fill will not be included in "Total Quantity Generated" as those C&D materials are not generated from this project.
- 5. C&D materials in tonnes are converted to meter cube (m^3) on a scale of 0.5.
- 6. Source and types of Imported Fill in the reporting month
 - i. Tseung Kwan O Area 137: 14.925 m³ (29.85 tonnes/ 2 cars)

| 7. | The amount of Hard Rock and Larg | e Broken Concrete are disposed | l to public fill, the breakdown of C&D | materials disposed to r | public fill is shown as below: |
|----|----------------------------------|--------------------------------|--|-------------------------|--------------------------------|
| | | | | | |

| Type of C&D Materials | Description of C&D Materials | C&D Waste Disp osed (Volume) (m ³) |
|-----------------------|---------------------------------------|--|
| | Bentonite | |
| | Broken Concrete | 149.9 |
| | Broken Rock | |
| | Mixed Construction Waste (>50% inert) | |
| Inert | Building Debris | |
| men | Mixed Rock and Soil | 668.75 |
| | Reclaimed Asphalt Pavement | 107.3 |
| | Slurry | 48.75 |
| | Soil | 29.2 |
| | TOTAL = | 1003.9 |
| Non-inert | | 20.3 |



Appendix I

Landfill Gas Equipment Certificate

Monitoring Calibration





香港新界葵涌葵昌路58-70號永祥工業大廈10樓B室

Unit B, 10/F., Wing Cheung Industrial Building, 58-70 Kwai Cheong Road, Kwai Chung, New Territories, HK Tel: (852) 2751 7770 Fax: (852) 2756 2051 E-mail: rotter@rotter.com.hk

Calibration Report - Gas Detector

| UNIT INFORMATIO | | | | |
|------------------------------|-----------------------|------------------------|------------------|------------------------|
| Customer: Penta-Ocean | Construction Co., Ltd | Serial # : 181-14 | | QRAE II |
| | | Firmware : V3.5 | | LEL/02/CO/H2S |
| | | Cal date : 29-Aug- | 2019 Inspected: | Teddy |
| | | ` | | |
| | | | | |
| SENSOR DATA : | | | -2 | |
| Γ | LEL sensor (ME) | O2 sensor | CO sensor (Tox1) | H2S sensor (Tox2) |
| Calibration dates: | 29-Aug-2019 | 29-Aug-2019 | 29-Aug-2019 | 29-Aug-2019 |
| After Calibration levels | 50% | 18.00% | 50 ppm | 10.2 ppm |
| Varm levels (Low): | 10.00% | 19.50% | 36 ppm | 10 ppm |
| Alarm levels (High): | 20.00% | 23.50% | 200 ppm | 20 ppm |
| FWA Level: | | | 35 ppm | 10 ppm |
| STEL Level : | | | 100 ppm | 15 ppm |
| N | | | | 0. G |
| <u>Status:</u> Pump Speed | Low | ··· | | |
| Clock | Yes | Back Light Measure | Manual | 4 |
| | res | Inteasure | Average | |
| EL Gas Selection | | | | |
| LEL Calibration Gas | Methane | LEL measurement Gas | Wethane | 1 |
| EL Custom Gas | LEL_custom_gas | LEL Custom Factor | 1.0 | |
| | LEL_GUSION_GUS | | 1.0 | 1 |
| | Miles (400) CO. Fo | | | |
| as types used : 4-Gas | MIX: (18% OZ, SUPPM C | CO, 10ppm H2S, 50% LEL | CH4, BAL N2) | Gas lot # 1128619Cyl#6 |

Notes:

The unit was calibrated and checked under good working condition

**Next calibration due on or before 28 August 2020

Serviced by Rotter stornate al Ltd



Appendix J

Landfill Gas Monitoring Data



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Name & Designation

Eric Man (Sub-Agent [RenoPipe])

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | | | Monitoring v | vells / Surface C | las Emission | | |
|--------------------|--|------------------|---------------------------------------|--------------------|---------------------------------------|-----------------------|--------------|--------------------------------|---------------------|
| | · | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area B | 2-5-2020 | c84× | FINE | 0 | 0 | 0 | 20.9 | 28/1010 | 2.2 |
| | 2-5-2020 | 1345 | FINE | 0 | 0 | 5 | 2.9.9 | 30/1012 | 2.1 |
| | 2-3-2020 | 1645 | FINE | 0 | 0 | 0 | 7.0.9 | 30/1012 | 2.2 |
| | - | | | | | | | / | |
| | | | · · · · · · · · · · · · · · · · · · · | ····· | · · · · · · · · · · · · · · · · · · · | | | 1 | |
| | ······································ | | | | | | | / | |
| <u></u> | | | | | : | | | / | |
| | | | | | | | | 1, | |
| · | | | | | | | | | |

Field Operator:

Signature Date 2-5-2020

1C-

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 2/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.9 | 28/1012 | 2.5 | |
| | 2/5/2020 | 1355 | ⊨.µē | 0 | 0 | 0 | 20.9 | 28/ 1009 | 2.5 | |
| (HFC 0+90 | 2/5/2020 | 0900 | FINE | 0 | C | C | 20.9 | 23/122 | 2.5 | |
| | 2/5/2020 | 1400 | FINE | ð | 0 | 0 | 20.9 | 28/1004 | 2.5 | |
| Pitc | 2/5/2020 | 2915 | FINE | 0 | C | C | 20.9 | 28/1012 | 0.8 | |
| | 2/5/2020 | 1415 | FINE | 0 | 0 | Q | 20.9 | 21/1009 | 0.2 | |
| 137 CH.CT 2+302+6 | | 0935 | FINE | 0 | C | 0 | ze.h | 27/1012 | 3.1 | |
| | 2/5/2020 | 1435 | FINE | ٥ | 0 | 0 | 20.9 | Z}/1009 | 3.1 | |
| 137 Pitc 1 900 | 2/5/2020 | 0945 | FINE | 0 | 0 | 0 | 20.9 | 26/1012 | 3.5 | |
| | 2/5/2020 | 445 | Fipe | 0 | 0 | 0 | 20.9 | 28/1008 | 3.5 | |
| 137 PH B | 2/5/2020 | 1000 | FINE | 0 | C | 0 | 20.4 | 26/1012 | ł | |
| | 2/5/2020 | 500 | FING | 0 | 0 | 0 | 20.2 | 28/ 1005 | 1 | |
| CHA 6+20-6+33 | 2/2/2020 | 1015 | FINE | 0 | Q | Û | 20.9 | 26/1012 | 3.5 | |
| | 2/3/2020 | (212) | FINE | 0 | 0 | 0 | 20.9 | 23/100] | 7.5 | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>ye Date</u> _____2-3-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring weils / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 2/5/2020 | 1020 | FINE | C | 0 | 0 | 20.9 | 26/1012 | 1.2 | |
| | 2/3/2020 | 520 | FINE | 0 | 0 | 0 | 20.9 | 23/1005 | 1.2 | |
| Pit B | 2/5/2020 | 1030 | FINE | C | 0 | 0 | 20.9 | 26/1012 | 6 | |
| | 2-15/2020 | 1550 | FINE | 0 | 0 | 0 | 20.9 | 24/ 1008 | 6 | |
| Pit M | 2/1/2020 | 10,20 | FINE | 0 | 0 | 0 | 2-0.9 | 26/1012 | 1.1 | |
| | 2-15/2020 | (220 | FINE | 0 | 0 | e | 2-0.3 | 23/ 1008 | М | |
| MWT2 | 2/2/2020 | 1110 | FINE | Ð | U | C | 20.9 | 27/1012 | 0.1 | |
| | 212/2020 | 1610 | FINE | 0 | Û. | 0 | 20.9 | 28/1008 | 0.6 | |
| | | | | | | | | | | |
| | | | | | <u> </u> | | | ;/ | - | |
| | | | | | | | | · · · · / | | |
| | | | | | | ····· | | | | |

Name & Designation Signature

Field Operator:

<u>Date</u>

Eric Man (Sub-Agent [RenoPipe])

2-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Dates calibrated |
|------------------|
| 29 Aug 2019 |
| |
| |
| |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitering wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|-----------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 4-5-2025 | 084r | FINE | Ð | 0 | 0 | 20.9 | 28/1011 | 2.2 | |
| | 4-5 -2020 | 1345 | FINE | 6 | C | v v | 20.9 | 30/ 1010 | 2.2 | |
| | 4-5-2020 | (545 | FINE | 0 | 0 | 0 | 20.9 | 29/ 1009 | Z.2 | |
| | | | | | | | | | | |
| | | | | | | | | | 1 | |
| | | | | | | | | 1 | | |
| | | | | | | | | 1 | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | | · /, | | |

| Name & Designation | Signature | Date |
|---------------------------------|-----------|----------|
| Eric Man (Sub-Agent [RenoPipe]) | 1em | 4-5-2020 |

Field Operator:

Laboratory Staff:

. .

Checked by: .

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring --Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan C Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 4/5/2010 | 0855 | FINE | ú | 0 | C | 20.9 | 28/ 101 | 2.5 | |
| | 4/5/2020 | 1355 | FINE | C | 0 | Û | 2.0.9 | 20/ 1010 | 2.5 | |
| CHFC 0+90 | 4/5/2020 | 00100 | FINE | ¢ | 0 | g | 2-0,9 | 28/101 | 2.5 | |
| | 4/5/2020 | 14-00 | FINE | Ð | 0 | ¢ | 20.9 | 30/1003 | 2.5 | |
| Pitc | 4/5/2020 | 0915 | FINE | 2 | 0 | 0 | 2-0.4 | 28 / 1011 | 0.8 | |
| | 4/5/2020 | 1415 | FINE | 0 | 0 | 9 | 20.9 | 30/ 1009 | 0.8 | |
| 137 CH, CT 2+304+6 | \$ 4/5/2020 | 0935 | FINE | 0 | 0 | 0 | 20.2 | 28/101 | 3.1 | |
| | 4/5/2020 | 1435 | FINE | 0 | 0 | Ċ | 22.9 | 30/1009 | 3. | |
| 137 Pitc & 900 | 4/5/2020 | 0945 | FINE | 0 | 0 | 0 | 22.9 | 23/1011 | 3.5 | |
| | 4/5/2020 | 1445 | FINE | 0 | 0 | 0 | 20.9 | 30/1009 | 3.5 | |
| 137 PH B | 4/5/2020 | 10:00 | Fine | Ö | 0 | 0 | 20.9 | 29/1011 | 1 | |
| | 4/5/2020 | 1500 | FINE | 0 | 0 | ٥ | 20.9 | 29/1009 | Į | |
| CHA6+20-6+33 | | 1015 | FINE | Q | 0 | 0 | 20.9 | 29/1011 | 3.5 | |
| | 4/3/2020 | 1212 | FINE | 0 | 0 | C | 20.1 | 29/1009 | 35 | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>e Date</u> - 4-X-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited

ENVIRONMENTAL PROTECTION DEPARTMENT



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -- Field Measurement Recording Sheet

| Name of site: | 13/WSD/16 - Mainlaying in Tseung Kwan O |
|----------------------|---|
| Date of measurement: | |

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 4/5/2020 | 1020 | FINE | D | 0 | 0 | 20.9 | 2-9/1011 | (.2 | |
| | 4/5/2020 | 1520 | FINE | 0 | Ű | 0 | 20.5 | 29/1009 | 1.2 | |
| Pit B | 4/5/2020 | 1030 | FINE | 0 | 0 | 0 | 20.9 | 24/1011 | 6 | |
| | 4/5/2020 | 1230 | FINE | 0 | c | 0 | 29.9 | 29/1009 | 6 | |
| Pi+M | 4/15/ 2020 | 1050 | FINE | 0 | G | 0 | 20.9 | 29/1010 | <u> </u> . | |
| | 4/5/2020 | 1550 | FINE | C | 0 | 0 | 20.9 | 29/ 009 | 1.1 | |
| MWTZ | 4/5/2020 | 1110 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 0.5 | |
| | 4/5/2020 | 1610 | FINE | C | 0 | 0 | 229 | 29/1009 | 0.6 | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Signature</u> <u>Date</u>

4-5-2020 hr_

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|----------------------|---|---------------------------------|-----------------------|------------|--------------------------------|---------------------|-----|--|
| | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| Area B | 5-5-2020 | 0245 | FINE | 0 | 0 | C | 20.2 | 22/1010 | 2.2 | |
| | 5-5-2020 | 1345 | FINE | ß | 3 | 0 | 20-9 | 30/ 1002 | 2.2 | |
| | X- X- 2020 | 1645 | FINE | 0 | 0 | 0 | 20.9 | 29/1007 | 2.2 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

<u>Date</u>

X-X-2020

Field Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4750 | 5/5/2010 | 0855 | FINE | Ø | 0 | Û | 20.9 | 28/10:0 | 2.5 | |
| | 5/5/2028 | 1355 | FINE | C | 0 | 0 | 20.9 | 30/1008 | 2.5 | |
| CHFC 0790 | 5/5/2020 | 0900 | FINE | G | 0 | 0 | 20.9 | 22/1010 | 2.5 | |
| | \$/\$/2020 | 1400 | HNE. | 0 | 0 | 0 | 20.9 | 30 / 1008 | 2.5 | |
| Pitc | x/5/2020 | 0915 | FINE | 0 | 0 | Q | 26.9 | 28/1010 | 0.8 | |
| | 5/5/2020 | 1415 | FINE | 0 | 0 | C | 205 | 30/ 1005 | D. Š | |
| 137 CH.CT 2+3002+6 | \$ >15/2020 | 0935 | FINE. | 0 | e | Ç | 29.9 | 24/1010 | 3.1 | |
| | 5/5/2020 | 1435 | FINE | Û | 0 | 0 | 209 | 30/1008 | 3. | |
| 137 Pitc & 900 | 5/5/2020 | 0945 | Fixe | C | 0 | Ĵ | ZP.G | 28/1010 | 3.4 | |
| | 5/5/2020 | 445 | GNE | 0 | ٥ | 0 | 2.0.9 | 20/ 1005 | 35 | |
| 137 PH B | 5/5/2020 | 000 | Fi Me | . 0 | 0 | 0 | 20-9 | 23/1010 | l | |
| | 5/5/2020 | 500 | 545 | J J | 2 | 0 | 20.9 | 30/ 100} | | |
| CHA6+20~6+33 | | 1015 | E HKE | C | 0 | 0 | 20.9 | 28/1210 | 3.8 | |
| | 5/3/2020 | 1212 | FINE | C | Ð | 0 | 20.9 | 30/1008 | 3.5 | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>gnature Date</u> NoL X-X-2020

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------------------------|------------------|---|--------------------|---------------------------------|-----------------------|--|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | X/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.3 | 29/10/0 | (.2 | |
| | 5/3/2020 | 1520 | FINE | U | 0 | 0 | 20.9 | 30/ 1008 | 1.2 | |
| Pit B | 5/5/2020 | 1030 | FINE | 0 | 0 | 0 | 20.4 | 23/1010 | 6 | |
| | 5/5/2020 | 1530 | FINE | 0 | 0 | ¢ | 20.9 | 30/1008 | 6 | |
| Pitn | X/X/2020 | 1050 | FINE | 0 | C | 0 | 20.9 | 29/1010 | | |
| | 5/5/2020 | 1550 | FINE | 0 | 0 | 0 | 20.4 | 30/1007 | 1 | |
| MWT2 | 5/x/2020 | Uio | FINE | 0 | 0 | 0 | 20.5 | 29/1010 | 0.6 | |
| | 51512020 | 1610 | FINE | 0 | C | 0 | 20.9 | 30/1007 | 0.6 | |
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Name & Designation Signature

Field Operator:

Eric Man (Sub-Agent [RenoPipe])

5-5-2020

<u>Date</u>

.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area B | 6-5-2020 | ०९५४ | FINE | Ø | 0 | 9 | 20,9 | 23/1010 | 2.0 |
| | 6-5-2020 | 1345 | FINE | 0 | 0 | 0 | 20.9 | 30/ 1009 | 2.0 |
| | 6-5-2020 | 1645 | FINE | 0 | 0 | 0 | 20.9 | 30/ 1007 | 2.0 |
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Name & Designation Signature

