



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

Your reference:

Our reference: HKWSD201/50/107730

Date: 28 December 2021

Attention: Mr Y M Chan

BY POST

Dear Sirs

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.40

We refer to emails of 14 and 21 December 2021 attaching Monthly EM&A Report No.40 for the captioned project prepared by the ET.

We have no further comment and hereby verify the captioned report 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 Louis Kwan 2618 2831.

Yours faithfully
ANEWR CONSULTING LIMITED

James Choi
Independent Environmental Checker

CPSJ/KSYL/lsm



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水務署

Water Supplies Department

Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 40
(Period from 1 to 30 November 2021)

December 2021

(Rev. 0)

| | Prepared by: | Certified by: |
|------------------|---|---|
| Name | Charlene Lai | Jacky Leung |
| Position | Environmental Team | Environmental Team Leader |
| Signature |  |  |
| Date: | 10/12/2021 | 10/12/2021 |

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EXECUTIVE SUMMARY

Introduction

- A1. Penta-Ocean - Concentric Joint Venture (POCV) 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 40th 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 November 2021 to 30 November 2021.
- 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 followings:

| Location | Location | Works Conducted in the reporting month |
|-------------------------------|---------------------------|---|
| Portion H of the Project Site | TKO 137 Pit A | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| | TKO 137 Pit B | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| | TKO 137 Pit C | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| Portion J of the Project Site | Wan Po Rd – Workfront 1 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Workfront 2 | <ul style="list-style-type: none"> Mini piling works for ELS of jacking pit construction were conducted. |
| | Wan Po Rd – Workfront 3 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Workfront 4 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Pit A | <ul style="list-style-type: none"> Remedial works for pit was conducted. |
| | Wan Po Rd – Pit B | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking were conducted. |
| | Wan Po Rd – Pit D | <ul style="list-style-type: none"> Completion of Pit D construction. Preparation works for TBM pipe jacking were conducted. |
| | Landfill Stage 1 – Area A | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. Plate load test was conducted. |

| Location | Location | Works Conducted in the reporting month |
|----------|-------------------------------|--|
| | Pet Garden's Road | • Pipe trench excavation and pipe laying were in-progress. |
| | Landfill Stage 1 – Area B | • Trench excavation and pipe laying were in-progress. |
| | Pung Loi Road – Pit WPR1 | • Sheetpile driving works for pit ELS were conducted. |
| | Roundabout – Pit G1A | • Pit excavation and ELS works were conducted. |
| | Velodrome – Pit L-M | • Trench excavation and pipe laying works were conducted. |
| | Velodrome – Pit M | • Hand-shield pipe jacking works were conducted. |
| | Velodrome – Pit P | • TBM pipe jacking works were conducted. |
| | Ling Hong Road – Pit Y | • Grouting works of cavity between sleeve pipe and MS pipe were conducted. |
| | Ling Hong Road – Pit R | • Grouting works of cavity between sleeve pipe and MS pipe were conducted. |
| | Mau Wu Tsai – Workfront 2 | • Trench excavation and pipe laying works were conducted. |
| | Po Lam Road South | • Trench excavation and pipe laying works were conducted. |
| | Po Lam Road (C2) | • Pre-drilling works for mini piling of pipe bridge at Location A westside slope were conducted. |
| | Po Lam Road (B4) | • Trench rock breaking works were conducted. |
| | TKO Primary Service Reservoir | • Trench excavation and pipe laying works were conducted. |

- A6. The major environmental impacts brought by the above construction works include:
- Construction dust and noise generation from saw cutting of concrete surface, mainlaying of pipes, TBM break through, sheetpiling works, excavation and drilling works
 - Waste generation from the construction activities
 - Impact on water quality from construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
- Reduction of construction dust generation from saw cutting of concrete surface, mainlaying of pipes, TBM break through, sheetpiling works, excavation and drilling works
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste
 - Treatment of wastewater through water treatment facilities before discharge

Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was scheduled in the reporting month for NSR4 Creative Secondary School on 4, 12, 18 and 25 November 2021 as construction works were conducted within 300m to the noise sensitive receiver. No project-related exceedance of the Action and Limit Level was recorded during the reporting period.
- A9. No examinations were scheduled in the reporting month for NSR4 Creative Secondary School. Academic School Calendar can be found in **Appendix O**.

Complaint Handling and Prosecution

- A10. No project-related environmental complaint was received in the reporting month.
- A11. Neither notifications of summons nor prosecution was received for the Project in the reporting month.

Reporting Change

- A12. There were no changes reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

- A13. Key works in December 2021 (the next reporting month) for the Project will include the followings:

| Location | Location | Forecast Works in Next Reporting Month |
|-------------------------------|-------------------------|--|
| Portion H of the Project Site | TKO 137 Pit A | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| | TKO 137 Pit B | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| | TKO 137 Pit C | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| Portion J of the Project Site | Wan Po Rd – Workfront 1 | <ul style="list-style-type: none"> Mini piling works for ELS of receiving pit construction will be conducted. |
| | Wan Po Rd – Workfront 2 | <ul style="list-style-type: none"> Mini piling works for ELS of jacking pit construction will be conducted. |
| | Wan Po Rd – Workfront 3 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Wan Po Rd – Workfront 4 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Wan Po Rd – Pit A | <ul style="list-style-type: none"> Remedial works for pit will be conducted. |

| Location | Location | Forecast Works in Next Reporting Month |
|----------|-------------------------------|---|
| | Wan Po Rd – Pit B | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking will be conducted. TBM pipe jacking will be commenced. |
| | Wan Po Rd – Pit D | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking will be conducted. TBM pipe jacking will be commenced. |
| | Landfill Stage 1 – Area A | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Pet Garden’s Road | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Landfill Stage 1 – Area B | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Pung Loi Road – Pit WPR1 | <ul style="list-style-type: none"> Sheetpile driving works for pit ELS will be conducted. |
| | Roundabout – Pit G1A | <ul style="list-style-type: none"> Pit excavation and ELS works will be conducted. |
| | Velodrome – Pit K | <ul style="list-style-type: none"> Preparation works for pipe laying will be conducted. |
| | Velodrome – Pit L-Pit M | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Velodrome – Pit M | <ul style="list-style-type: none"> Hand-shield pipe jacking works will be conducted. |
| | Velodrome – Pit N | <ul style="list-style-type: none"> Site clearance works will be conducted. |
| | Velodrome – Pit O to Pit N | <ul style="list-style-type: none"> Site clearance works will be conducted. |
| | Velodrome – Pit P | <ul style="list-style-type: none"> TBM pipe jacking will be continued. |
| | Mau Wu Tsai – Workfront 2 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Po Lam Road South | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Po Lam Road (C2) | <ul style="list-style-type: none"> Pre-drilling works for mini piling of pipe bridge at Location A westside slope will be conducted. Mini piling works for Location A westside slope will be commenced. |
| | Po Lam Road (B4) | <ul style="list-style-type: none"> Trench rock breaking works will be conducted. |
| | TKO Primary Service Reservoir | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |

A14. The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, drilling activities, TBM break through, sheetpiling works and excavation works.
- Waste generation from construction activities
- Impact on water quality from construction activities

A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Reduction of construction dust generation of saw cutting of concrete surface, mainlaying of pipes, drilling activities, TBM break through, sheetpiling works and excavation works by regular water spraying and covering of dusty materials with screenings
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste
- Treatment of wastewater through water treatment facilities before discharge

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 40th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 November 2021 to 30 November 2021.

1.3 Project Organization

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

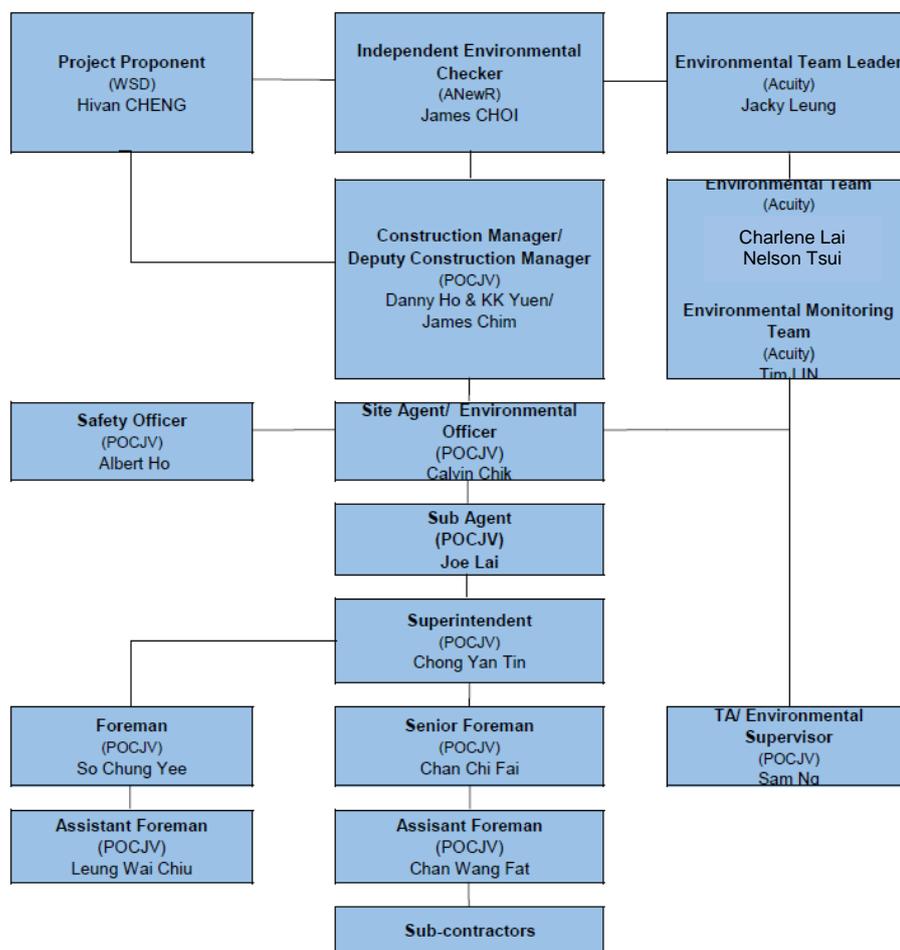


Figure 1.1 Project Organization Chart

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

| Party | Position | Name | Telephone no. |
|--|-----------------------------------|-------------|---------------|
| Penta-Ocean Concentric Venture - Joint | 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 | Location | Works Conducted in the reporting month |
|-------------------------------|--|---|
| Portion H of the Project Site | TKO 137 Pit A | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| | TKO 137 Pit B | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| | TKO 137 Pit C | <ul style="list-style-type: none"> Site clearance for pipe jacking works were conducted. |
| Portion J of the Project Site | Wan Po Rd – Workfront 1 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Workfront 2 | <ul style="list-style-type: none"> Mini piling works for ELS of jacking pit construction were conducted. |
| | Wan Po Rd – Workfront 3 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Workfront 4 | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Wan Po Rd – Pit A | <ul style="list-style-type: none"> Remedial works for pit was conducted. |
| | Wan Po Rd – Pit B | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking were conducted. |
| | Wan Po Rd – Pit D | <ul style="list-style-type: none"> Completion of Pit D construction. Preparation works for TBM pipe jacking were conducted. |
| | Landfill Stage 1 – Area A | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. Plate load test was conducted. |
| | Pet Garden’s Road | <ul style="list-style-type: none"> Pipe trench excavation and pipe laying were in-progress. |
| | Landfill Stage 1 – Area B | <ul style="list-style-type: none"> Trench excavation and pipe laying were in-progress. |
| | Pung Loi Road – Pit WPR1 | <ul style="list-style-type: none"> Sheetpile driving works for pit ELS were conducted. |
| | Roundabout – Pit G1A | <ul style="list-style-type: none"> Pit excavation and ELS works were conducted. |
| | Velodrome – Pit L-M | <ul style="list-style-type: none"> Trench excavation and pipe laying works were conducted. |
| | Velodrome – Pit M | <ul style="list-style-type: none"> Hand-shield pipe jacking works were conducted. |
| | Velodrome – Pit P | <ul style="list-style-type: none"> TBM pipe jacking works were conducted. |
| Ling Hong Road - Pit Y | <ul style="list-style-type: none"> Grouting works of cavity between sleeve pipe and MS pipe were conducted. | |

| Location | Location | Works Conducted in the reporting month |
|----------|-------------------------------|--|
| | Ling Hong Road - Pit R | <ul style="list-style-type: none"> Grouting works of cavity between sleeve pipe and MS pipe were conducted. |
| | Mau Wu Tsai – Workfront 2 | <ul style="list-style-type: none"> Trench excavation and pipe laying works were conducted. |
| | Po Lam Road South | <ul style="list-style-type: none"> Trench excavation and pipe laying works were conducted. |
| | Po Lam Road (C2) | <ul style="list-style-type: none"> Pre-drilling works for mini piling of pipe bridge at Location A westside slope were conducted. |
| | Po Lam Road (B4) | <ul style="list-style-type: none"> Trench rock breaking works were conducted. |
| | TKO Primary Service Reservoir | <ul style="list-style-type: none"> Trench excavation and pipe laying works were conducted. |

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* (Hong Kong Velodrome) (Remark* Main Contractor confirmed no night work was conducted in the reporting month) | GW-RE0494-21 | Until 16 Nov 2021 | - |

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.

Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 4, 12, 18 and 25 November 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

No examinations were scheduled in the reporting month for NSR4 Creative Secondary School. Academic School Calendar can be found in **Appendix O**.

2.2 Noise Monitoring Parameters, Time, Frequency

Impact noise monitoring was conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works would follow the requirements as stipulated in the valid CNPs if works have to be conducted during 1900-0700 in all days or any time on Sundays or general holidays.

Construction noise level was 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**.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

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

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.

Table 2.2 Noise Monitoring Location

| 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 |

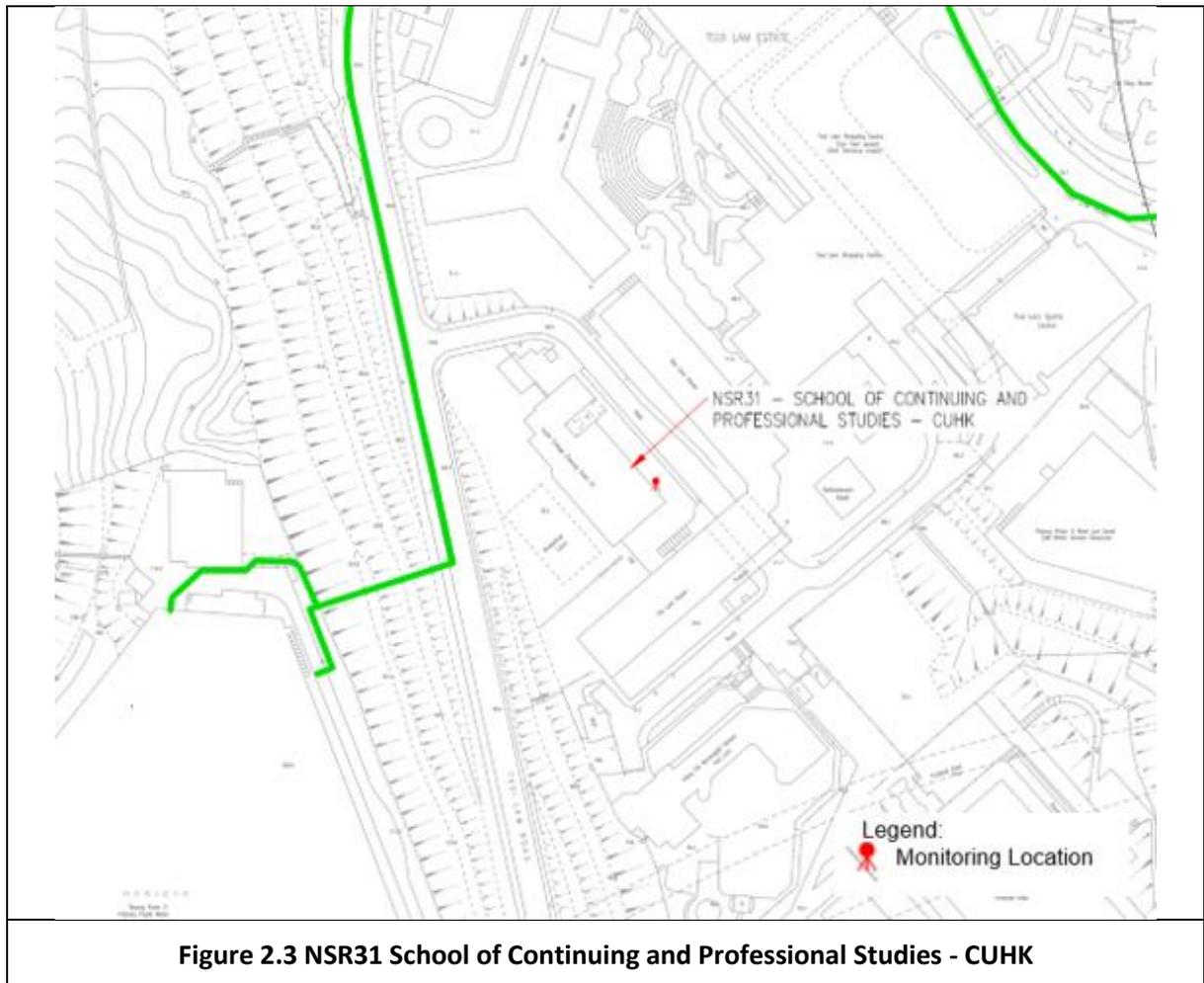
Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.



Figure 2.1 NSR4 Creative Secondary School



Figure 2.2 NSR24 PLK Laws Foundation College



2.4 Impact Monitoring Methodology

Integrated sound level meters were used for the noise monitoring. The meters were 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 meters was 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**. Noise measurements were not 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 would be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Table 2.3 Impact Noise Monitoring Equipment

| Equipment | Brand and Model | Serial Number | Date of Calibration | Calibration Certificate Expiry Date | Detection Limit |
|------------------------------|-------------------------|---------------|---------------------|-------------------------------------|-----------------|
| Sound Level Meter | NTi XL2 | A2A-13661-E0 | 23/09/2021 | 22/09/2022 | 30-130 dB(A) |
| Sound Level Meter | Svantek 971 | 96062 | 05/07/2021 | 04/07/2022 | 15-140 dB(A) |
| Sound Level Meter Calibrator | Pulsar 105 | 63705 | 07/08/2021 | 06/08/2022 | Nil |
| Pocket Wind Meter Anemometer | Kestrel 1000 Wind Meter | Nil | Nil | Nil | Nil |

2.5 Action and Limit Levels

The Action/Limit Levels are 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 Level | Limit Level (dB(A)) |
|--|---|---|
| 0700-1900 on normal weekdays | When one documented complaint is received from any one of the noise sensitive receivers | <ul style="list-style-type: none"> 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 are found during noise monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix F**.

2.6 Monitoring Results and Observations

Referring to EM&A manual Section 4.1.2, impact monitoring for noise impact was scheduled weekly in the reporting month for NSR4 – Creative Secondary School on 4, 12, 18 and 25 November 2021. Detailed monitoring results are presented in **Appendix G**.

No examinations were scheduled in the reporting month for NSR4 Creative Secondary School. Academic School Calendar can be found in **Appendix O**.

No construction works were conducted within 300m radius of NSR24 and NSR31. Thus, no monitoring works was carried at these two locations 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 these 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**.

Table 3.1 Quantities of waste generated from the Project

| Reporting period | Quantity | | | | | |
|------------------|---|-------------------------------|--|---------------------------------|-------------------------|-----------------------|
| | Inert C&D Materials (in '000m ³) | Chemical Waste (in '000kg) | Non-inert C&D Materials | | | |
| | | | Others, e.g. General Refuse disposed at Landfill (in '000m ³) | Recycled materials | | |
| | | | | Paper/card board (in '000kg) | Plastics (in '000kg) | Metals (in '000kg) |
| November-21 | 2.127 | 0.000 | 0.001 | 0.050 | 0.000 | 0.000 |

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, 627 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 when 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 4.20**.

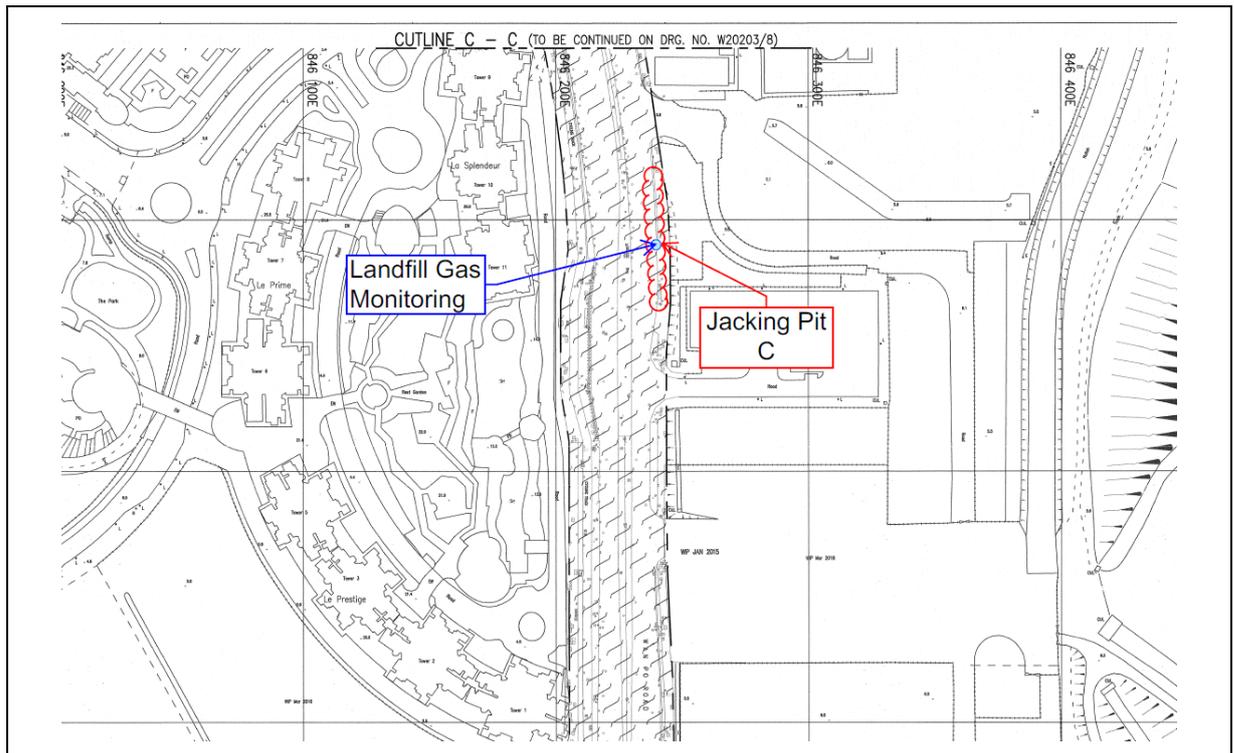


Figure 4.5 Monitoring Location – CH.A 19+15 ~19+50 (Pit C)

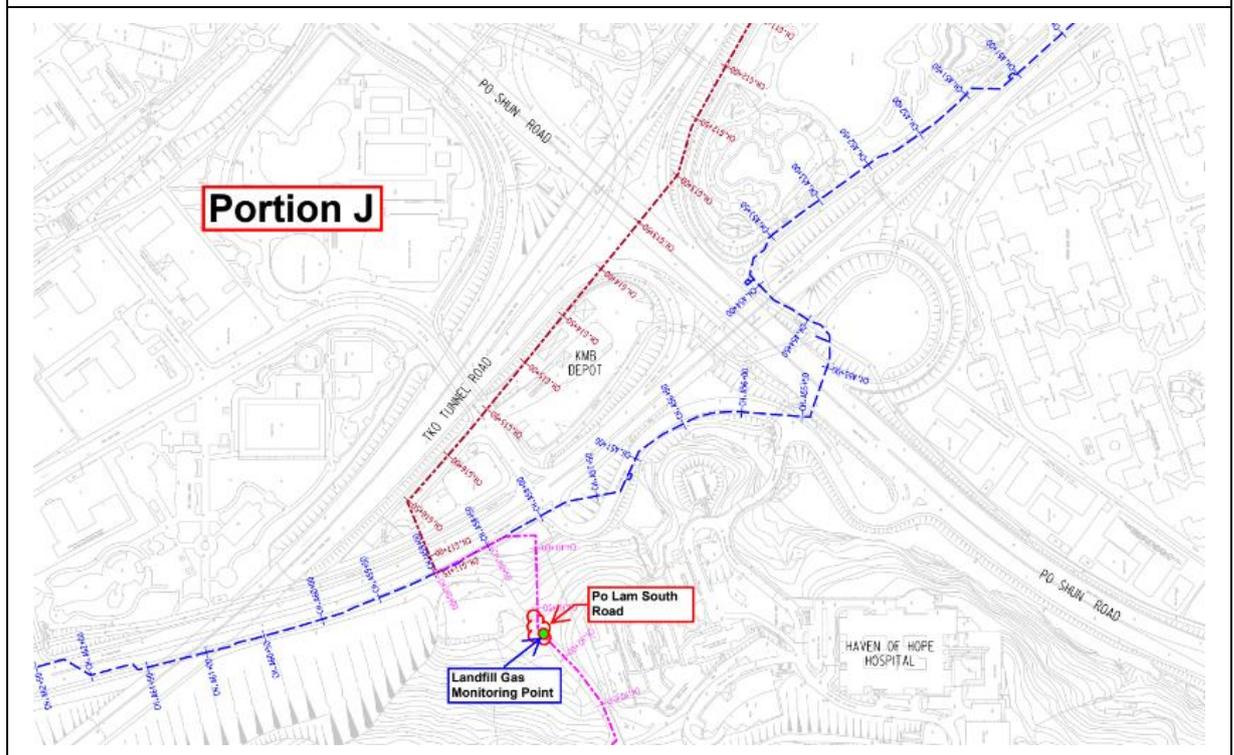


Figure 4.6a Monitoring Location – Mau Wu Tsai 1

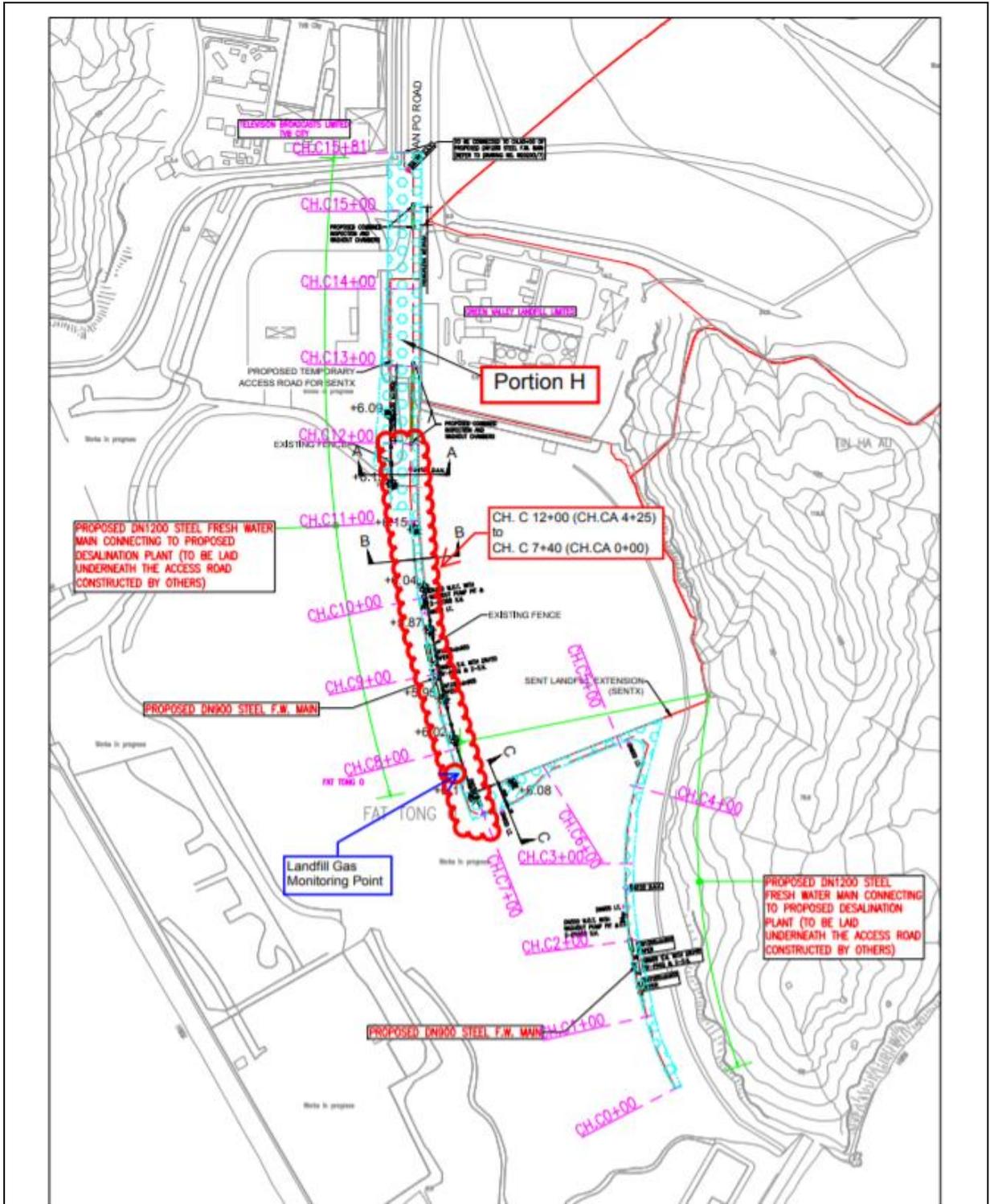


Figure 4.7 Monitoring Location –CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

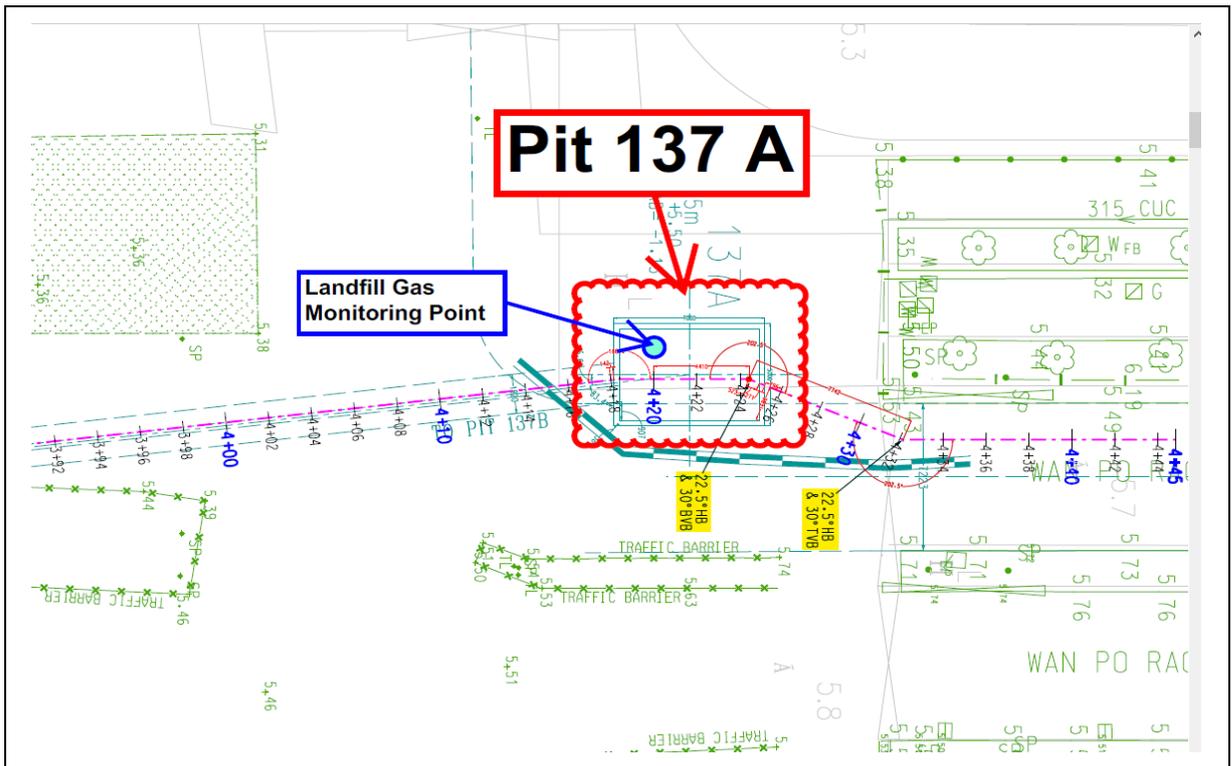


Figure 4.8a Monitoring Location – Pit 137A (137 Pit A)

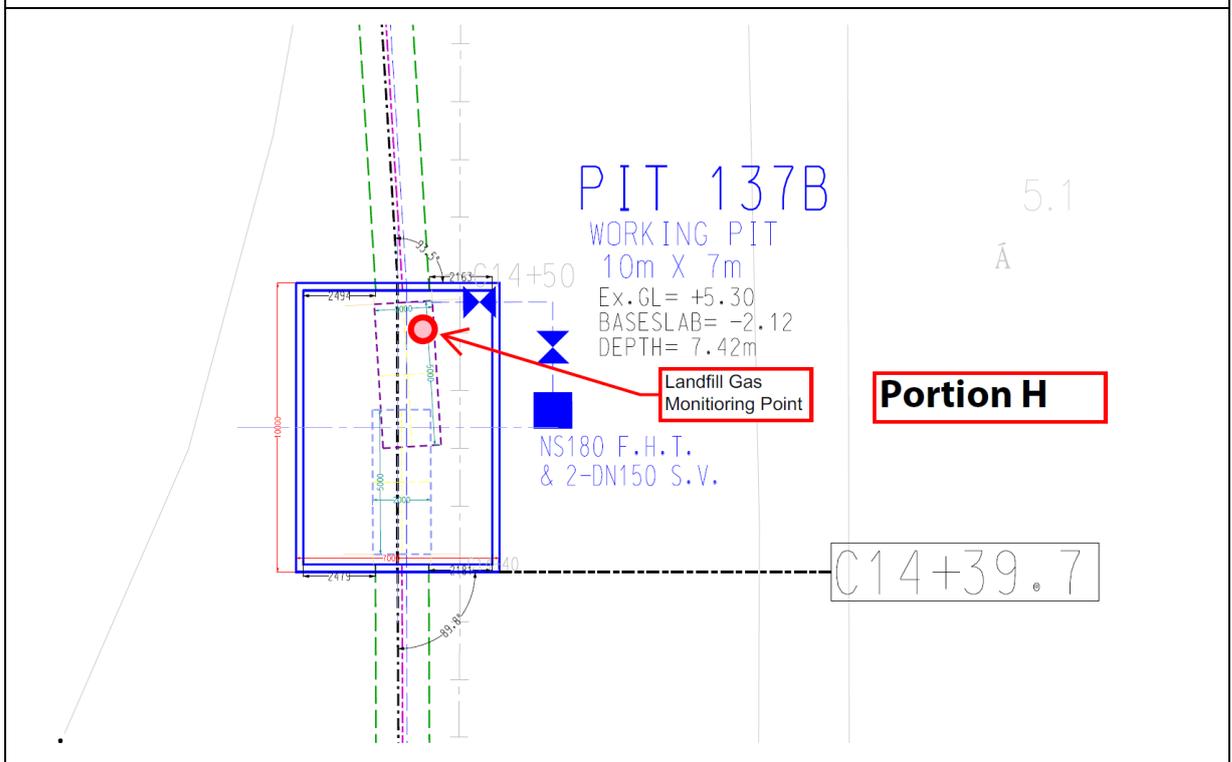


Figure 4.8b Monitoring Location – Pit 137B (137 Pit B)

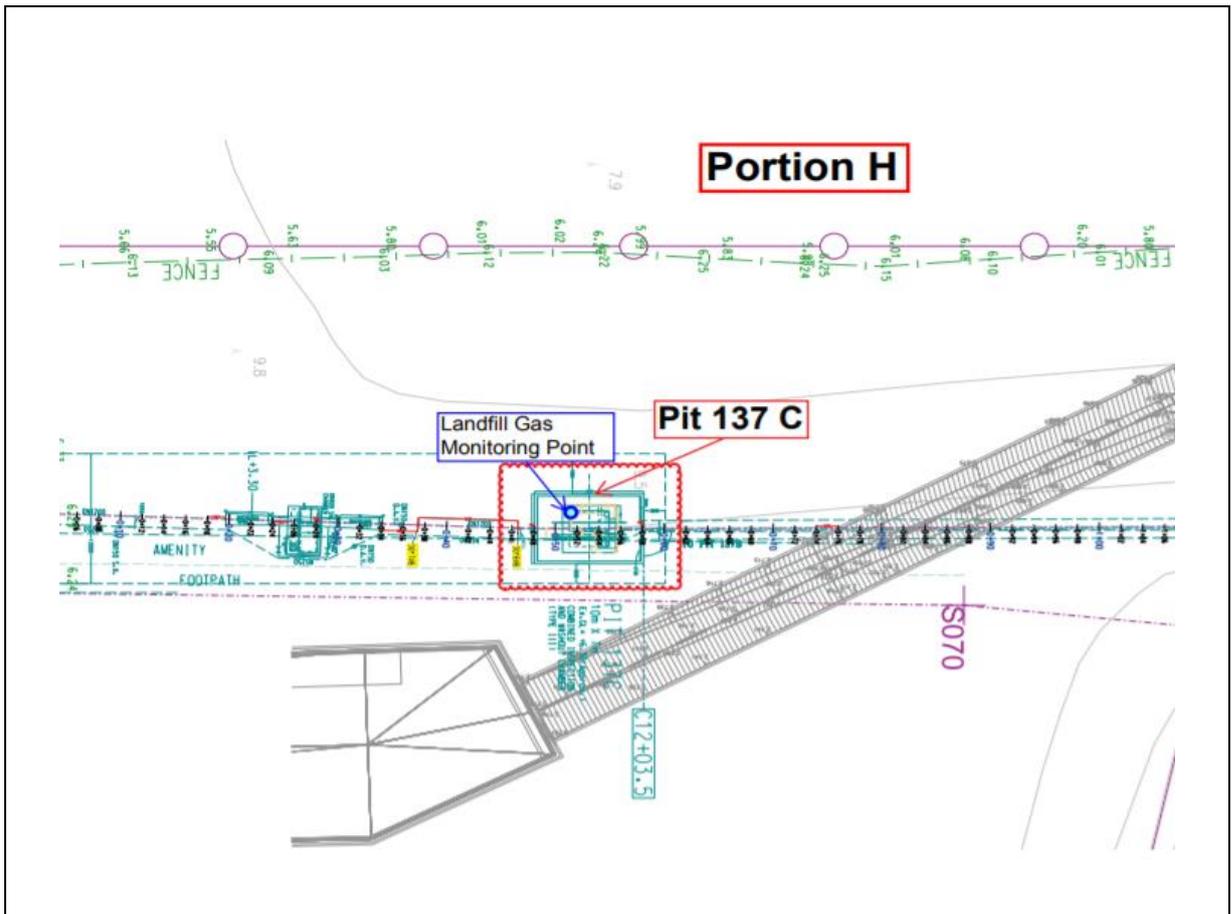


Figure 4.8c Monitoring Location – Pit 137C (137 Pit C)

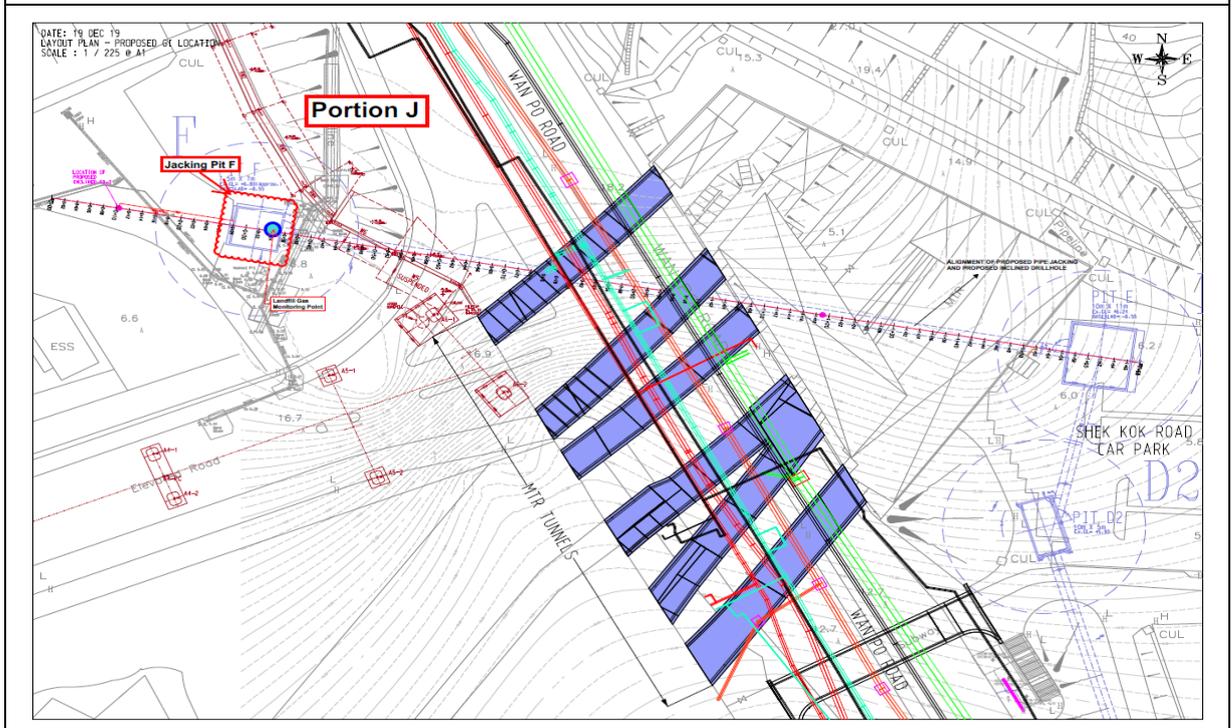


Figure 4.9 Monitoring Location – Jacking Pit F

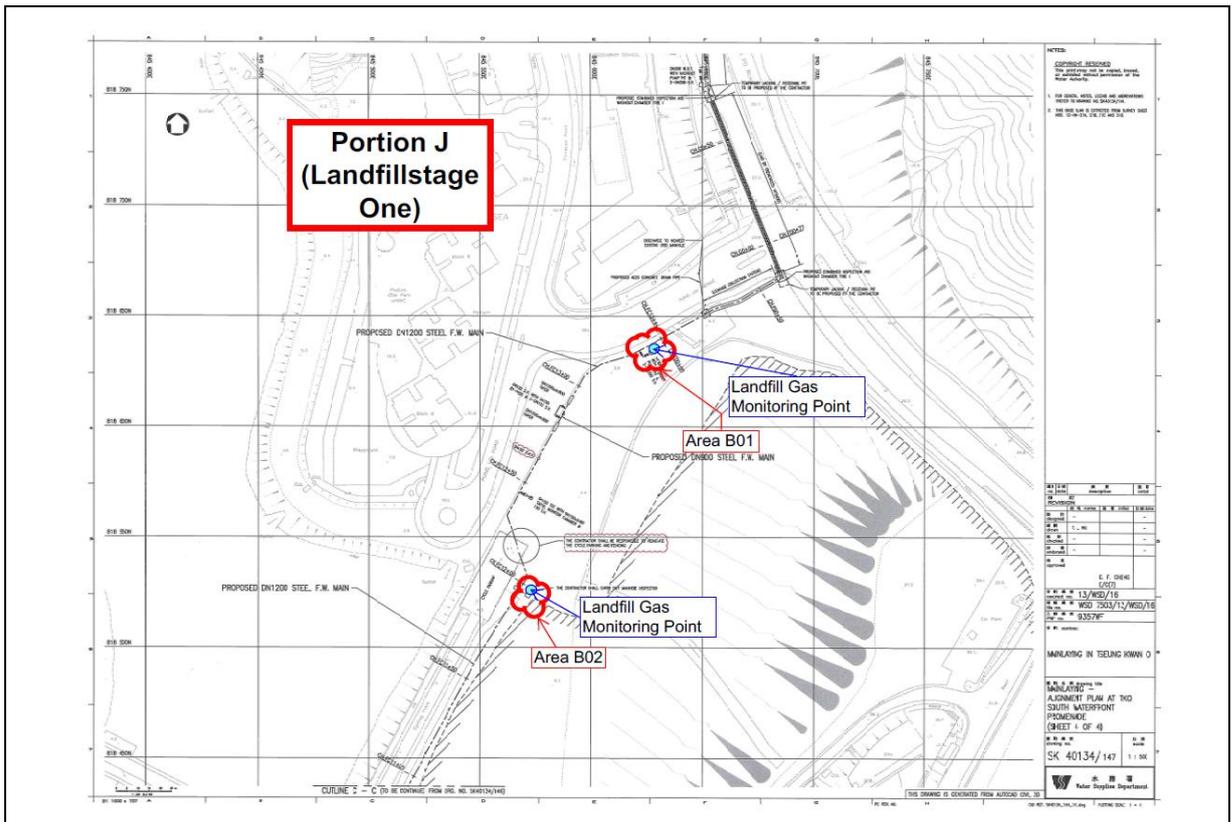


Figure 4.10a Monitoring Location – Landfill Stage 1 (Area B01-B02)

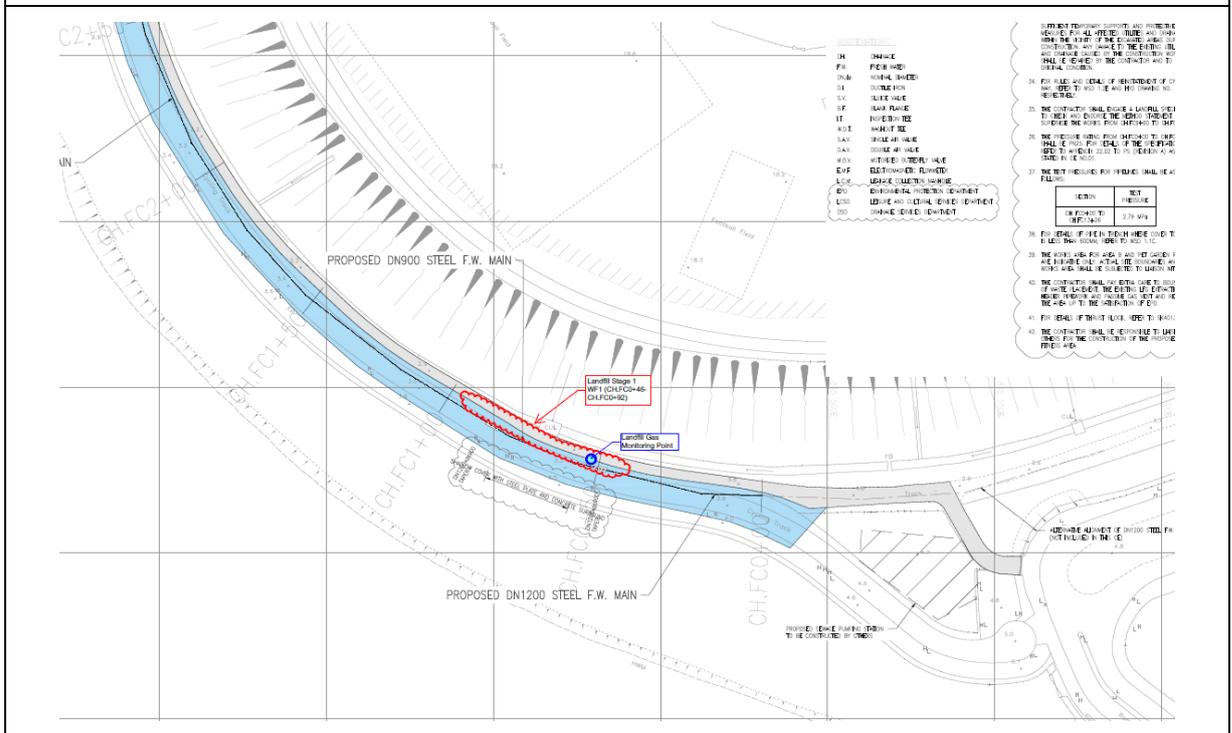


Figure 4.10b Monitoring Location – Landfill Stage 1 (FC0+64-FC0+92)

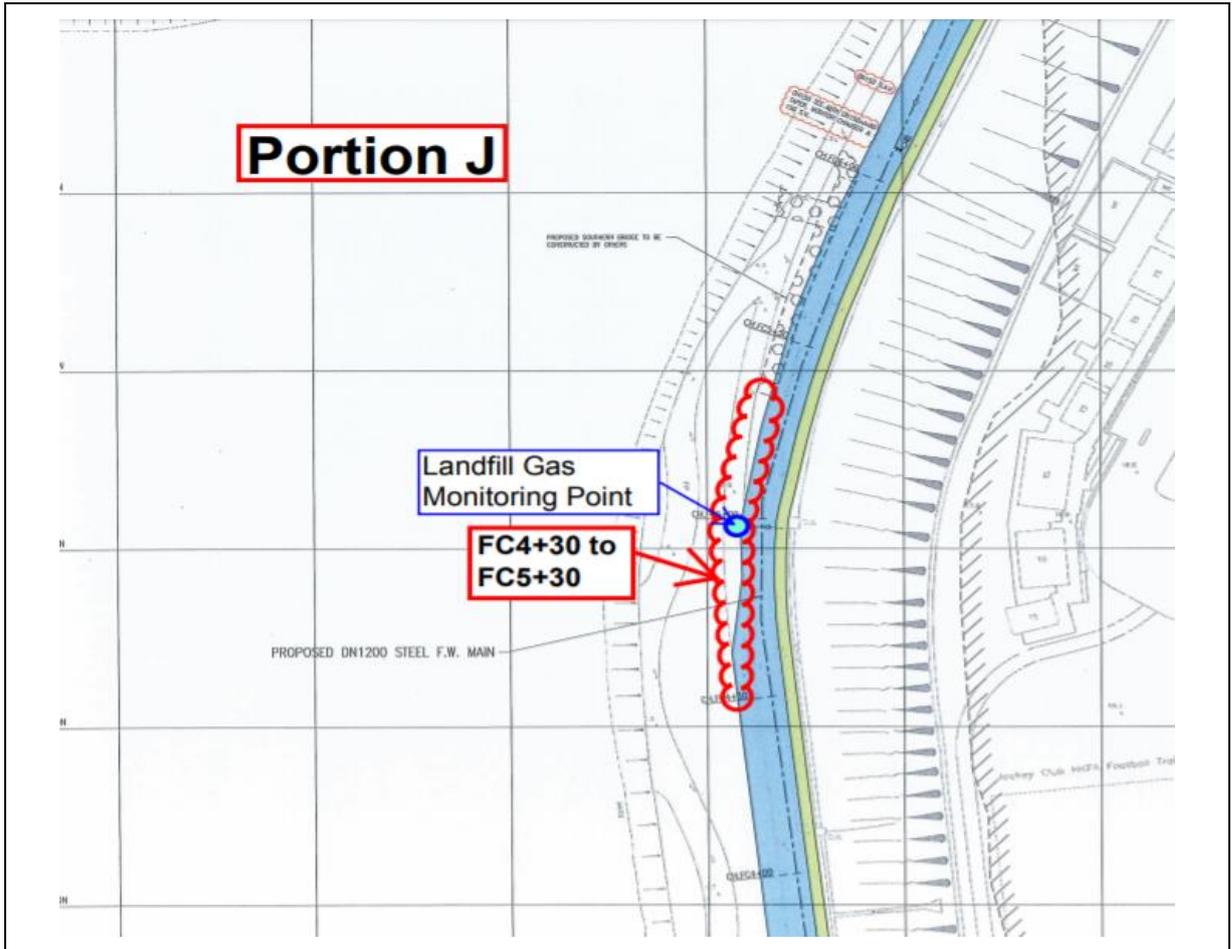


Figure 4.10c Monitoring Location – Landfill Stage 1 (FC4+30-FC5+30)

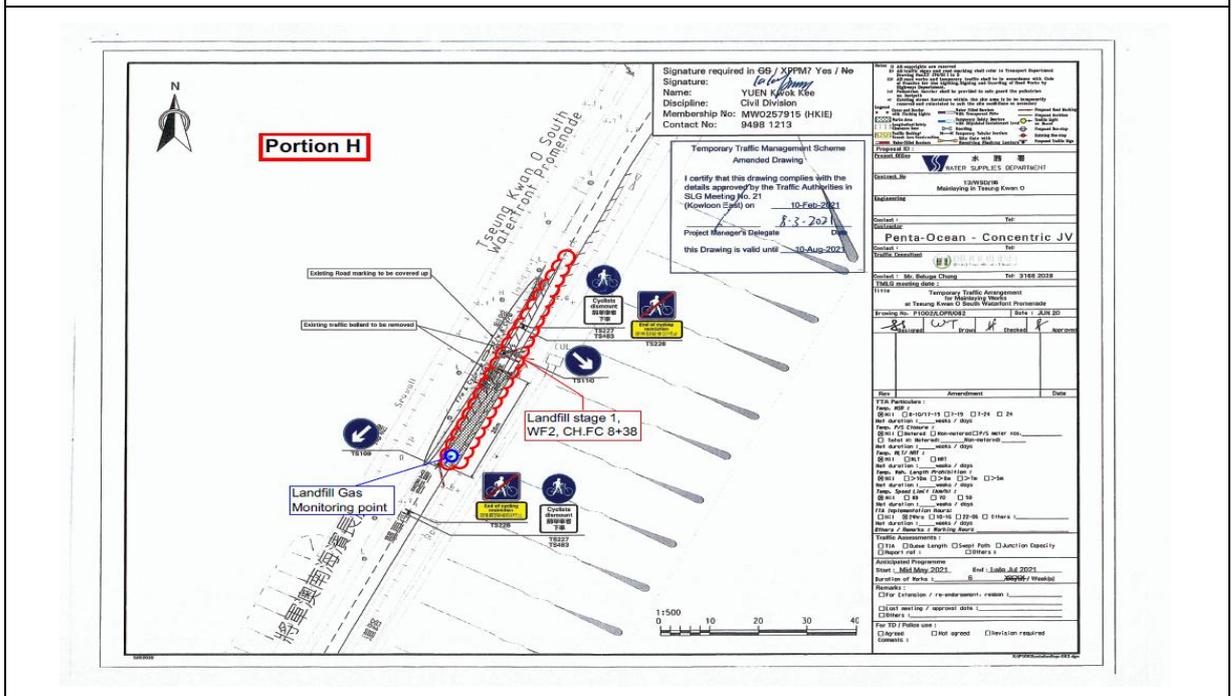


Figure 4.10d Monitoring Location – Landfill Stage 1 (FC8+38)