Eric Mar. (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 6-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring --Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 6/5/2020 | 0855 | FINE | Q | 0 | 0 | 20.5 | 29/1010 | 2.5 | |
| | 6/5/2029 | 1355 | FINE | 0 | 0 | C | 20.9 | 29/1014 | 2.5 | |
| CHFC 0+90 | 6/5/2020 | 0900 | FINE | C | D | 0 | 20 4 | 29/1010 | 2.5 | |
| | 6/5/2020 | 14:00 | トルモ | 0 | 0 | G | 20.5 | 24/1053 | 2.5 | |
| Pitc | 6/5/2020 | DAIY | FINE | C | C | D | 209 | 29/1010 | 0.3 | |
| | 6/5/2020 | 1415 | FINE | C | 0 | 0 | 20.3 | 24/1008 | 0.8 | |
| 137 CH. CT 2+304+6 | \$ 6/5/2020 | 0935 | FINE | 0 | 0 | 0 | 20.9 | 29/1010 | 3.1 | |
| | 6/5/202 | 1435 | FINE | C | Ð | 0 | 20.9 | 30/1098 | 31 | |
| 137 Pitc 1, 900 | 6/5/2020 | 0945 | FINE | 0 | 0 | 0 | 20.9 | 29/1010 | 3.5 | |
| | 6/5/2000 | 1445 | FINE | C | 0 | 0 | 20.9 | 30 / 1008 | 35 | |
| 137 RH B | 6/5/2020 | 000 | ল পাছ | ê | 0 | c | 20.9 | 29/1010. | i i | |
| | 6/5/2020 | 1500 | FINE | 0 | 0 | C | 20,9 | 31/1008 | 1 | |
| CHA6+20-6+33 | 6/3/2020 | 1015 | FINE | 0 | 0 | 9 | 20.4 | 29/1010 | 3.5 | |
| | 6/5/2020 | 1515 | FINE | 0 | 0 | G | 76.9 | 31/1001 | 3.5 | |

Name & Designation. Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 6-5-2020 AL_

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12-730 | 6/5/2020 | 1020 | FINE | C | 0 | S | 20.9 | 29/1010 | 1,2 | |
| | 6/5/2020 | \$20 | FINE | 0 | 0 | 0 | 20.9 | 31/1007 | 1.2 | |
| Pit B | 6/5/2020 | 1030 | FINE | 0 | 0 | 4 | 20.9 | 29/1010 | 6 | |
| | 6/5/2020 | 1530 | FINE | ٥ | 0 | ð | 20.9 | 31/1207 | 6 | |
| Pit N | 6/8/2020 | 1050 | FING | 0 | 0 | 2 | 20.8 | 29/1010 | 1 | |
| | 6/8/2020 | 1550 | FINE | C | 0 | Q | 20.9 | 31/1007 | { | |
| MWT2 | 6 1512020 | 1110 | FINE | 0 | 0 | 0 | 20.9 | 29/1010 | 0.6 | |
| | 6 18/2020 | 1610 | FINE | 0 | 3 | 0 | 20.9 | 31/(207 | <u> </u> | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature <u>Date</u>

6-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area B | 7-5-2020 | 0845 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 2.0 |
| | -7-X-Z020 | 1345 | FINE | 0 | c | 0 | 20.9 | 30/ 1009 | 2.0 |
| | 7-3-2020 | 1645 | FINE | Ŭ | 0 | C | 20-9 | 30/1007 | 2.0 |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

7-5-2020

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | 1 | | | | | | |
|--------------------|------------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 7/5/200 | 0855 | FINE | C | 0 | 0 | 20.9 | 30/1010 | 2.5 |
| | 7/5/2028 | 1355 | PINE | | 0 | 0 | 20.9 | 30/1009 | 2.5 |
| CHFC 0790 | 7/5/2020 | 09100 | HINE | 0 | 0 | 0 | 20.9 | 27/1010 | 2.5 |
| | 7/5/2020 | 1400 | FINE | 0 | 0 | c | 20.9 | 30 / 1005 | 2.8 |
| Pitc | 7/5/2020 | 0915 | FINE | 0 | 0 | Q | 229 | 29/1010 | 0.8 |
| | 7/5/2020 | 1415 | FINE | 0 | 0 | C | 20.9 | 30/1008 | 0.8 |
| 137 CH.CT 2+33-246 | 6 7/5/2020 | 0935 | FINE | 0 | 0 | 0 | 20.9 | 29/1010 | 31 |
| | 7/5/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 30/1008 | 3.1 |
| 137 PHC & 900 | 7/5/2020 | 09445 | FINE | C | 0 | 0 | 20.9 | 30/1010 | 3.5 |
| | 7/5/2020 | 4475 | FINE | 0 | 0 | 0 | 20.1 | 30 / 1002 | 3.5 |
| 137 PH B | 7/5/2020 | 1000 | FINE | 0 | 0 | 0 | 20.9 | 32/1010 | 1 |
| | 7/5/2020 | 1500 | FING | 0 | 0 | 0 | 7.0.4 | 30/ 1002 | 1 |
| CHA6+2016+33 | 7/2/2020 | 1015 | FINE | 0 | 0 | c | 20.9 | 30/1010 | 3.5 |
| | 7/5/2020 | 1515 | TANE | 0 | 0 | 0 | 20.9 | 30/ 1008 | 3.5 |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

7-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 7/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 1,2 | |
| | 7/3/2020 | \$20 | FINE | J | 0 | Ŷ | 20.9 | 30/1008 | 1.2 | |
| Pit B | 7/8/2020 | 1030 | FINE | ο. | 0 | C | 20.9 | 30/1010 | 6 | |
| | 7/5/2020 | 1530 | FING | 0 | c | 0 | 20.9 | 30/1007 | 6 | |
| PitN | 7/5/2020 | 1050 | FINE | Q | 0 | 0 | 20.9 | 30/1010 | | |
| | 7/5/2020 | 1553 | FINE | ৩ | C | 0 | 20.9 | 35/1007 | | |
| MWT 2 | 1/5/2020 | (110 | FIFE | 0 | 0 | 0 | 20.9 | 30/1010 | 0.6 | |
| | 7/\$/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 30/1007 | 0.6 | |
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Name & Designation Signature Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

7-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400F (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Aren B | 8-5-2022 | 0845 | FINE | 0 | 0 | Û | 20.9 | 29/1010 | 2.0 | |
| | 8-2-2010 | 1345 | FINE | 0 | 0 | 3 | 20.9 | 31/1009 | 2.0 | |
| | 8-5-2020 | 1645 | FINE | 0 | 0 | D | 20.9 | 31/ 1007 | 2.0 | |
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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | : | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHIFC 4+50 | 8/5/2020 | 0855 | FINE | 0 | 0 | 0 | 209 | 29/1010 | 2.5 | | |
| | 8/5/2020 | 1355 | FINE | 9 | 0 | 0 | 20.3 | 31/1008 | 2.5 | | |
| CHFC 0+90 | 8/3/2020 | 0900 | FINE | 0 | a | 0 | 20.3 | 29/1010 | 2.S | | |
| | 8/5/2020 | 1400 | FINE | 0 | C | C | 20.9 | 31/1008 | 2.5 | | |
| Pitc | 3/5/2020 | 0915 | FINE | 0 | 0 | 0 | 20.3 | 29/1010 | 0.8 | | |
| | \$ 15/2020 | 1415 | FINE | C | 0 | 0 | 7.29 | 31/ 1008 | 8.0 | | |
| 137 CH.CT 2+30446 | | 0935 | 5NE | ٥ | 0 | С | 209 | 29/1010 | 31 | | |
| | 8/5/2020 | 1435 | F.NE | 0 | 0 | 0 | 20,9 | 31/1003 | 31 | | |
| 137 Pitc & 900 | 8/5/2020 | ાયન્ડ | FINE | 0 | 0 | э | 209 | 24/1010 | 3.5 | | |
| | 8/5/2020 | 1495 | FINE | 0 | 0 | 0 | 20.4 | 31/1008 | 3.5 | | |
| 137 PH B | 8/5/2020 | 1000 | FINE | 0 | 0 | 0 | 229 | 30 / 010 | (| | |
| | 8/5/2020 | 500 | FINE | C | 0 | 0 | 20.9 | 31/1008 | 1 | | |
| CHA 6+20-6+33 | 8/5/2020 | 2101 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 3.5 | | |
| | 8/3/2020 | 1212 | FINE | 0 | 0 | 0 | 20.9 | 30/1005 | 3.5 | | |

Name & Designation Signature

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Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date 8-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHA 12+30 | 8/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 1.2 | | |
| | \$ 15/2020 | 520 | FINE | 0 | 0 | G | 2.0.9 | 30/1007 | 1.2 | | |
| Pit B | 8/5/2020 | 1030 | TINE | 0 | 0 | o | 20.9 | 30/1010 | 6 | | |
| | 3/5/2020 | 1530 | FINE | 0 | 0 | 0 | 20.9 | 70/ (007 | 6 | | |
| MWTZ | 8/5/2020 | 1 [10 | FINE | 0 | 0 | 0 | 2.0,5 | 30/1010 | 0.6 | | |
| | 8/4/2020 | 1,6 [0 | | 0 | 0 | 0 | 20.9 | 31/1007 | 0.6 | | |
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Name & Designation <u>Signature</u>

<u>Date</u>

Field Operator:

Eric Man (Sub-Agent [RenoPipe]]

8-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|---------------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| · · · · · · · · · · · · · · · · | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 9-5-2020 | 0345 | FINE | 0 | 0 | Ø | 20.3 | 30/1010 | 2.0 | |
| | 9-5-2020 | 1345 | FINE | 0 | 0 | Û | 20.9 | 30/1009 | 2.0 | |
| | 9-5-2020 | | FINE | 0 | 0 | <u> </u> | 20.9 | 24/1008 | 2.0 | |
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Name & Designation Signature

<u>Date</u> 9-5-2020

Field Operator:

Eric Man (Sub-Agent [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

.

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | ng Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|---------------------|------------------|--|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 9/5/200 | 0855 | FINE | 0 | 0 | C | 20.9 | 30/ 1010 | 2.5 |
| | 9/5/2020 | 1355 | FINE | 0 | 0 | 0 | 209 | 30/1009 | 2.5 |
| CHFC 0+90 | 9/5/2020 | 00100 | FINE | 0 | 0 | Ö | 20.9 | 50/1010 | 2.5 |
| | 9/5/2020 | 1400 | FINE | 0 | 0 | 0 | 20.9 | 50/1009 | 2.5 |
| Pitc | 9/5/2020 | 0915 | FINE | 0 | 3 | 0 | 2.0.9 | 29/1010 | 0.8 |
| | 9/5/2020 | 1415 | FINE | 0 | 0 | 0 | 20.9 | 30/ 1008 | 0.2 |
| 137 CH, CT 2730466 | 5 9/5/2020 | 0935 | FINE | 0 | C | . 0 | 20.4 | 30/1010 | 31 |
| | 9/5/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 30/1008 | 3.1 |
| 137 Pitc & 900 | 1/5/2020 | 0945 | FINE | 0 | 0 | 0 | 20,9 | 24 / 1010 | 25 |
| | 9/5/2020 | 445 | FINE | 0 | 0 | υ | 20.3 | 31/ 1008 | 35 |
| 137 PH B | 9/5/2020 | 000 | HNE | 0 | 0 | 0 | 20.9 | 29/1010 | 1 |
| | 9/5/2020 | 1500 | ANE | 0 | 0 | Q | Z0.9 | 31/ 1008 | 1 |
| CHA 6+20-6+33 | 9/3/2020 | 1015 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 3.5 |
| | 9/5/2020 | 212 | FINE | 0 | 0 | 0 | 20.9 | 31/1008 | 3-5 |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

9-3-2020

Laboratory Staff:

Checked by:

ENV:RONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 4/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 30/1010 | 1.2 | |
| | 9/5/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 30/1008 | 1.2 | |
| Pit B | 9/5/2020 | 1030 | FINE | 0 | 0 | Ð | 20.9 | 30/1010 | 6 | |
| | 9/5/2020 | 1230 | FINE | D | 0 | 0 | 20.9 | 30/1008 | 6 | |
| Pit O | 9/5/2020 | 1050 | FINE | C | Ū | 0 | 20.9 | 30/1010 | 1.1 | |
| | 9/5/2020 | 1550 | FINE | 0 | 0 | Ū | 20.9 | 30/ 1008 | [[-l | |
| MWT2 | 9/5/2020 | 1110 | FINE | 0 | ٥ | 0 | 20.9 | 30/1010 | 0.6 | |
| | 9/5/2020 | 1610 | FINE | 0 | ° | 0 | 2.1.9 | 30/1008 | 0.6 | |
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Name & Designation

Field Operator:

Eric Man (Sub-Agent [RenoPipe])

Signature <u>Date</u> 9-5-2020 M-

cient operator.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | |
| Area B | 11-5-2020 | 0345 | FINE | C C | 0 | 0 | 20.9 | 28/1012 | 2.0 | |
| <u></u> | 11-5-2020 | | FINE | 0 | 0 | 0 | 209 | 3 / 1010 | 2.0 | |
| | 11-5-2020 | | FINE | C | 0 | 0 | 20.9 | 30/ 1008 | 2.0 | |
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Name & Designation Signature

Field Operator:

<u>Date</u>

Eric Man (Sub-Agent [RenoPipe])

11-5-2020

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | Monitoring w | velis / Surface G | as Emission | 3/4165 <u>9//77</u> 36566 | |
|--------------------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|--------------|--------------------------------|---------------------|
| | Ē | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 11/5/2020 | 0855 | TANE | 0 | 0 | 0 | 20.9 | 23/1012 | 2.5 |
| | 11/5/2020 | 1355 | FINE | Ð | C | C | 20.9 | 31/1009 | 2.5 |
| CHFC 0+90 | 11/5/2020 | 0900 | FINE | 0 | Ð | 0 | 20.4 | 29/1012 | 25 |
| | 11/5/2020 | 1400 | FINE | 0 | 0 | C | 20.5 | 31/1009 | 2.5 |
| Pitc | 11/5/2020 | 0915 | FINE | 0 | C | C | 20.9 | 29/1012 | 0.8 |
| | 11/5/2020 | 1415 | FINE | C | 0 | Q | 20.8 | 31/1004 | 0.4 |
| 137 CH.CT 2+300+1 | 6 11/5/2020 | 0935 | FINE | 0 | 0 | C | 20.9 | 29/1012 | 31 |
| | 11/5/2020 | 1435 | FING | 0 | 0 | C | 20.9 | 31/1009 | 3.1 |
| 137 Pitc & 400 | 11/5/2020 | 0945 | FINE | Q | 0 | C | 20.4 | 29/1012 | 3.5 |
| | 11/5/2020 | 445 | FINE | 0 | С | 0 | 20.9 | 31/ 1003 | 3.5 |
| 137 9H B | 11/5/2020 | 000 | FINE | Ð | 0 | ¢ | <i>20.</i> 9 | 29/1012 | 1 |
| | 11/5/2020 | 500 | FINE | 0 | 0 | 0 | Zø. G | 31/1003 | 1 |
| CHA6+2026+33 | 11/X/2020 | 1015 | FINE | 0 | 0 | 0 | 20.9 | 24/1012 | 3.5 |
| | 1/5/2020 | 1515 | FINE | C | Ö | 0 | 209 | 31/1008 | 3.5 |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 11-5-2020

13

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOLUCES MANAGEMENT

Acuity Sustainability Consulting Limited



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 11/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 30/1012 | 1.2 | |
| | 11/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 31/ 1008 | 1,2 | |
| Pit B | 11/5/2020 | 1030 | FINE | 0 | 0 | 0 | 20.9 | 30/1012 | 6 | |
| | 11/5/2020 | 1530 | FINE | 0 | C | 0 | 20.9 | 31/ 1008 | 6 | |
| Pito | 11/2/2020 | 1050 | FINE | C | Û | 0 | 20.9 | 30/10:2 | (J) | |
| | 11/5/2020 | 1550 | FINE | Û | 0 | 0 | 20.9 | 31/1008 | <u> </u> | |
| MWT2 | 11/5/2020 | 1110 | FINE | Û | 0 | 9 | 20.9 | 30/1011 | 0.6 | |
| | 11/5/2020 | 1610 | FINE | 0 | 0 | <u>9</u> | 20.9 | 71/1008 | 0.6 | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature

AL

<u>Date</u>

11-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|---------------------------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Atea B | 12-3-2020 | 084% | FINE | 0 | 0 | 0 | 20.9 | 25/1012 | 2.0 | |
| | 12-5-2020 | 1345 | FINE | 0 | 0 | 0 | 20.9 | 28/1019 | 2.0 | |
| | 12-5-2020 | 1645 | FINE | 0 | 0 | 0 | 20.9 | 27/1009 | 2.0 | |
| | | | | | | | | 1 | | |
| | | | | | | | | <u> </u> | | |
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Name & Designation Signature

Field Operator:

Date

12-5-2020

Eric Man (Sub-Agent [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|---------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHFC 4750 | 12/5/2020 | 0855 | FINE | G | 0 | D | 20.9 | 25/1012 | 2.x | | |
| | 12/5/2020 | 1355 | TANE | 0 | 0 | 0 | 2.2.9 | 23/1010 | 2.5 | | |
| (HFC 0790 | 12/5/2020 | 00100 | FINE | 0 | 0 | 0 | 20.2 | 26/1012 | 2.S | | |
| | 1/5/2020 | 1400 | FINE | 0 | 0 | 0 | 20.2 | 2.8/ 1010 | 2.5 | | |
| Pitc | 12/5/2020 | 0915 | FINE | ٥ | 0 | 0 | 20.2 | 26/1012 | 0.8 | | |
| | 12/5/2020 | 1415 | FINE | 0 | 0 | Ø | 20.9 | 23/1010 | 0.\$ | | |
| 137 CH, CT 2+30-126 | | 0935 | FINE | 1 | 0 | 2 | 20,9 | 26/1012 | 3.1 | | |
| | 12/3/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 28/1010 | 3,1 | | |
| 137 Pitc & 900 | 12/5/2020 | 0445 | FINE | 0 | | C C | Zog | 27/1012 | 3.5 | | |
| | 12/5/2020 | 1445 | FINE | G | 0 | 2 | 20.3 | 29/1010 | 3.5 | | |
| 137 PH B | 12/5/2020 | 10:00 | FINE | 0 | 0 | 0 | 20.4 | 28/012 | 1 | | |
| | 12/5/2020 | 1500 | FINE | đ | C | 0 | 20.9 | 29/1010 | 1 | | |
| CHA6+2006+33 | 12/3/2020 | 1015 | FINE | 0 | Ĵ. | 0 | 20. q | 23/1012 | 3.5 | | |
| | 12/5/2020 | 2121 | FINE | 0 | 0 | 0 | 29 | 30/1009 | 3.5 | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>e Date</u> | 2-X-2020

Laboratery Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|------------------------|------------------|--|---|--|--|--|--|---|--|--|
| | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| 12/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 28/ 1012 | 1.2 | | |
| 12/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.3 | 29/1009 | 1.2 | | |
| 12/5/2020 | 1030 | FINE | C . | 0 | Ø | 20.4 | 28/ 101L | 6 | | |
| 12/5/2020 | 1230 | FINE | C | Ð | C | 20.9 | | 6 | | |
| 12/5/2020 | 1050 | FINE | 0 | 0 | 3 | 20.9 | | 1.1 | | |
| 12/5/ 2020 | 1550 | FING | 0 | 0 | 0 | 20.9 | 1 1 1 1 1 | U | | |
| 12/5/2020 | 1110 | FINE | Û | D | 0 | 20.3 | | 0.6 | | |
| (2/×/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 28/1009 | 0.6 | | |
| | | | | | | | 1 | | | |
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| | measurement | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | measurement time Weather condition $12/5/2222$ 1020 $FINE$ $12/5/2222$ 1020 $FINE$ $12/5/2220$ 1020 $FINE$ $12/5/2020$ 1020 $FINE$ $12/5/2020$ 1030 $FINE$ $12/5/2020$ 1050 $FINE$ $12/5/2020$ 1050 $FINE$ $12/5/2020$ 1550 $FINE$ $12/5/2020$ 1550 $FINE$ | measurement time Weather condition Balance gas (%) $12/5/2020$ 1020 $FINE$ 0 $1L/5/2020$ 1020 $FINE$ 0 $12/5/2020$ 1030 $FINE$ 0 $12/5/2020$ 1030 $FINE$ 0 $12/5/2020$ 1050 $FINE$ 0 $12/5/2020$ 1550 $FINE$ 0 $12/5/2020$ 1550 $FINE$ 0 $12/5/2020$ 1550 $FINE$ 0 $12/5/2020$ 1550 $FINE$ 0 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | |

Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature <u>Date</u>

12-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE !!) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|-----|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | | |
| Area B | 13-5-2020 | 0845 | FINE | 0 | 0 | ¢ | 20.9 | 28/1013 | 2.0 | | |
| 1000 | 13-5-2020 | | FINE | 0 | 0 | ¢ | 209 | 26/1012 | 2.0 | | |
| | 13-5-2020 | 1645 | FINE | C | 3 | 0 | 20.9 | 26/1011 | 2.0 | | |
| | | | | | | | | | | | |

Name & Designation Signature

12 -

Field Operator:

<u>Date</u>

Eric Man (Sub-Agent [RenoPipe])

13-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHEC 4+50 | 13/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.9 | 28/1017 | 2.5 | | |
| | 13/5/2020 | 1355 | FINE | D | 0 | C | 209 | 26/1012 | 2.5 | | |
| CHFC 0790 | 13/5/2020 | 0900 | FINE | Ð | 0 | 0 | 20.9 | 23/1013 | 2.3 | | |
| | 13/5/2020 | 1400 | HNE | ð | 0 | 0 | 20.9 | 26/1012 | 2.5 | | |
| Pitc | 13/5/2020 | 0915 | FINE | C | 0 | Q | 22.4 | 28/1013 | 0.8 | | |
| | 17/5/2020 | 1415 | SINE | 0 | C | 0 | 202 | 26/10/2 | 3.8 | | |
| 137 CH.CT 2+30-2+6 | \$ 13/5/2020 | 0935 | FINE | Ð | 0 | 0 | 20.9 | 23/1013 | 3.1 | | |
| | 13/5/2020 | 1435 | FINE | D | C | 0 | Z.J. K | 26/10/1 | 3.1 | | |
| 137 Pitc & 900 | 13/5/2020 | 0945 | 5NZ | G | 0 | 0 | 22.5 | 27/1013 | 3.Y | | |
| | 13/5/2000 | 1495 | LINE | 0 | 0 | 0 | 22.3 | 26 / 101 | 3.5 | | |
| 137 HB | 13/3/2020 | 1000 | FINE | 0 | 0 | 0 | 22.5 | 26/1013 | 1 | | |
| | 13/5/2020 | 1500 | HNE | 0 | C | a | 20.9 | 26/1011 | | | |
| CHA6+2026+33 | 13/5/2020 | 1015 | ANE | 0 | 0 | 0 | 29.9 | 26/1013 | 3.X | | |
| | 13/5/2020 | 2121 | FINE | 0 | 0 | 0 | 20 3 | 26 / 1011 | 35 | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 13-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | ling Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|---------------------|------------------|--|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHA 12+30 | 13/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 26/1013 | 1.2 | | |
| | 13/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 26/1011 | (,2 | | |
| Pit B | 13/5/2020 | 1030 | HNE | 0 | D | 0 | 20.5 | 2-6/1013 | 6 | | |
| | 17/5/2020 | 1230 | FINE | Э | 0 | 0 | 20.9 | 26/1011 | 6 | | |
| MWT2 | 13/5/202 | 1110 | FINE | ٥ | 0 [°] | 0 | 209 | 26/1013 | 0.6 | | |
| | 13/ 5/2020 | 1610 | FINE | 0 | 3 | 0 | 20.9 | 26/ 1011 | 0.6 | | |
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Name & Designation

Field Operator:

Eric Man (Sub-Agent [RenoPipe])

13-5-2020

<u>Signature</u>

<u>Date</u>

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



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13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | | | | | | |
|--------------------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | · · · | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 14-5-2020 | 0845 | FINE | 0 | 0 | Ð | 20.9 | 25/1013 | 2.0 | |
| | 14-5-2010 | 1345 | FINE | 0 | J | 0 | 20.9 | 22/1011 | 2.0 | |
| | 14-5-2020 | 1645 | FINE | 0 | 0 | 0 | 20.3 | 27/109 | 73 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

14-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|---------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHFC 4+50 | 14/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.5 | 26/1013 | 2.5 | | |
| | 4/5/2028 | 1355 | FINE | Q | 0 | 0 | 20.9 | 28/1011 | 2.5 | | |
| CHFC 0790 | 14/3/2020 | 0900 | FINE | 0 | ¢ | 0 | 20.9 | 26/11/3 | 2.5 | | |
| | 14/5/2.020 | 1400 | FINE | C | 0 | 0 | 20.9 | 28/1011 | 2.5 | | |
| Pitc | 14/5/2020 | CAIY | FINE | 0 | n | 0 | 20.9 | 26/1013 | 0.8 | | |
| | 14/5/2020 | 1415 | FINE | 0 | 0 | 0 | 20.9 | 27/1010 | 0.2 | | |
| 137 CH.CT 2+30-2+1 | | 0935 | FINE | 0 | 0 | Ç | 20.9 | 2/0/1013 | 31 | | |
| | 4/5/202 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 28/1010 | 31 | | |
| 137 Pitc & 900 | 14/5/2020 | 0945 | Filme | 0 | 0 | Q | 2 <i>0.</i> 4 | 26/1013 | <u>7.</u> X | | |
| | 14/5/2000 | 1445 | FINE | 0 | 0 | 0 | 20.9 | 28/1010 | 3.5 | | |
| 137 PH B | 14/5/2020 | 000 | FINE | Q | 0 | 0 | 20.9 | 27/1013 | | | |
| | 14/5/2020 | 1500 | FILE | 0 | 0 | 0 | 20.9 | 28/ 1010 | 1 | | |
| CHA6+20-6+3 | 14/3/2020 | 1015 | FINE | 0 | 0 | 0 | 709 | 27/1013 | 3.5 | | |
| | 14/3/2020 | 1212 | FINE | 0 | 0 | 0 | 20.9 | 28/1009 | 3.5 | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>emature Date</u> /4-X-2020

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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOLTCES MANAGEMENT



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 14/5/2020 | 1020 | FINE | 0 | Q | 0 | 20.9 | 27/1013 | 1,2 | |
| | 14/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 28/ 1009 | 1,2 | |
| Pit B | 14/5/2020 | 1030 | FINE | C . | 0 | C | 20.9 | 27/1013 | 6 | |
| | 14/5/2020 | 1330 | FINE | 0 | Ċ | 0 | 20.9 | 29/1009 | 6 | |
| MWT 2 | 14/5/2020 | 1110 | FINE | 0 | 0 | C | 20.5 | 28/1013 | 0.6 | |
| | 14/5/2020 | 1610 | FINE | Ø | a | 0 | 20-1 | 23/ (009 | 0.6 | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Laboratory Staff: Checked by:

Signature

Date

14-5-2020

ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | ling Monitoring wells / Surface Gas Emission | | | | | | |
|-----------------|------------------------|------------------|--|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area B | 15-5-2020 | 0342 | FINE | 0 | 0 | 0 | 20.9 | 29/1009 | 2.0 |
| | 5-5-2020 | 1345 | FINE | 0 | 0 | 0 | 20.9 | 30/1008 | 2.0 |
| | 15-5-2020 | 1645 | FINE | 0 | 0 | Q. | 20.9 | 30/1006 | 2.0 |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 15-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 15/5/200 | 0855 | FINE | 0 | 0 | 0 | 20.9 | 23/1009 | 2.5 |
| | 15/5/2020 | 1355 | FINE | 0 | 0 | 0 | 209 | 30/1007 | 2.5 |
| CHFC 0+90 | 5/5/2020 | 09100 | TING | 0 | 0 | 0 | 20.9 | 23/1009 | 2.x |
| [| 15/5/2020 | 1400 | FING | 0 | 0 | 0 | 20.9 | 30/1007 | 2.5 |
| Pitc | 15/5/2020 | 0915 | FINE | 0 | . a | 0 | 20.9 | 28/1009 | 0.8 |
| | 5/5/2020 | 1415 | FINE | 0 | 0 | D | 20.9 | 30/ 1007 | 2.8 |
| 137 CH.CT 2730-24 | | 0935 | FINE | 0 | Ŋ | 0 | 20.9 | 28/1009 | 5.1 |
| | 15/5/2020 | 1435 | HNE | A | 0 | e | 20.9 | 30/ 1007 | 3.1 |
| 137 Pitc & 900 | 5/5/2020 | 0945 | HIVE | C | 0 | ß | 20.9 | 28/1009 | <u>z.</u> S |
| | 15/5/2020 | 445 | LINE | C | 0 | ٥ | 20.9 | 29 / 1007 | 3.5 |
| 137 PH B | 5/5/2020 | 1000 | FINE | C | 0 | 0 | 20.9 | 28/1009 | 1 |
| | 15/5/2020 | 1500 | 1-ME | 0 | 0 | ۵ | 10.9 | 30/ 1007 | 1 |
| CHA 6+20-6+33 | 15/5/2020 | کاه | FINE | 0 | D | 0 | 20.9 | 28/1009 | 3.5 |
| | 5/3/2020 | (21)2 | FINE | 0 | 0 | 0 | 20.9 | 30/1006 | 3-5 |

<u>Name & Designation</u> <u>Signature</u>

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 15-3-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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| | |

| Sample location | Date of measurement | Sampling time | | | | | | | | |
|--------------------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 15/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.3 | 28/1009 | 1.2 | |
| | 15/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 30/ (006 | (.2 | |
| Pit B | 15/5/2020 | 1030 | FINE | 0 | 0 | 0 | 2.0.3 | 28/1009 | 6 | |
| | 15/5/2020 | 1230 | FINE | 0 | 0 | ڻ ا | 229 | 30/1006 | 6 | |
| MWTZ | 15/5/2020 | 1110 | FINE | จ | C | 3 | 20-3 | 28/1004 | 0.6 | |
| | 5/5/2020 | 1510 | FINE | C | 0 | 0 | 20.9 | 30/1006 | 0.6 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe]) M.

Field Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

<u>Date</u> 15-5-2.020

Acuity Sustainability Consulting Limited



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of ineasurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|----------------------|------------------|---|--------------------|---------------------------------|---------------------------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depih (m) | |
| Area B | 16-5-2020 | 0647 | FINE | 0 | 0 | 2 | 20.9 | 29/1009 | 2.0 | |
| | 16-5-2020 | 1345 | FINE | 0 | 9 | 0 | 20.9 | 31/1008 | 2.0 | |
| | 16-5-2020 | 1645 | FINE | Ð | N | 0 | 20.9 | 30/1006 | 2.0 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> 16-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | | | | | | | |
|--------------------|------------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHEC 4+50 | 10/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.9 | 29/1009 | 2.5 | | |
| | 10/5/2020 | 1355 | FINE | 0 | 0 | 0 | 229 | 30/1007 | 2.5 | | |
| CHFC 0790 | 6/5/2020 | 0900 | FINE | 0 | 0 | 0 | 20.9 | 29/1009 | 2.8 | | |
| | 16/5/2020 | 1400 | FINE | 0 | C | Q | 20.0 | 30/1001 | 2.5 | | |
| Pitc | 16/5/2020 | 0915 | FING | 0 | G | 0 | 20.9 | 24/1004 | 0.8 | | |
| | 16/5/2020 | 1415 | FINE | 0 | 0 | 0 | 2_2.9 | 30/1007 | E.a | | |
| 137 CH.CT 2+304+6 | \$ 16/5/2020 | 0935 | FINE | C | 0 | 0 | 29.2 | 29/1009 | 5.1 | | |
| | 16/5/2020 | 1435 | HNE | C | C | ۵ | 22.3 | 30/1006 | 3.1 | | |
| 137 Pitc & 900 | 6/5/2020 | 0945 | FINE | .0 | 0 | 0 | 20.9 | 29/1009 | 7.Y | | |
| | 16/5/2020 | 1445 | ビルモ | 0 | C. | 0 | 22.9 | 30/1006 | 3.5 | | |
| 137 PH B | 16/5/2020 | 1000 | FINE | c | 0 | 0 | 20.9 | 29/1009 | 1 | | |
| | 16/5/2020 | 500 | FINE | 0 | 0 | 1 | 20.9 | 30/1006 | ١ | | |
| CHA 6+20-6+33 | 16/3/2020 | 1015 | FINE | C | 0 | Q | 20.9 | 29/1009 | 7.5 | | |
| | 16/5/2020 | 212 | FINE | 0 | 0 | 0 | 20.9 | 51/1005 | 3.2 | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>ire Date</u> 16-X-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | ng Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|--|--------------------|---------------------------------|-----------------------|------------|--------------------------------|----------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | |
| CHA 12+30 | 16/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 24/ 1009 | 1.2 | |
| | 16/5/2020 | 1520 | FINE | 0 | C | 0 | 20.9 | 31/ 1006 | 1.2 | |
| PitB | 16/5/2020 | 1030 | FINE | ວ . | 0 | D | 22.9 | 29/1009 | 6 | |
| | 16/5/2020 | 1530 | FINE | 5 C | 0 | 0 | 20.9 | 31/1006 | 6 | |
| MNT2 | 16/5/2020 | 1(10 | FINE | 0 | 0 | 0 | 2.9 | 29/ (009 | 0.6 | |
| | 1615/2020 | 1610 | FINE | 0 | 0 | 0 | 20.3 | 30/ 1006 | 0.6 | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature <u>Date</u> 16-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample Iocation | Date of measurement | Sampling time | | | | | | | | | |
|--------------------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| Area B | 18-5-2020 | | FINE | 0 | 2 | Q | 20.9 | 25/1005 | 2.0 | | |
| | 18-5-2020 | 1345 | FINE | | 0 | 0 | 20.9 | 27/ 1004 | 2.0 | | |
| | 18-5-2020 | 1645 | FINE | 0 | ð | 0 | 20.9 | 25/ 1004 | 2.0 | | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date