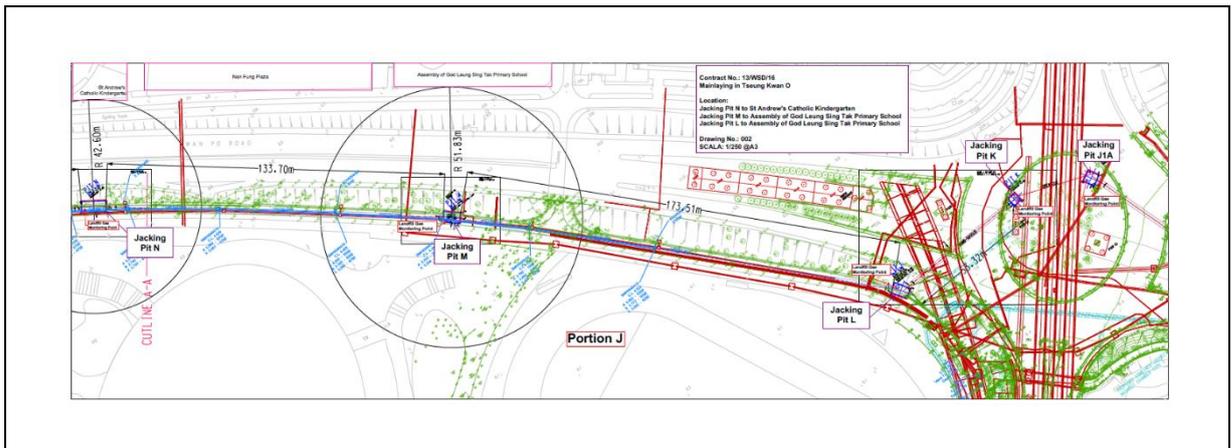


Figure 4.11a Monitoring Location – Pit L-M-N, J1A, K

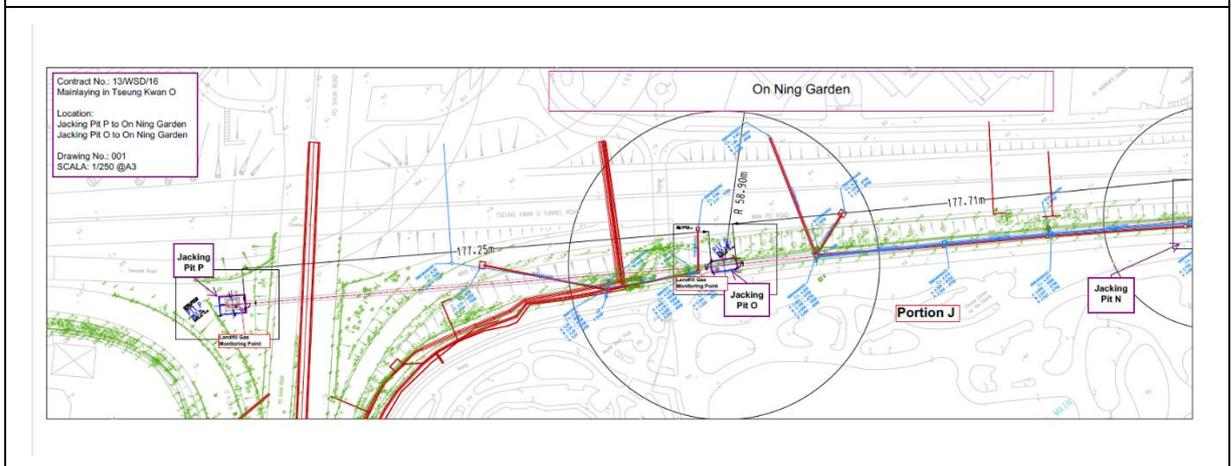


Figure 4.11b Monitoring Location – Pit N-O-P

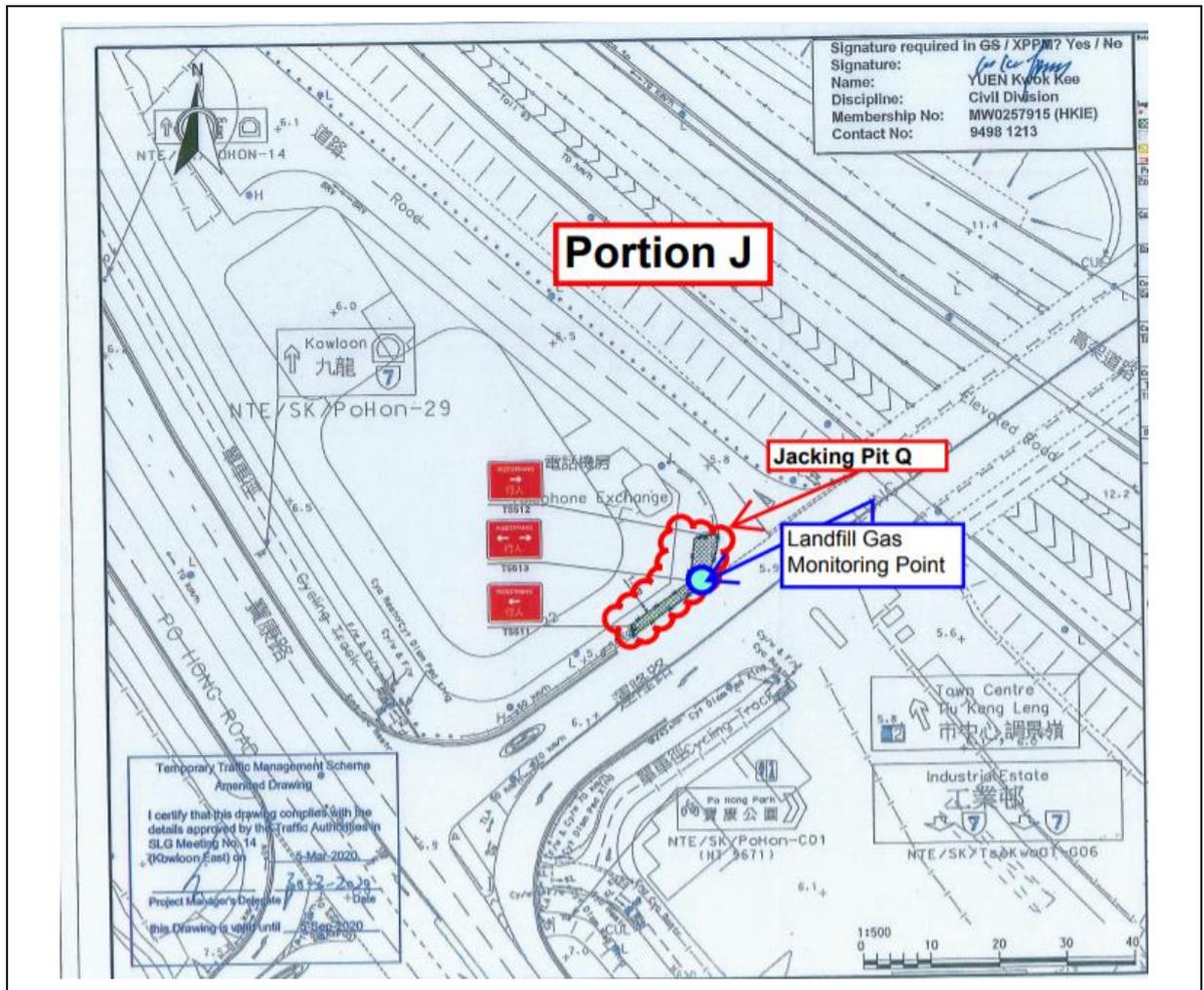


Figure 4.11c Monitoring Location – Pit Q

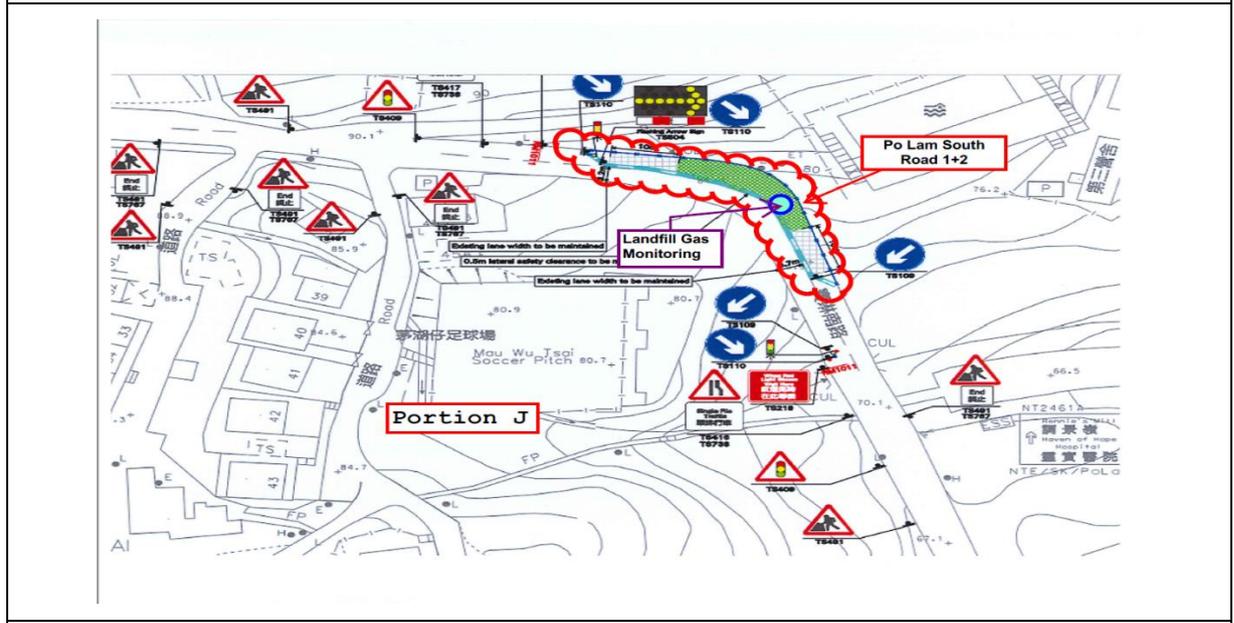


Figure 4.12 Po Lam South Road

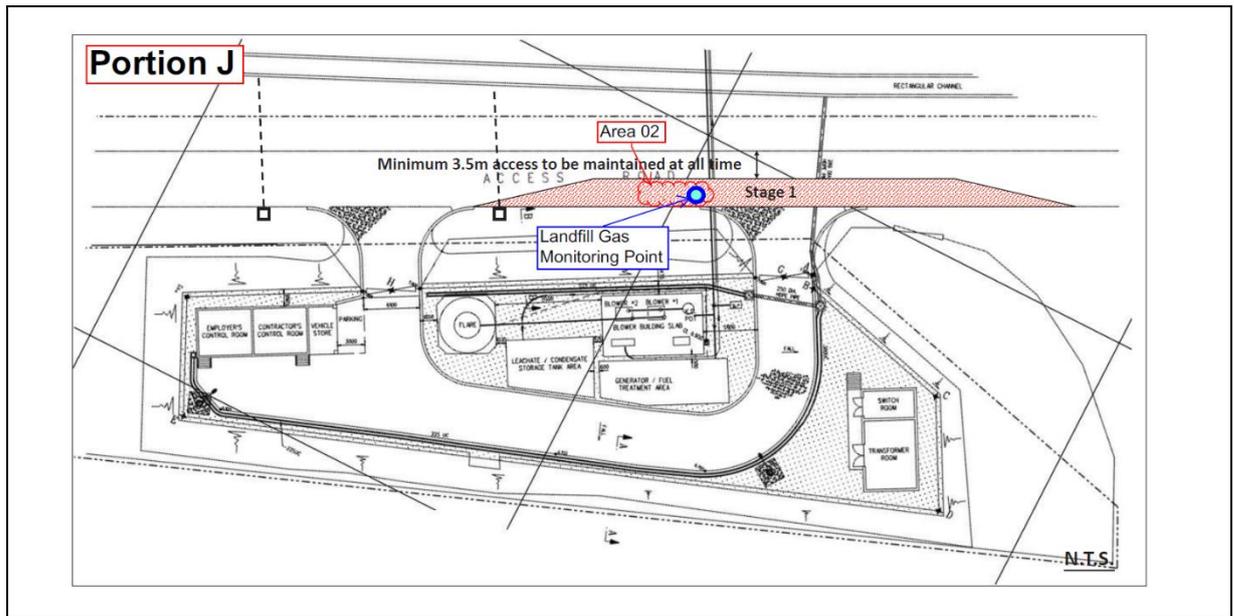


Figure 4.13 Monitoring Location – Area A02

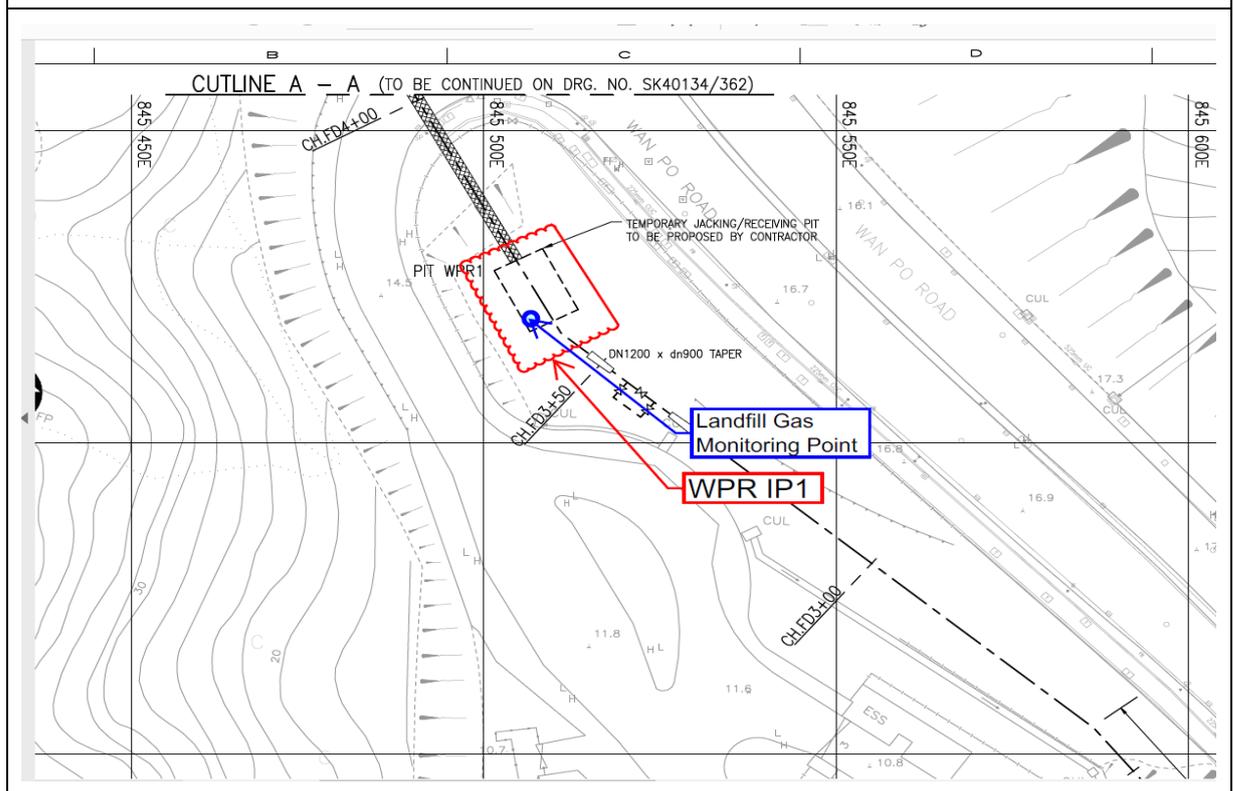


Figure 4.14 Monitoring Location – WPR IP1

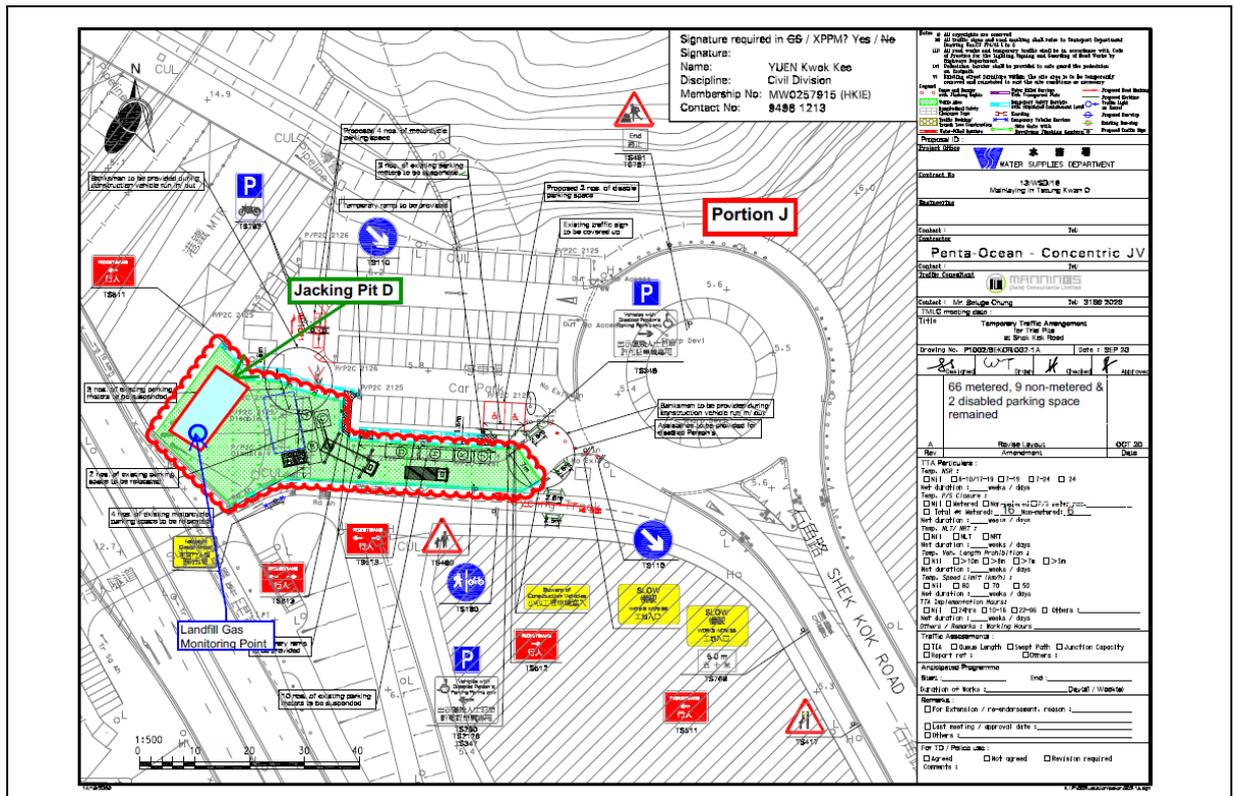


Figure 4.15 Monitoring Location – Jacking Pit D

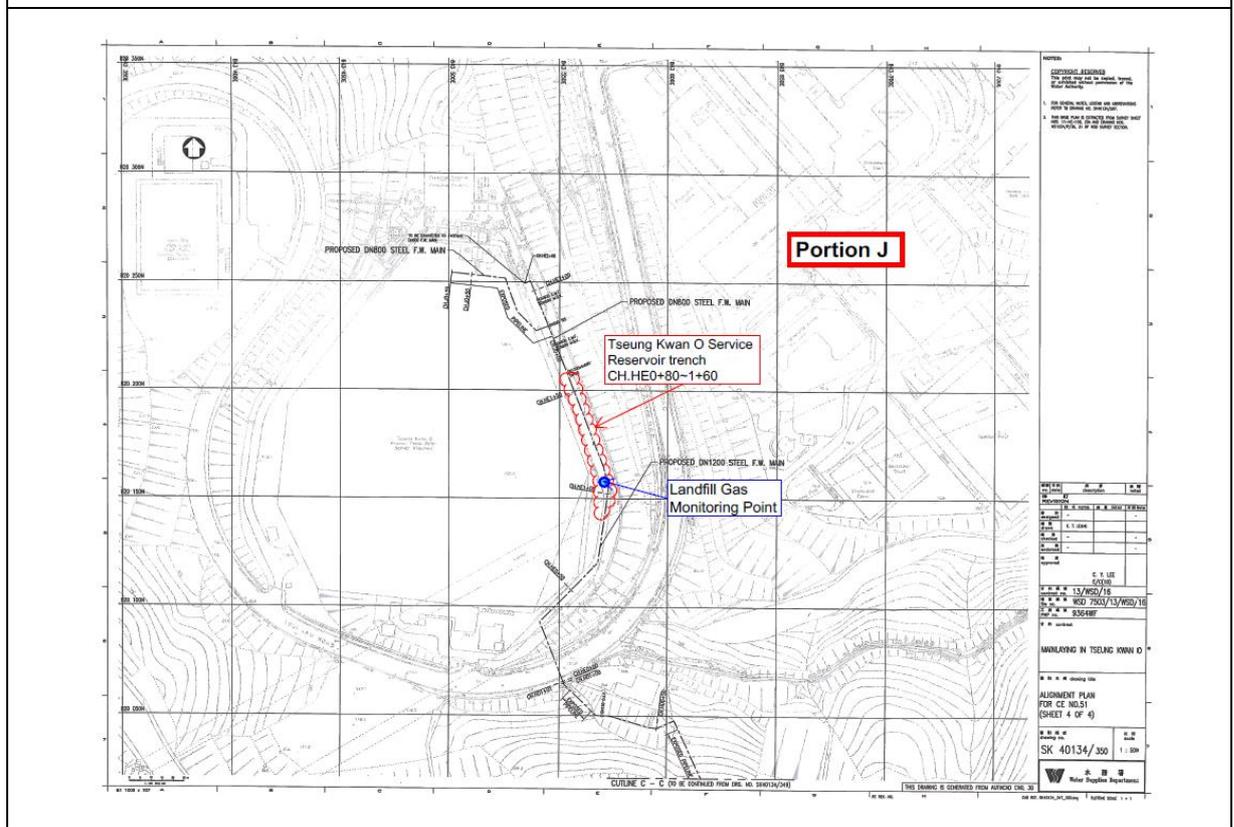


Figure 4.16 Monitoring Location – CH.HE0+80-1+60

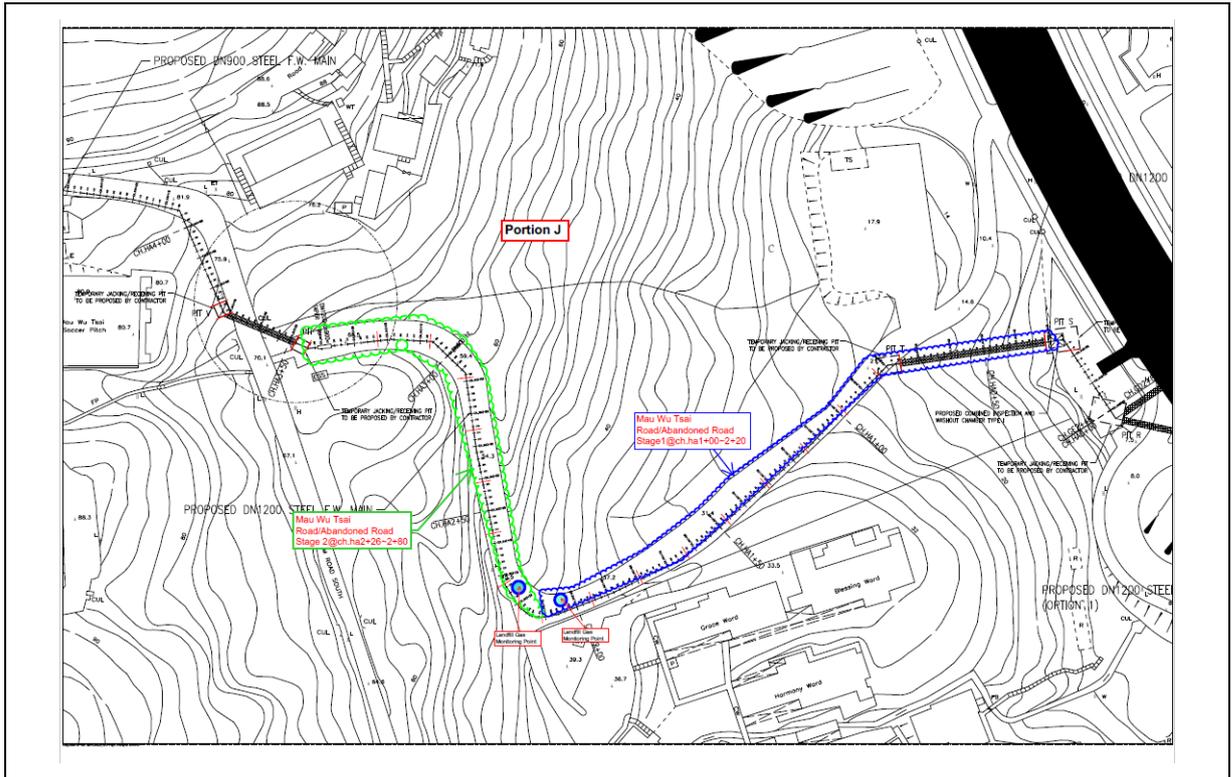


Figure 4.17 Monitoring Location – Mau Wu Tsai Abandoned Road

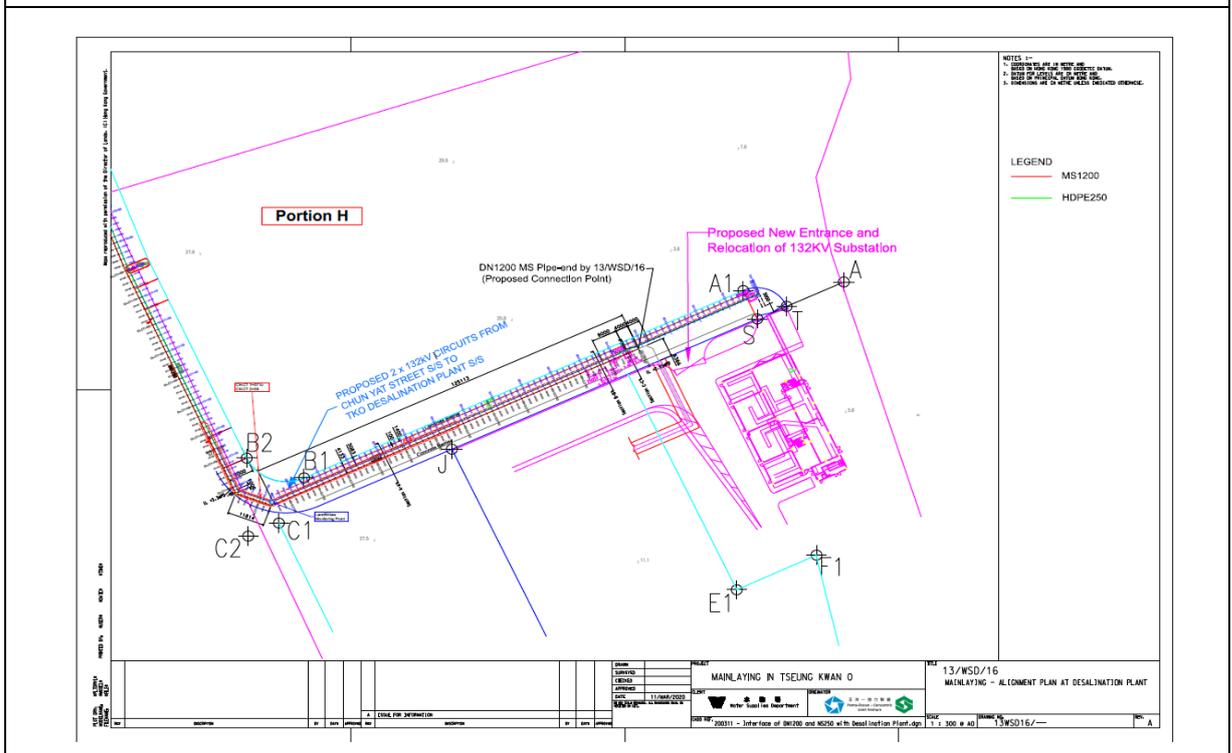


Figure 4.18a Monitoring Location - CH.CT 0+07 ~ 2+58

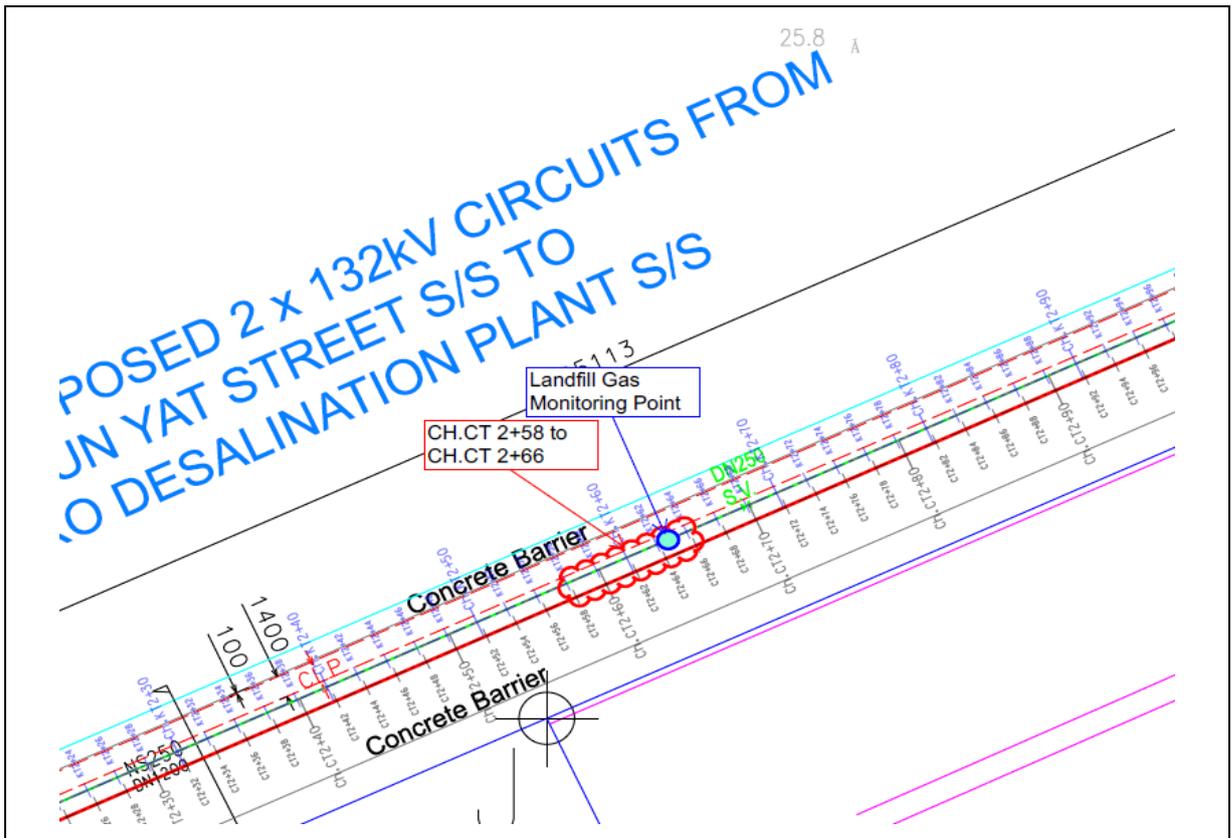


Figure 4.18b Monitoring Location - CH.CT 2+58 ~ 2+66

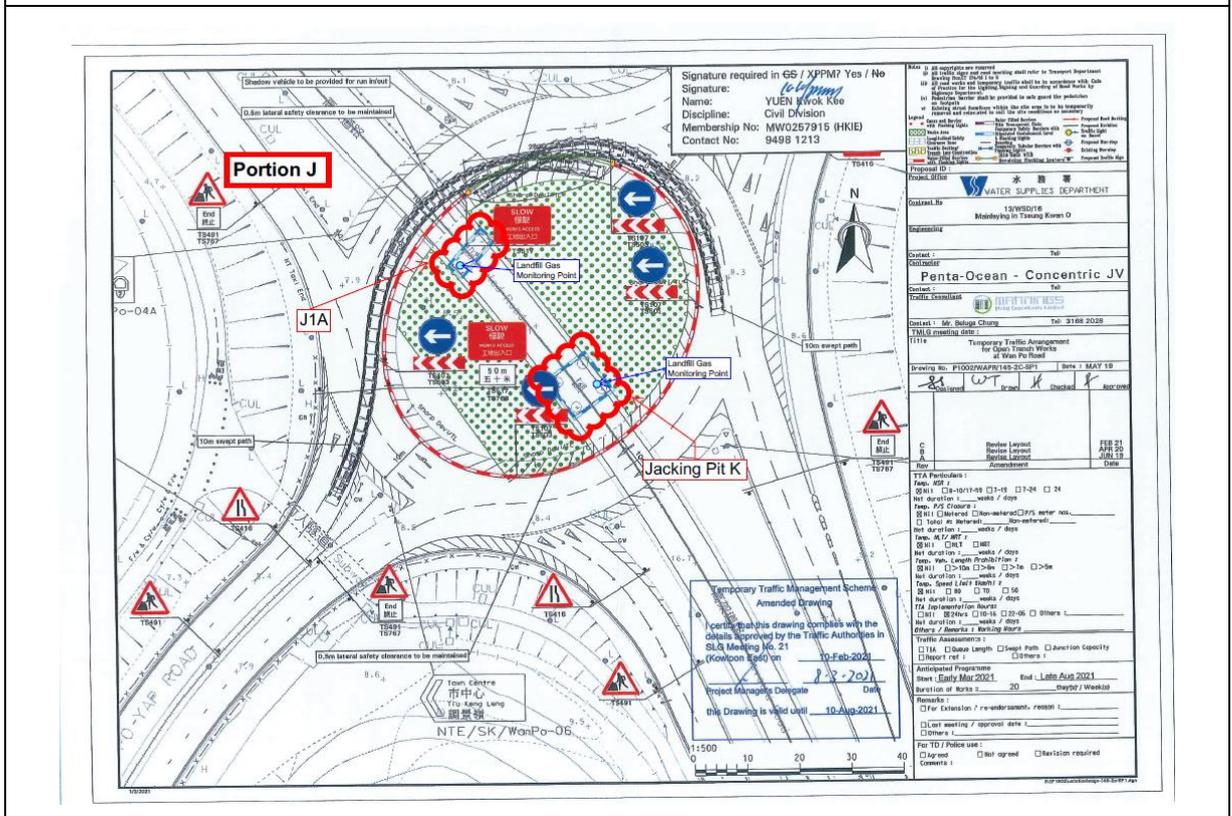


Figure 4.19 Monitoring Location – Pit K

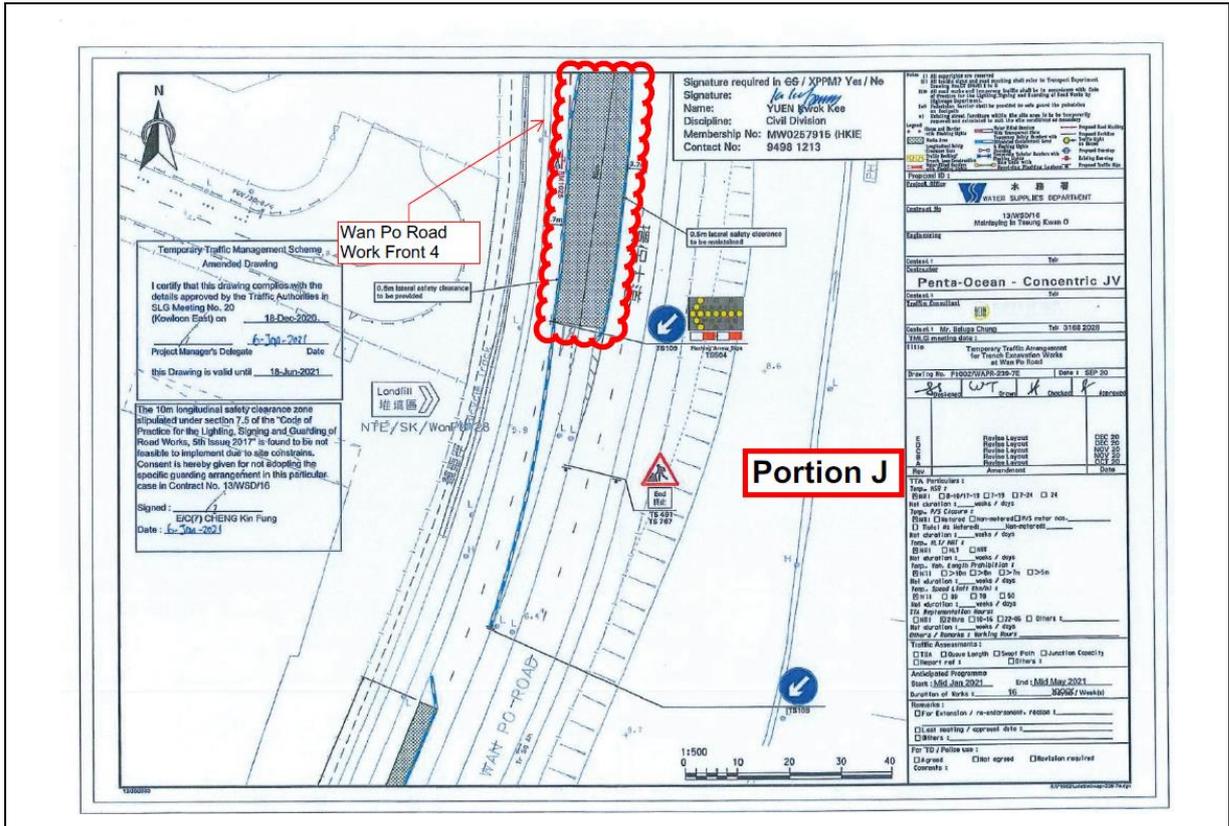


Figure 4.20a Monitoring Location – Wan Po Road 4

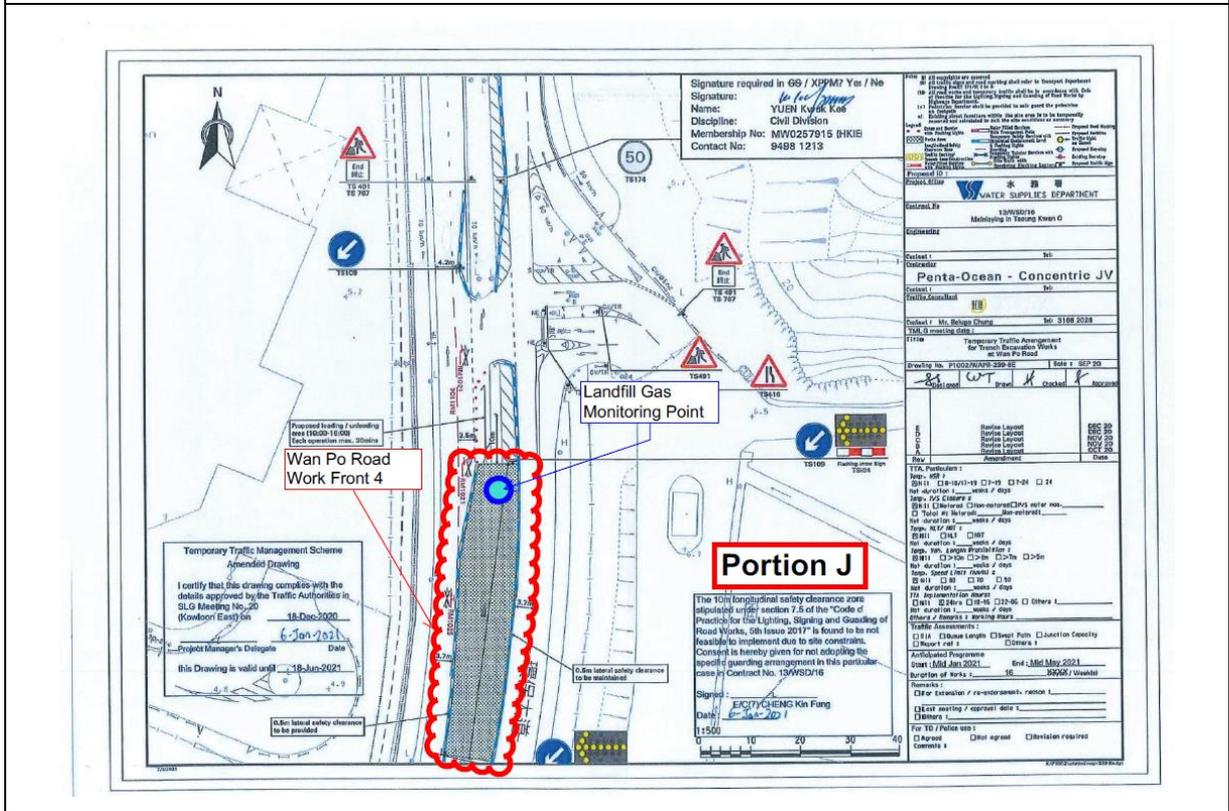


Figure 4.20b Monitoring Location – Wan Po Road 4

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 are provided in **Table 4.1**.

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

| Parameters | Action Level | Limit Level |
|-----------------------------------|-----------------------|-----------------------|
| Oxygen (O ₂) | <19% O ₂ | <19% O ₂ |
| Methane (CH ₄) | >10% LEL | >80% LEL |
| Carbon Dioxide (CO ₂) | >0.5% CO ₂ | >1.5% CO ₂ |

4.5 Monitoring Equipment

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

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

| | |
|---------------------|--|
| methane | 0-100% Lower Explosion Limit (LEL) and 0-100% v/v; |
| oxygen | 0-25% v/v; |
| carbon dioxide | 0-5% v/v; and |
| barometric pressure | mBar (absolute) |

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

| | |
|---------------------|---------------------|
| methane | >10% LEL; |
| oxygen | <19% by volume; and |
| carbon dioxide | >0.5% 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 III | 27 July 2022 |
| MultiRAE Lite | PGM-6208 | 06 April 2022 |
| Portable Gas Detector | XT-XWHM-Y-OR | 08 June 2022 |

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 of the Contractor at the excavation locations for 627 times. All the measured results were presented in **Appendix J** and were 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**:

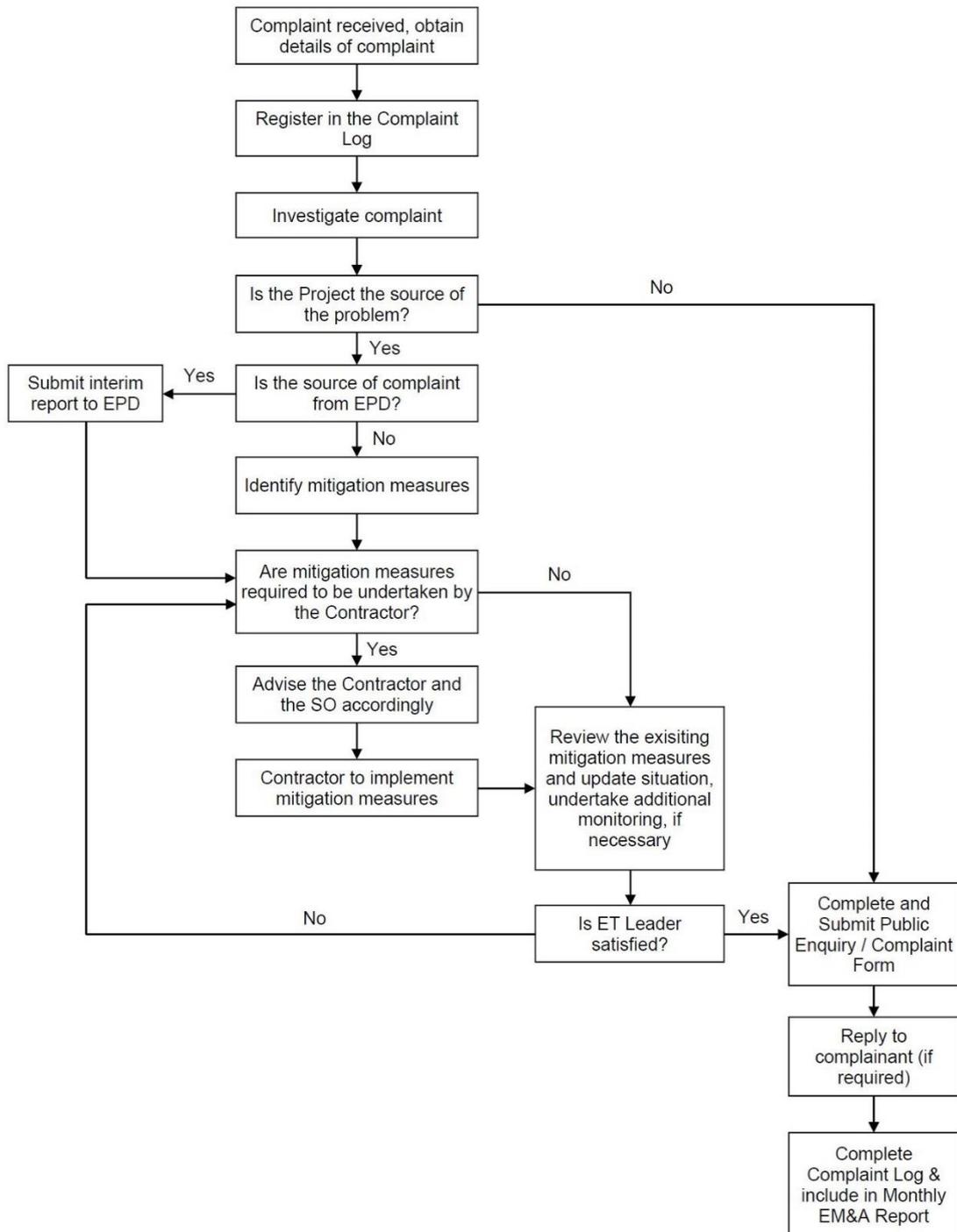


Figure 5.1 Environmental Complaint Handling Procedure

- 5.2 Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 4, 12, 18 and 24 November 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 5.3 No examinations were scheduled in the reporting month for NSR4 Creative Secondary School. Academic School Calendar can be found in **Appendix O**.
- 5.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 5.5 No project-related environmental complaint was received in the reporting month.
- 5.6 No notification of summons and prosecution was received in the reporting period.
- 5.7 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 4, 12, 18 and 24 November 2021 at the site portions list in **Table 6.1** below.

Table 6.1 Site Inspection Record

| Date | Inspected Site Portion | Time |
|------------------|-------------------------------|-------------------|
| 04 November 2021 | Portion F and J | 10:00am – 12:30pm |
| 12 November 2021 | Portion J | 09:35am – 10:30am |
| 18 November 2021 | Portion J | 09:15am – 12:00pm |
| 24 November 2021 | Portion J | 09:30am – 11:30am |

- 6.2 One joint site inspection with IEC was carried out on 18 November 2021.
- 6.3 Minor deficiencies were observed during weekly site inspections. Key observations during the site inspections are summarized in **Table 6.2**.

Table 6.2 Site Observations

| Date | Environmental Observations | Follow-up Status |
|------------------|---|--|
| 04 November 2021 | <ol style="list-style-type: none"> 1. The outfall of the sedimentation tank was installed at the inaccurate level. The Main Contractor was reminded to rectify of which the outfall should be at high level (Pit D) (Wan Po Road 4) 2. The Main Contractor was reminded that no water | <ol style="list-style-type: none"> 1. The outfall of the sedimentation tank was installed at a correct level and no water was discharged from the construction site. 2. There was no water discharge in work front. 3. Sandbags were added under construction boundaries. 4. Chemicals were placed on drip tray. |

| Date | Environmental Observations | Follow-up Status |
|------------------|--|---|
| | should be discharged without treatment at Jacking Pit A and Wan Po Road 4 3. Construction boundaries were not protected by sandbags at Wan Po Road 1. 4. The Main Contractor was reminded that chemicals should be placed on drip tray at Wan Po Road 2. 5. Dusty mitigation measures should be implemented at Wan Po Road 2. | 5. Dusty materials were cleaned. |
| 12 November 2021 | 1. No NRMM label was observed at the NRMM at Po Lam South Road. | 1. The Excavator was changed and NRMN label was added. |
| 18 November 2021 | 1. No major observations were noted on the reporting day. | |
| 24 November 2021 | 1. The Main Contractor was reminded that no water should be discharged without treatment at Pit D and Jacking Pit A. 2. Construction boundaries were observed not protected by sandbags fully at Pit A, Wan Po Road 1 | 1. There was no water discharge in work front. 2. Sandbags were added under construction boundaries. |

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 that will be anticipated in the next reporting period for the Project are shown in **Table 7.1**.

Table 7.1. Key works for the next reporting month

| Location | Location | Forecast Works in Next Reporting Month |
|-------------------------------|--|--|
| Portion H of the Project Site | TKO 137 Pit A | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| | TKO 137 Pit B | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| | TKO 137 Pit C | <ul style="list-style-type: none"> Site clearance for pipe jacking works will be conducted. Preparation works for pipe laying will be conducted. |
| Portion J of the Project Site | Wan Po Rd – Workfront 1 | <ul style="list-style-type: none"> Mini piling works for ELS of receiving pit construction will be conducted. |
| | Wan Po Rd – Workfront 2 | <ul style="list-style-type: none"> Mini piling works for ELS of jacking pit construction will be conducted. |
| | Wan Po Rd – Workfront 3 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Wan Po Rd – Workfront 4 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Wan Po Rd – Pit A | <ul style="list-style-type: none"> Remedial works for pit will be conducted. |
| | Wan Po Rd – Pit B | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking will be conducted. TBM pipe jacking will be commenced. |
| | Wan Po Rd – Pit D | <ul style="list-style-type: none"> Preparation works for TBM pipe jacking will be conducted. TBM pipe jacking will be commenced. |
| | Landfill Stage 1 – Area A | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Pet Garden’s Road | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Landfill Stage 1 – Area B | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Pung Loi Road – Pit WPR1 | <ul style="list-style-type: none"> Sheetpile driving works for pit ELS will be conducted. |
| | Roundabout – Pit G1A | <ul style="list-style-type: none"> Pit excavation and ELS works will be conducted. |
| Velodrome – Pit K | <ul style="list-style-type: none"> Preparation works for pipe laying will be conducted. | |

| Location | Location | Forecast Works in Next Reporting Month |
|----------|-------------------------------|---|
| | Velodrome – Pit L-Pit M | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Velodrome – Pit M | <ul style="list-style-type: none"> Hand-shield pipe jacking works will be conducted. |
| | Velodrome – Pit N | <ul style="list-style-type: none"> Site clearance works will be conducted. |
| | Velodrome – Pit O to Pit N | <ul style="list-style-type: none"> Site clearance works will be conducted. |
| | Velodrome – Pit P | <ul style="list-style-type: none"> TBM pipe jacking will be continued. |
| | Mau Wu Tsai – Workfront 2 | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Po Lam Road South | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |
| | Po Lam Road (C2) | <ul style="list-style-type: none"> Pre-drilling works for mini piling of pipe bridge at Location A westside slope will be conducted. Mini piling works for Location A westside slope will be commenced. |
| | Po Lam Road (B4) | <ul style="list-style-type: none"> Trench rock breaking works will be conducted. |
| | TKO Primary Service Reservoir | <ul style="list-style-type: none"> Trench excavation and pipe laying works will be conducted. |

7.2 The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, drilling activities, TBM break through, sheetpiling works and excavation works.
- Waste generation from construction activities
- Impact on water quality 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 saw cutting of concrete surface, mainlaying of pipes, drilling activities, TBM break through, sheetpiling works and excavation works.
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste
- Treatment of wastewater with water treatment facilities before discharge

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 tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.

8. CONCLUSION AND RECOMMENDATIONS

- 8.1 This is the 40th monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 November 2021 to 30 November 2021, in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 8.2 Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 4, 12, 18 and 25 November 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 8.3 No examinations were scheduled in the reporting month for NSR4 Creative Secondary School. Academic School Calendar can be found in **Appendix O**.
- 8.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 8.5 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.
- 8.6 According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, water treatment facilities, dust suppression mitigations and proper materials storage.
- 8.7 No project-related environmental complaint was received in the reporting month.
- 8.8 No notification of summons or prosecution was received since the commencement of the Contract.
- 8.9 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

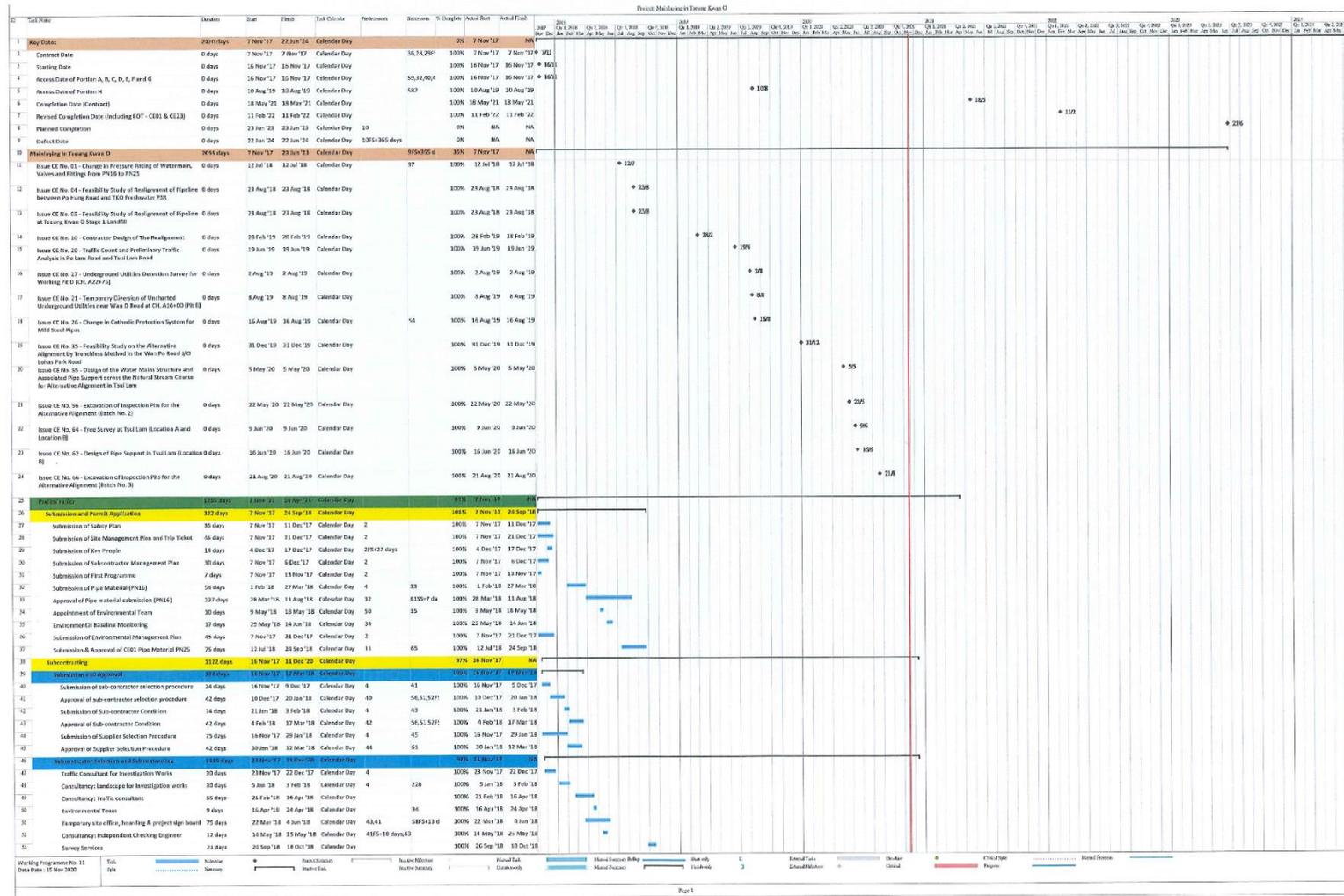
Construction Programme

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.40

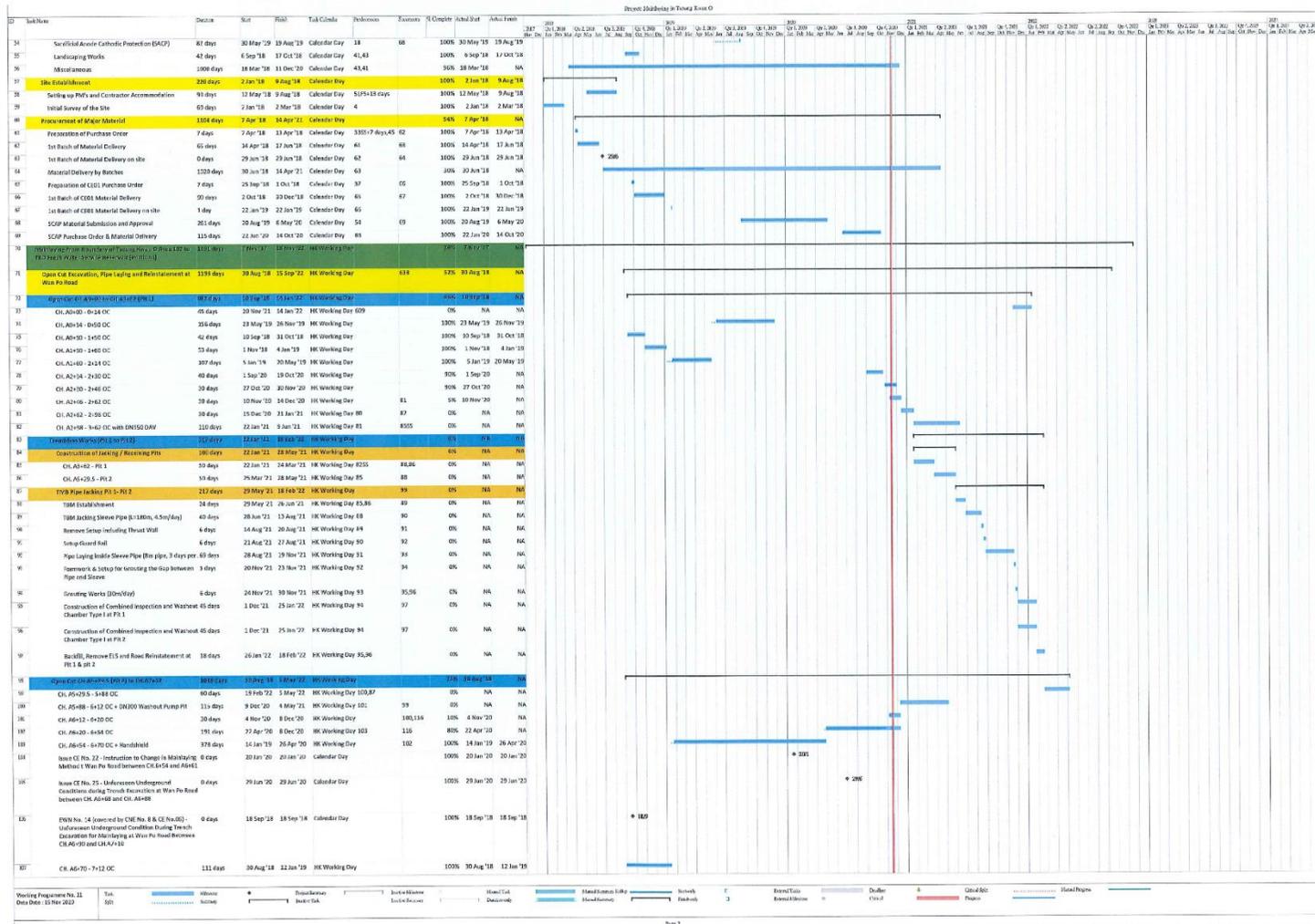


| Project: Mainlaying in Tseung Kwan O | | | | | | | | | |
|---|-----------|------------|------------|---------------|--------------|------------|------------|--------------|---------------|
| Task Name | Duration | Start | Finish | Task Category | Predecessors | Successors | % Complete | Actual Start | Actual Finish |
| 1 Key Dates | 2420 days | 7 Nov '17 | 22 Jun '24 | Calendar Day | | | 0% | 7 Nov '17 | N/A |
| 2 Contract Date | 0 days | 7 Nov '17 | 7 Nov '17 | Calendar Day | | | 100% | 7 Nov '17 | 7 Nov '17 |
| 3 Starting Date | 0 days | 16 Nov '17 | 16 Nov '17 | Calendar Day | | | 100% | 16 Nov '17 | 16 Nov '17 |
| 4 Access Date of Portion A, B, C, D, E, F and G | 0 days | 16 Nov '17 | 16 Nov '17 | Calendar Day | | | 100% | 16 Nov '17 | 16 Nov '17 |
| 5 Access Date of Portion H | 0 days | 10 Aug '19 | 10 Aug '19 | Calendar Day | | | 100% | 10 Aug '19 | 10 Aug '19 |
| 6 Completion Date (Contract) | 0 days | 18 May '21 | 18 May '21 | Calendar Day | | | 100% | 18 May '21 | 18 May '21 |
| 7 Revised Completion Date (Including EOT - CE21 & CE23) | 0 days | 11 Feb '22 | 11 Feb '22 | Calendar Day | | | 100% | 11 Feb '22 | 11 Feb '22 |
| 8 Planned Completion | 0 days | 23 Jun '23 | 23 Jun '23 | Calendar Day | 10 | | 0% | NA | NA |
| 9 Defect Date | 0 days | 22 Jun '24 | 22 Jun '24 | Calendar Day | 10 | | 0% | NA | NA |
| 10 Mainlaying in Tseung Kwan O | 2055 days | 7 Nov '17 | 23 Jun '23 | Calendar Day | | | 35% | 7 Nov '17 | N/A |
| 11 Issue CE No. 03 - Change in Pressure Rating of Watermain, Valves and Fittings from P100 to P162 | 0 days | 12 Jul '18 | 12 Jul '18 | Calendar Day | | | 37 | 12 Jul '18 | 12 Jul '18 |
| 12 Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freshwater PSR | 0 days | 23 Aug '18 | 23 Aug '18 | Calendar Day | | | 100% | 23 Aug '18 | 23 Aug '18 |
| 13 Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Kwan O Stage 1 Landfill | 0 days | 23 Aug '18 | 23 Aug '18 | Calendar Day | | | 100% | 23 Aug '18 | 23 Aug '18 |
| 14 Issue CE No. 10 - Contractor Design of Trench Realignment | 0 days | 28 Feb '19 | 28 Feb '19 | Calendar Day | | | 100% | 28 Feb '19 | 28 Feb '19 |
| 15 Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road | 0 days | 19 Jun '19 | 19 Jun '19 | Calendar Day | | | 100% | 19 Jun '19 | 19 Jun '19 |
| 16 Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH A22+75) | 0 days | 2 Aug '19 | 2 Aug '19 | Calendar Day | | | 100% | 2 Aug '19 | 2 Aug '19 |
| 17 Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan O Road at CL A15+00 (P18 B) | 0 days | 8 Aug '19 | 8 Aug '19 | Calendar Day | | | 100% | 8 Aug '19 | 8 Aug '19 |
| 18 Issue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes | 0 days | 16 Aug '19 | 16 Aug '19 | Calendar Day | | | 51 | 16 Aug '19 | 16 Aug '19 |
| 19 Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road I/O Lohas Park Road | 0 days | 31 Dec '19 | 31 Dec '19 | Calendar Day | | | 100% | 31 Dec '19 | 31 Dec '19 |
| 20 Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam | 0 days | 5 May '20 | 5 May '20 | Calendar Day | | | 100% | 5 May '20 | 5 May '20 |
| 21 Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2) | 0 days | 22 May '20 | 22 May '20 | Calendar Day | | | 100% | 22 May '20 | 22 May '20 |
| 22 Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B) | 0 days | 9 Jun '20 | 9 Jun '20 | Calendar Day | | | 100% | 9 Jun '20 | 9 Jun '20 |
| 23 Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B) | 0 days | 16 Jun '20 | 16 Jun '20 | Calendar Day | | | 100% | 16 Jun '20 | 16 Jun '20 |
| 24 Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3) | 0 days | 21 Aug '20 | 21 Aug '20 | Calendar Day | | | 100% | 21 Aug '20 | 21 Aug '20 |
| 25 Preliminaries | 355 days | 7 Nov '17 | 19 Aug '18 | Calendar Day | | | 100% | 7 Nov '17 | 19 Aug '18 |
| 26 Submission and Permit Application | 321 days | 7 Nov '17 | 24 Sep '18 | Calendar Day | | | 100% | 7 Nov '17 | 24 Sep '18 |
| 28 Subcontracting | 1122 days | 16 Nov '17 | 11 Dec '20 | Calendar Day | | | 97% | 16 Nov '17 | NA |
| 29 Submission and Approval | 177 days | 16 Nov '17 | 17 Nov '18 | Calendar Day | | | 100% | 16 Nov '17 | 17 Nov '18 |
| 45 Subcontractor Selection and Subcontracting | 1153 days | 23 Nov '17 | 11 Dec '20 | Calendar Day | | | 97% | 23 Nov '17 | NA |

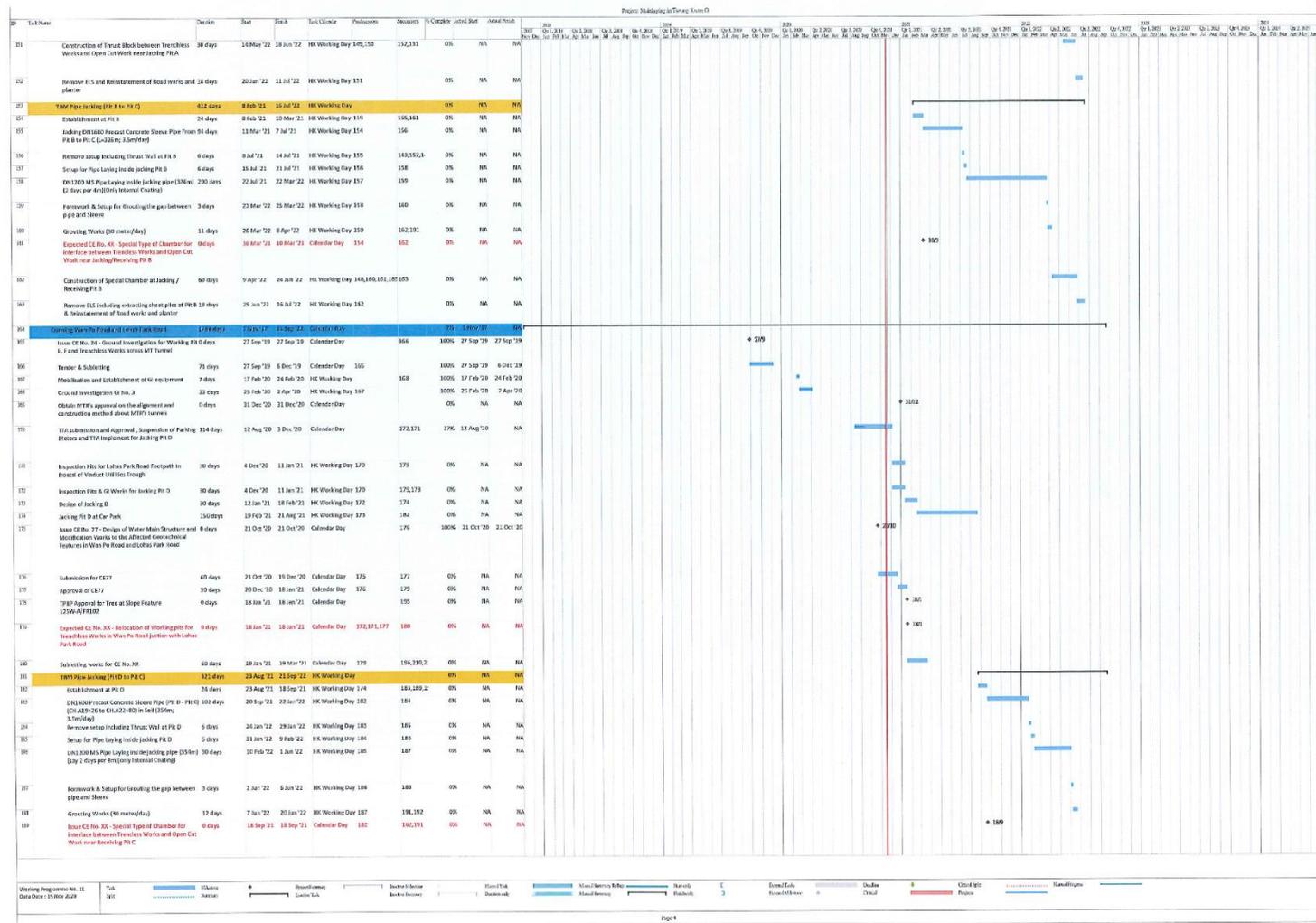
Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.40



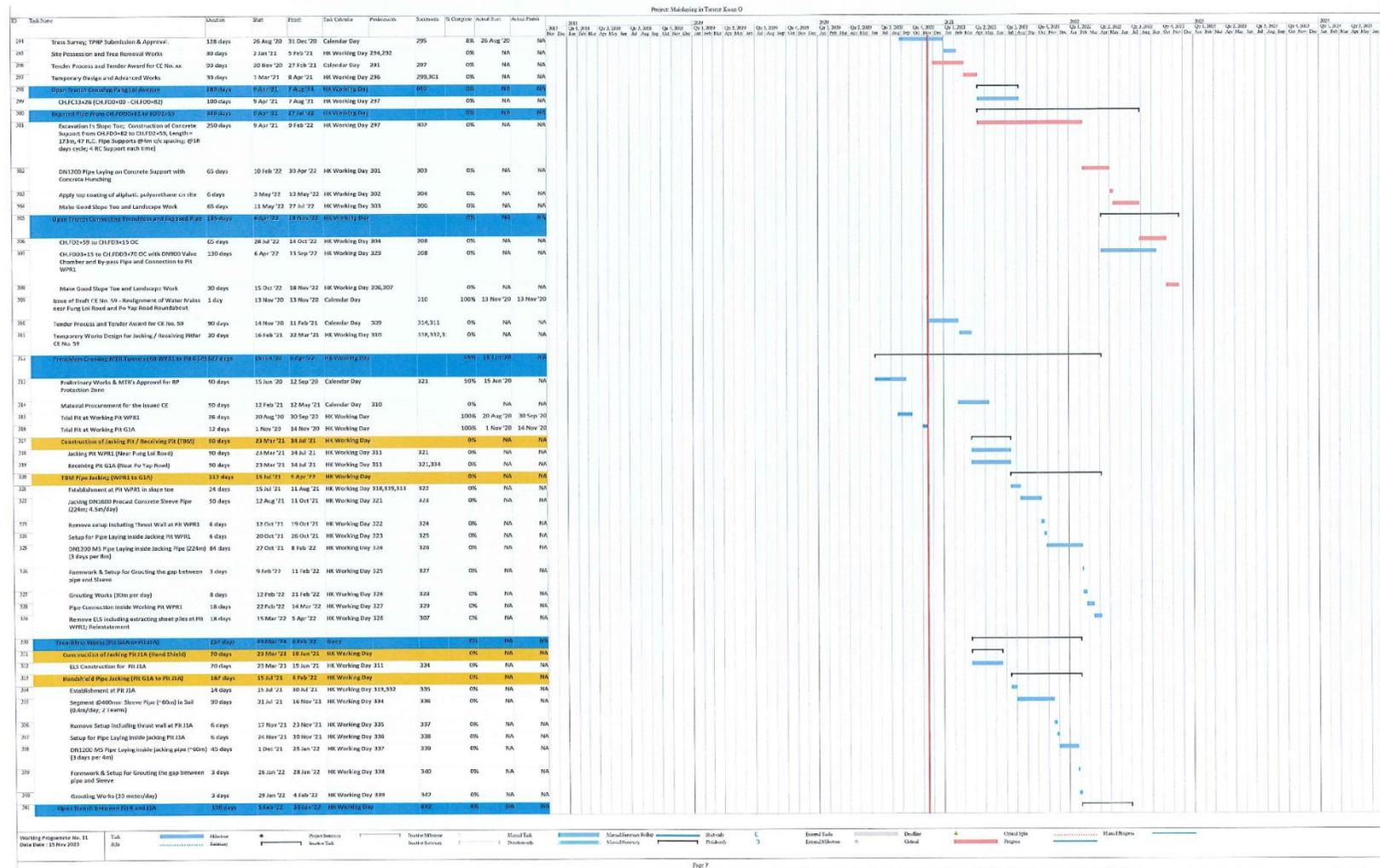
Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.40



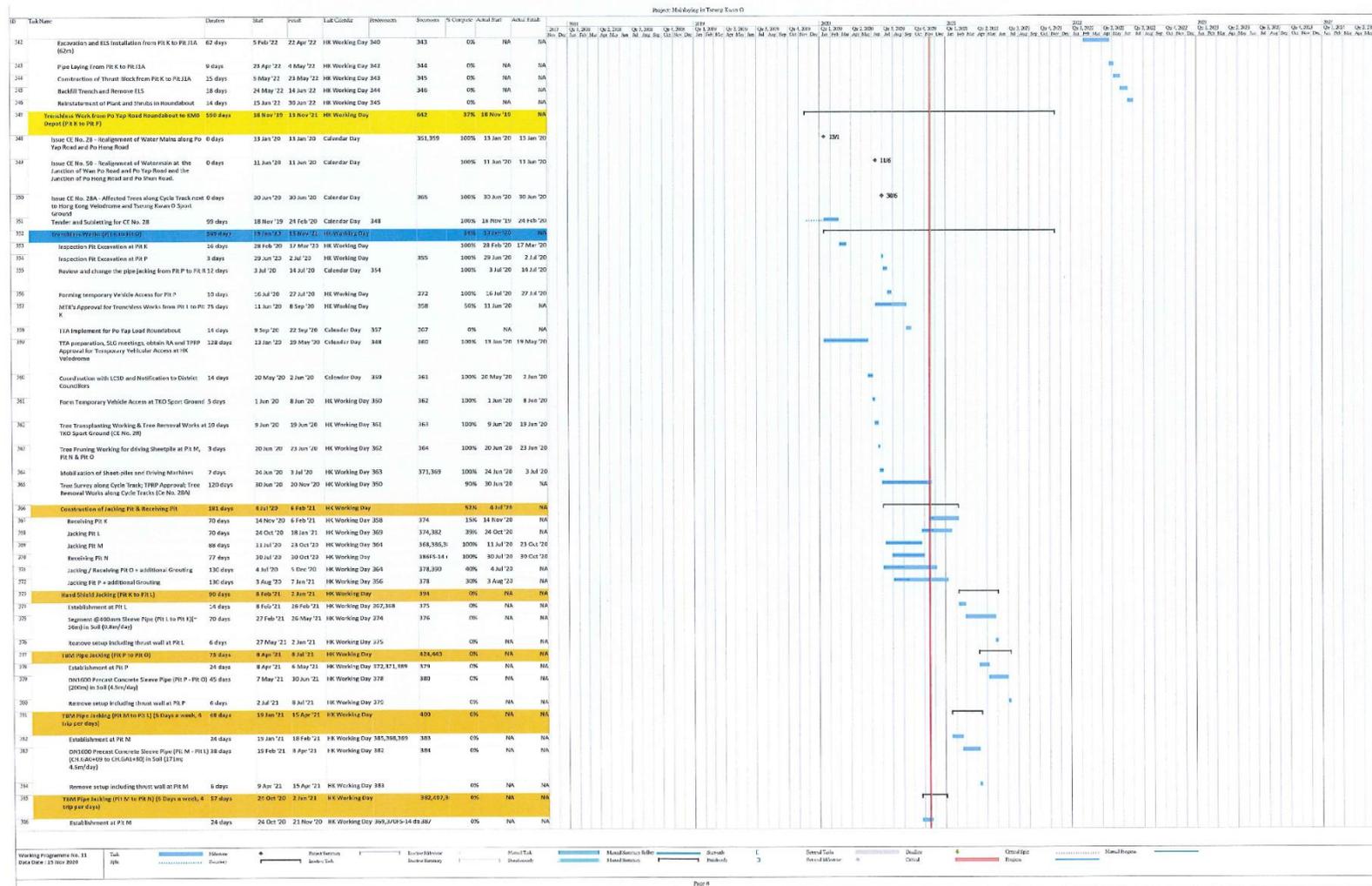
Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