18-5-2020 ſ.,

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | - (14) | as Emission | | | | |
|--------------------|---------------------|------------------|-------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxyger (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 18/5/2020 | C822 | FINE | 0 | 0 | ڻ ا | 20.9 | 25/1025 | 2.5 |
| | 18/5/2020 | 1355 | FINE | 0 | 0 | 0 | 20.9 | 27/ 1004 | 2.X |
| CHFC 0790 | 8/5/2020 | 0900 | Fine | ٥ | 0 | 0 | 20.9 | 23/1005 | 2.5 |
| | \$15/2020 | 1400 | FINE | 9 | 0 | C | 25.9 | 27/ 1004 | 2.3 |
| Pitc | 18/5/2020 | 0915 | 5.VE | Ð | a | Q | 20.9 | 26/1005 | 0.8 |
| | 18/5/2020 | 1415 | FINE | 0 | c | 0 | 20.9 | 28/10:3 | 0.3 |
| 137 CH.CT 2+50046 | | 0935 | FINE | 0 | c | 0 | 20.9 | 27/1005 | 3.1 |
| | 18/5/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 23/1003 | 3.1 |
| 137 Pitc & 900 | 8/5/2020 | 0945 | ANE | 0 | 0 | 0 | 20.9 | 21/ 1005 | 3.5 |
| - | 18/5/2020 | 1495 | FINE | 0 | 0 | 0 | 70.4 | 27/1203 | 3.5 |
| 137 PH B | 8/5/2020 | 0:00 | FINE | 2 | 0 | 0 | 20.9 | 27/ 1055 | 1 |
| | 18/5/2020 | 1500 | Fixe | 0 | 0 | 0 | 20.3 | 27/1003 | 1 |
| CHA6+2016+33 | 18/2/2020 | 2101 | FINE | 0 | Û. | Ċ | 20.9 | 26/1005 | 35 |
| | 18/3/2020 | 1212 | FINE | 0 | 0 | 0 | 29.9 | 21/1003 | 3.5 |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date 18-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|-----|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | |
| CHA 12+30 | 18/5/2020 | 1020 | FINE | 0 | 0 | 0 | 209 | 26/1006 | 1.2 | |
| | 13/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 27/ 1003 | 1.2 | |
| Pit B | 18/5/2020 | 1030 | FINE | 0. | Û | 0 | 20.9 | 25/1006 | 6 | |
| | 18/5/2020 | 1230 | FINE | 0 | 0 | C | 20.9 | 27/1003 | 6 | |
| MWT2 | 18/5/2020 | 1110 | FINE | C C | 0 | 0 | 2.9.9 | 24/1006 | 0.6 | |
| | 18/3/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 26/1904 | 0.6 | |
| | | | | | | | | | | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date

18-5-2020

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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated | | |
|--------------------------|------------------|--|--|
| PGM-2400P (QRAE II) | 29 Aug 2019 | | |
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| Sample location | Date of measurement | Sampling time | | 0 - 1 M - 48 | vells / Surface C | 3as Emission | | | | |
|--------------------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 19-5-2020 | 0847 | FINE | 0 | 0 | 0 | 20.9 | 27/1006 | 2.0 | |
| | 19-5-2020 | 1343 | FINE | 0 | 0 | 0 | 20.4 | 29/1004 | 2.0 | |
| | 19-2-2026 | 1645 | FINE | 0 | G | 0 | 20.4 | 30/1003 | 2.0 | |
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Name & Designation Signature

Field Operator:

<u>Date</u>

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Eric Man (Sub-Agent [RenoPipe])

19-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400F (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENV:RONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | | | | | | |
|--------------------|------------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 19/5/2000 | 6855 | FINE . | 0 | 0 | 0 | 20.5 | 27/1006 | 2.5 | |
| | 19/5/2020 | 1355 | FINE | D | Ð | 0 | 20.9 | 29/1004 | 2.5 | |
| CHFC 0790 | 9/5/2020 | 00,00 | FINE | 7 | 0 | 0 | 20.9 | 27/1005 | 25 | |
| | 19/5/2020 | 1400 | FINE | 0 | 0 | 0 | 20.9 | 24/1004 | 2.5 | |
| Pitc | 19/5/2020 | 0915 | FINE | 6 | C | 0 | ZD.9 | 27/1006 | 0.8 | |
| | 19/5/2020 | 1415 | FINE | 0 | 0 | 0 | 20.9 | 29/ 004 | 0.8 | |
| 137 CH.CT 2730466 | | 0935 | LINE | 0 | J | 0 | 7.0.9 | 27/1006 | 5.1 | |
| | 19/5/2020 | 1435 | FINE | 5 | 0 | 0 | 20.9 | 29/1004 | 3.1 | |
| 137 Pitc & 900 | | 0945 | FINE | 0 | 0 | C | 2.0.9 | 27/1006 | 7.X | |
| | 19/5/2020 | 1445 | FINE | 0 | 0 | ວ | 20.9 | 29/1004 | 3.5 | |
| 137 PH B | 9/5/2020 | 0.00 | FINE | 0 | 0 | 0 | 20.9 | 27/1006 | 1 | |
| | 19/5/2020 | 1500 | FINE | 0 | 0 | 0 | 20.9 | 29/1004 | 1 | |
| CHA6+2226+33 | 19/2/2020 | 1015 | FINE | 0 | 0 | 0 | 20.9 | 27/1006 | 3.5 | |
| | 19/3/2020 | 1212 | TINE | 0 | 0 | 0 | 20.9 | 27/004 | 5.X | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>re Date</u> 19-X-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 14/5/2020 | 1020 | THE | 0 | 0 | 0 | 20.9 | 27/ 1026 | ۱. ۲ | |
| | 19/3/2020 | 1520 | TINE | 0 | 0 | 0 | 20.9 | 29/1004 | 1.2 | |
| Pit B | 19/5/2020 | 1030 | HNE | 0. | . 0 | 0 | 20.9 | 28/1006 | 6 | |
| | 19/5/2020 | 1230 | ANE | 0 | 0 | 0 | 20.9 | 29/1004 | 6 | |
| MNT 2 | 19/5/2020 | 1110 | FINE | 0 | 0 | 0 | 20.9 | 23/1000 | 0.6 | |
| ······ | 19/x/ 2020 | 1610 | FINE | 0 | ۵ | 0 | 20.9 | 30/ (003 | 0.6 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

19-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | | | | | | | |
|--------------------|------------------------|------------------|----------------------|-------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | 5 | | Weather condition | Balance gas | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| Area B | 20-5-2010 | 0845 | FINE | Û | C | Ŷ | 209 | 2-7/1007 | 2.0 | | |
| | 20-5-2020 | 1345 | FINE | 0 | ő | 0 | 20.9 | 27/1006 | 20 | | |
| | 20-2-2020 | 1645 | FINE | 0 | 0 | 0 | 20.9 | 27/1004 | 2.0 | | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

20-5-2020 dir____

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



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Name of site: 13/WSD/16 - Main/aying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHFC 4+50 | 20/5/2020 | 0855 | FINE | 0 | c | 0 | 20.9 | 28/1007 | 2.5 | | |
| | 20/5/2020 | 1355 | FINE | 0 | 0 | 0 | 2.9.9 | 21/ 1006 | 2.5 | | |
| CHFC 0+90 | 20/5/2020 | 0900 | FINE | 0 | 0 | 0 | 20.9 | 28/1007 | 2.5 | | |
| | 20/5/2020 | 1400 | FINE | 0 | 0 | Q | 20.9 | 27/1006 | 2.5 | | |
| Pitc | 20/5/2020 | 0915 | FINE | Q | 0 | 0 | 20.9 | 23/1007 | 0.2 | | |
| | 20/5/2020 | 1415 | FINE | 0 | 0 | 0 | 20.9 | 27/ 1005 | 0.8 | | |
| 137 CH.CT 2+30-4+6 | 6 20/5/2020 | 0935 | FINE | 0 | 0 | 0 | 209 | 28/1007 | 3,1 | | |
| | 20/5/2020 | 1435 | FINE | 0 | c | 0 | 20.3 | 27/1005 | 3. | | |
| 137 Pitc & 900 | 20/5/2020 | 09.45 | FINE | Ċ. | 0 | 0 | 20.9 | 28/1007 | 3.5 | | |
| | 20/5/2020 | 445 | FINE | 0 | 0 | 0 | 20.9 | 28/1005 | 35 | | |
| 137 Pit B | 25/5/2020 | 000 | FINE | 0 | 0 | 0 | 20.9 | 28/1001 | | | |
| | 20/5/2020 | 1500 | FINE | 0 | 3 | 0 | 20.9 | 28/1005 | 1 | | |
| CHA6+2026+33 | 20/3/2020 | 1015 | FINE | 0 | 0 | 0 | 70.9 | 28/1007 | 3.5 | | |
| | 20/5/2020 | 1515 | FINE | 0 | 0 | 0 | 20.9 | 28/1005 | 3.5 | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>ature Date</u> 20-X-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|---------------------------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 20/5/2020 | 1020 | FINE | 0 | 0 | 0 | 203 | 28/1001 | [.2 | |
| | 20/3/2020 | 1520 | FINE | 0 | ; 0 | 0 | 20.9 | 27/ 205 | [.2. | |
| Pit B | 20/5/2020 | 1030 | FINE | 0. | 0 | 0 | 20.3 | 28/1007 | 6 | |
| | 20/5/2020 | 1230 | GNE | 0 | C | Ů | 20.9 | 2-1/ 1005 | 6 | |
| MWT2 | 20/5/2020 | 1110 | FINE | 0 | 0 | 0 | 20.9 | 27/1007 | 0.6 | |
| <u> </u> | 20/5/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 27/ 1005 | ٥.٢ | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> Signature 20-5-2020

for

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | : | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 21-5-2020 | 0845 | RAIN | 0 | C | v | 209 | 26/1004 | 2.0 | |
| | 21-5-2020 | | RAIN | 0 | 3 | 0 | 2.0.9 | 27/1003 | 2,0 | |
| | 21-3-2020 | 1645 | RAIN | 0 | 0 | C | 2-0.9 | 28/1002 | 2.0 | |
| | | | | | | | | | | |
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Name & Designation <u>Signature</u>

Field Operator:

<u>Date</u>

Eric Man (Sub-Agent [RenoPipe])

21-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL FROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHFC 4+50 | 21/5/2020 | 0855 | KANN | 0 | 0 | 0 | 2.9.9 | 26/1005 | 2.3 | | |
| | 21/5/2020 | 1335 | RAN | 0 | C | 0 | 22.3 | 21/1002 | 2.5 | | |
| CHEC 0+40 | 21/5/2020 | 0900 | RAIN | 0 | 0 | 0 | 2.2.2 | 26/1005 | 2.5 | | |
| | 21/5/2020 | 1400 | RAIN | ĉ | 0 | 2 | 20.2 | 27/1002 | 2.5 | | |
| Pit C | 21/5/2020 | 0915 | K 819 | 0 | 0 | 0 | 20.2 | 26/1005 | j | | |
| | 21/5/2020 | 1415 | FAIN | Ð | ٥ | 0 | 70.8 | 28/1002 | 0.8 | | |
| 137 CH.CT 2+30-24 | 18 21/5/2020 | 0935 | RAIN | 0 | 0 | 0 | 22.3 | 26/1005 | 31 | | |
| | 21/5/2020 | 1435 | RAIN | 0 | 0 | 0 | 22.9 | 28/ 002 | 7,\ | | |
| 137 Pitc & 900 | | 0945 | RAIN | 0 | G | 0 | 20.9 | 26/1005 | 2,5 | | |
| | 21/5/2020 | 445 | RAIN | ç | Q | 0 | 20.9 | 28/1002 | 3.5 | | |
| 137 RH B | 21/5/2020 | 1000 | KAIN | 0 | 0 | 0 | 20.3 | 26/1005 | | | |
| | 21/5/2020 | 1500 | RAIN | 0 | 0 | c | 20.3 | 23/1002 | 1. | | |
| CHA 6+2026+X | 3 21/2/2020 | 1015 | KAIN | 0 | 0 | 0 | 202 | 26/1005 | <u>3-</u> S | | |
| | 21/3/2020 | 515 | RAIN | 0 | 0 | Q | 22.4 | 28/1002 | 5.5 | | |

Name & Designation Signature <u>Date</u> 21-5-2020

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|---|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHA 12+30 | 21/5/2020 | 1020 | RAIN | 0 | 0 | 0 | 20.3 | 26/1005 | 1.2 |
| | 21/3/2020 | 1520 | IZAIN | 0 | 0 | 0 | 22.9 | 28/1002 | 1.2 |
| PitB | 21/5/2020 | 1030 | RAIN | 0 . | J J | 0 | 20.9 | 26/1005 | 6 |
| | 21/5/2020 | 1230 | KAIN | c | 0 | 0 | 20.9 | 28/1002 | 6 |
| MWT2 | 21/5/2020 | 1110 | RAIN | 0 | 0 | 0 | 20.9 | 26/ 1005 | 0.6 |
| | 21/×/2020 | 1610 | RAIN | 0 | 0 | 0 | 20.9 | 28/1002 | 0.6 |
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 Name & Designation
 Signature
 Date

 Field Operator:
 Eric Man (Sub-Agent [RenoPipe])
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 Laboratory Staff:
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Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date cf measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 22-2-2020 | 0847 | RAIN | 0 | Ŷ | 0 | 20.9 | 27/1003 | 2.0 | |
| | 22-3-2020 | | RAIN | 0 | c | C | 20.9 | 27/1003 | 2.0 | |
| | 22-2-2020 | 1645 | RAIN | 0 | 0 | C | 20.9 | 27/ 1002 | 2.0 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RencPipe])

Field Operator:

Date

12-5-2020 ec_

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (*C) / Pressure (mbar) | Remark Depth (m) | |
| CHIFC 4+50 | 22/5/2020 | 0855 | RAIN | 0 | 0 | Ð | 20.9 | 27/1013 | 2 X | |
| | 22/5/2028 | 1355 | ZAIN | 0 | 0 | 0 | 20.9 | 27/1003 | 2.5 | |
| CHFC 0790 | 22/5/2020 | 0900 | RAIN | 0 | 0 | 0 | 20.9 | 2-1/1003 | 2.5 | |
| | 2/5/2020 | 1400 | ZAN | 0 | 0 | 0 | 20.9 | 27/1003 | Z.X | |
| Pitc | 22/5/2020 | 0915 | RAN | 0 | 0 | 0 | 203 | 28/1003 | 0.8 | |
| | 22/5/2020 | 1415 | KAN | 0 | 0 | 0 | 20.9 | 27/ 1003 | 0.3 | |
| 137 CH, CT 2+30+2+ | 15 22/5/2020 | 0935 | RAIN | C | ۵ | 0 | 20.9 | 28/1007 | 3.1 | |
| | 22/5/2020 | 1435 | RAIN | 0 | C | 0 | 20.9 | 27/ 1007 | 3.1 | |
| 137 Pitc 1 900 | 22/5/2020 | 0945 | KHIN | 0 | с | 0 | 20.9 | 28/1003 | ζ.ÿ | |
| | 22/5/2020 | 447 | RAN | 0 | 0 | 0 | 20.9 | 21/ 1003 | 3.5 | |
| 137 PH B | 22/5/2020 | 000 | Ka:N | 0 | 0 | .0 | 20.9 | 27/1033 | 1 | |
| | 22/5/2020 | 1500 | RAND | 0 | 0 | 0 | 20.9 | 27/ 1002 | 1 | |
| CHA6+2026+> | 3 22/3/2020 | 1015 | RNN | 0 | ŝ | 0 | 20.9 | 27/1003 | 3.5 | |
| | 22/3/2020 | 1515 | KAIN | 0 | 0 | 0 | 20.9 | 21/1002 | 3.5 | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

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Field Operator:

<u>ture Date</u> 22-3-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|---|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 22/5/2020 | 1020 | RAIN | 0 | 0 | 0 | 20.8 | 27/ 1003 | 1,2 | |
| | 22/3/2020 | 1520 | KAIN | 0 | 0 | 0 | 2.9 | 27/ 10:2 | 1.2 | |
| Pit B | 22/5/2020 | 1030 | RAIN | C . | 0 | 0 | 20.9 | 27/ 1003 | 6 | |
| | 22/5/2020 | 1330 | RAIN | 0 | 0 | 0 | 20.9 | 27/1002 | 6 | |
| MWT2 | 22/2/2020 | 1110 | RAIN | 0 | 0 | 0 | 209 | 21/1002 | 0.6 | |
| | 22/5/2023 | 1610 | RAIN | <u>ک</u> | 0 | 0 | 209 | 27/1002 | 0.b | |
| | | | | | | | | / | | |
| | | | | | | | | /////////////////////////////////////// | | |

Name & Designation Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Signature</u>

<u>Date</u> 22-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | ling Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|--|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Tcmp (°C) / Pressure (mbar) | Remark Depth (m) | |
| ATRA B | 23-5-2020 | 0845 | RAIN | 0 | 0 | 0 | 20.9 | 25/1007 | 2.0 | |
| | 23-5-2020 | | RAIN | 0 | 0 | 0 | 20.3 | 25/1007 | 2,0 | |
| | 23-5-2020 | 1645 | RAIN | 0 | 0 | 0 | 20.9 | 25/100× | 2,0 | |
| | | | | | | | | | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date

25-5-2020

13

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOLUCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT



 Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|--------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 24/5/2020 | 0855 | RAIN | 0 | 0 | 0 | 20A | 25/1007 | 2.X | |
| | 13/5/2010 | 1355 | PAIN | Û | 0 | 0 | 209 | 24/1007 | 2.5 | |
| CHEC 0+90 | 23/5/2020 | 0900 | RAIN | 0 | 0 | 0 | 209 | 25/1007 | 2.5 | |
| | 23/8/2020 | 1400 | RAIN | 0 | 0 | 0 | 20.9 | : 24/1007 | 2.5 | |
| Pitc | 23/5/2020 | 0915 | RAIN | 0 | 0 | 0 | 20.9 | 25/1001 | 0.8 | |
| | 23/5/2020 | 1415 | ZAIN | 0 | 0 | 0 | 20.9 | 25/1007 | 0.8 | |
| 137 CH.CT 2+30-146 | 5 23/5/2020 | 0935 | RAIN | C | 0 | 0 | 20.9 | 25/1007 | 3.1 | |
| | 23/5/2020 | 1435 | RAIN | 6 | с | 0 | 20.9 | 25/1002 | 3.1 | |
| 137 Pitcs 900 | 23/5/2020 | 0945 | RAIN | 0 | С | 0 | 20.9 | 25/ 007 | <u> </u> | |
| | 23/5/2020 | 495 | RAIN | o | 0 | 0 | 20.9 | 25/1006 | 3.5 | |
| 137 PH B | 23/5/2020 | 1000 | FAIN | 0 | D | 0 | Zo.9 | 25/1007 | <u> </u> | |
| | 23/5/2020 | 500 | K-Ann | 0 | c | 0 | 20.9 | 25/ 1006 | 1 | |
| CHA 6+20-6+33 | 27/5/2020 | 1015 | RAIN | 0 | · 0 | P | 20.9 | 25/1007 | 25 | |
| | 27/3/2020 | 1515 | ZAN | 0 | 0 | Q | ۲ <u>م</u> Z | 25/1006 | 3.5 | |

 Name & Designation
 Signature
 Date

 Field Operator:
 Eric Man (Sub-Agent [RenoPipe])
 23-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHA 12+30 | 23/5/2020 | 1020 | FRIN | 0 | 0 | 0 | 20.9 | 28/ 1007 | 1.2 | |
| | 23/3/2020 | \$20 | RAN | 0 | 0 | 0 | 20.9 | 25/ 1006 | 1.2 | |
| Pit B | 23/5/2020 | 1030 | RAIN | D · | 0 | 0 | 20.9 | 25/ 007 | <u> </u> | |
| | 23/5/2020 | 1530 | RAIN | 0 | 0 | 0 | 20.9 | 25/1006 | 6 | |
| MWT2 | 23/5/2020 | 1110 | RAIN | 0 | 0 | C | 20.9 | 25/1007 | 0.6 | |
| | 23/5/2020 | 1610 | RAIN | 0 | 0 | 0 | 20.9 | 25/ 1006 | 0.6 | |
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Signature

Name & Designation

Field Operator:

Eric Man (Sub-Agent [RenoPipe])

<u>Date</u> 23 - 5 - 2020

ou operator.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|---------------------------------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| Area B | 25-5-2020 | 0845 | FINE | Û | 0 | 0 | 20.9 | 27/ 1012 | 2.0 | |
| | 25-5-2020 | | FING | 0 | , 0 | C | 20.9 | 24/ 1010 | 2.0 | |
| | 25-x-2020 | 1645 | | 9 | 0 | 6 | 20.9 | 27/ 100% | 2.0 | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

25-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



.

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 28/5/2020 | 0855 | FINE | 0 | 0 | 0 | 229 | 27/1010 | 2.5 | |
| | 28/5/2020 | 1355 | FINE | 0 | 0 | 0 | 20.9 | 25/10:0 | 2.5 | |
| CHFC 0790 | 25/5/2020 | 00100 | FINE | 0 | 0 | 0 | 20.9 | 27/1010 | 2.5 | |
| | 25/5/2020 | 1400 | FINE | 0 | 0 | 0 | 2.9.9 | 25/1009 | 2.5 | |
| Pitc | 25/5/2020 | 0915 | FINE | 0 | 0 | ¢ | 20.9 | 27/1010 | 0.8 | |
| | 25/5/2020 | 1415 | FINE | 0 | 0 | 0 | 20.9 | 25/1009 | 0.S | |
| 137 CH.CT 2+504+ | 6 25/5/2020 | 0935 | FINE | Û | С | 0 | 203 | 27/1010 | 3.1 | |
| | 25/5/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 25/1004 | 3.1 | |
| 137 Pitc & 900 | 25/5/2020 | 0945 | FINE | 0 | c | C | 20.8 | 27/1010 | 3,5 | |
| | 25/5/2020 | 1495 | FINE | 0 | ρ | o | 22.9 | 25/1007 | 3.5 | |
| 137 PH B | 25/5/2020 | 1000 | FINE | ¢ | D | C | 20.9 | 27/1010 | <u> </u> | |
| | 25/5/2020 | 1500 | FINE | 0 | 0 | 0 | 20.9 | 25/1009 | ۱ | |
| CHA6+2006+X | | 1015 | FINE | 0 | 0 | 0 | 20.9 | 27/1010 | 3.5 | |
| | 25/3/2020 | 1515 | FINE | 0 | 0 | 0 | 20.9 | 25/ 1009 | 3.5 | |

 Name & Designation
 Signature
 Date

 Field Operator:
 Eric Man (Sub-Agent [RenoPipe])
 2x-3-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|---|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHA 12+30 | 28/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 27/1010 | .2 | | |
| | 28/3/2020 | \$20 | FINE | 0 | D | 0 | 20.4 | 26/1009 | 1.L | | |
| Pit B | 25/5/2020 | 1030 | FINE | 0. | 0 | 2 | 20.9 | 27/1010 | 6 | | |
| | 25/5/2020 | 1330 | FINE | 0 | 0 | 0 | 20.9 | 27/1008 | 6 | | |
| MWTZ | 25/5/2020 | 1110 | FINE | Q | Ø | Ø | 20.3 | 26 / 1010 | 0.6 | | |
| | 25/2/2020 | 1610 | F1NE | . 8 | c | 0 | 20-7 | 27/100% | 0.6 | | |
| | | 1 | | | | | 1 • • • • • • • • • • • • • • • • • • • | / | | | |
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Name & Designation

Field Operator:

<u>Signature</u> Date 25-5-2020

Eric Man (Sub-Agent [RenoPipe]) At

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPAREMENT

| Sample location | Datc of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Aug A | 26-5-2010 | 0230 | FINE | 0 | 0 | 0 | 20.9 | 27/1008 | 3.0 |
| -,, | 26-5-2020 | 1330 | FINE | 0 | 0 | 0 | 20.9 | 29/1007 | 3.0 |
| | 26-3-2020 | | FING | 0 | 0 | 0 | 20.9 | 28/1001 | 3.0 |
| Area B | 26-3-2020 | | FING | 0 | Û | 0 | 20.4 | 27/1008 | 2.0 |
| | 26-5-200 | 1345 | FINE | 0 | C | C | 20.4 | 30/1007 | 2.0 |
| | 26-3-2020 | 1645 | FING | D | 0 | 0 | 20.9 | 28/ 1006 | 2.0 |
| | | | | | - | | | l l, | |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u> Signature

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26-2-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 26/5/2020 | 0855 | FINE | 0 | C C | 0 | 20.9 | 28/1008 | 2.5 |
| | 26/5/2020 | 1355 | FINE | 0 | 0 | 0 | 20.3 | 29/1007 | 2.5 |
| CHEC 0+90 | 26/5/2020 | 0400 | FING | 0 | 0 | C C | 20.9 | 23/1008 | 2.5 |
| | 26/5/2020 | 1400 | 크네그 | U | 0 | c | Zaß | 29/1007 | 25 |
| Pitc | 26/5/2020 | 0915 | FINE | 0 | 0 | 0 | 20.9 | 29/1008 | ગ.પુ |
| | 26/5/2020 | 1415 | FINE | 0 | . 0 | ٥ | 2.0,3 | 29/1006 | 0.2 |
| 137 CH.CT 2+30net | \$ 21/5/2020 | 0935 | FINE | 0 | i G | 0 | 20.9 | 29/1008 | 3.1 |
| | 26/5/2020 | 1435 | FINE | 0 | 0 | 0 | 20.9 | 29/100 | 3.1 |
| 137 Pitc & 900 | 26/5/2020 | 0945 | FINE | . 0 | C | Q | 20.5 | 21/1008 | 3.5 |
| | 26/5/2020 | 445 | FINE | : 0 | 0 | 0 | 20.9 | 28/1008 | 3.5 |
| 137 BH B | 26/5/2020 | 0001 | FINE | 0 | C | 0 | 204 | 29/1008 | 1 |
| | 26/5/2020 | 1500 | FINE | 0 | 0 | 0 | 22.9 | 28/1006 | (|
| CHA6+20-6+> | \$ 26/×/2020 | 1015 | FINE | 0 | s | 0 | 29.9 | 29/1008 | 3.5 |
| | 26/3/2020 | 1212 | PINE | 0 | 0 | 0 | 29.9 | 28/1006 | 3.5 |

 Name & Designation
 Signature
 Date

 Field Operator:
 Eric Man (Sub-Agent [RenoPipe])
 Zb - Y - 2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE 11) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | |
| CHA 12+30 | 26/5/2020 | 1020 | FING | 0 | 0 | 0 | 20.9 | 29/1028 | 1.2 | |
| | 26/5/2020 | 1520 | FINE | 0 | 0 | Э | 2-0.2 | 28/1006 | 1.2 | |
| Pit B | 26/5/2020 | 1030 | FINE | 0. | 0 | 0 | 229 | 29/1008 | 6 | |
| | 26/5/2020 | 1530 | FINE | 0 | 0 | 0 | 20.9 | 22/ 1006 | 6 | |
| MWT 2 | 26/3/2020 | 1110 | FINE | 0 | 0 | 0 | 20.9 | 24/1005 | 0-6 | |
| | 2-6/3/2020 | 1610 | FINE | 0 | C | ə | 20-9 | 28/ (006 | o. 6 | |
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Name & Designation Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature

<u>Date</u> 26-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



| Name of site: | 13/WSD/16 - Mainlaying in Tseung Kwan O |
|----------------------|---|
| Date of measurement: | |

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wel's / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|---------------------------------------|------------|--------------------------------|---------------------------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area A | 21-1-2020 | 0230 | FINE | C | C | 0 | 20.9 | 28/1004 | 3.0 |
| | 27-2-200 | 1730 | FINE | C | ć | <u>ò</u> | 20.9 | 29/1008 | 3.0 |
| | 21-5-2020 | 1700 | FINE | 0 | 0 | a | 20.9 | 24/1007 | 3.0 |
| ATON B | 27-2-220 | 0895 | FINZ | 0 | C | ð | 20.9 | 28/1004 | 2.5 |
| | 27-5-2020 | 1345 | FING | C | 0 | 0 | 20.9 | 29/1008 | 2.0 |
| | 27-5-2020 | 1645 | FING | 0 | 3 | 0 | 20.9 | 24/ 1007 | 2.0 |
| | | | | | | | | // | |
| | - | | | | | • • • • • • • • • • • • • • • • • • • | | 4 | · · · · · · · · · · · · · · · · · · · |
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Name & Designation

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Signature <u>Date</u>

Mr_

27-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|----------------------|---|---------------------------------|-----------------------|------------|---------------------------------|----------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (inbar) | | | |
| CHFC 4+50 | 27/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.3 | 29/1029 | 2.5 | | |
| | 27/5/2020 | 1355 | FINE | 0 | 0 | ; 0 | 20.9 | 29/1008 | 2.5 | | |
| CHFC 0+90 | 21/5/2020 | 00100 | FINE | 0 | 5 0 | 0 | 20.9 | 29/1009 | 2.5 | | |
| | 21/5/2020 | 1400 | FINE | 0 | 0 | 0 | 20.3 | 29/1038 | 2.5 | | |
| Pitc | 27/5/2020 | 0915 | FINE | : 0 | 0 | 0 | 20.9 | 29/1009 | 0.8 | | |
| | 27/5/2020 | 1415 | FINE | . 0 | 0 | 0 | 20.3 | 29/1007 | 0.§ | | |
| 137 CH.CT 24304 | 6 27/5/2020 | 0435 | FINE | 0 | Q | 0 | 20.9 | 29/1009 | 3.1 | | |
| | 27/5/2020 | 1435 | FINE | 0 | Û | 0 | 20.3 | 29/1007 | -3,1 | | |
| 137 Pitc 1, 900 | 21/5/2020 | 0945 | HNE | 0 | 0 | 0 | 20.9 | 29/1009 | Z,S | | |
| | 27/5/2020 | 1495 | FINE | 0 | 0 | Q | 20.9 | 29/1007 | 35 | | |
| 137 PH B | 21/5/2020 | 1000 | FINE | 0 | 0 | 0 | 20.9 | 30/1009 | <u> </u> | | |
| | 21/5/2020 | 1500 | FINE | c | 0 | 0 | 72.9 | 29/ 1007 | 1 | | |
| CHA6+20-6+> | 3 27/ 5/2020 | 1015 | FINE | G | 0 | 3 | 29.3 | 30/1001 | 3.5 | | |
| | 21/3/2020 | 1212 | FINE | 0 | 0 | 0 | 20-9 | 29/1007 | 7.5 | | |

Name & Designation Signature Date Eric Man (Sub-Agent [RenoPipe]) 27-5-2020

Field Operator: Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|---------------------------------------|--------------------------------|------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | | |
| CHA 12-+30 | 27/5/2020 | 1020 | FINE | 0 | 0 | 0 | 209 | 30/1004 | 1.2 | |
| | 21/5/2020 | 1520 | FINE | 0 | 0 | 0 | 229 | 29/1007 | 1.2 | |
| Pit B | 27/5/2020 | 1030 | FINE | C . | 0 | 0 | 20.3 | 30/1009 | 6 | |
| | 27/5/2020 | 1530 | FINE | C | 0 | 0 | 20.9 | 29/1007 | 6 | |
| MWT2 | 27/5/2020 | 1110 | FINE | 0 | 0 | 0 | 209 | 29/1004 | 0.b | |
| | 27/5/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 24/1007 | <u>C.6</u> | |
| | | | | | | | | | | |
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Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

27-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

| Dates calibrated |
|------------------|
| 29 Aug 2019 |
| |
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ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample Date of Sampling location measurement time | 1 | 1 | Monitoring wells / Surface Gas Emission | | | | | | | |
|--|-----------|----------------------|---|---------------------------------|-----------------------|------------|--------------------------------|---------------------|-----|--|
| | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| Atea A | 23-5-2020 | 0870 | FINE | 0 | 0 | 0 | 20.9 | 27/1010 | 3.0 | |
| | 28-5-2020 | 1330 | FING | e | Ç | 0 | 20.9 | 29/ 1010 | 3.0 | |
| | 23-5-2020 | 1700 | PINE | Q | Q | 0 | 20.9 | 23/1009 | 3.0 | |
| Area B | 28-5-200 | 0845 | FING | 0 | 0 | 0. | 20.9 | 27/ 1010 | 2.0 | |
| | 28-5-2025 | 1345 | FINE | 3 | ۵ | 0 | 20.9 | 28/1010 | 2.0 | |
| | 21-5-202 | 1645 | FINE | 2 | 0 | 0 | 20.9 | 28/1009 | 2.0 | |
| | | | | | | | | /, | | |
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| | | | | | | | | | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