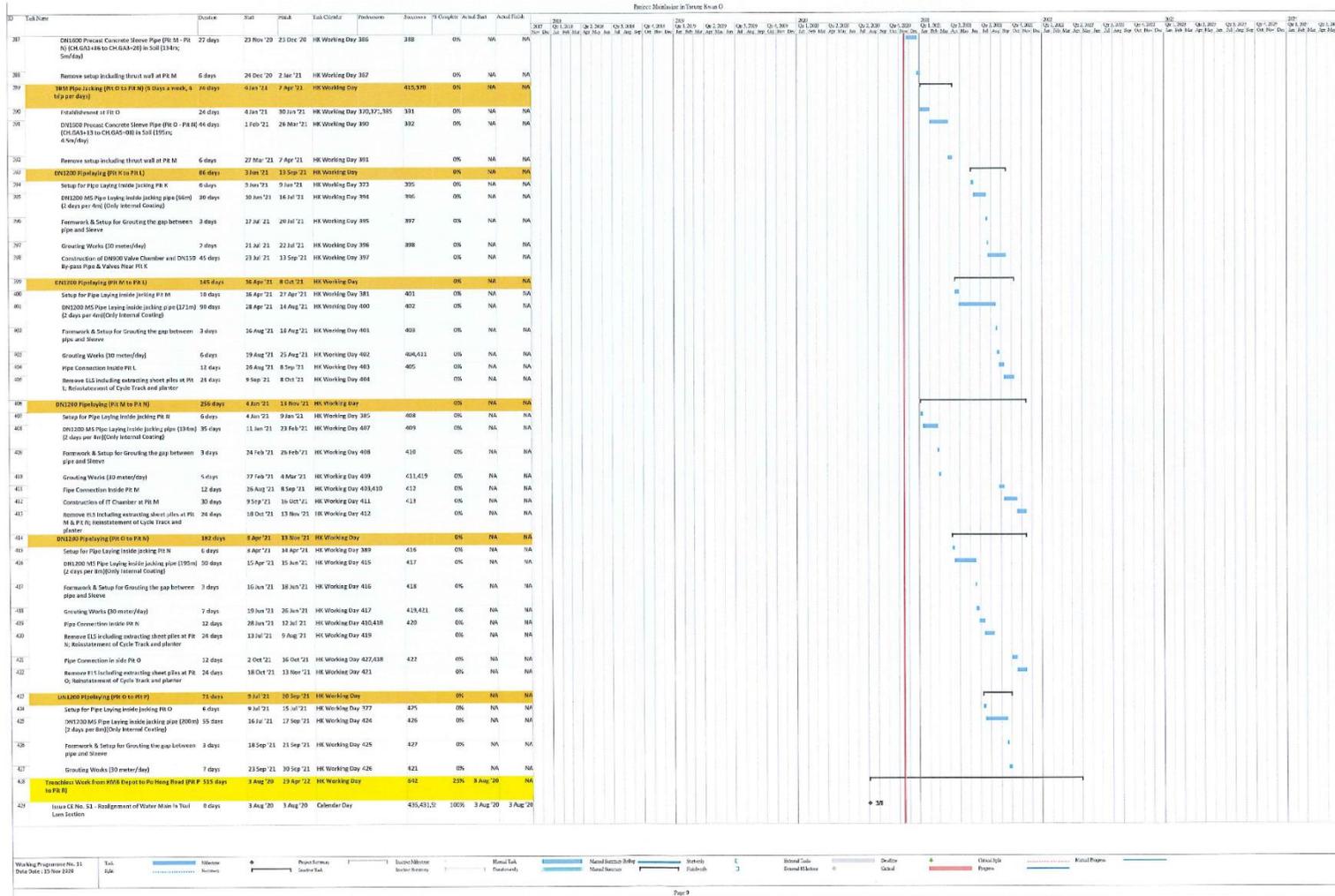
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Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.40



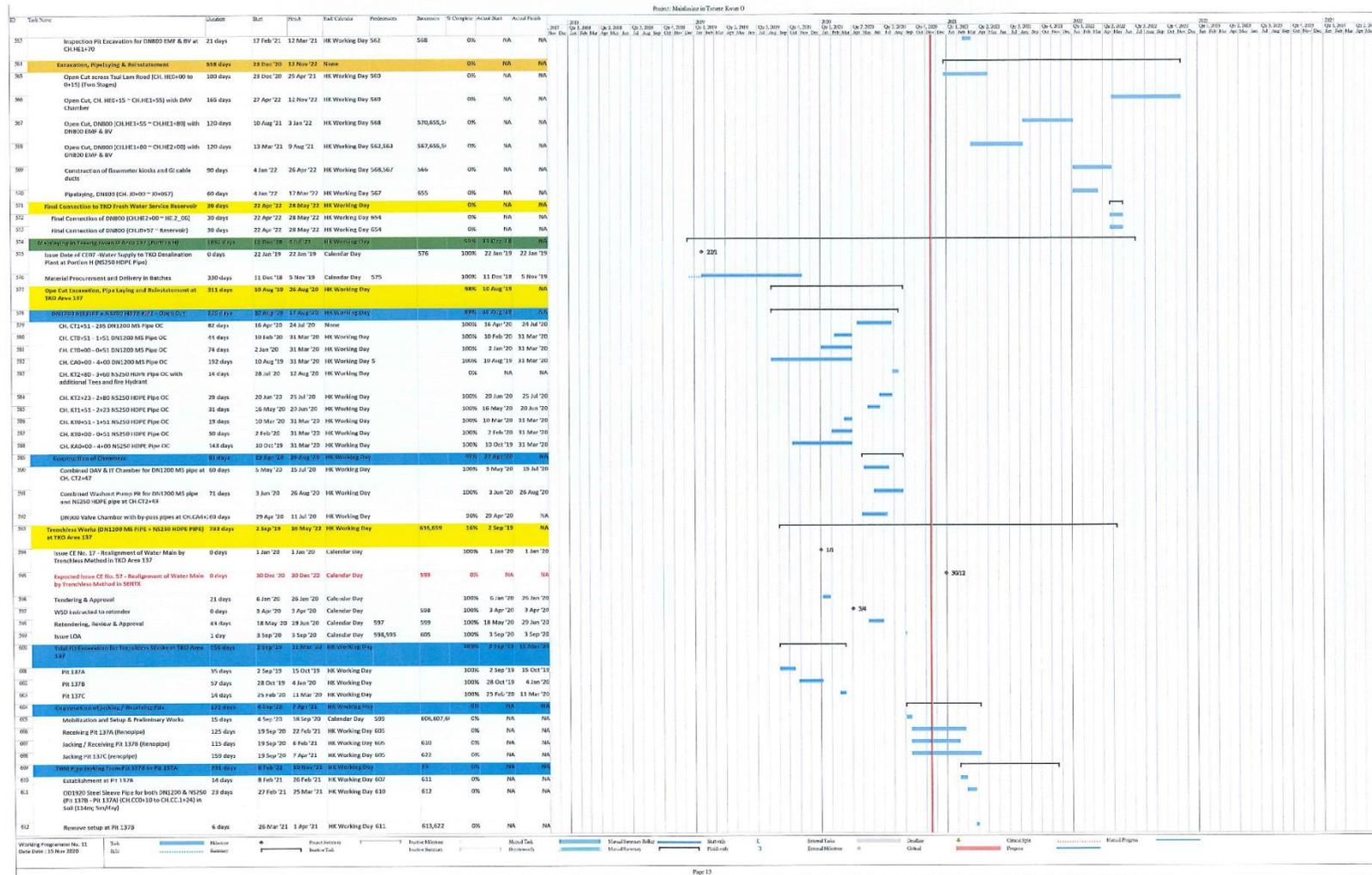
Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.40



Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



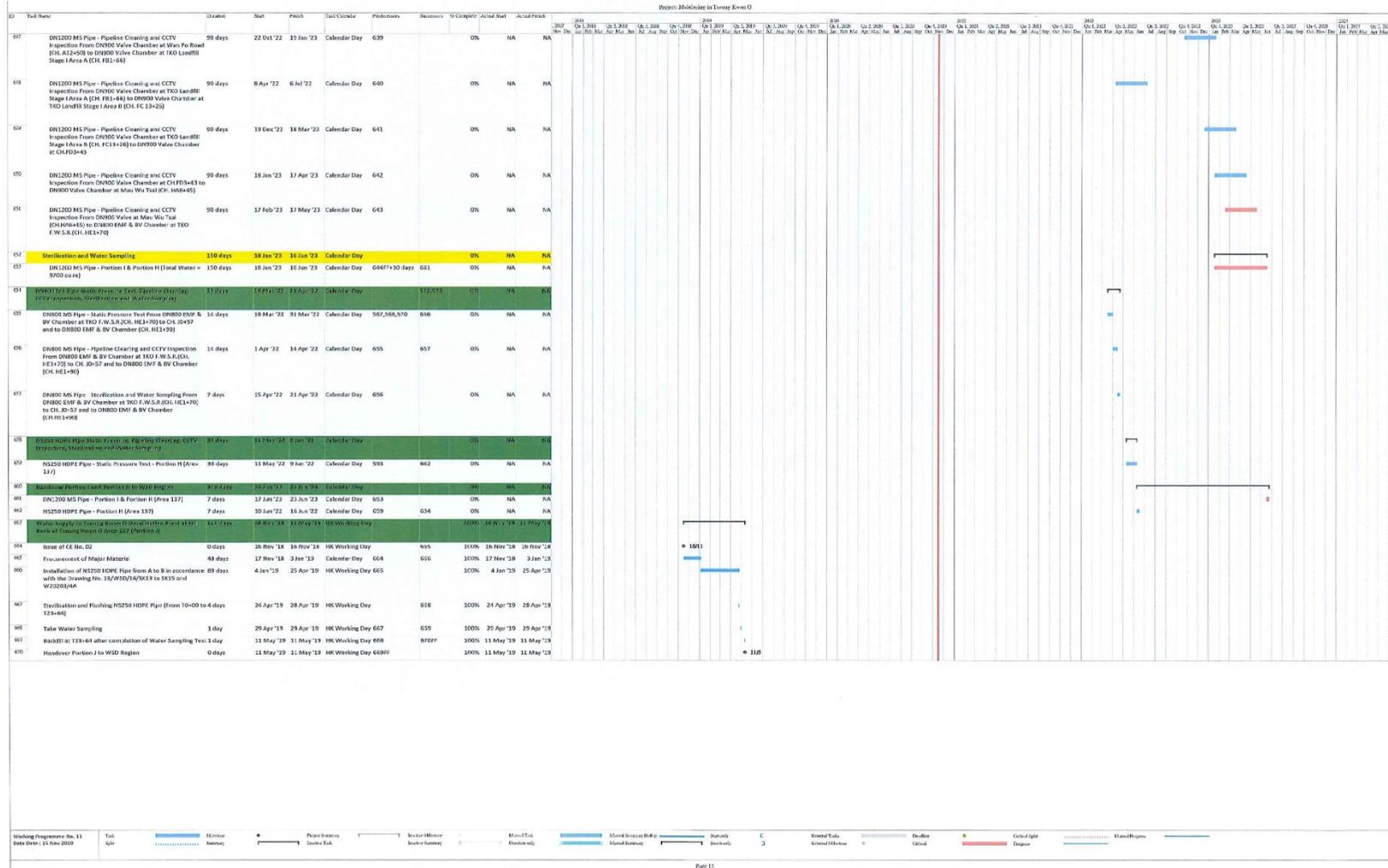
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Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

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Appendix B

Overview of Mainlaying in Tseung Kwan O

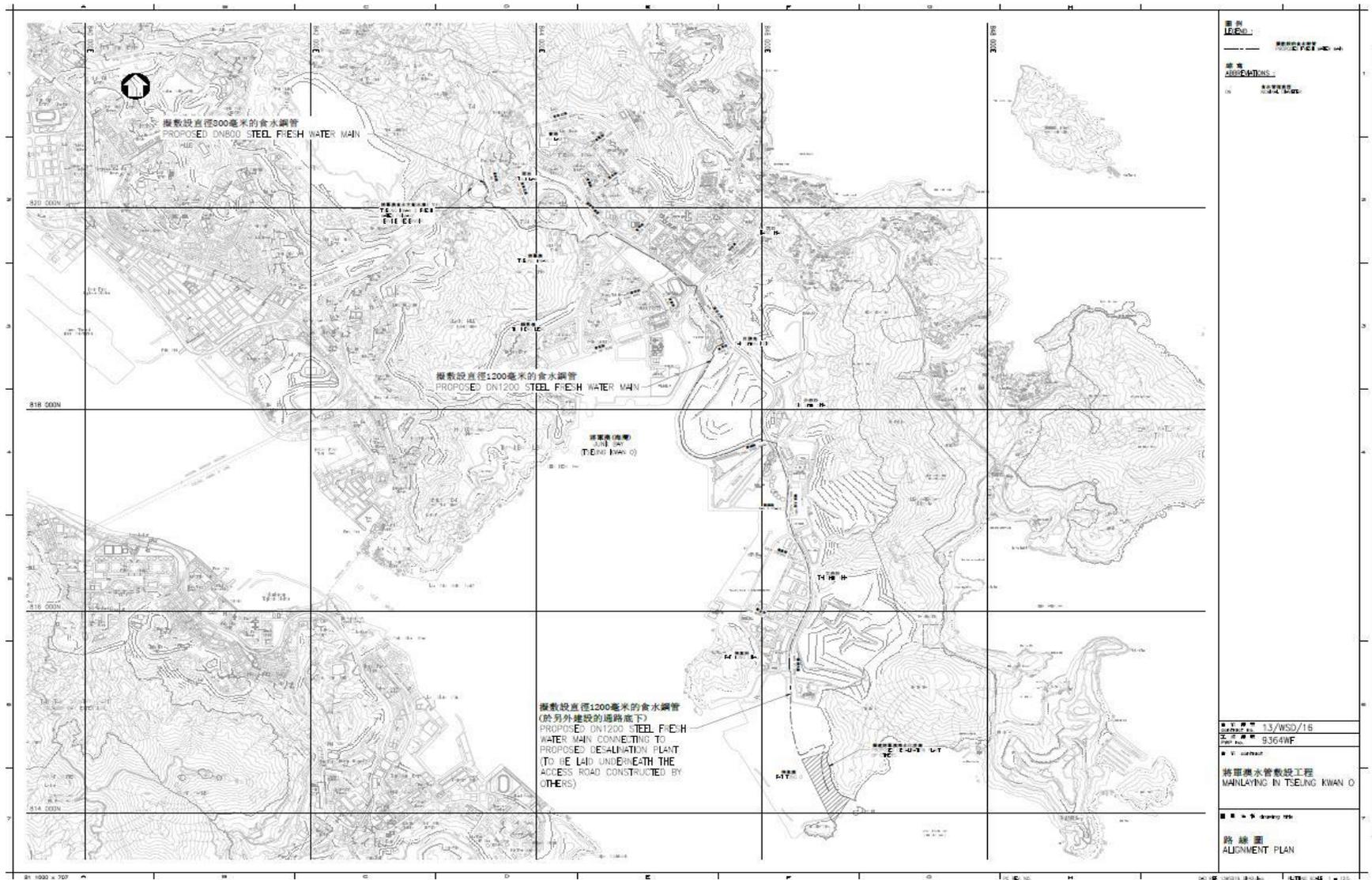
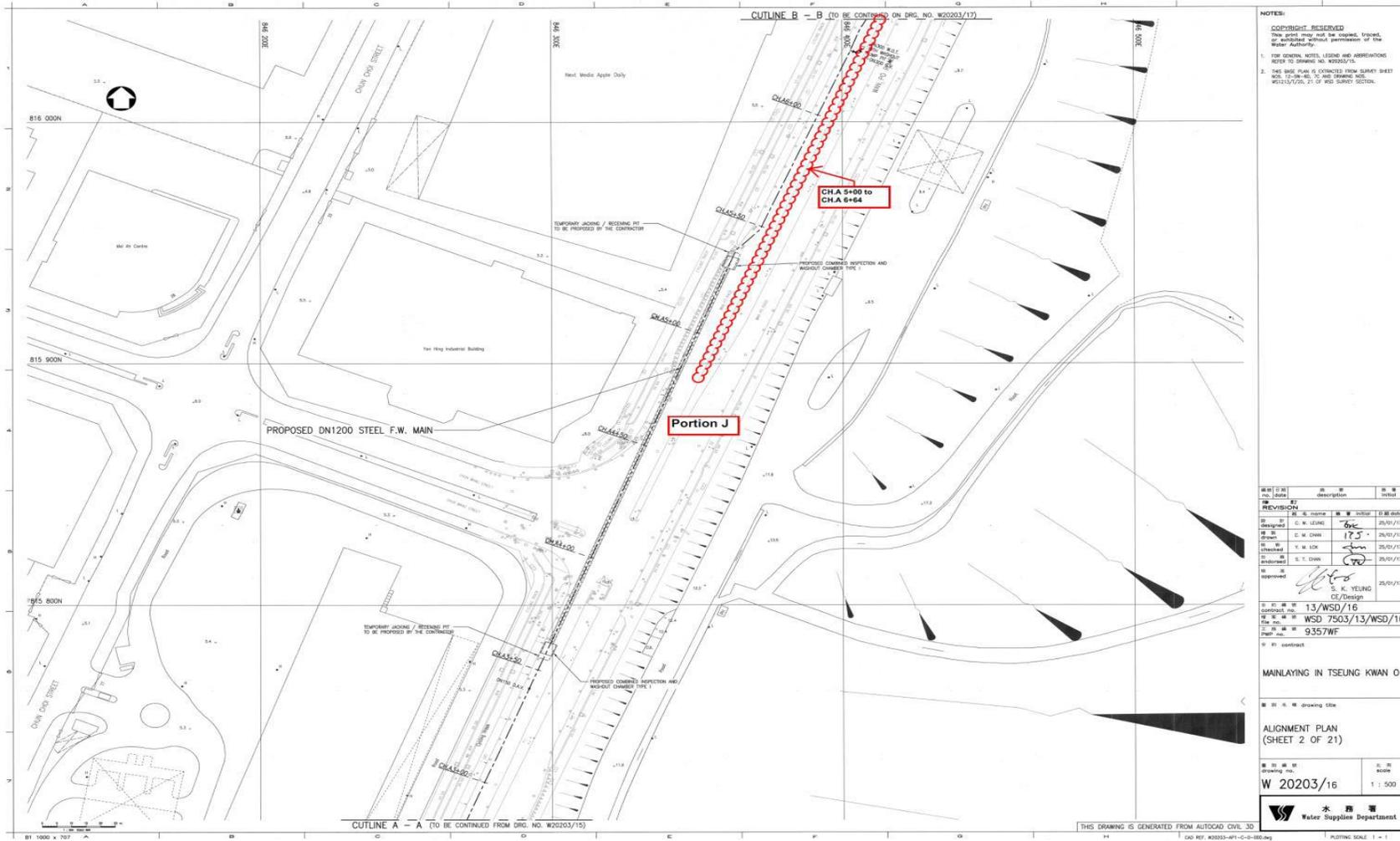


Figure B1. Overview of Mainlaying in TKO



NOTES
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 1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS REFER TO DRAWING NO. W20203/15.
 2. THIS BASE PLAN IS EXTRACTED FROM SURVEY SHEET NO. 12-106-461 TO THE DRIVING SIDE. WS1213/1/26, 21 OF WSD SURVEY SECTION.

| REV. NO. | DATE | DESCRIPTION | BY | CHECKED |
|----------|----------|-------------------|-------------|------------|
| 1 | 25/01/17 | ISSUED FOR TENDER | C. W. LEUNG | S. T. CHAN |
| 2 | 25/01/17 | DESIGNATED | C. W. LEUNG | S. T. CHAN |
| 3 | 25/01/17 | CHECKED | S. T. CHAN | S. T. CHAN |
| 4 | 25/01/17 | APPROVED | S. T. CHAN | S. T. CHAN |

PROJECT NO. 13/WSD/16
 CONTRACT NO. WSD 7503/13/WSD/16
 DRAWING NO. 9357WF
 CONTRACT

MAINLAYING IN TSEUNG KWAN O

ALIGNMENT PLAN
 (SHEET 2 OF 21)

PROJECT NO. W 20203/16
 DRAWING NO. 9357WF
 SCALE 1 : 500

水務署
 Water Supplies Department

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

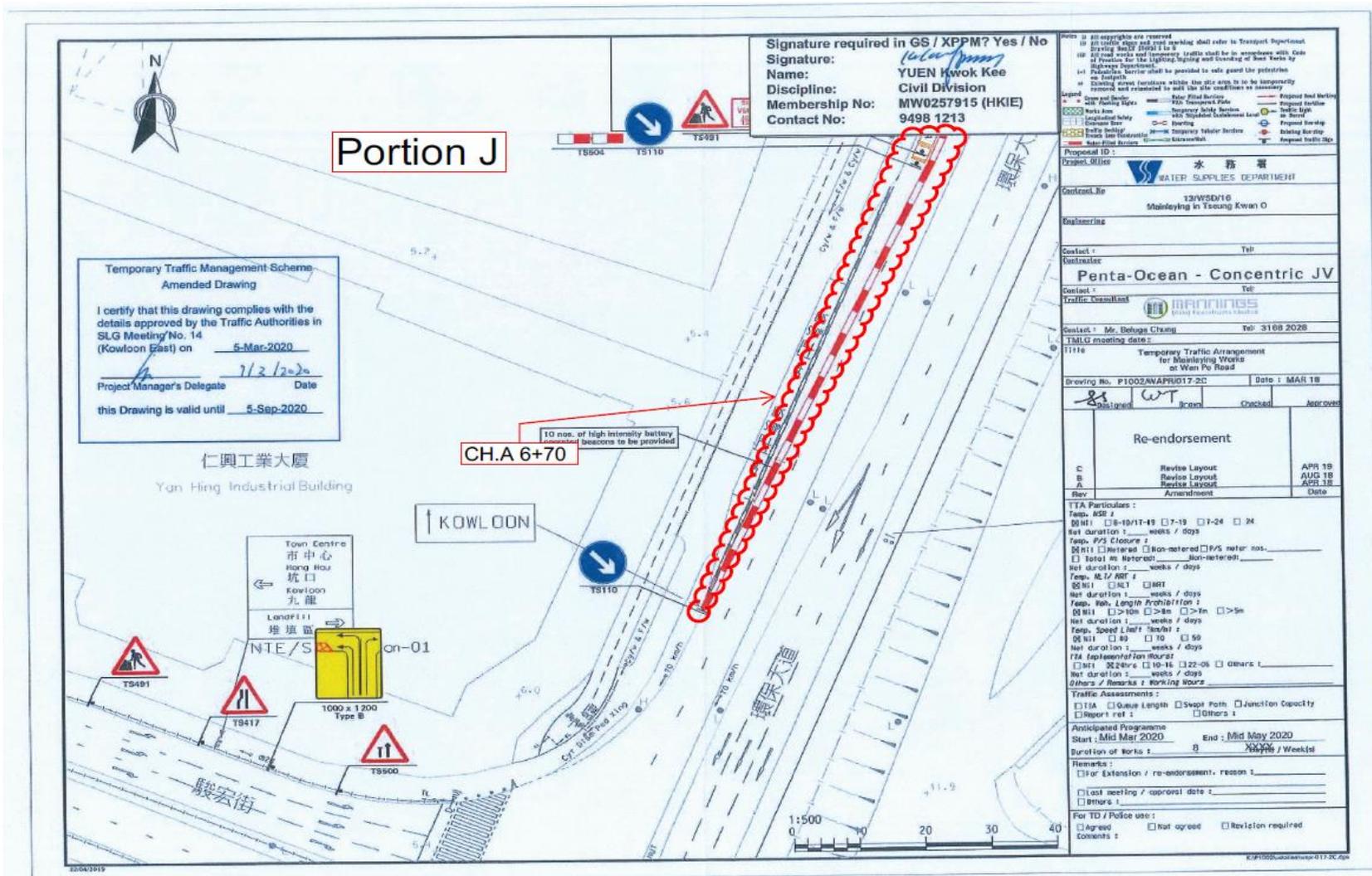


Figure B3b(ii). Location Plan for Portion J - CH.A 6+70

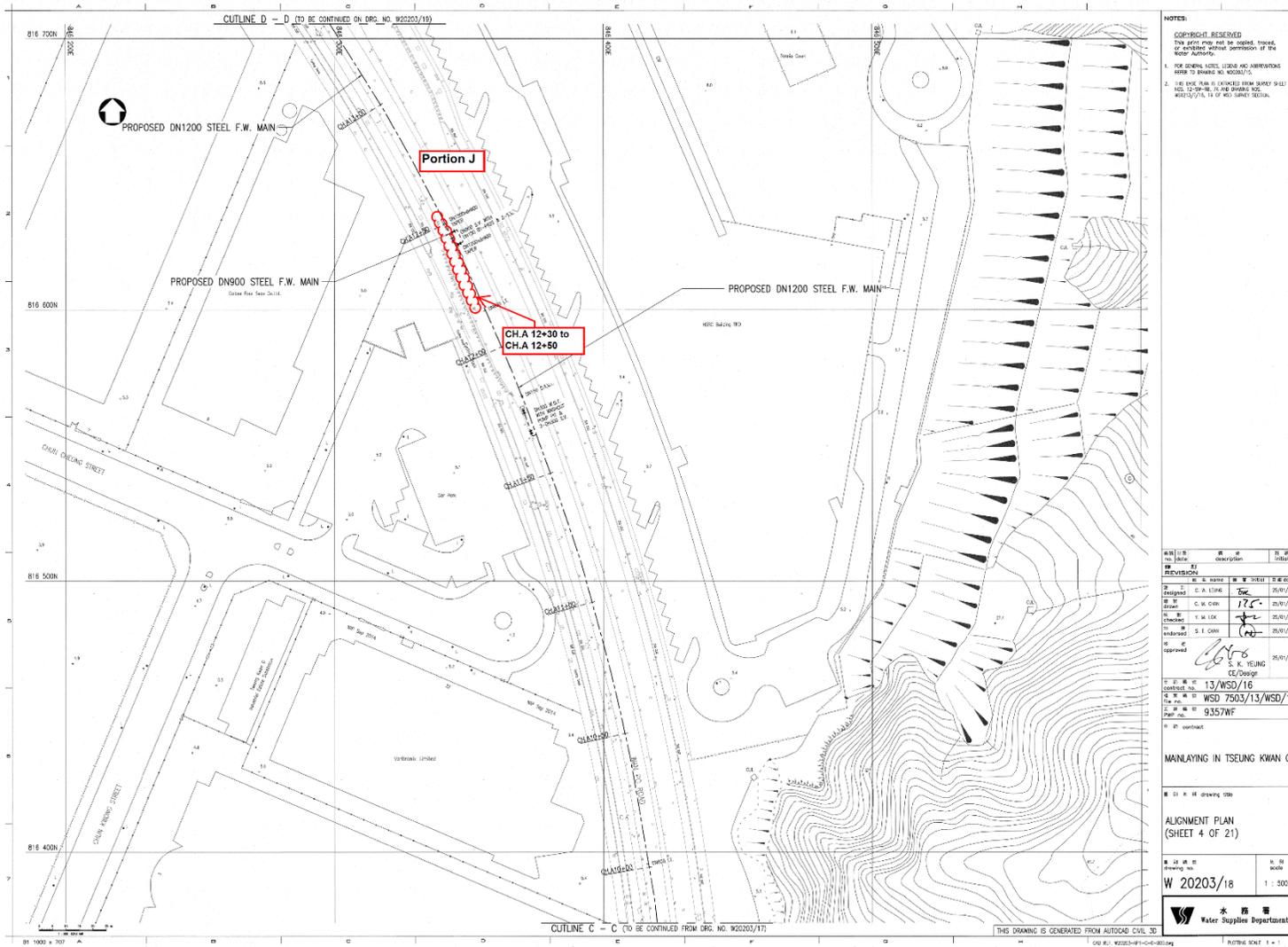


Figure B4. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50

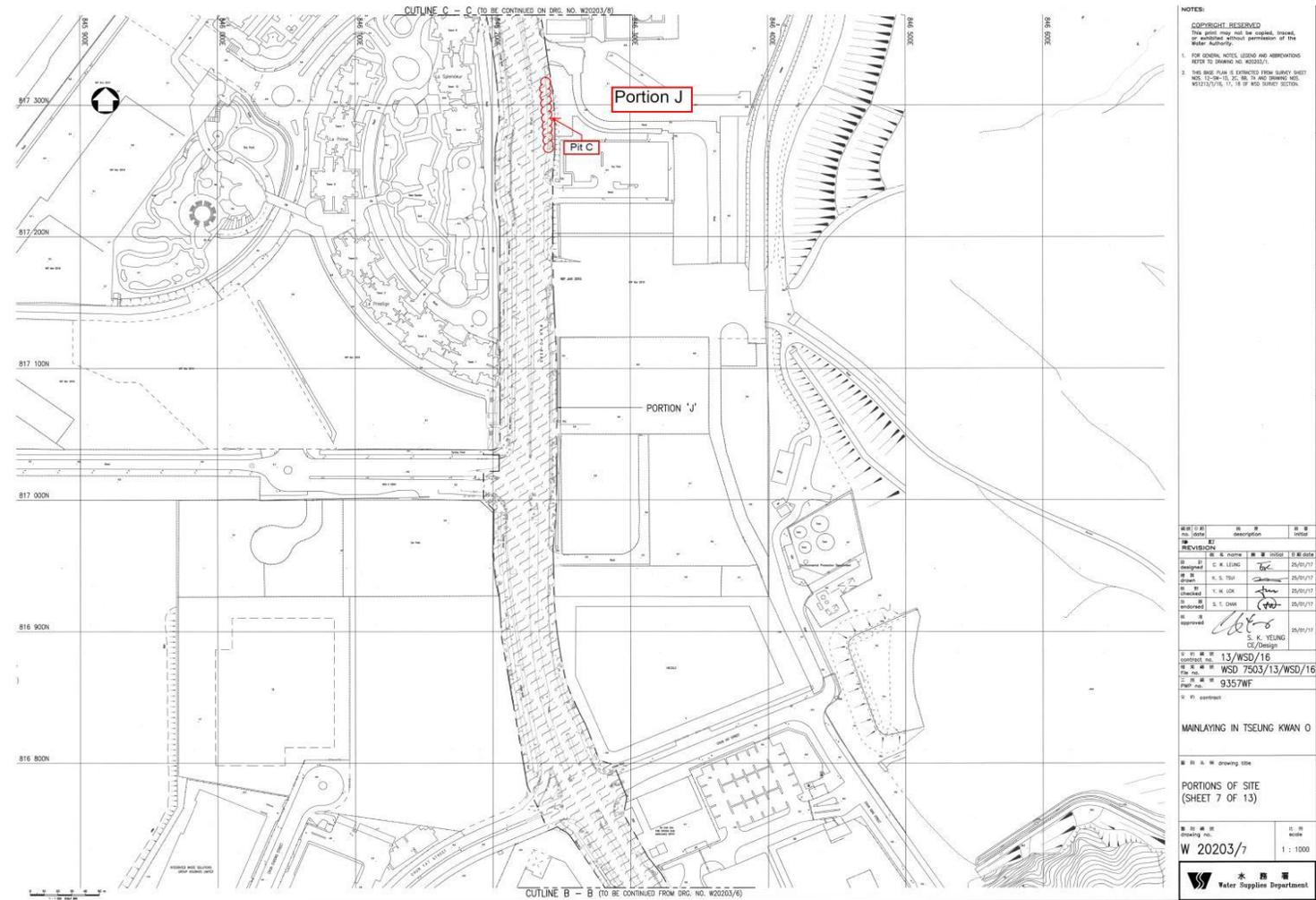


Figure B7. Location Plan for Portion J – CH.A 19+15 to CH.A 19+50 (Pit C)

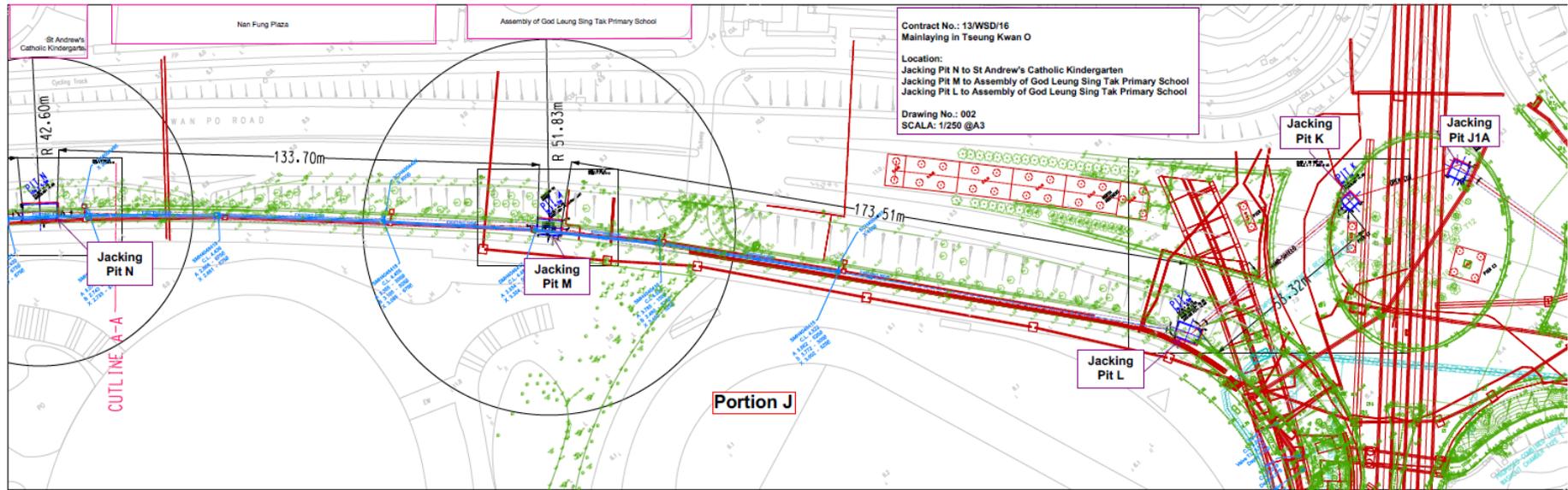


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A

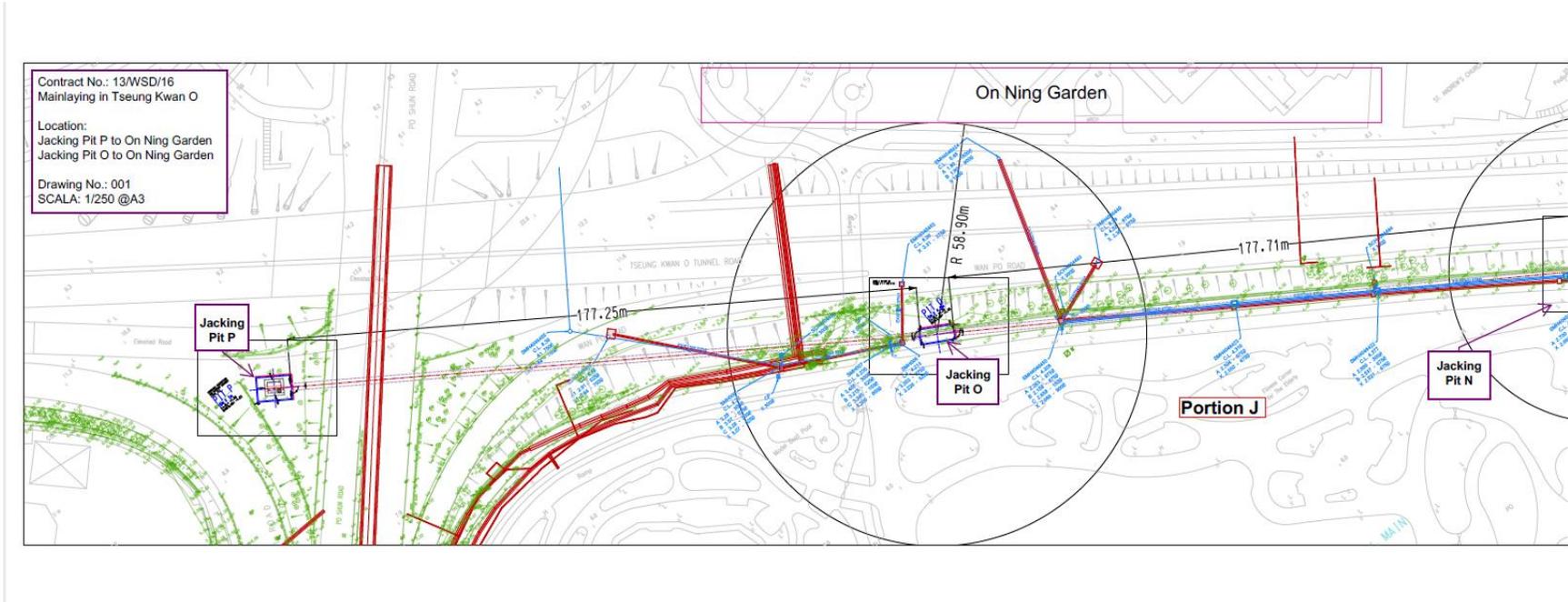


Figure B8b. Location Plan for Portion J – Pit N-O-P

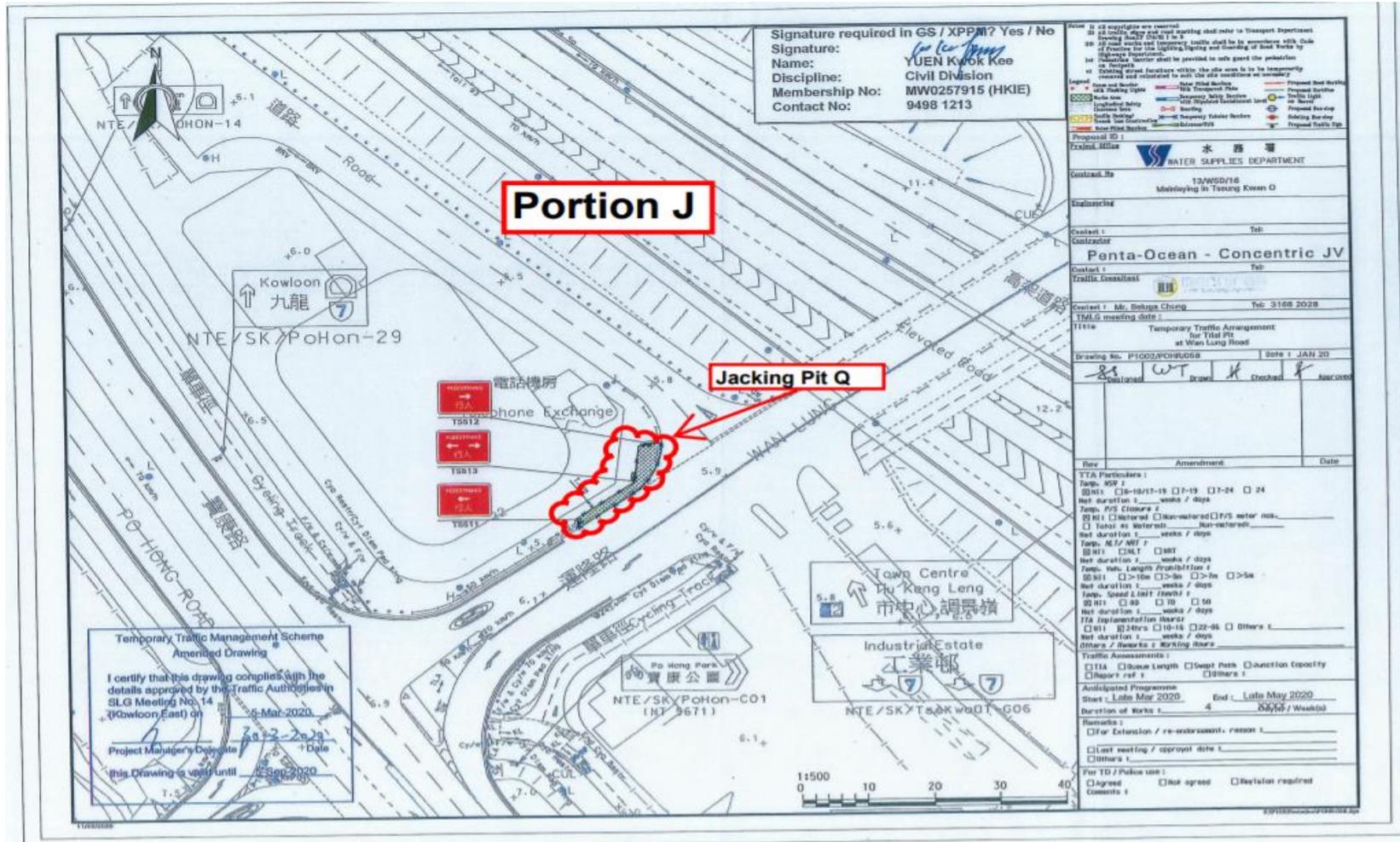


Figure B8c. Location Plan for Portion J – Pit Q

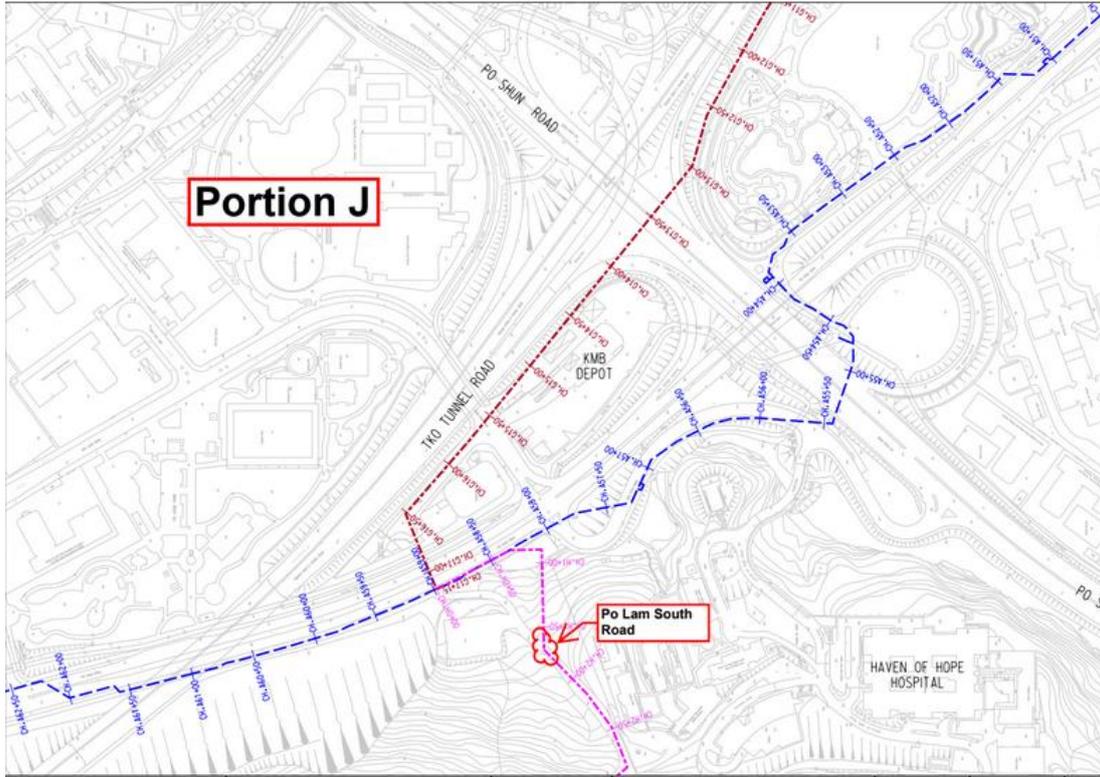


Figure B9a. Location Plan for Mau Wu Tsai 1

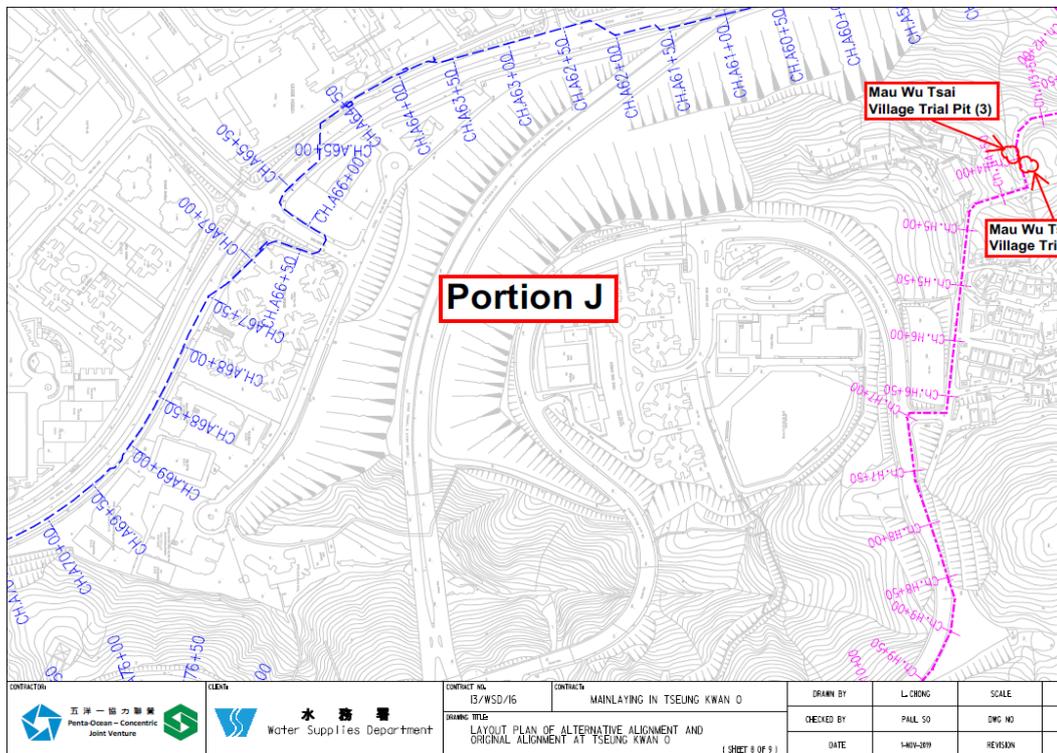


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3

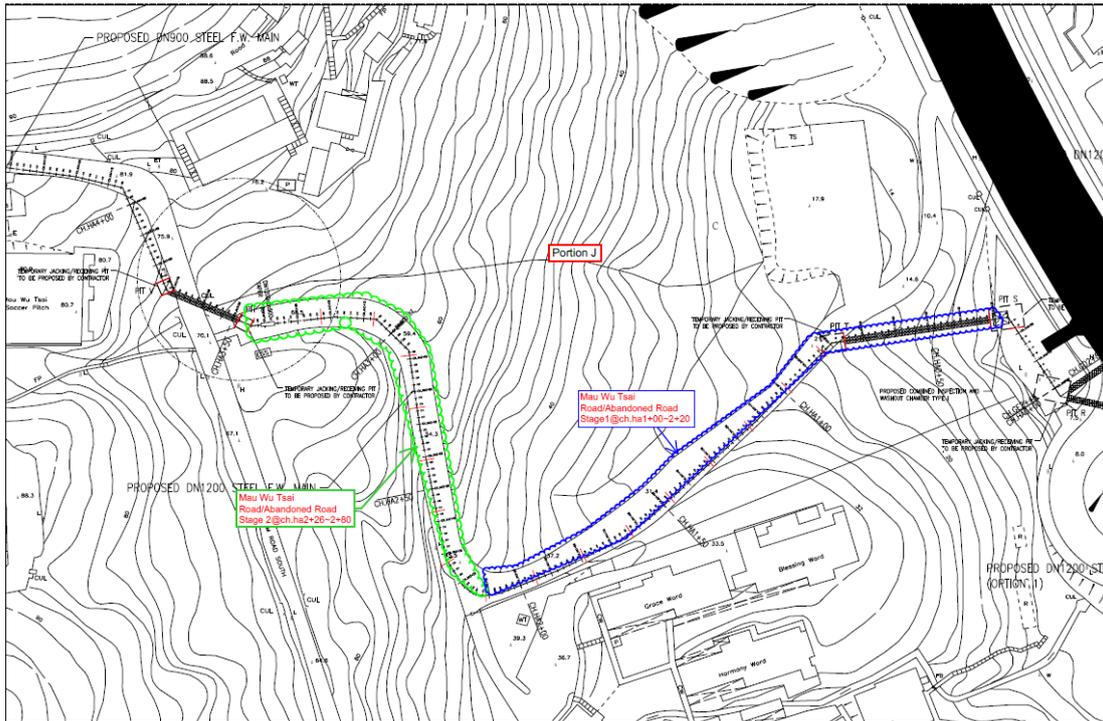


Figure B9c. Abandoned Mau Wu Tsai Road

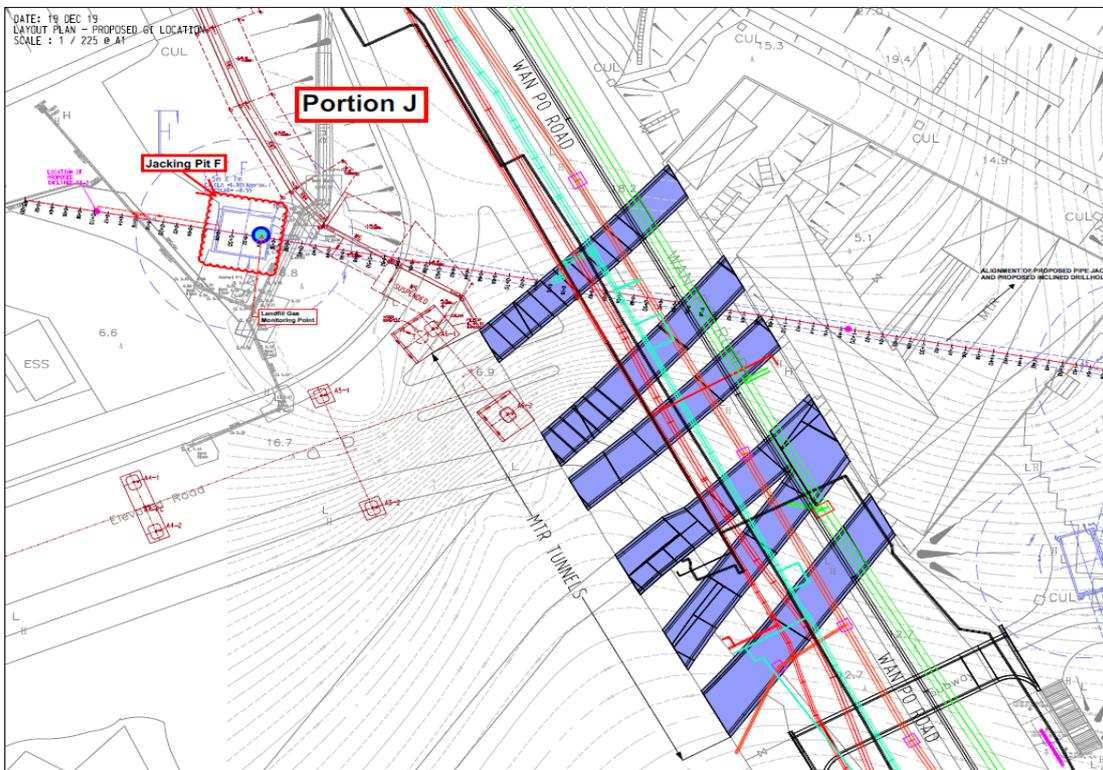


Figure B10. Location Plan for Jacking Pit F

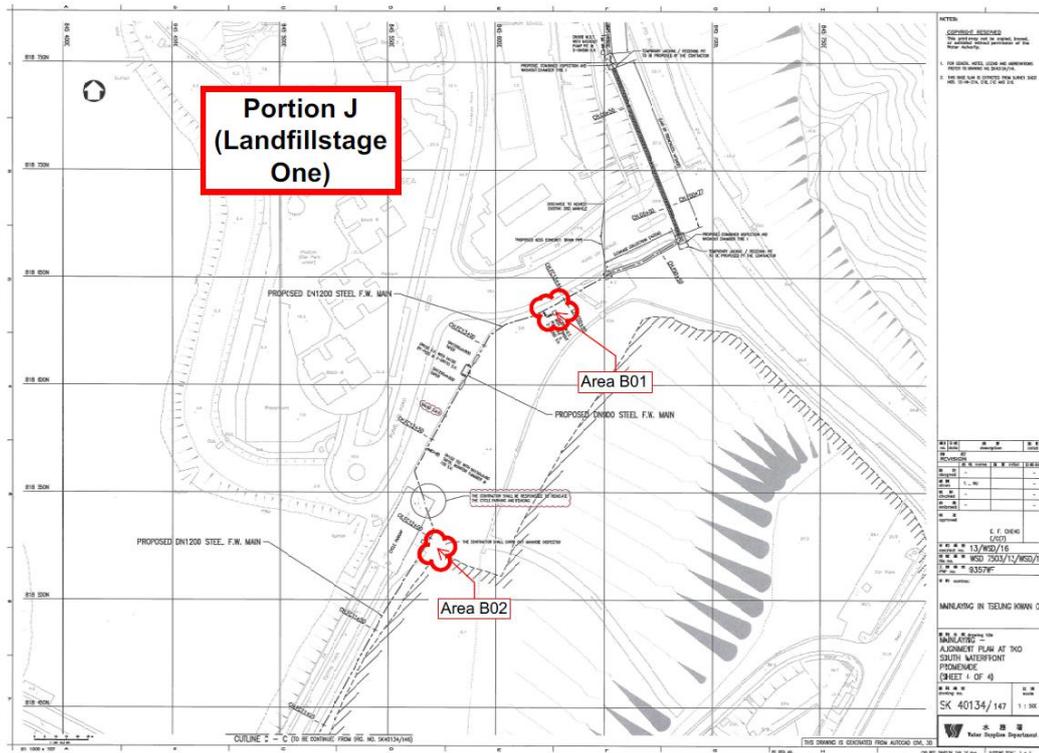


Figure B11a. Location Plan – Landfill Stage 1 (Area B01-B02)

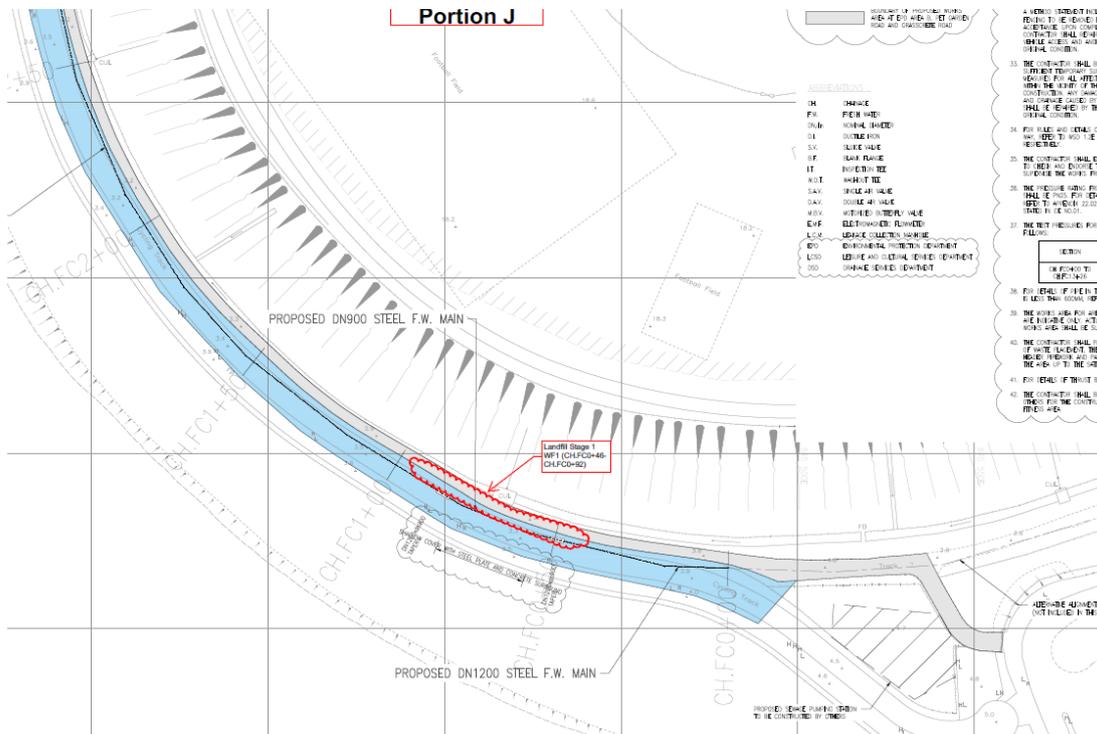


Figure B11b. Location Plan – Landfill Stage 1 (Area FC0+42 -FC0+92)

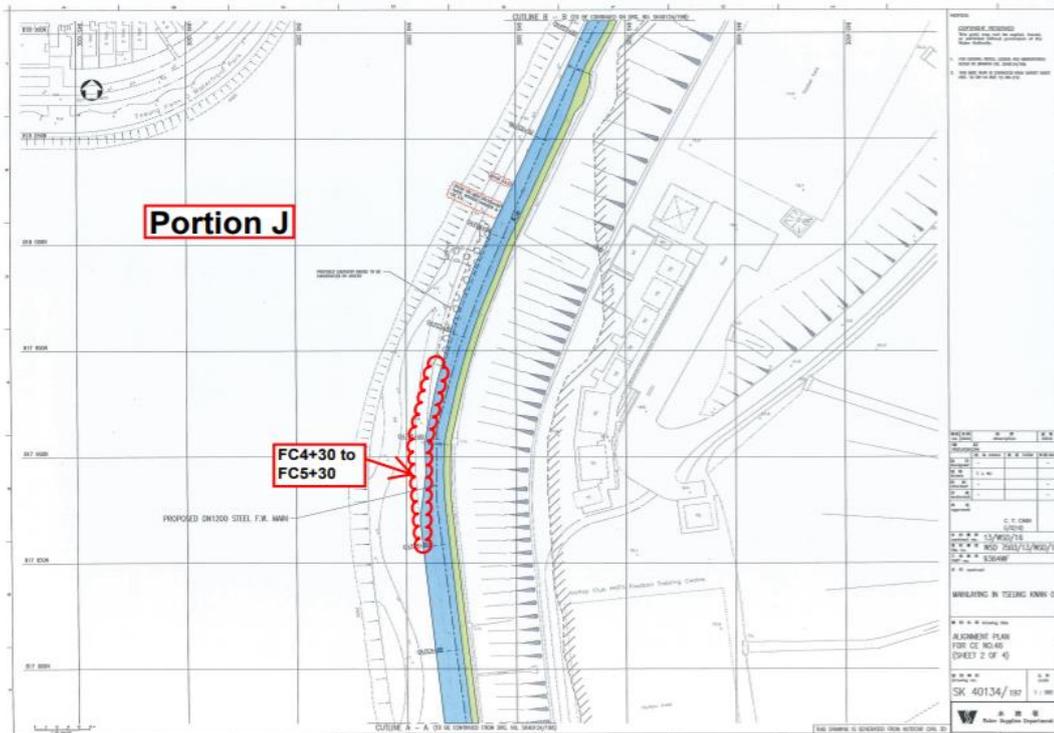


Figure B11c. Location Plan – Landfill Stage 1 (Area FC4+30 -FC5+30)

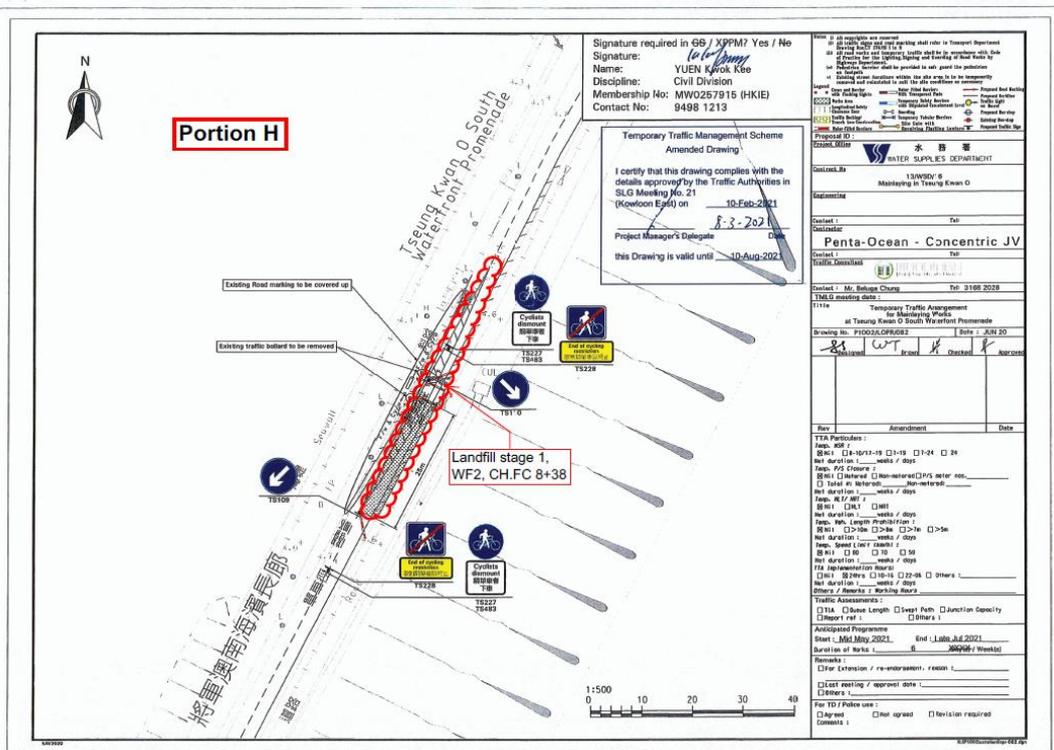


Figure B11d. Location Plan – Landfill Stage 1 (Area FC8+38)