28-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHFC 4+50 | 23/5/2020 | 0855 | FING | 0 | 0 | 0 | 229 | 28/1010 | 2.5 |
| | 28/5/2010 | 1355 | FINE | 0 | 3 | 0 | 20.9 | 2/ 10/0 | 2.5 |
| (HFC 0+90 | 28/5/2020 | 00100 | FINE | 0 | 0 | 0 | 20.3 | 28/1010 | 2.5 |
| | 28/5/2020 | 1400 | FINE | 0 | 0 | 0 | 2.2.2 | 28/1010 | 2.5 |
| Pitc | 28/5/2020 | 09:5 | FINE | 0 | 0 | 0 | 20.9 | 23/100 | 0.8 |
| | 25/5/2020 | 1415 | TINE | 0 | 0 | 0 | 20.9 | 29/ 009 | 0.§ |
| 137 CH.CT 2+30-136 | 6 28 /5/2020 | 0935 | FINE | 0 | ¢ | 0 | 20.3 | 28/1211 | 3.1 |
| | 28/5/2020 | 1435 | FINE | 0 | 0 | ç | 29.9 | 29/1009 | 3.1 |
| 137 Pitc & 900 | 28/5/2020 | 0945 | FINE | 0 | 0 | 0 | 20.9 | 28/1011 | 35 |
| | 28/5/2000 | 1445 | FINE | 0 | 9 | D | 20.9 | 29/1009 | 3.5 |
| 137 RH B | 28/5/2020 | 1000 | FINE | 0 | 0 | 0 | 22.9 | 28/1011 | <u> </u> |
| | 28/5/2020 | 1500 | FINE | 0 | D | 0 | 22.9 | 23/ 1009 | 1 |
| CHA 6+20-6+33 | 28/3/2020 | 1015 | FINE | 0 | C | 0 | 29.9 | 28/10/1 | 3.5 |
| | 28/3/2020 | 1515 | FINE | C | 0 | 0 | 20.9 | 28/1009 | 3.5 |

 Name & Designation
 Signature
 Date

 Field Operator:
 Eric Mar. (Sub-Agent [RenoPipe])
 28 - 3 - 2.020

 Laboratory Staff:

Checked by:

BNVIRONMENTAL RESCURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|-----|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | 1 | |
| CHA 12+30 | 23/5/2020 | 1020 | FINE | 0 | 0 | 0 | 20.9 | 28/1011 | (,2 | |
| | 28/3/2020 | 1520 | FINE | 0 | 0 | 0 | 20.9 | 28/10:9 | 1.2 | |
| Pit B | 23/5/2020 | 1030 | Five | 0. | 2 | 0 | 20.9 | 28/1011 | 6 | |
| | 23/5/2020 | 1230 | FINE | 3 | 0 | 0 | 20.9 | 28/ 1009 | 6 | |
| MWT2 | 28/2/2020 | 1110 | ર્ગ છે | .Q | C | 0 | 20.9 | 23/1011 | 0.6 | |
| | 28/×/2020 | 1610 | FINE | 0 | 0 | e | 20.9 | 23/ (009 | 0.6 | |
| | | | | | | | | 1 | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | 1 | | |
| | | | | | | | | // | | |

Name & Designation

Field Operator:

Date Signature

Eric Man (Sub-Agent [RenoPipe])

28-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited



Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| * | Date of measurement | Sampling time | | | Monitoring w | vells / Surface G | as Emission | | |
|----------|---------------------|------------------|----------------------|--------------------|---------------------------------|-----------------------|-------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Area A | 2-9-5-2020 | 0830 | FINE | 0 | 0 | 0 | 20.9 | 26/1010 | 3.0 |
| | 29-5-212 | 1330 | FINE | Û | 0 | 0 | 20.3 | 29/1009 | 3.0 |
| | 29-5-2020 | | FINE | 0 | 0 | 0 | 20.9 | 28/1000 | 3.0 |
| AFRA B | 29-5-2020 | | FINE | 0 | 0 | 0 | 20.9 | 27/1011 | 2.0 |
| | 23-5-2020 | 1345 | FINE | N N | 0 | ŷ | 2.9. 3 | 29/1099 | 2.0 |
| | 29-5-2020 | 1845 | FINE | <u>с</u> | 0 | Q | 20.9 | 28/ 1008 | 2.0 |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | | |
| | | | | | | | | 1 | |
| | | 1 | | | | | | 1 | |

Name & Designation <u>Signature</u>

Field Operator:

<u>Date</u>

13

Eric Man (Sub-Agent [RenoPipe])

29-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (*C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 29/5/2020 | 0855 | FINE | 0 | 0 | 0 | 20.9 | 27/1011 | 2.5 | |
| | 24/5/2020 | 1355 | ANE | 0 | 0 | 0 | 20.9 | 29/ 1009 | 2.5 | |
| CHFC 0+90 | 29/5/2020 | 0960 | FINE | 0 | 0 | 0 | 20.9 | 27/1011 | 2.5 | |
| | 26/5/2020 | 1400 | FINE | 0 | Ç. | 0 | 229 | 29/ 009 | 2.5 | |
| Pitc | 29/5/2020 | 0915 | TINE | 0 | 0 | 0 | 20.9 | 27/1011 | 0.8 | |
| | 29/5/2020 | 1415 | FINE | 0 | 0 | 2 | 20 9 | 29/ 009 | 0.8 | |
| 137 CH.CT 2+304+ | 6 28/5/2020 | 0935 | FINE | 0 | 0 | 0 | Z0-5 | 28/1011 | 3.1 | |
| | 29/5/2020 | 1435 | FINE | D | S | C | 20.9 | 29/1009 | 3.1 | |
| 137 Pitc 1 900 | 24/5/2020 | 0945 | FINE | 0 | 0 | Q | 20.9 | 1 28/10/1 | 2.8 | |
| | 29/5/2020 | 1495 | FINE | 0 | 0 | 0 | 2.02 | 29/1008 | 3.5 | |
| 137 PH B | 29/5/2020 | 1000 | HNZ. | 0 | 0 | 0 | Z. 9. | 23 / 10! | 1 | |
| | 29/5/2020 | 1500 | FINE | 0 | 0 | Q. | 20,9 | 29/1008 | <u> </u> | |
| CHA6+2026+> | 3 29/3/2020 | 1015 | FINE |)) | 0 | 0 | 20,9 | 28/1011 | 3.8 | |
| | 29/3/2020 | 1212 | FINE | 0 | 0 | 0 | 20.9 | 29/1008 | 3.5 | |

 Name & Designation
 Signature
 Date

 Eric Man (Sub-Agent [RenoPipe])
 24 - 3 - 2020

Field Operator:

Laboratory Staff:

Checked by:

Environmental Resources Management



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | | | | | | e Gas Emission | | | |
|--------------------|---------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | | |
| CHA 12+30 | 29/5/2020 | 1020 | FINE. | 0 | 0 | 0 | 2.0.9 | 29/1011 | 1,2 | | |
| | 29/3/2020 | 1520 | FINE | 0 | 2 | 0 | 20.9 | 28/1008 | 1.2 | | |
| Pit B | 29/5/2020 | 1030 | FINE | ð. | 0 | 0 | 20.8 | 24/1011 | b | | |
| | 29/5/2020 | 1530 | FINE | 0 | 0 | 0 | 20.9 | 28/1008 | 6 | | |
| MWT2 | 29/3/2020 | 1110 | FINE | G | 0 | đ | 20.9 | 29/1010 | 0.6 | | |
| | 24/5/2020 | 1610 | FINE | 0 | 0 | 0 | 20.9 | 28/1008 | 0-6 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 1 | | | | | | | |
| | | | + · · · · · · · · · · · · · · · · · · · | | | | | / | | | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

<u>Date</u>

29-5-2020

Laboratory Staff:

Checked by:

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Ara G | 30-5-2020 | 0830 | Rain | C | 0 | 0 | 20.2 | 25/1011 | 3.0 |
| | 30-5-2020 | 1330 | Rein | 0 | 0 | 0 | 22.5 | 24/1011 | 3.0 |
| | 30-5-2020 | 1702 | Rain | 0 | 0 | 0 | 20.9 | 26/ 1010 | 3.0 |
| ALEA B | 30-2-2020 | ાર્ટ્યત્ર | Rain | 0 | ٥ | 0 | 20.9 | 24/ 1012 | 2.0 |
| | 30-5-2020 | | Rain | 0 | 0 | 0 | 2.0.9 | 24/ 1011 | 2.0 |
| | 20-2-2020 | 1645 | Rain | 0 | 0 | 0 | 20.9 | 26/ 1010 | 2.0 |
| • | | | - | | | | | 1 | |
| | | | | | | | | / | |
| | | | j | | | | | / | |
| | | | | | | | | 1 | |
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| | | | | | | | | / | |

Name & Designation Signature

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

Date

30-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



.....

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

ENVIRONMENTAL PROTECTION DEPARTMENT

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|--------------------------------|---------------------|--|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) | |
| CHFC 4+50 | 4/5/2020 | 0822 | Rain | 0 | Ð | ŵ | 20.9 | 24/1012 | 2.5 | |
| | 20/5/2019 | 1355 | Lain | 0 | c | 0 | 2.0.9 | 25/1011 | 2.5 | |
| CHFC 0+90 | 30/5/2020 | 0900 | Bain | 0 | 0 | 0 | 20.9 | 24/1012 | 2.5 | |
| | 30/5/2020 | 1400 | Rain | 0 | 0 | 0 | 20.9 | 2X/ 1011 | 2.5 | |
| Pitc | 30/5/2020 | DGIY | Rain | 0 | C | ٥ | 20.9 | 24/1012 | 0.3 | |
| | 30/5/2020 | 1415 | Rain | 0 | 0 | 0 | 20,9 | 28/ 1010 | 0.8 | |
| 137 CH.CT 2+3002+1 | | 0935 | Rain | G | 0 | 0 | 7.0.5 | 24/1012 | 3.1 | |
| | 30/5/2020 | 1435 | Rain | 0 | 0 | 0 | 20.9 | 25/1010 | 3.1 | |
| 137 PHC & 900 | 30/5/2020 | 0945 | Rain | 0 | Q | 0 | 29.9 | 24/102 | 3.5 | |
| | 30/5/2020 | 1495 | Raig | O | 0 | 0 | 20.9 | 25/1010 | 3.5 | |
| 137 PH B | 30/5/2020 | (000 | Rain | 0 | 0 | 0 | 20.9 | 24/102 | 1 | |
| | 30/5/2020 | 1500 | Rain | D | 0 | C | 20.9 | 27/1010 | 1 | |
| CHA6+20~6+33 | 30/3/2020 | 1015 | Rain | 9 | 0 | C | 20.9 | 24/1012 | 3.5 | |
| | 30/5/2020 | 1515 | Rain | 0 | 0 | °. | 2.2.9 | 25/1010 | 3-5 | |

Name & Designation Signature Date

Eric Man (Sub-Agent [RenoPipe])

Field Operator:

operator.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

| Sampling equipment used: | Dates calibrated |
|--------------------------|------------------|
| PGM-2400P (QRAE II) | 29 Aug 2019 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|--------------------|------------------------|------------------|---|--------------------|---------------------------------|-----------------------|------------|---|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| CHA 12-+30 | 30/5/2020 | 1020 | Rain | 0 | 0 | 0 | 20.9 | 24/1012 | 1,2 |
| | 30/5/2020 | 1520 | Rain | 0 | 0 | 0 | 20.9 | 25/ 1010 | 1.1 |
| PitB | 30/5/2020 | 1030 | Rain | 0 | 0 | 0 | 20.9 | 24/ 1012 | 6 |
| | 30 15/2020 | 530 | Rain | 0 | 0 | 0 | 20.9 | 25/ 1010 | 6 |
| MUTZ | 30/5/2020 | 1110 | Rain | ŋ | 0 | 0 | 20.3 | 24/1012 | 0.6 |
| | 30/8/2020 | 1610 | Rain | 0 | 0 | 0 | 20.9 | 25/ 1010 | 0.6 |
| | | | | | | | | 1 | |
| | | | | | | | | /////////////////////////////////////// | |
| | | | | | | | | | |
| | 1 | | | | | | | 1 | |

Name & Designation

Eric Man (Sub-Agent [RenoFipe])

Signature Date

Field Operator:

30-5-2020

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Acuity Sustainability Consulting Limited

ENVIRONMENTAL PROTECTION DEPARTMENT



Appendix K

Complaint Log and Regulatory Compliance Proforma



Statistical Summary of Environmental Complaints

| Reporting Period | Environmental Complaint Statistics | | | | | | |
|------------------------------|---------------------------------------|---|-----|--|--|--|--|
| | Frequency Cumulative Complaint Nature | | | | | | |
| 01 May 2020 - 31 May 2020 | 0 | 0 | N/A | | | | |

Statistical Summary of Environmental Summons

| Reporting Period | Environmental Summons Statistics | | | | | |
|------------------------------|----------------------------------|------------|---------|--|--|--|
| | Frequency | Cumulative | Details | | | |
| 01 May 2020 - 31 May 2020 | 0 | 0 | N/A | | | |

Statistical Summary of Environmental Prosecution

| Reporting Period | Environmental Prosecution Statistics | | | | | | |
|------------------------------|--------------------------------------|---|-----|--|--|--|--|
| | Frequency Cumulative Details | | | | | | |
| 01 May 2020 - 31 May 2020 | 0 | 0 | N/A | | | | |



Appendix L

Site Inspection Proforma



| | | bility Consulting Limited 305 Castle Peak Road, Kwai Chung, N.T. ral@acuityhk.com www.acuityhk.com | | | | | | |
|--------|--|--|--|--|--|--|--|--|
| | Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O | | | | | | | |
| | WEEKLY ENVIRONMENTAL INSPECTION | N CHECKLIST | | | | | | |
| | on Date: 08/05/2020 Inspected by: ET: Chaune L on Time: 99: 30 ~ 11:20 Contractor Sam Ng. | us wsb Isang kai far IEC NA | | | | | | |
| Weathe | | Storm | | | | | | |
| Tempe | | | | | | | | |
| Wind | rature Humidity right High Moderat | t.ow | | | | | | |
| wind | Z Latim Light Breeze Strong | | | | | | | |
| | | N/A Yes No Photo/Remarks | | | | | | |
| | General Is the current Environmental Permit displayed conspicuously at all vehicle site | 065 (I) | | | | | | |
| 0.02 | entrances/exits for public's information at any time? Is ET Leader's log-book kept readily available for inspections? | | | | | | | |
| 0.02 | is by Leader's log-book kept reacity available for hispections? | | | | | | | |
| 1.00 | Construction Dust | 1 A | | | | | | |
| 1.01 | Are dusty materials, such as excavated materials, building debris and construction | 1 dos | | | | | | |
| 1.02 | materials, and exposed earth surface properly covered to prevent dust emission? Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty | | | | | | | |
| | construction works for dust suppression? | | | | | | | |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | | | | | | | |
| | | | | | | | | |
| | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | | | | | | |
| | Is wheel-washing provided to all vehicles leaving the site? | | | | | | | |
| 1.06 | Are road section near the site exit free from dusty material? | | | | | | | |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | | | | | | | |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | | | | | | | |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and eaving the site? | | | | | | | |
| 1.10 | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet? | | | | | | | |
| 1.11 | is exposed earth properly treated within six months after the last construction activity on site? | | | | | | | |
| | Does the operation of plants on site free form dark smoke emission? | | | | | | | |

07/05

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| | Acuity Sustainal | oility Co | onsult | ing Li | nited |
|--------------|--|--------------|--------|--------|-------------------|
| | Acuity Unit 1908, Nos. 301-3 Sustanability O: 2333-6823 F: 2333-1316 E: gener | | | | |
| | Contract no. 13/WSD/16 Mainlaying in Ts | eung Kwa | n O | | |
| | | N/A | Yes | No | Photo/Remarks |
| .13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | 1 | | | |
| .14 | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides? | 1 | | | |
| .15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | | | | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | | | | |
| 1.17 | Is open burning prohibited? | | 1 | | |
| | Construction Noise (Airborne) Are quiet plants adopted on site? | | | | |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | 1 | | |
| 2.03 | Are plants throttled down or turned off when not in use? | | | | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | \checkmark | | | No rearry NSRI |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | | | | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | | | | - |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | | | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | | | | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | | | | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | | | | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | | | | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | | | | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted nours? | | | | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | | | | |
| 8.00 8.01 | Water Quality Is effluent discharge license obtained for wastewater discharge from site? | | | | |
| 3 02 | Is effluent discharged according to the effluent discharge license? | | 1 | | |
| 3.03 | Is wastewater discharge from site properly treated prior to discharge? | | 1 | | obs (5) |

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Acuity Sustainability Consulting Limited





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| Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O | | | | | | | | | |
|--|---|--------------|--------------|----|---------------|--|--|--|--|
| | | N/A | Yes | No | Photo/Remarks | | | | |
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | | \checkmark | | | | | | |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to | | | | | | | | |
| | remove sand/silt particles from runoff? | | V | | | | | | |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | ~ | 7 | | 3 | | | | |
| 3.07 | Is the drainage system properly maintained? | | | | | | | | |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | | V | | | | | | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | | | | | | | | |
| 3.10 | Are temporary access roads protected by crushed gravel? | | 1 | | | | | | |
| 3.11 | Are exposed slope surface properly protected? | | | | | | | | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, | | | | | | | | |
| | backfilled in short sections after excavation? | | 4 | | 13- | | | | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | | | | 3 13 | | | | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | | | | | | | | |
| 3.15 | Is oil leakage or spillage prevented? | | \checkmark | | 043(4)(2) | | | | |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | | | | | | | | |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | | 1 | | | | | | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | | | | 3- <u></u> | | | | |
| 3.19 | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal t_0^2 110% of the storage capacity of the largest tank? | \checkmark | | | | | | | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | | 1 | | | | | | |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | | | | | | | | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | | | | | | | | |
| | Is concrete washing water properly collected and treated prior to discharge? | | | | | | | | |
| 4.01 | Waste Management Is a trip-licket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | | 1 | | | | | | |

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| Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O N/A Yes A.02 Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? A.03 Is the Contractor registered as a chemical waste producer? | | No | Photo/Remarks |
|---|----------------|----|---------------|
| 4.02 Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? 4.03 Is the Contractor registered as a chemical waste producer? | | | |
| disposed of? L 4.03 Is the Contractor registered as a chemical waste producer? | | | |
| 4.03 Is the Contractor registered as a chemical waste producer? | | | |
| | | | |
| | 1 | | |
| 4.04 Are chemical waste separated from other waste and collected by a licensed chemical waste | 700 | | |
| collector? | | | |
| 4.05 Are trip tickets for chemical waste disposal available for inspection? | | | |
| 4.06 Is chemical waste reused and recycled on site as far as practicable? | | | |
| | J, L | | |
| 4.07 Are all containers for chemical waste properly labelled? | 1 | | |
| 4.08 Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | 1 | | |
| 4.09 Are incompatible chemical wastes stored in different areas? | 1 [| | |
| 4.10 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | 1 | | |
| 4.11 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | 2 [| | |
| 4.12 Are a routine cleaning and maintenance programme implemented for drainage systems, sump | / г | | |
| pits, and oil interceptors? | _ L | | |
| 4.13 Are sufficient general refuse disposal/collection points provided on site? | ่ | | |
| 4.14 Is general refuse disposed of properly and regularly? | | | |
| 4.15 Are appropriate measures adopted to minimize windblown litter and dust during transportation of vaste? | 7 | | |
| 4.16 Are individual collectors for aluminum cans, plastic bottles and packaging material and office | | | |
| paper provided to encourage waste segregation? | וונב | | |
| 4.17 Are C&D wastes sorted on site? | | | |
| 4.18 Are C&D waste disposed of properly? | 1 | | |
| 4.19 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | | | |
| 4.20 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | 1 | | |
| 4.21 Are the construction materials stored properly to minimize the potential for damage or contamination? | 2 | | 063 (3) |
| 4.22 Is a dumping license obtained to deliver public fill to public filling areas? | 1 | | |

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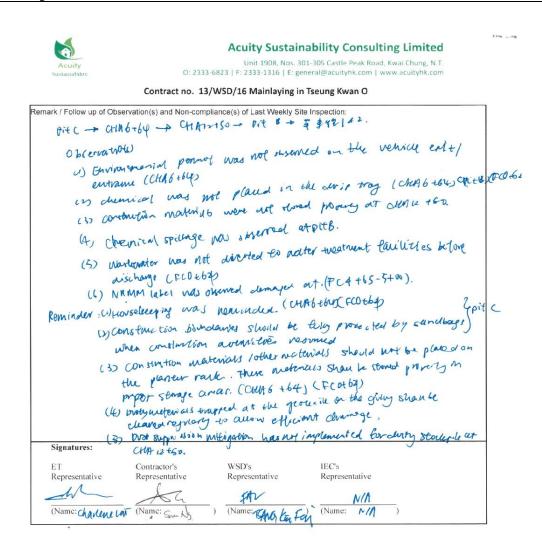
Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

| | | N/A | Yes | No | Photo/Remarks |
|------|---|--------------|--------------|----|---------------|
| 5.00 | Landscape and Visual | | | | |
| 5.01 | Are Is site hoarding provided? | \checkmark | | | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | 1 | | |
| 5.03 | Is construction light oriented away from the sensitive receivers? | | | | |
| 5.04 | Is grass hydroseeding provided to slopes as soon as the completion of works? | | | | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | • | | | |
| | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of | | | | |
| | any preserved trees? | | <u> </u> | | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | - | | |
| 5.08 | Are surgery works carried out for damaged trees? | | | | |
| 6.00 | Ecology | | | | |
| 6.01 | Is site runoff properly treated to prevent any silly runoff? | \Box | \checkmark | | |
| 6.02 | Are silt trap installed and well-maintained? | | | | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | | 1 | | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | | | | |
| 7.00 | Overall | | | | |
| 7.01 | Is the EM&A properly implemented in general? | | | | |

07105

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07/05

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| | Sustainability O: 2333-6823 F: 2333-1316 E: gener | |
|-----------|---|--------------------------|
| | Contract no. 13/WSD/16 Mainlaying in Ts | eung Kwan O |
| | WEEKLY ENVIRONMENTAL INSPECTION | CHECKLIST |
| Inspec | tion Date: 14/05/2020 Inspected by: ET. Charlene L | HT WSD Cik Chevry |
| Inspec | | IEC ALLA |
| Cond | | Storm Hazy |
| Temp | erature 27-C Humidity Visigh Moderat | |
| Wind | Calm Light Breeze Strong | |
| | | N/A Van Na Dhatarthan t |
| | | N/A Yes No Photo/Remarks |
| 0.00 | General Is the current Environmental Permit displayed conspicuously at all vehicle site | |
| | entrances/exits for public's information at any time? | |
| 0.02 | Is ET Leader's log-book kept readily available for inspections? | |
| 1.00 | Construction Dust | |
| Designed. | Are dusty materials, such as excavated materials, building debris and construction | 065 (3) |
| | materials, and exposed earth surface properly covered to prevent dust emission? | |
| 1.02 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | |
| | | |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | and the second second |
| - | said the ball of the second | |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | |
| 1.05 | Is wheel-washing provided to all vehicles leaving the site? | |
| 1.00 | is wheel-washing provided to all vehicles reaving the site? | |
| 1.06 | Are road section near the site exit free from dusty material? | |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust | D D panel. |
| 1.08 | emission during vehicle movement? | LI LY LI parea. |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and | Ma Madury to |
| 1.10 | leaving the site? Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of | |
| | boulders, poles, pillars sprayed with water to maintain the entire surface wet? | |
| 1.11 | Is exposed earth properly treated within six months after the last construction activity on | |
| 1.12 | site? Does the operation of plants on site free form dark smoke emission? | |
| | line and the second | |



| 13 Are vehicles travelling at speed not exceeding 15km/hr within the site? Are vehicles travelling at speed not exceeding 15km/hr within the site? Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Stock of more than 20 bags of cement or day PFA covered or sheltered on the shelt of the bags of cement carried out in sheltered in sheltered in the provided along the site boundary adjoining areas accessible by the public? Image: Stock of the public of the public? Image: Stock of the public of the | wai Chung, N.T. w.acultyhk.com No Photo/Remarks | | | |
|---|--|---------------------------------|--|----------|
| Duil 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N-T C: 2333-6823 [F: 2333-1316] [E: generat@acuitykh.com] COntract no. 13/WSD/16 Mainlaying in Tseung Kwan O NA Yes No PhotoRis NA Yes No 13 Are vehicles travelling at speed not exceeding 15km/hr within the site? NA Yes No 14 Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 Image: Covered or sheltered on top and 3 | wai Chung, N.T. w.acultyhk.com No Photo/Remarks | ility Consulting Limi | | |
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| 2.07 Are the hoods, cover panels and inspection hatches of PMEs closed during operation? 2.08 Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? 2.09 Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.12 Are valid noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted nours? 2.14 Are valid construction noise permit(s) applied for general construction works during restricted nours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? | | | le barriers provided to screen NSRs from plant or noisy operations? | 2.05 |
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| the site boundary? 2.09 Are noisy operation property scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.11 Are valid noise permit(s) applied for percussive piling work? 2.12 Are all construction noise permit(s) applied for general construction works during restricted nours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 is effluent discharge license obtained for wastewater discharge from site? 3.02 is effluent discharged according to the effluent discharge license? | | | ds, cover panels and inspection hatches of PMEs closed during operation? | 2.07 |
| 2.09 Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.12 Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted nours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 is effluent discharge license obtained for wastewater discharge from site? 3.02 is effluent discharged according to the effluent discharge license? | | | ly-built site hoarding construction with appropriate materials provided along | 2.08 |
| nearby sensitive receivers? | | | ndary? | |
| 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.12 Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted nours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 is effluent discharge license obtained for wastewater discharge from site? 3.02 is effluent discharged according to the effluent discharge license? | | | and the second | |
| 2.12 Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted hours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? |]]] | | | |
| 2.13 Are construction noise permit(s) applied for general construction works during restricted hours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? |] | | ise emission label(s) affixed to all air compressors operating on site? | 2.11 |
| hours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? |] | | truction noise permit(s) applied for percussive piling work? | 2.12 |
| 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? | | | tion noise permit(s) applied for general construction works during restricted | |
| 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? | | | nstruction noise permit(s) displayed at all vehicular exits? | - |
| 3.02 Is effluent discharged according to the effluent discharge license? | and the property of the second | | lity | 3.00 |
| | | | scharge license obtained for wastewater discharge from site? | 3.01 |
| | | | | |
| 3.03 Is wastewater discharge from site properly treated prior to discharge? | 1 | | scharged according to the effluent discharge license? | 3.02 |

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Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

| _ | Contract no. 13/WSD/16 Mainlaying in | N/A Yes No Photo/Remarks |
|--------|---|--------------------------|
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | A Dr. A. |
| | | |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt narrieles from any 00 | |
| | particles non runoff? | Sectionally family |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | |
| 3.07 | To the deal | |
| 5.07 | Is the drainage system properly maintained? | |
| 3.08 | Are construction under a cit | |
| 0.00 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | |
| 3.09 | and the second | |
| 0.00 | Are exposed soil surface protected by paving as soon as possible to reduce the potential o soil erosion? | |
| 2 10 | | |
| 0.10 | Are temporary access roads protected by crushed gravel? | |
| 3.11 | Are exposed slope surface properly protected? | |
| | and exposed stope surface property protected/ | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, | |
| | backfilled in short sections after excavation? | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric | |
| | during construction? | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | |
| | | |
| 3.15 | Is oil leakage or spillage prevented? | |
| - | and the second | Cobs (1) |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage | |
| | system? | |
| .17 | Are the oil interceptors/ grease traps properly maintained? | |
| | A CALL AND A | |
| | Are debris and rubbish generated on site collected, handled and disposed of properly to | |
| | void them entering the streams? | |
| | are all fuel tanks and storage areas provided with locks and be sited on sealed areas, | |
| | rithin bunds of capacity equal to 110% of the storage capacity of the largest tank? | |
| _ | re tanks, containers, storage area bunded and the locations locked as far as possible from | |
| | e sensitive watercourse and stormwater drains? | |
| | re sufficient chemical toilets provided on site to handle sewage from construction work | |
| | rce? re sewage disposal and toilet maintenance of the portable chemical toilets provided by | |
| | e licensed contractors? | |
| | concrete washing water properly collected and treated prior to discharge? | |
| 5 15 | concrete washing water property conceres and address prose to a second pro- | |
| o w | aste Management | |
| 1 Is a | a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public | |
| 611 | ing facilities and landfills? | |

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| | Acuity Unit 1908, Nos. 301-3 Sustainability O: 2333-6823 F: 2333-1316 E: genera | al@acuityh | k.com v | l, Kwai Ci vww.acu | iung, N.T. ityhk.com |
|------|--|------------|--------------|-----------------------|--|
| | Contract no. 13/WSD/16 Mainlaying in Tsu | eung Kwa | Yes | No | Photo/Remarks |
| - | Lance LI MILL | NA | 163 | NU | Thoto Remarks |
| 4.(| 2 is a recording system implemented to record the amount of wastes generated, recycled and | | - | | |
| | disposed of? | | V | | |
| 4.0 | 03 Is the Contractor registered as a chemical waste producer? | | M | | NEW CONTRACT |
| | and had been been a second and the | | ~ | | - |
| 4.0 | interview waste and collected by a licensed chemical waste | T | | | and all the second of |
| | collector? | | | Ц | |
| 4.0 | 05 Are trip tickets for chemical waste disposal available for inspection? | Th | | | the first section of the |
| 4.0 | | | | | |
| 1.1 | 16 Is chemical waste reused and recycled on site as far as practicable? | | | | the second s |
| 4.0 | 7 Are all containers for chemical waste properly labelled? | | | | |
| | a constants for entities make property rabelled/ | | | | |
| 4.0 | 8 Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | | - | | |
| | a second have been a second have | | | | No |
| 4.0 | Are incompatible chemical wastes stored in different areas? | | - | _ | And the second second |
| | | V | | | A Contractor of the |
| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | 1 | | | |
| | | 4 | | | |
| 4.11 | largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | | | |
| 1.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \square | | |
| 1.13 | Are sufficient general refuse disposal/collection points provided on site? | | | | |
| | Is general refuse disposed of properly and regularly? | | | | 0// |
| .14 | is general retuse disposed of property and regularly? | | 1 | | |
| 45 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of | | -/- | | |
| .15 | waste? | | 1 | | |
| .16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office | | 7 | | |
| .10 | paper provided to encourage waste segregation? | | V | | |
| 17 | Are C&D wastes sorted on site? | | - | | |
| | | | | - | |
| 18 | Are C&D waste disposed of properly? | | | | |
| 10 | Are cap wate asposed of property. | - | V | | |
| 10 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | | · | | |
| 13 | | V | | | home and the second |
| 20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | |
| | the public initiality carb waste rease on site as hall as practicable to arous disposal of site i | | \checkmark | | in the second |
| - | Are the construction materials stored properly to minimize the potential for damage or | | -/ | | and a set of |
| | | | ~ | | |
| | ontamination? | 1.000 | | / | |
| 2 1 | a dumping license obtained to deliver public fill to public filling areas? | | V | | |
| | and the second | | | 1 | 100 C. 100 |
| | | | | | |

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| 1 | Contract no. 13/WSD/16 Mainlaying in T | seung Kwa | an O | 24.00 | |
|------|---|--------------|--------------|-------------|---------------|
| | Standards a station of a same | N/A | Yes | No | Photo/Remarks |
| 5.00 | Landscape and Visual | | | é | |
| | Are Is site hoarding provided? | 1 | Ē | | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | T | | |
| 5.03 | Is construction light oriented away from the sensitive receivers? | | | | |
| 5.04 | is grass hydroseeding provided to slopes as soon as the completion of works? | \checkmark | \Box | | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | | | | agan a la an |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | | Ø, | | here a start |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | \checkmark | | |
| 5.08 | Are surgery works carried out for damaged trees? | | | | |
| 5.00 | Ecology | () | 17.18 | N. S. S. S. | |
| 6.01 | is site runoff properly treated to prevent any silly runoff? | Ω, | \checkmark | | |
| 5.02 | Are silt trap installed and well-maintained? | | | | |
| | Are stockpiles properly covered to avoid generating silty runoff? | | 1 | | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | | Z | | |
| | Overall | | 1 | _ | |
| .01 | is the EM&A property implemented in general? | | | | |