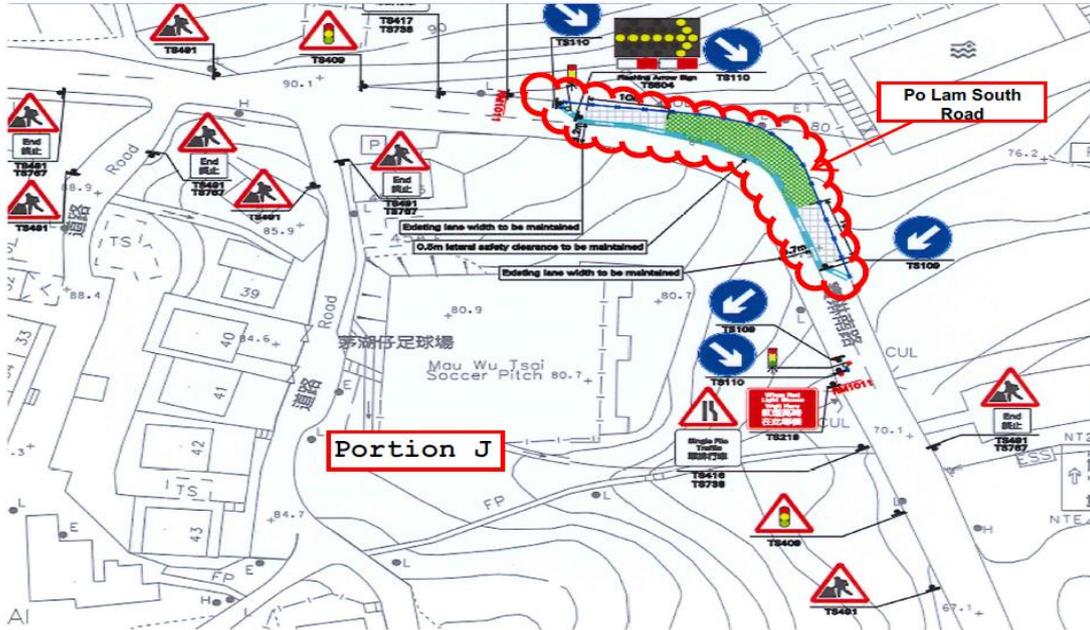


Figure B12. Monitoring Location – Po Lam South Road

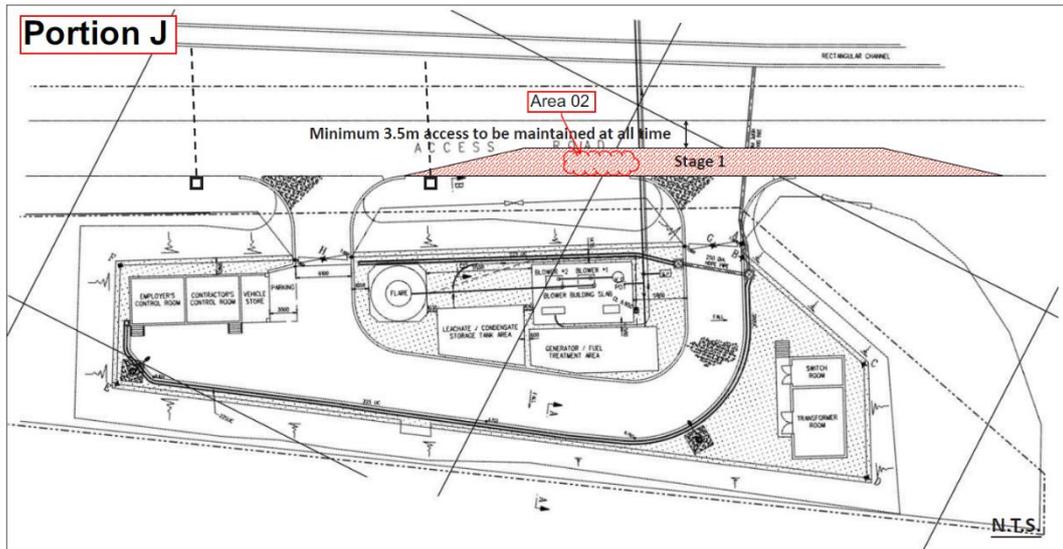


Figure B13. Monitoring Location – Area A02

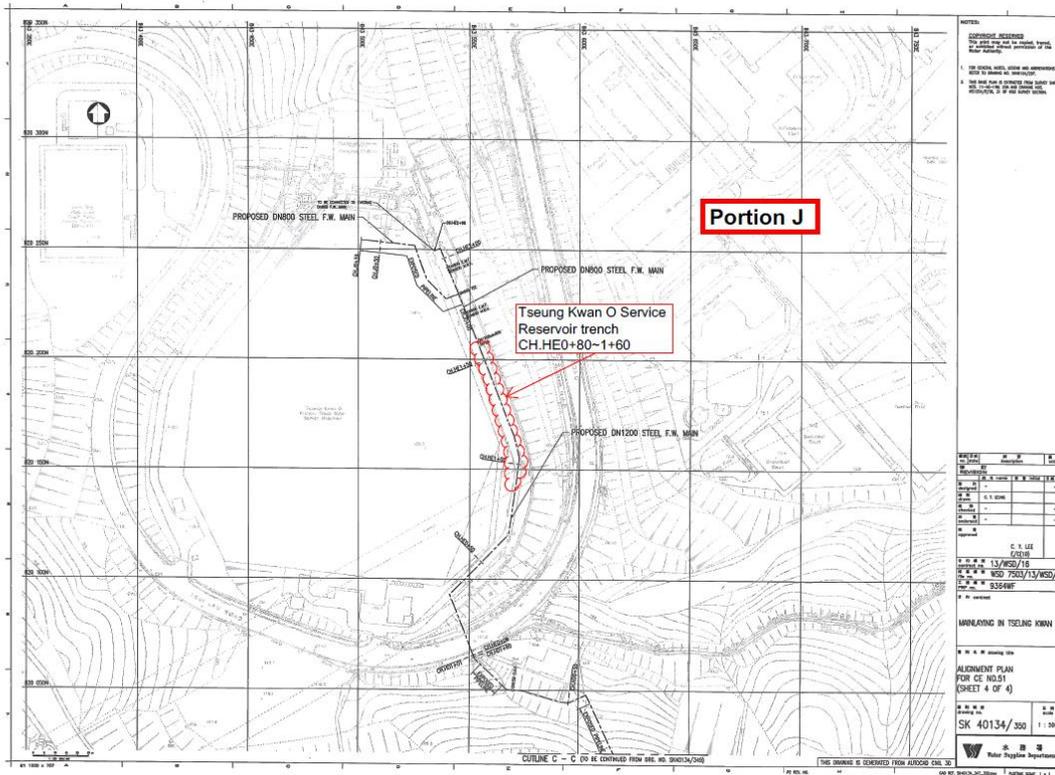


Figure B16. Location Plan for CH.HE0+80-1+60

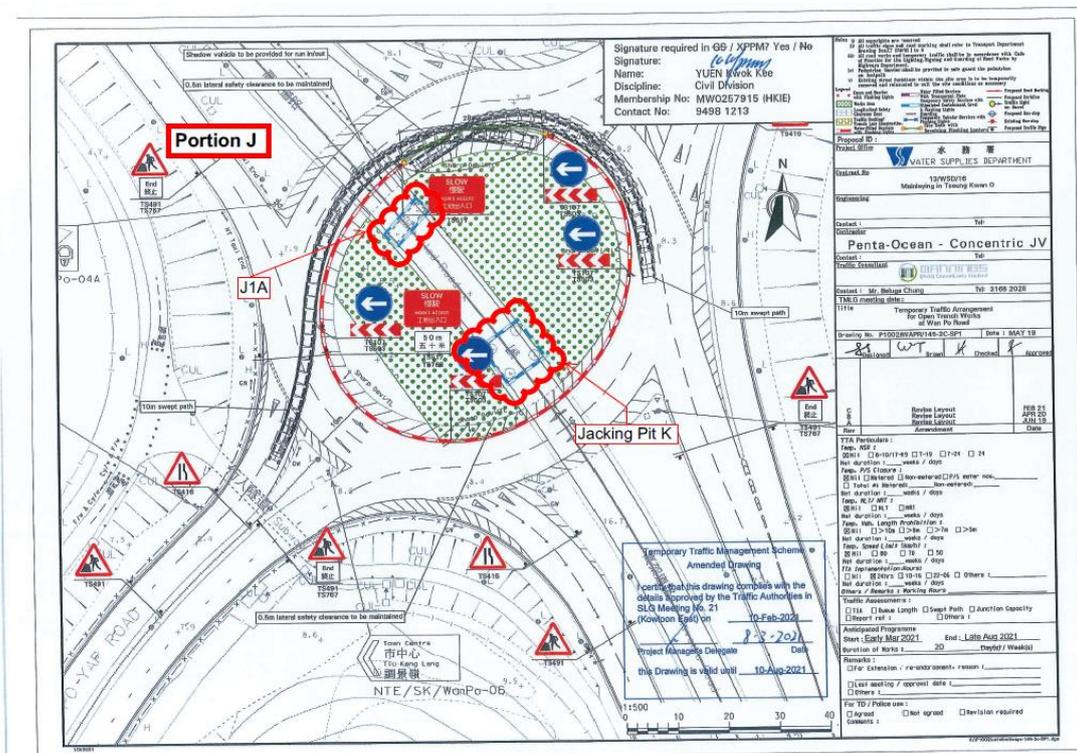


Figure B17. Location Plan for Pit K

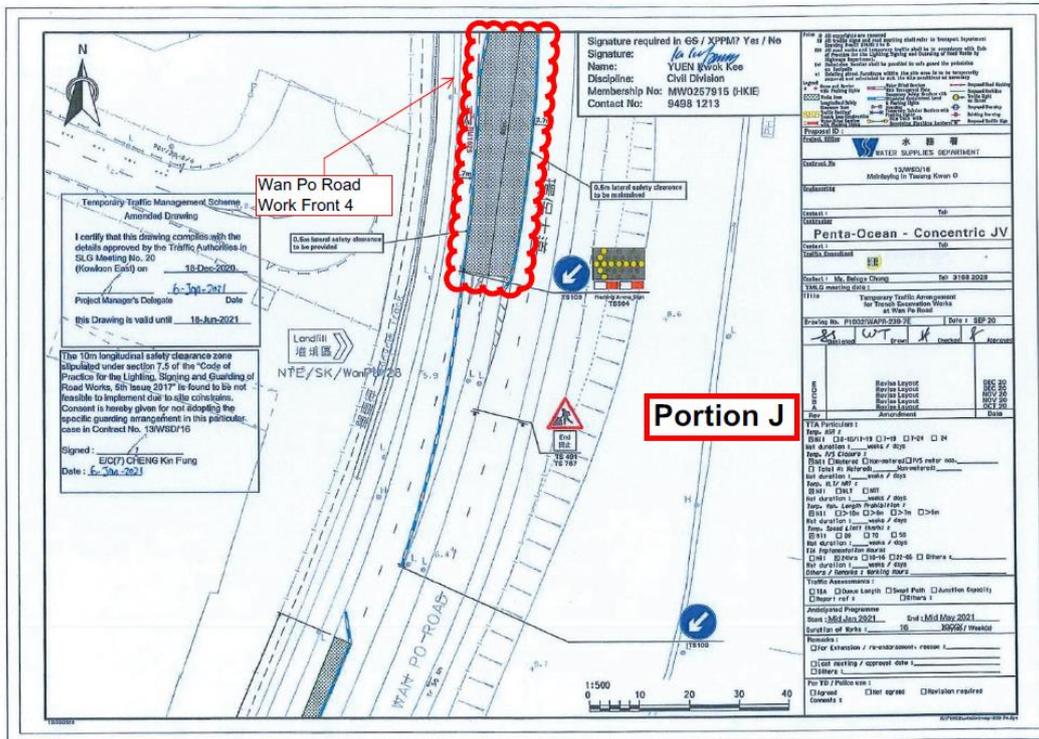


Figure B18a. Location Plan for Wan Po Road 4

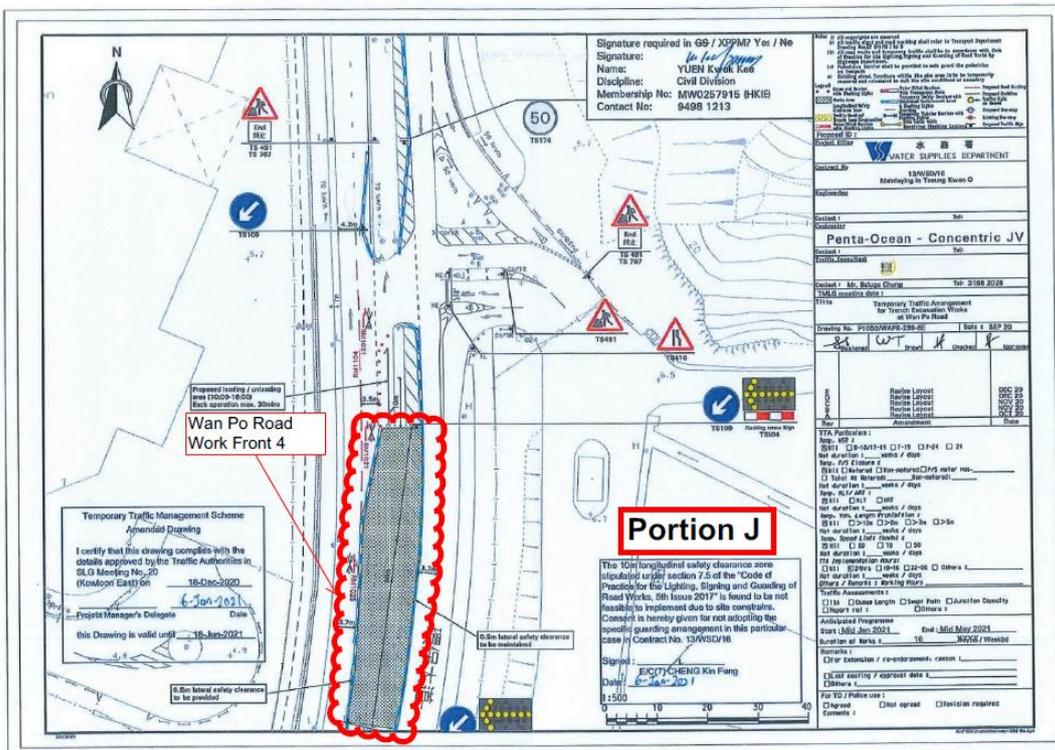


Figure B18b. Location Plan for Wan Po Road 4

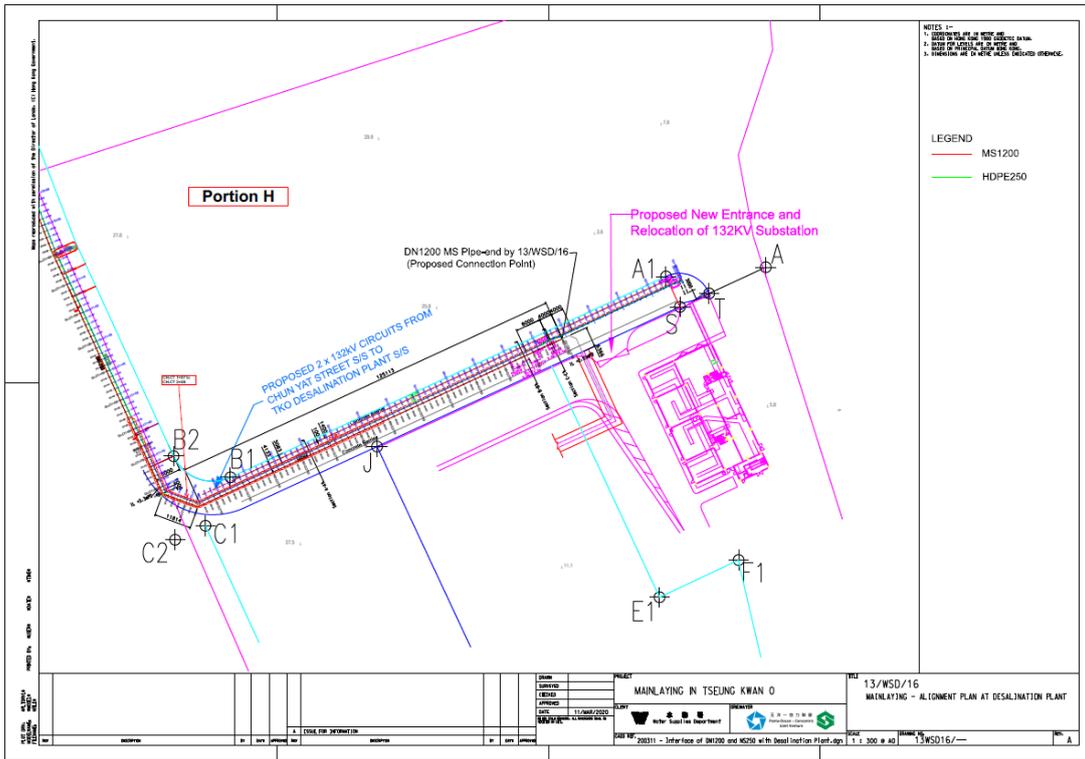


Figure B19a. Location Plan for CH.CT 0+07 – 2+58

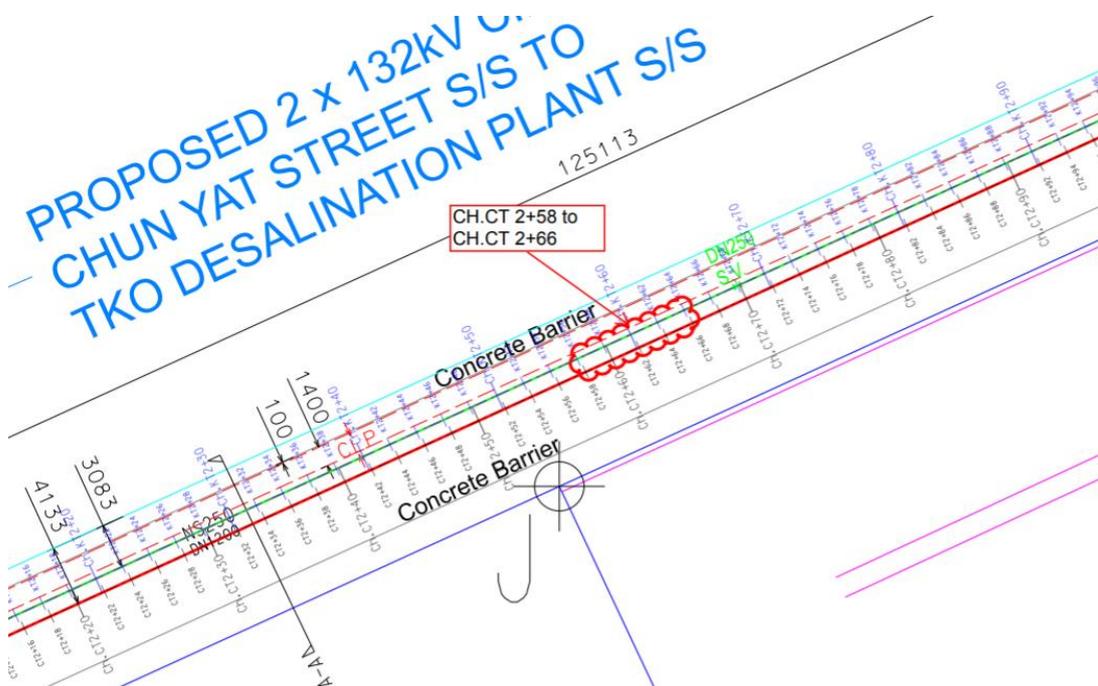


Figure B19b. Location Plan for CH.CT 2+58 – 2+66

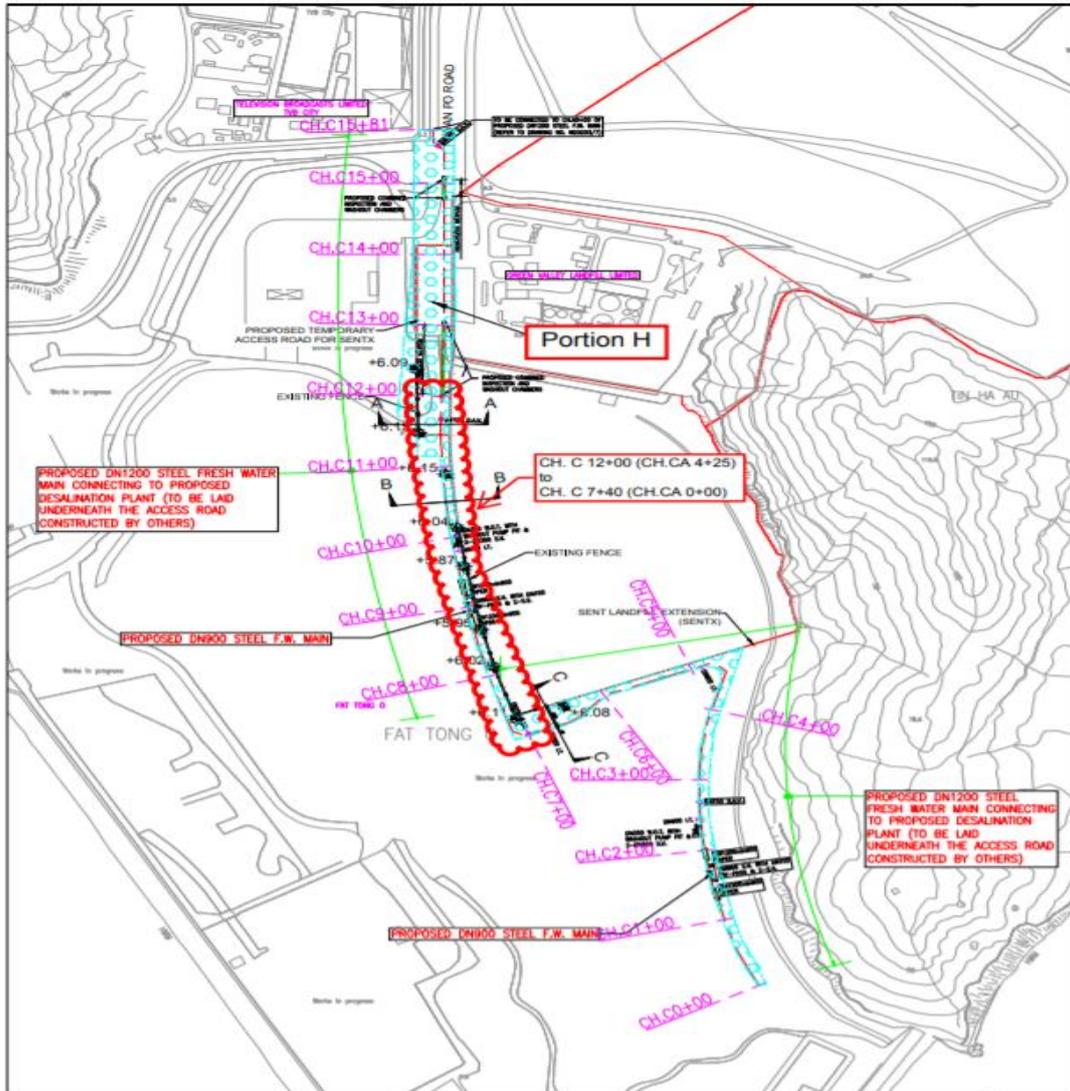


Figure B20. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)

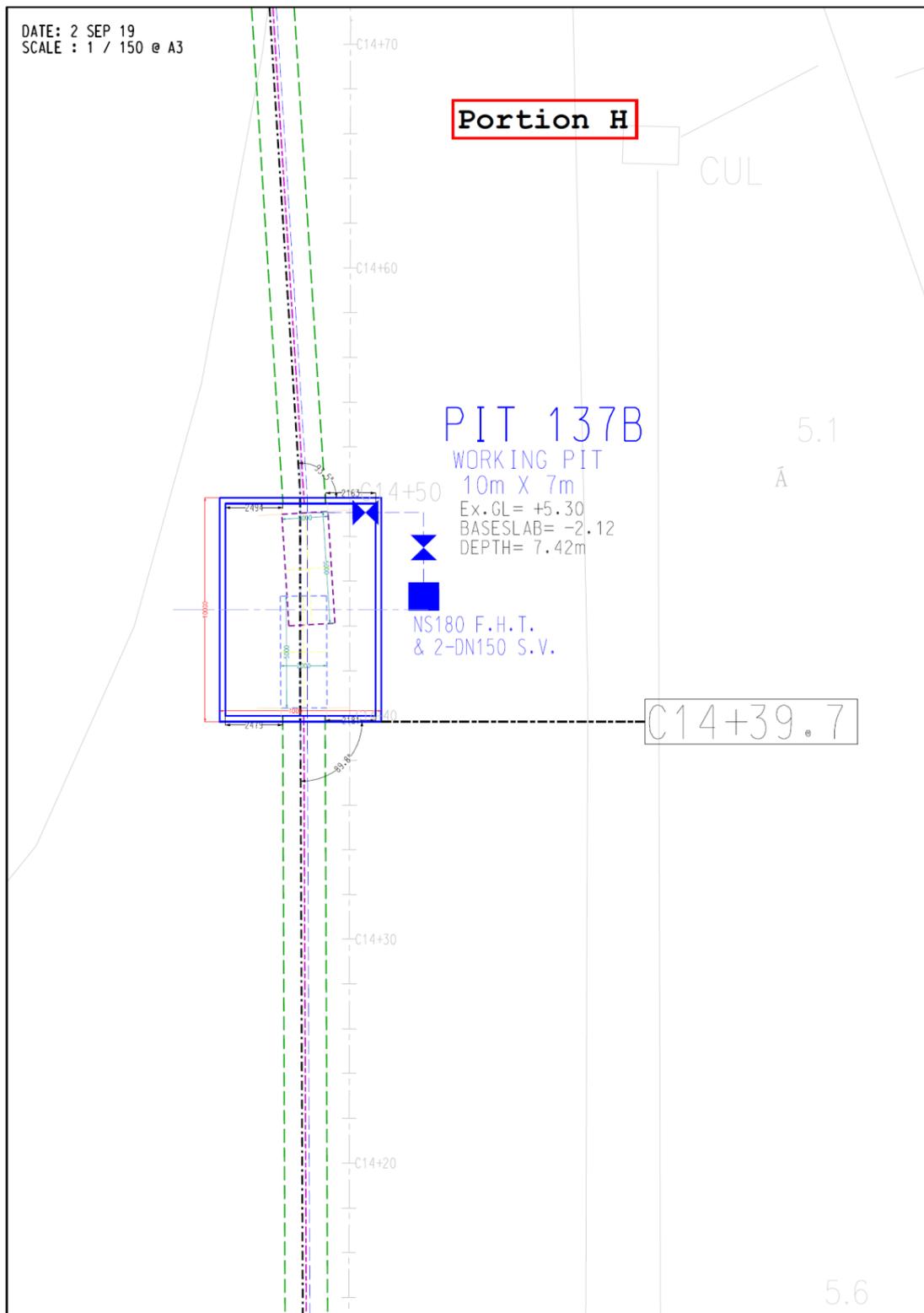


Figure B21a. Location Plan for Portion H- Pit 137B

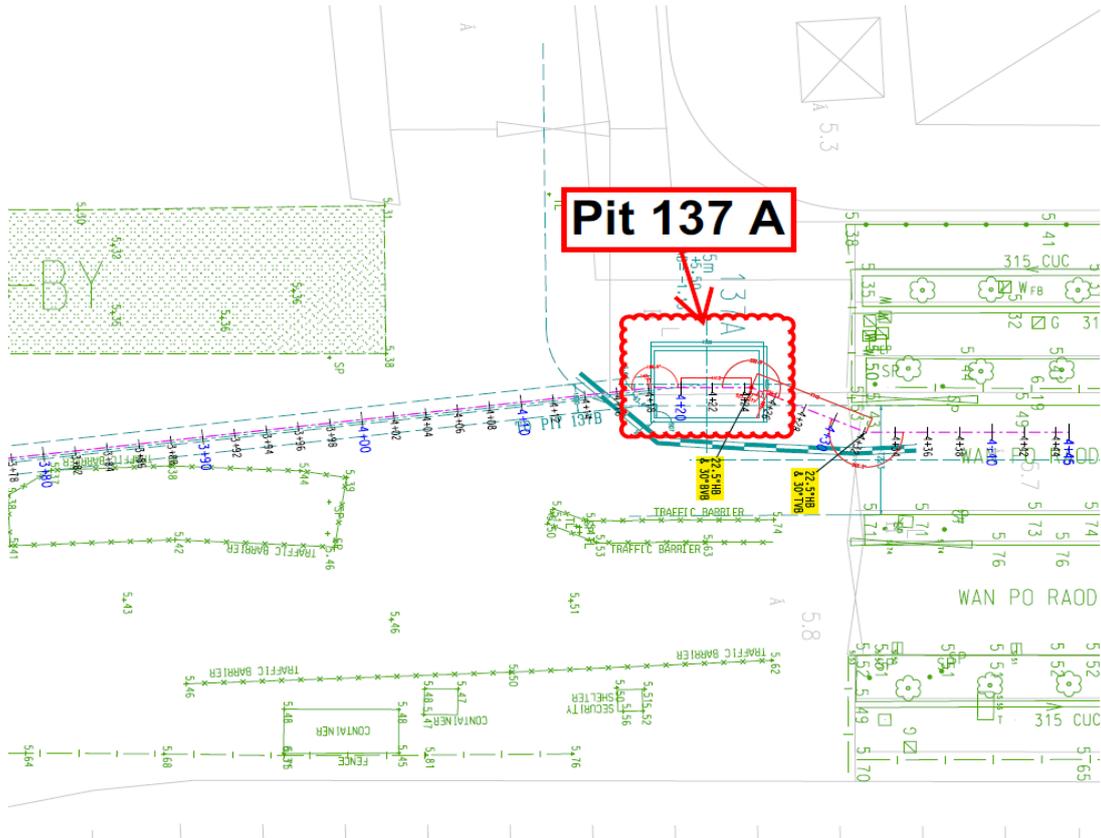


Figure B21b. Location Plan for Portion H- Pit 137A

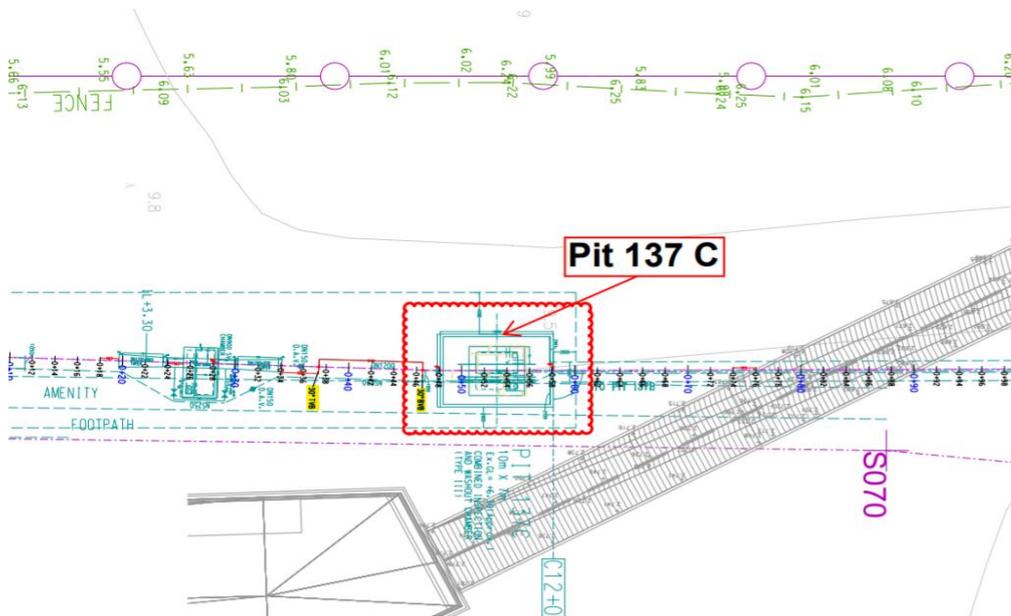


Figure B21c. Location Plan for Portion H- Pit 137C

Appendix C

Summary of Implementation Status of Environmental Mitigation

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|--------------------|--|---|-------------------------|----------------------|---|---|--------------------------|--|
| | | | | D | C | O | | |
| 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) | | ✓ | | N/A | |
| 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) | | ✓ | | Reminder issued. | |
| 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) | | ✓ | | Reminder issued. | |
| S4.8.1 | Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading. | Land site/ During Construction | Contractor(s) | | ✓ | | Implemented | |
| 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) | | ✓ | | Implemented | |
| 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 | |

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---------------|--|---|-------------------------|----------------------|---|---|--|---|
| | | | | D | C | O | | |
| S4.8.1 | Road sections between vehicle-wash areas and vehicular entrance will be paved. | Land site/ During Construction | Contractor(s) | | ✓ | | N/A | |
| 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, reminder issued. | |
| 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) | | ✓ | | Reminder and observation issued. 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) | | ✓ | | Reminder issued. | |
| 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 |

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---------------|---|---|---|----------------------|---|---|--------------------------|--------------------------------------|
| | | | | D | C | O | | |
| 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 implemented. | 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)/ Environmental Team (ET) & Independent Environmental Checker (IEC) | | ✓ | | Implemented | |

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

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---------------|--|---|-------------------------|-------------------------|---|---|--------------------------|---|
| | | | | D | C | O | | |
| 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) | | ✓ | | Implemented | 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 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. | Noise control/ During construction | Contractor(s) | | ✓ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, |
| 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 | Noise control/ During construction | Contractor(s) | | ✓ | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works |

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---------------|--|--|--|-------------------------|---|---|--------------------------|--|
| | | | | D | C | O | | |
| | PME proposed for these activities will not be operated simultaneously. | | | | | | | |
| 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) | ✓ | ✓ | | Implemented | |
| 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) | ✓ | ✓ | | Implemented | |
| 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) | | ✓ | | Implemented | |
| S5.10 | The effectiveness of on-site control measures could also be evaluated through the regular site audits. | All facilities/ During construction | Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC) | | ✓ | | Implemented | - |

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementatio n Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|----------------------|--|---|--------------------------|-------------------------|---|---|--------------------------|--------------------------------------|
| | | | | D | C | O | | |
| 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) | | ✓ | | N/A | - |

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| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementatio n Agent | Implementation Stage | | | Implementation status | Relevant Legislation & Guidelines |
|---------------|---|---|--------------------------|-------------------------|---|---|--|--|
| | | | | D | C | O | | |
| 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. Deposited silt and grit will be removed regularly. | Land site & drainage/ During construction | Contractor(s) | | ✓ | | Implemented, observation and reminder issued. Rectified after observation. | ProPECC PN 1/94 TM Standard under the WPCO |
| S6.9 | 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) | | ✓ | | Implemented | - |
| 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, observation issued. Rectified after observation. | 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) | | ✓ | | N/A | - |
| 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 | - |