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Acuity Sustainability Consulting Limited Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. Acuity O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: CHA-12+50 MAG ebil - CHA-12+52 - PIER P ECATOS - LFS I ANRA - PIER PIER PIER PIER PIER F observation (5) (1). Chemices were not placed in the any 1 CTA C37 Construction boundaries were not living producted by sandlags prot C (37 Dorst Sapprossing working than swere my impremented at CHA12+50. Forther auton shere be myremoded to prevent dust emission (Lanething slege (ANDA) (pit F) to Au walenader generated from the constanction site have to 3- through to Au walenader generated from the constanction site have to 3- through nover trestant facilities. at attit the pite (emplety) (12+50) as construction and should be from every netericity at pitc US Auconstruction metanets shar not be placed on the prover relates at CHAB-664 Signatures: IEC's WSD's ET Contractor's Representative Representative Representative Representative 1 NA 7 (Name: NA (Name: F.K. GUDNEY (Namechaninery (Name: Son Ala

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| Acuity Sustainability Consulting Limited Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. C: 2333-6823 F: 2333-1316 E: general@acuityhk.com www.acuityhk.com Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST Inspection Date: 21/05/2024. Inspector Time: 9230 - 12:00 Weather Contract on Condition Juany Time perature 27 Wind Calm Laight Biceze Strong Low | | | | | | |
|---|--|--------------------------|--|--|--|--|
| | | N/A Yes No Photo/Remarks | | | | |
| | | | | | | |
| 0.01 | General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | | | | | |
| 0.02 | Is ET Leader's log-book kept readily available for inspections? | | | | | |
| 1.01 | Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | | | | | |
| 1 1 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | Swiming- | | | | |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | | | | | |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | | | | |
| 1.05 | is wheel-washing provided to all vehicles leaving the site? | | | | | |
| 1.06 | Are road section near the site exit free from dusty material? | | | | | |
| | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | | | | | |
| | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | | | | | |
| | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | | | | | |
| 1 1 | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet? | | | | | |
| 1.11 | is exposed earth properly treated within six months after the last construction activity on site? | | | | | |
| 1.12 | Does the operation of plants on site free form dark smoke emission? | | | | | |

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

| | | N/Λ | Yes | No | Photo/Remarks |
|------|--|--------------|--------------|----|---------------|
| 1.13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | \checkmark | | | |
| 1.14 | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides? | | | | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | | | | |
| 1.16 | Are hoarding of at least 2,4m high provided along the site boundary adjoining areas accessible by the public? | | | | |
| 1.17 | is open burning prohibited? | | | | |
| 2.00 | Construction Noise (Airborne) | | 1 | | |
| 2.01 | Are quiet plants adopted on site? | | | | |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | \checkmark | | |
| 2.03 | Are plants throttled down or turned off when not in use? | | 4 | | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | I, | | | |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | | | | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | | \Box | | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | | | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | | | | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | | V | | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | | | | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | | \Box | | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | | V | | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted hours? | | | | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | | 1 | | - |
| 3.00 | Water Quality | | 5.7 | | |
| 3.01 | Is effluent discharge license obtained for wastewater discharge from site? | | | | |
| 3.02 | is effluent discharged according to the effluent discharge license? | | \checkmark | | |
| 3.03 | is wastewater discharge from site properly treated prior to discharge? | | - | | |

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

| | | N/A | Yes | No | Photo/Remarks |
|------|---|-----|--------------|--------|---------------------|
| | | | | | |
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | | \checkmark | | obs(2) |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to | | | | |
| | remove sand/silt particles from runoff? | | | | |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | | 1 | | |
| 3.07 | Is the drainage system properly maintained? | | | | |
| 0.01 | is the dramage system property manameter | | | | |
| 3.08 | Arc construction works carefully programmed to minimize soil excavation works during | | | | |
| | rainy seasons? | | | | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of | | | | |
| | soil erosion? | | V. | | |
| 3.10 | Are temporary access roads protected by crushed gravel? | | | | |
| 3.11 | Are exposed slope surface properly protected? | | | \Box | Ŷ |
| 0.10 | | | | | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | | 1 | | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric | | | | |
| | during construction? | | - | | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | | | | |
| 0.14 | is fundir from wheel-washing facilities avoided: | | | | |
| 3.15 | Is oil leåkage or spillage prevented? | | | | oles (3) obs (1) |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage | | | | 4 4.5 |
| | system? | | \checkmark | | obs (1) |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | | | | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to | | | | |
| | avoid them entering the streams? | | ~ | | |
| 3.19 | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, | | | | |
| | within bunds of capacity equal to 110% of the storage capacity of the largest tank? | | | | |
| | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | | | | |
| L | | | | | |
| | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | | | | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by | | | | |
| | the licensed contractors? | | ✓ | | |
| 3.23 | Is concrete washing water properly collected and treated prior to discharge? | | | | |
| 4.00 | Waste Management | , | | | |
| | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | | | | |

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Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

| | | 19/12 | 105 | 140 | Flioto/Rellatk5 |
|------|--|--------------|--------------|-----|-----------------|
| 4.02 | is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | | | | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | | | | - |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | \checkmark | | | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | | | | |
| 4.06 | Is chemical waste reused and recycled on site as far as practicable? | | | | |
| 4.07 | Are all containers for chemical waste properly labelled? | | | | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | | | | |
| 4.09 | Are incompatible chemical wastes stored in different areas? | | | | |
| 4.10 | is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | Z, | | | |
| 4.11 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | | | 0 |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | | | 14.14 |
| 4.13 | Are sufficient general refuse disposal/collection points provided on site? | | | | |
| 4.14 | Is general refuse disposed of properly and regularly? | | \checkmark | | |
| 4.15 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | | | |
| 4.16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | | | |
| 4.17 | Are C&D wastes sorted on site? | | 1 | | |
| 4.18 | Are C&D waste disposed of properly? | | | | |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | | | | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | | Z, | | |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | | 1 | | |
| | | | | | |

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Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

| | | N/A Tes NO Photo/Reliarks |
|------|---|---------------------------|
| 5.00 | Landscape and Visual | |
| 5.01 | Are Is site hoarding provided? | |
| | | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | |
| 5.03 | is construction light oriented away from the sensitive receivers? | |
| 5.04 | is grass hydroseeding provided to slopes as soon as the completion of works? | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of | |
| | any preserved trees? | |
| 5.07 | Are the relained and transplanted tree(s) properly protected and in good conditions? | |
| 5.08 | Are surgery works carried out for damaged trees? | |
| 6.00 | Ecology | 4 |
| 6.01 | Is site runoff properly treated to prevent any silly runoff? | |
| 6.02 | Are silt trap installed and well-maintained? | |
| 6.03 | Are stock piles properly covered to avoid generating silty runoff? | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | |
| 7.00 | Overall | 1 |
| 7.01 | Is the EM&A properly implemented in general? | |

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| | Acuity Sustainability Consulting Limited Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. 333-6823 F: 2333-1316 E: general@acuityhk.com www.acuityhk.com 13/WSD/16 Mainlaying in Tseung Kwan O |
|---|--|
| Remark / Follow up of Observation(s) and Non-co pitc - 137 (Cat.CT (15) Observation (5) 2+58; (1) Chemical Was not obse (2) Construction Loundance (3) Evens softer vontor (3) Chemical Deckage | T→ pitc eby Club k150 → pit B = FCH 4665 → FC@ +62. |
| cs filed with w prevent it from | 1+57-2+58 reminded et pitc. & 137 (CHOT. N) (PitB) rater shan be pripary treated & drained before to a overlawing its outside the site overlawing its outside the site overlawing its outside the site by of untreated notor construction (Pitc) by of untreated notor out F(0662 |
| Signatures: ET Contractor's Representative Representative State (Name: Charlene La) (Name: San M) | WSD's IEC's Representative (Name: N/A.) WSI/co |

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| Inspection Da | Acuity Acuity Manability O: 2333-6823 F: 2333-1316 E: gener Contract no. 13/WSD/16 Mainlaying in Ts WEEKLY ENVIRONMENTAL INSPECTION atte: 26/05/2220 | eung Kwan O |
|---------------------------------|---|--------------------------|
| Inspection Ti Weather | ince: 09:20 - 11:50 Costractor. | |
| Condition Temperatur Wind | re C Humidity Drizzle Rain C Humidity Phigh Moderat C Breeze Strong | E Low |
| | | N/A Yes No Photo/Remarks |
| | | |
| 0.01 Is th | neral he current Environmental Permit displayed conspicuously at all vehicle site rances/exits for public's information at any time? | |
| 0.02 Is E | T Leader's log-book kept readily available for inspections? | |
| 1.01 Are | nstruction Dust dusty materials, such as excavated materials, building debris and construction erials, and exposed earth surface properly covered to prevent dust emission? | - Corpension Elect |
| | screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty struction works for dust suppression? | |
| 1.03 Are | fumes or smoke emitting plants or construction activities shielded by a screen? | |
| 1.04 Are | wheel-washing facilities with high-pressure water jets provided at all site exits? | |
| | wheel-washing provided to all vehicles leaving the site? | |
| 1.06 Are | road section near the site exit free from dusty material? | |
| | all main haul roads inside the site paved or sprayed with water to minimize dust ission during vehicle movement? | Paved |
| | water spraying provided immediately prior to any loading or transfer of dusty terials? | |
| | covers provided to all dump trucks carrying dusty materials when entering and ving the site? | |
| | the working areas for uprooting of trees, shrubs, or vegetation or the removal of ilders, poles, pillars sprayed with water to maintain the entire surface wet? | |
| | exposed earth properly treated within six months after the last construction activity on | |
| 1.12 Doc | es the operation of plants on site free form dark smoke emission? | |

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|------|--|--------------|--------------|---------|---------------|--|--|
| | | N/A | Yes | No | Photo/Remarks | | |
| 1.13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | > | | | | | |
| | and the state of t | \checkmark | | | | | |
| 1.14 | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 2 | | | | | | |
| | sides? | V | | | | | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered | | | | | | |
| | areas?? | | | | | | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas | | | | | | |
| | accessible by the public? | V | \Box | | | | |
| 1.17 | Is open burning prohibited? | | | | | | |
| 2.00 | Construction Noise (Airborne) | | | | | | |
| 2.01 | Are quiet plants adopted on site? | | ~ | | | | |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive | | / | | | | |
| | niose? | | 1 | | | | |
| 2.03 | Are plants throttled down or turned off when not in use? | | 1 | | | | |
| | the plants another down of turned off when not in use? | | \checkmark | | | | |
| .04 | Are the plants known to emit noise strongly in one direction oriented to face away from | | | | 1 | | |
| | NSRs? | | | | 4 No man Mar | | |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | | | |) | | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | | | | | | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | | \Box | | | |
| .08 | Are purposely-built site hoarding construction with appropriate materials provided along | | _ | | | | |
| | the site boundary? | \bigvee | | | | | |
| .09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to | | - | | | | |
| | ncarby sensitive receivers? | | V | | | | |
| .10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | | | | | | |
| .11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | | | | | | |
| 12 | Are all construction noise permit(s) applied for percussive piling work? | | | <u></u> | | | |
| 13 | | | 4 | | | | |
| 13 | Are construction noise permit(s) applied for general construction works during restricted | | | | | | |
| | hours? | | | | | | |
| 14 | Are valid construction noise permit(s) displayed at all vehicular exits? | | | | | | |
| 00 | Water Quality | | | | | | |
| | Is effluent discharge license obtained for wastewater discharge from site? | | 1 | | | | |
| .02 | Is effluent discharged according to the effluent discharge license? | \checkmark | | [] ι | No water | | |
| .03 | Is wastewater discharge from site properly treated prior to discharge? | | | | dischage | | |
| | | \checkmark | | | Chung site wa | | |

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|------|---|-----|--------------|----|-----------------|--|--|--|
| | | N/A | Yes | No | Photo/Remarks | | | |
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | | | | | | | |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to | | | | | | | |
| | remove sand/silt particles from runoff? | | | | | | | |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | | | | | | | |
| 3.07 | is the drainage system properly maintained? | | \checkmark | | | | | |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | | | | | | | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of | | | _ | | | | |
| | soil erosion? | | \checkmark | | | | | |
| 3.10 | Are temporary access roads protected by crushed gravel? | | | | | | | |
| 3.11 | Are exposed slope surface properly protected? | 1 | | | | | | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, | | Th. | | | | | |
| | backfilled in short sections after excavation? | | 1 | | | | | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | | | | | | | |
| 3.14 | is runoff from wheel-washing facilities avoided? | | | | | | | |
| 3.15 | is oil leakage or spillage prevented? | | \checkmark | | oby (1) | | | |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage | | | | | | | |
| | system? | | <u> </u> | | Vanjetraj | | | |
| 3.17 | Are the oil interceptors/grease traps properly maintained? | | | | V texile sheet | | | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to | | | | | | | |
| | avoid them entering the streams? | | | | | | | |
| 3.19 | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? | | | | Not applicable. | | | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from | | Th. | | | | | |
| | the sensitive watercourse and stormwater drains? | | | | | | | |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | | | | | | | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by | | Th. | | | | | |
| | the licensed contractors? | | · | | | | | |
| | Is concrete washing water properly collected and treated prior to discharge? | | | | | | | |
| | Waste Management | | | | | | | |
| 4.01 | Is a trip-licket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | | V | | | | | |
| | | | | | | | | |

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|------|--|-----|--------------|----|----------------|--|--|
| | | N/A | Yes | No | Photo/Remarks | | |
| 4.02 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | | | | | | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | | \checkmark | | | | |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | | | | | | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | | | | | | |
| 4.06 | is chemical waste reused and recycled on site as far as practicable? | | | | | | |
| 4.07 | Are all containers for chemical waste properly labelled? | | | | | | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | | | | | | |
| 4.09 | Are incompatible chemical wastes stored in different areas? | | | | | | |
| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | | | | | | |
| 4.11 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? | | | | | | |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | | | | | |
| 4.13 | Are sufficient general refuse disposal/collection points provided on site? | | É, | | | | |
| 4.14 | is general refuse disposed of property and regularly? | | T, | | | | |
| 4.15 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | d, | | | | |
| 4.16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | ٢, | | | | |
| 4.17 | Are C&D wastes sorted on site? | | | | metal (been is | | |
| 4.18 | Are C&D waste disposed of properly? | | 1 | | | | |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | | · , | | | | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | d, | | | | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | | \square | | | | |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | | | | | | |

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|------|---|--------------|--------------|----|---------------|--|--|
| | | N/A | Yes | No | Photo/Remarks | | |
| 5.00 | Landscape and Visual | | | | | | |
| 5.01 | Are Is site hoarding provided? | | | | | | |
| 5 02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | | \checkmark | | | | |
| 5.03 | is construction light oriented away from the sensitive receivers? | | | | | | |
| 5.04 | is grass hydroseeding provided to slopes as soon as the completion of works? | | | | | | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | | \checkmark | | | | |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | \checkmark | | | | | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | | 5 | | | | |
| 5.08 | Are surgery works carried out for damaged trees? | | | | | | |
| 6.00 | Ecology | | A | - | | | |
| 6.01 | Is site runoff properly treated to prevent any silly runoff? | 5 | HA A | | | | |
| 6.02 | Are silt trap installed and well-maintained? | 5 | , | | | | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | | Í, | | | | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | | | | 8 | | |
| 7.00 | Overall | | 1 | | | | |
| 7.01 | Is the EM&A properly implemented in general? | | V | | | | |

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|--|--------------------|----------------------|--|----|--|--|--|--|--|
| Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O | | | | | | | | | |
| Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: | | | | | | | | | |
| CHA6+64 -> pit | CHA6+64 - P Pit B. | | | | | | | | |
| observation(s) | we way shown a | d at OHA6+64 | (prove side). | | | | | | |
| | J- was observe | | 5 | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| Signatures: | | | | | | | | | |
| ET C | Contractor's | WSD's | IEC's | | | | | | |
| Representative F | Representative | Representative | Representative | | | | | | |
| - all | A2 | Tan | threester | | | | | | |
| (Name: Charlent) (| Name: SourNg) | (Name: T.K. (An)) | (Name: There's for) | | | | | | |

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Appendix M

Proactive Environmental Protection Proforma



Proactive Environmental Protection for the Next Reporting Month

| Reporting Period | Activity | Major Environmental Impact | Environmental Mitigation Measure |
|-------------------------------|---|--|--|
| 1 June 2020 - 30 June 2020 | Excavation of trench Mainlaying of pipe Backfilling of the trench Work fronts for open trench Work fronts for pipe jacking Trial pits works | Construction dust and noise generation | Dust suppression by regular wetting and water spraying Reduction of noise from equipment and machinery on- site Sorting and storage of general refuse and construction waste |



Appendix N

Impact Monitoring Schedule of Next Reporting Month



(Blank)