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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) | | ✓ | ✓ | 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) | | ✓ | ✓ | Implemented. Observation and reminder issued. Rectified after observation. | - |

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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)/ Environmental Team (ET) & Independent Environmental Checker (IEC) | | ✓ | | Implemented | - |

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| Waste Management | | | | | | | | |
| 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 | - |
| S8.5 | 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 | Contractor(s) | | ✓ | | N/A. | Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35 |
| S8.5 | Regular cleaning and maintenance programme for | Land site/ During construction | Contractor(s) | | ✓ | | Implemented. | Waste Disposal Ordinance |

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| | drainage systems, sumps and oil interceptors. | | | | | | | (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 | 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. | - |
| 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) |

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| S8.5 | The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No. 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)/ Environmental Team (ET) & Independent Environmental Checker (IEC) | | ✓ | | Implemented | ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites |
| 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) | | ✓ | | Implemented | - |
| 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 | All area/ During construction | Contractor(s) | | ✓ | | Observation issued. Rectified after | Air Pollution Control (Construction Dust) |

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| | quickly as possible to the extent practice after filling. | | | | | | observation. | 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) | | ✓ | | 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 |
| 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 | All area/ During construction/ | Contractor(s)/ | | ✓ | ✓ | Implemented | Waste Disposal (Chemical |

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| | ventilation. | During operation | WSD | | | | | 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 arranged so that incompatible materials are appropriately separated. | 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 | 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 | | ✓ | ✓ | Implemented | - |
| 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 | - |

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| 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 | Contractor(s) | | ✓ | | 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 programme will be implemented throughout the construction phase. | All facilities/ During construction | ET/ IEC | | ✓ | | Implemented | - |

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| Ecology | | | | | | | | |
| 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) | ✓ | ✓ | | 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) | ✓ | ✓ | | Implemented | - |
| S9.7 | Temporary fencing will be installed to fence off 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. | Slope mitigation works area/ During construction | Contractor(s) | | ✓ | | N/A | - |

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| S9.7 and S9.10 | A specification for fencing and demarcating individuals of <i>Marsdenia 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) | | ✓ | | 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 | - |
| 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. | All area/ During construction | Contractor(s) | | ✓ | | N/A | - |

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| 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, reminder issued. | 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 departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | ✓ | ✓ | ✓ | Implemented | DEVB TC(W) No. 10/2013 |

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| | 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 | - |

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| Landfill Gas Hazard | | | | | | | | |
| 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 | |
| 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 | All area/ Detailed design/ During construction/ During operation | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation Status | Relevant Legislation & Guidelines |
|---------------|--|---|-------------------------|----------------------|---|---|--------------------------|-----------------------------------|
| | | | | D | C | O | | |
| | of methane, carbon dioxide and oxygen. | | | | | | | |
| 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 pathway for landfill gas and hence grilled metal covers should be used. | All area/ Detailed design/ During construction/ During operation | Contractor(s) | ✓ | ✓ | ✓ | N/A | |
| 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 | All area/ Detailed design/ During construction/ During | Contractor(s) | ✓ | ✓ | ✓ | Implemented | |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to address | Implementation Agent | Implementation Stage | | | Implementation Status | Relevant Legislation & Guidelines |
|---------------|---|---|-------------------------|----------------------|---|---|--------------------------|-----------------------------------|
| | | | | D | C | O | | |
| | 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. | operation | | | | | | |
| 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 minimized 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

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| Nov-21 | | | | | | |
|--------|-----|-----|-----|-------------------------------|-------------------------------|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | 1 | 2 | 3 | 4 Noise Impact Monitoring | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 Noise Impact Monitoring | 13 |
| 14 | 15 | 16 | 17 | 18 Noise Impact Monitoring | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 Noise Impact Monitoring | 26 | 27 |
| 28 | 29 | 30 | | | | |

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Appendix E

Noise Monitoring Equipment Calibration Certificate

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description: Sound Level Meter
Manufacturer: NTi Audio
Type No.: XL2 (Serial No.: A2A-13661-E0)
Microphone: ACO 7052 (Serial No.: 73912)
Preamplifier: NTi Audio MA220 (M2211) (Serial No.:5735)

Submitted by:

Customer: Acuity Sustainability Consulting Limited
Address: Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon

Upon receipt for calibration, the instrument was found to be:

- Within (31.5 Hz - 8k Hz)
 Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 17 September 2021

Date of calibration: 23 September 2021

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 27 September 2021

Certificate No.: APJ21-085 CC001



Page 1 of 4

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong
Tel: (852) 2668 3423 Fax: (852) 2668 6946
Homepage: <http://www.aa-lab.com> E-mail: inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 24.0°C
 Air Pressure: 1001 hPa
 Relative Humidity: 55.7%

3. Calibration Equipment:

| Type | Serial No. | Calibration Report Number | Traceable to |
|--------------------------|------------|---------------------------|----------------|
| Multifunction Calibrator | B&K 4216 | 2288467 | AV200041 HOKUS |

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dB(A) SPL | Fast | 94 | 1000 | 94.0 | ±0.4 | |

Linearity

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|-------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dB(A) SPL | Fast | 94 | 1000 | 94.0 | Ref | |
| | | | 104 | | 104.0 | ±0.3 | |
| | | | 114 | | 114.0 | ±0.3 | |

Time Weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dB(A) SPL | Fast | 94 | 1000 | 94.0 | Ref | |
| | | Slow | | | 94.0 | ±0.3 | |

Certificate No.: APJ21-085-CC001



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Frequency Response

Linear Response

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dB | SPL | Fast | 94 | 31.5 | 94.1 | +2.0 |
| | | | | | 63 | 94.1 | ±1.5 |
| | | | | | 125 | 94.1 | ±1.5 |
| | | | | | 250 | 94.0 | +1.4 |
| | | | | | 500 | 94.0 | +1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 94.3 | +1.6 |
| | | | | | 4000 | 95.1 | +1.6 |
| | | | | 8000 | 94.3 | +2.1; -3.1 | |

A-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dBA | SPL | Fast | 94 | 31.5 | 52.7 | -39.4±2.0 |
| | | | | | 63 | 67.5 | -26.2±1.5 |
| | | | | | 125 | 75.0 | -16.1±1.5 |
| | | | | | 250 | 85.4 | -8.6±1.4 |
| | | | | | 500 | 90.8 | -3.2±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 95.5 | +1.2±1.6 |
| | | | | | 4000 | 96.1 | +1.0±1.6 |
| | | | | 8000 | 93.9 | -1.1±2.1; -3.1 | |

C-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 30-130 | dBC | SPL | Fast | 94 | 31.5 | 91.1 | -3.0±2.0 |
| | | | | | 63 | 93.3 | -0.8±1.5 |
| | | | | | 125 | 93.9 | -0.2±1.5 |
| | | | | | 250 | 94.0 | -0.0±1.4 |
| | | | | | 500 | 94.0 | -0.0±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 94.2 | -0.2±1.6 |
| | | | | | 4000 | 94.3 | -0.8±1.6 |
| | | | | 8000 | 91.3 | -3.0±2.1; -3.1 | |

Certificate No.: APJ21-055-CC001



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5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

| | | |
|--------|---------|--------|
| 94 dB | 31.5 Hz | ± 0.05 |
| | 63 Hz | ± 0.05 |
| | 125 Hz | ± 0.05 |
| | 250 Hz | ± 0.05 |
| | 500 Hz | ± 0.05 |
| | 1000 Hz | ± 0.05 |
| | 2000 Hz | ± 0.05 |
| | 4000 Hz | ± 0.05 |
| | 8000 Hz | ± 0.10 |
| 104 dB | 1000 Hz | ± 0.05 |
| 114 dB | 1000 Hz | ± 0.05 |

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: AP/21-05/CC001



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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 
聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description: Sound Level Meter
Manufacturer: SVANTEK
Type No.: 971 (Serial No.: 96062)
Microphone: ACC 7052 E (Serial No.:78090)
Preamplifier: SVANTEK SV 18 (Serial No.:103808)

Submitted by:

Customer: Acuity Sustainability Consulting Limited
Address: Unit 908, Nos. 301-305 Castle Peak Road,
Kwai Chung, N.T.

Upon receipt for calibration, the instrument was found to be:

- Within (31.5 Hz to 10k Hz)
 Outside

the allowable tolerance.

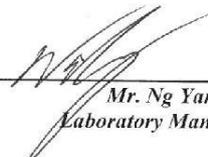
The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 2 July 2021

Date of calibration: 5 July 2021

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 5 July 2021

Certificate No.: APJ21-029-CC001



Page 1 of 4

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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 24.2°C
 Air Pressure: 1004 hPa
 Relative Humidity: 60.8%

3. Calibration Equipment:

| Type | Serial No. | Calibration Report Number | Traceable to |
|--------------------------|------------|---------------------------|-----------------|
| Multifunction Calibrator | B&K 4220 | 2288467 | AV200041 HOKLAS |

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dBA | SPL | Fast | 94 | 1000 | 94.0 | +0.4 |

Linearity

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dBA | SPL | Fast | 94 | 1000 | 94.0 | Ref |
| | | | | 104 | | 104.0 | +0.3 |
| | | | | 114 | | 114.0 | +0.3 |

Time Weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dBA | SPL | Fast | 94 | 1000 | 94.0 | Ref |
| | | | Slow | | | 94.0 | +0.3 |

Certificate No.: APJ21-029-CC001

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Frequency Response

Linear Response

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dB | SPL | Fast | 94 | 31.5 | 94.1 | ±2.0 |
| | | | | | 63 | 94.1 | ±1.5 |
| | | | | | 125 | 94.1 | ±1.5 |
| | | | | | 250 | 94.1 | ±1.4 |
| | | | | | 500 | 94.1 | ±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 93.8 | +1.6 |
| | | | | | 4000 | 93.3 | +1.6 |

A-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dBA | SPL | Fast | 94 | 31.5 | 54.9 | -39.4±2.0 |
| | | | | | 63 | 68.0 | -26.2±1.5 |
| | | | | | 125 | 78.0 | -16.1±1.5 |
| | | | | | 250 | 87.4 | -8.6±1.4 |
| | | | | | 500 | 90.8 | -3.2±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 95.0 | +1.2±1.6 |
| | | | | | 4000 | 94.3 | +1.0±1.6 |

C-weighting

| Setting of Unit-under-test (UUT) | | | | Applied value | | UUT Reading | IEC 61672 Class 1 |
|----------------------------------|-----------------|----------------|-----------|---------------|------|-------------------|-------------------|
| Range, dB | Freq. Weighting | Time Weighting | Level, dB | Frequency, Hz | dB | Specification, dB | |
| 20-140 | dBC | SPL | Fast | 94 | 31.5 | 91.1 | -3.0±2.0 |
| | | | | | 63 | 93.3 | -0.8±1.5 |
| | | | | | 125 | 93.9 | -0.2±1.5 |
| | | | | | 250 | 94.1 | -0.0±1.4 |
| | | | | | 500 | 94.1 | -0.0±1.4 |
| | | | | | 1000 | 94.0 | Ref |
| | | | | | 2000 | 93.6 | -0.2±1.6 |
| | | | | | 4000 | 92.5 | -0.8±1.6 |

Certificate No.: APJ21-029-CC001

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5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

| | | |
|--------|---------|--------|
| 94 dB | 31.5 Hz | ± 0.15 |
| | 63 Hz | ± 0.10 |
| | 125 Hz | ± 0.05 |
| | 250 Hz | ± 0.05 |
| | 500 Hz | ± 0.05 |
| | 1000 Hz | ± 0.05 |
| | 2000 Hz | ± 0.05 |
| | 4000 Hz | ± 0.05 |
| 104 dB | 1000 Hz | ± 0.05 |
| 114 dB | 1000 Hz | ± 0.05 |

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: AP-121-029-CC001

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CALIBRATION CERTIFICATE

| Certificate Information | | | | | | | | | | | | | | | | |
|--|--|------------------|-------------|--------------|--|-------------------|-----------|-----|------------------|--------------|--|--------------|----------------|--|--------------|------------------|
| Date of Issue | 7-Aug-2021 | | | | | | | | | | | | | | | |
| Certificate Number | MLCN212053S | | | | | | | | | | | | | | | |
| Customer Information | | | | | | | | | | | | | | | | |
| Company Name | Acuity Sustainability Consulting Limited | | | | | | | | | | | | | | | |
| Address | Unit C, 11/F., Ford Glory Plaza, Nos. 37-39 Wing Hing Street, Cheung Sha Wan, Kowloon, HK | | | | | | | | | | | | | | | |
| Equipment-under-Test (EUT) | | | | | | | | | | | | | | | | |
| Description | Acoustic Calibrator | | | | | | | | | | | | | | | |
| Manufacturer | Pulsar | | | | | | | | | | | | | | | |
| Model Number | 105 | | | | | | | | | | | | | | | |
| Serial Number | 63705 | | | | | | | | | | | | | | | |
| Equipment Number | -- | | | | | | | | | | | | | | | |
| Calibration Particular | | | | | | | | | | | | | | | | |
| Date of Calibration | 7-Aug-2021 | | | | | | | | | | | | | | | |
| Calibration Equipment | 4231(MLTE008) / AV200063 / 23-Jun-23 1357(MLTE190) / MLEC21/05/02 / 26-May-22 | | | | | | | | | | | | | | | |
| Calibration Procedure | MLCG00, MLCG15 | | | | | | | | | | | | | | | |
| Calibration Conditions | <table border="1"> <tr> <td>Laboratory</td> <td>Temperature</td> <td>23 °C ± 5 °C</td> </tr> <tr> <td></td> <td>Relative Humidity</td> <td>55% ± 25%</td> </tr> <tr> <td>EUT</td> <td>Stabilizing Time</td> <td>Over 3 hours</td> </tr> <tr> <td></td> <td>Warm-up Time</td> <td>Not applicable</td> </tr> <tr> <td></td> <td>Power Supply</td> <td>Internal battery</td> </tr> </table> | Laboratory | Temperature | 23 °C ± 5 °C | | Relative Humidity | 55% ± 25% | EUT | Stabilizing Time | Over 3 hours | | Warm-up Time | Not applicable | | Power Supply | Internal battery |
| Laboratory | Temperature | 23 °C ± 5 °C | | | | | | | | | | | | | | |
| | Relative Humidity | 55% ± 25% | | | | | | | | | | | | | | |
| EUT | Stabilizing Time | Over 3 hours | | | | | | | | | | | | | | |
| | Warm-up Time | Not applicable | | | | | | | | | | | | | | |
| | Power Supply | Internal battery | | | | | | | | | | | | | | |
| Calibration Results | Calibration data were detailed in the continuation pages. All calibration results were within EUT specification. | | | | | | | | | | | | | | | |
| Approved By & Date | | | | | | | | | | | | | | | | |
| |  K.O. Lo 7-Aug-2021 | | | | | | | | | | | | | | | |
| Statements | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> * Calibration equipment used for this calibration are traceable to national / international standards. * The results on this Calibration Certificate only relate to the values measured at the time of the calibration and the uncertainties quoted will not include allowance for the EUT long term drift, variation with environmental changes, vibration and shock during transportation, overloading, mishandling, misuse, and the capacity of any other laboratory to repeat the measurement. * MaxLab Calibration Centre Limited shall not be liable for any loss or damage resulting from the use of the EUT. * The copy of this Certificate is owned by MaxLab Calibration Centre Limited. No part of this Certificate may be reproduced without the prior written approval of MaxLab Calibration Centre Limited. | | | | | | | | | | | | | | | | |

Page 1 of 2

萬儀校正中心有限公司
MaxLab Calibration Centre Limited

香港新界葵涌蕙星街16-18號保盈工業大廈9樓B室
Unit B, 9/F., Baldwin Industrial Bldg., 16-18 Wah Sing Street, Kwai Chung, N.T., Hong Kong Tel: (852) 2116 1390 Fax: (852) 2264 6480 Email: info@maxlab.com.hk



Certificate No. MLCN212053S

| <i>Calibration Data</i> | | | | |
|-------------------------|------------------|------------------------|-------------------------|-------------------|
| EUT Setting | Standard Reading | EUT Error from Setting | Calibration Uncertainty | EUT Specification |
| 94 dB | 93.9 dB | -0.1 dB | 0.20 dB | ± 0.2 dB |

- END -

Calibrated By : Keneth
Date : 7-Aug-21

Checked By : K.O. Lo
Date : 7-Aug-21

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萬儀校正中心有限公司
MaxLab Calibration Centre Limited

香港新界葵涌華星街16-18號保登工業大廈9樓B室

Unit B, 9/F., Baldwin Industrial Bldg., 16-18 Wah Sing Street, Kwai Chung, N.T., Hong Kong Tel: (852) 2118 1380 Fax: (852) 2264 6480 Email: info@maxlab.com.hk



 **Certificate of Conformity**

This instrument was produced under rigorous factory production control and documented standard procedures. It was individually visually inspected, leak tested and function tested for display, backlight, button and software performance. The accuracy of each of its primary measurements was individually calibrated and/or tested against standards traceable to the National Institute of Standards and Technology ("NIST") or calibrated intermediary standards. This instrument is certified to have performed at the time of manufacture in compliance with the following specifications as they apply to this meter's specific model, measurements and features.

Methods Used in Calibration and Testing

Wind Speed:

The Kestrel Weather & Environmental Meter impeller installed in this unit was individually tested in a subsonic wind tunnel operating at approximately 300 fpm (1.5 m/s) and 1200 fpm (6.1 m/s) monitored by a Gill Instruments Model 1350 ultrasonic time-of-flight anemometer. The Standard's maximum combined uncertainty is +/-1.04% within the airspeed range 706.6 to 3923.9 fpm (3.59 to 19.93 m/s), and +/-1.66% within the airspeed range 166.6 to 706.6 fpm (0.85 to 3.59 m/s).

Temperature:

Temperature response is verified in comparison with a Eutechnics 4600 Precision Thermometer or a standard Kestrel 4000 Weather & Environmental Meter calibrated weekly against the Eutechnics 4600. The Eutechnics 4600 is calibrated annually and is traceable to NIST with a system accuracy of +/- 0.05 °C.

Direction / Heading

The sensitivity of the magnetic directional sensor is verified at the component level by applying a magnetic field to the sensor and measuring the signal output at 4 points, as well as after assembly by orienting the unit to the cardinal directions and measuring the magnetic field output. In both cases, the compass output must be accurate to within +/- 5 degrees.

Relative Humidity:

Relative humidity receives a two-point calibration in humidity and temperature controlled chambers at 75.3% RH and 32.8% RH at 25° C. The calibration tanks are monitored with an Edgetech Model 2002 DewPrime II Standard Chilled Mirror Hygrometer. Following calibration, performance is further verified at an RH of approximately 43.2% against the Edgetech Hygrometer. The Edgetech Hygrometer is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of +/- 0.2% RH.

Barometric Pressure:

Pressure response is verified against a Vaisala PTB210A Digital Barometer or a standard Kestrel 4000 Weather & Environmental Meter calibrated weekly against the Vaisala Barometer. The Vaisala Barometer is calibrated annually and is traceable to NIST with an accuracy of +/-0.15 hPa at +20°C defined as the root sum of the squares (RSS) of end point non-linearity, hysteresis error, repeatability error and calibration uncertainty at room temperature.

Approved By:


Michael Naughton, Engineering Manager

The enclosed Kestrel Weather & Environmental Meter was manufactured by Nelson-Kellerman Co. at its facilities located at 21 Creek Circle, Boothwyn, PA 19061 USA.

Appendix F

Event/Action Plan for Noise Exceedance

Event and Action Plan for Construction Noise Monitoring

| Event | Action | ET | IEC | ER | Contractor |
|--------------|---|---|---|--|------------|
| Action Level | <ol style="list-style-type: none"> Carry out investigation to identify the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required 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 | <ol style="list-style-type: none"> Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of Notification of Exceedance in writing Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented | <ol style="list-style-type: none"> Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation proposals. | |

| | | | | |
|-------------|---|--|---|---|
| Limit Level | <ol style="list-style-type: none"> Notify IEC, ER, EPD and Contractor Identify the source(s) of impact by reviewing all the relevant monitoring data and the corresponding construction activities. Exceedances should also be confirmed by immediate verification in the field as far as practical. Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. inform IEC, ER and EPD the cause & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> Discuss amongst ER, ET, and Contractor on the potential remedial actions Review Contractor's remedial actions to assure their effectiveness and advise the ER & ET accordingly Supervise the implementation of the remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of exceedance in writing Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted | <ol style="list-style-type: none"> Take immediate action to avoid further exceedance Identify practicable measures to minimize the noise impact. Submit proposals for remedial actions to ER within three working days of notification Implement the agreed proposals Resubmit proposal if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated |
|-------------|---|--|---|---|

Appendix G

Noise Monitoring Data

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| Date | Time | Weather | Leq-5min, dB(A) | | | | | | Leq-30min, dB(A) | L1030mins, dB(A) | L9030mins, dB(A) | Limit Level, dB(A)* | Noise Meter |
|------------|---------------|---------|-----------------|-------------|-------------|-------------|-------------|-------------|------------------|------------------|------------------|---------------------|---------------|
| | | | Reading (1) | Reading (2) | Reading (3) | Reading (4) | Reading (5) | Reading (6) | | | | | |
| 04/11/2021 | 15:00 - 15:30 | Sunny | 67.4 | 66.5 | 68 | 66.9 | 66.8 | 65.9 | 67.0 | 70.1 | 58.9 | 70.0 | NTi XL2 13661 |
| 12/11/2021 | 11:01 - 11:31 | Sunny | 68.7 | 66.4 | 69.6 | 66.4 | 65.7 | 65.7 | 67.4 | 71.2 | 56.7 | 70.0 | NTi XL2 13661 |
| 18/11/2021 | 10:45 - 11:15 | Sunny | 69.9 | 68.4 | 67.8 | 66.8 | 67.0 | 66.9 | 67.9 | 71.6 | 56.6 | 70.0 | Svantek 971 |
| 25/11/2021 | 14:40 - 15:10 | Fine | 67.4 | 64.8 | 67.3 | 70.3 | 66.4 | 66.7 | 67.5 | 70.4 | 60.8 | 70.0 | NTi XL2 13661 |

Remarks:

*No examinations were scheduled for NSR4 Creative Secondary School in the reporting month. Academic School Calendar can be found in Appendix O.

Appendix H

Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: WSD Contract No. / Works Order No.: 13/WSD/16

Monthly Summary Waste Flow Table for November 2021

| Month | Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly | | | | | |
|----------------|--|---|--------------------------|--------------------------|----------------------------|-------------------------------|
| | 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 |
| 2020 | 13.173 | 1.506 | 0.291 | 0.000 | 12.878 | 1.323 |
| Jan 2021 | 2.438 | 0.120 | 0.000 | 0.000 | 2.438 | 0.127 |
| Feb-2021 | 1.702 | 0.224 | 0.000 | 0.000 | 1.702 | 0.537 |
| Mar-2021 | 2.780 | 0.163 | 0.000 | 0.000 | 2.780 | 1.361 |
| Apr-2021 | 2.338 | 0.271 | 0.222 | 0.000 | 2.116 | 0.629 |
| May-2021 | 2.265 | 0.125 | 0.360 | 0.000 | 1.906 | 0.340 |
| Jun-2021 | 2.017 | 0.135 | 0.221 | 0.000 | 1.796 | 1.148 |
| Jul-2021 | 2.003 | 0.059 | 0.109 | 0.000 | 1.894 | 1.352 |
| Aug-2021 | 1.223 | 0.026 | 0.455 | 0.000 | 1.223 | 0.590 |
| Sep-2021 | 2.584 | 0.097 | 0.911 | 0.000 | 1.673 | 0.746 |
| Oct-2021 | 1.857 | 0.060 | 0.252 | 0.000 | 1.605 | 0.653 |
| Nov-2021 | 2.127 | 0.099 | 0.000 | 0.000 | 1.950 | 0.177 |
| | | | | | | |
| Total for 2021 | 23.334 | 1.379 | 2.530 | 0.000 | 21.083 | 7.660 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| Month | Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly | | | | |
|-----------------------|--|----------------------------|-----------------------|----------------|--|
| | 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 |
| 2020 | 0.000 | 0.606 | 0.000 | 0.000 | 0.043 |
| Jan 2021 | 0.000 | 0.065 | 0.000 | 0.000 | 0.006 |
| Feb-2021 | 0.000 | 0.058 | 0.000 | 0.000 | 0.012 |
| Mar-2021 | 0.000 | 0.055 | 0.000 | 0.000 | 0.002 |
| Apr-2021 | 0.000 | 0.045 | 0.000 | 0.000 | 0.008 |
| May-2021 | 0.000 | 0.049 | 0.000 | 0.000 | 0.006 |
| Jun-2021 | 0.000 | 0.051 | 0.000 | 0.000 | 0.000 |
| Jul-2021 | 0.000 | 0.052 | 0.000 | 0.000 | 0.005 |
| Aug-2021 | 0.000 | 0.048 | 0.000 | 0.000 | 0.000 |
| Sep-2021 | 0.000 | 0.037 | 0.000 | 0.000 | 0.002 |
| Oct-2021 | 0.000 | 0.042 | 0.000 | 0.000 | 0.002 |
| Nov-2021 | 0.000 | 0.050 | 0.000 | 0.000 | 0.001 |
| | | | | | |
| Total for 2021 | 0.000 | 0.552 | 0.000 | 0.000 | 0.044 |

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.

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 (m³) on a scale of 0.5.
6. Source and types of Imported Fill in the reporting month
 - i. K. Wah Quarry Company Limited: (Soil) 0 m³ (0 tonnes/0 cars)
 - ii. K. Wah Quarry Company Limited: (Sub-base) 176.795 m³ (353.59 tonnes/7 car)

7. Hard Rock and Large Broken Concrete are disposed to public fill, the breakdown of C&D materials disposed to public fill is shown as below:

| Type of C&D Materials | Description of C&D Materials | C&D Waste Disposed (Volume) (m ³) |
|-----------------------|---------------------------------------|---|
| Inert | Bentonite | 28.80 |
| | Broken Concrete | 53.05 |
| | Broken Rock | 45.90 |
| | Mixed Construction Waste (>50% inert) | 0.00 |
| | Building Debris | 0.00 |
| | Mixed Rock and Soil | 1051.55 |
| | Reclaimed Asphalt Pavement | 98.95 |
| | Slurry | 218.00 |
| | Soil | 453.45 |
| | TOTAL = | 1949.70 |
| Non-inert | TOTAL = | 12.25 |

Appendix I

Landfill Gas Monitoring Equipment Calibration Certificate



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

PGM-2500 (QRAE III) --- LEL/O2/CO/H2S

UNIT INFORMATION :

| | | | | | |
|-----------|---------------------------------|-----------|-------------|------------|---------------|
| Customer: | Penta Ocean Construction Co Ltd | Serial #: | M02A001708 | Model: | QRAE III |
| | | Firmware: | V2.12 | Sensor: | LEL/O2/CO/H2S |
| | | Cal date: | 28-Jul-2021 | Inspected: | Teddy |

SENSOR DATA :

| | LEL sensor (ME) | O2 sensor | CO sensor (Tox1) | H2S sensor (Tox2) |
|--------------------------|-----------------|-------------|------------------|-------------------|
| Calibration dates: | 28-Jul-2021 | 28-Jul-2021 | 28-Jul-2021 | 28-Jul-2021 |
| After Calibration levels | 50% | 17.90% | 50 ppm | 10.1 ppm |
| Alarm levels (Low): | 10.00% | 19.50% | 35 ppm | 10 ppm |
| Alarm levels (High): | 20.00% | 23.50% | 200 ppm | 20 ppm |
| TWA Level: | -- | -- | 35 ppm | 10 ppm |
| STEL Level: | -- | -- | 100 ppm | 15 ppm |

Status:

| | | | |
|------------|-----|------------|---------|
| Pump Speed | Low | Back Light | Manual |
| Clock | Yes | Measure | Average |

LEL Gas Selection

| | | | |
|---------------------|----------------|---------------------|---------|
| LEL Calibration Gas | Methane | LEL measurement Gas | Methane |
| LEL Custom Gas | LEL_custom_gas | LEL Custom Factor | 1.0 |

Gas types used : 4-Gas Mix: (18% O2, 50ppm CO, 10ppm H2S, 50% LEL CH4, BAL N2) Gas lot #1412983 Cyl# 15

*** Fresh Air Calibration is highly recommended to proceed prior for measurement each time.

Replaced Parts:

Notes:

The unit was calibrated and checked under good working condition

**Next calibration due on or before 27 July 2022

Serviced by  Teddy Wong
 Rotter International Ltd

Honeywell Protection Through Detection 1349 Moffett Park Drive,
 Sunnyvale, CA 94089 USA
 www.raesystems.com Main: 408-952-8200

Calibration and Test Certificate

Product Name: MultiRAE Lite
Model Number: PGM-6208
Serial Number: M01C031772
Calibration/Inspection Date: 6/4/2021

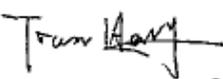
Calibration Gases:

| # | Gas | Concentration | Balance | Lot# |
|---|--------------------------------------|---------------|----------------------------|----------|
| 1 | Hydrogen Sulfide(H ₂ S) | 10ppm | Nitrogen(N ₂) | 20210508 |
| 2 | Carbon Monoxide(CO) | 50ppm | | |
| 3 | Oxygen(O ₂) | 18% | | |
| 4 | Methane(CH ₄) | 50%LEL | | |
| 5 | Sulfur Dioxide(SO ₂) | 5ppm | Nitrogen(N ₂) | 20210114 |
| 6 | Carbon Dioxide(CO ₂) | 5000ppm | Nitrogen(N ₂) | 20201203 |

Test Results:

| # | Sensor | Span | UOM |
|---|------------------------------|-----------|------|
| 1 | LEL | 51 | %LEL |
| 2 | SO ₂ | 5.2 | ppm |
| 3 | COSH (H ₂ S / CO) | 10.1 / 51 | ppm |
| 4 | Pb O ₂ | 17.8 | % |
| 5 | CO ₂ | 4900 | ppm |

This instrument has been calibrated using valid calibration gases and instrument manual operation procedures. Test and calibration data is on file with the manufacturer, RAE Systems.

Approved By: 
 86-05-51832593



Calibration Certificate

GDJ7

Cert. Ref. No.: BW/XT/4TH/16428

Date: 2021 06 08

EXP-08/06/2022

Customer: Victory Trenchless Engineering Co., Ltd.
 Lot 1477B,
 77 Ping Che,
 Fanling, N.T.
Attn: Ms Emily Fung **Tel:** 3525 8826

Purchase Order No.: P-17-0488
Date: 2017 11 09 **INVOICE NO:** AP
Email: emily@vtechk.com
Fax: 3525 1088 **Mobile Phone:**

User Details:

Gas Detector Model: XT-XWHM-Y-OR **Serial No.:** MA217-022158 **Pump S/N:** 56310

Calibration Record:

| Inspection before calibration | Visual inspection | Functional Test |
|--|-------------------|-----------------|
| Basic Unit - Case, Clip & Display etc. | OK | OK |
| Battery and charge etc. | OK | OK |
| Motorized Pump | OK | OK |
| Other items | | |

| Type of Sensor | Expiry Date |
|-------------------------|-------------|
| Oxygen Sensor | |
| CO & H2S Sensor | |
| Combustible(LEL) Sensor | |

| Type of calibration | Date of calibration | H2S (ppm) | CO (ppm) | O2 (%) | LEL (%) |
|------------------------------|---------------------|-----------|----------|--------|---------|
| 4th Calibration | 2021 06 08 | 25 | 100 | 18 | 50 |
| Result of Calibration | | OK | OK | OK | OK |

Calibration Cost: (As per attached invoice) F.O.C

Calibration remarks: Oxygen sensor replaced by new one
 Warranty : Oxygen Sensor 1 years warranty

Next calibration date of this instrument will be : 2022 06 08

IMPORTANT NOTES TO BW GAS DETECTOR USERS

USERS MUST READ THE OPERATOR'S MANUAL THOROUGHLY BEFORE OPERATING THIS EQUIPMENT AND FOLLOW THEIR OWN SAFETY SUPERVISOR'S INSTRUCTION TO WORK.

All gas detection instrumentation on the market requires periodic calibration to accurately measure gas. Calibration is only as accurate as the test gas used. BW Technologies quality test gases are made to the highest accuracy and trace-ability to N. I.S.T. Standards.



Calibrated By: Sara Tse **Service Hotline: 2592 2120 Ms. Tse - Service Dept.**

Asia Pacific Industrial Safety Equipment
 Unit B, 1/F., Hing Yip Centre, 31 Hing Yip Street,
 Kwun Tong, Kowloon, Hong Kong
 Tel: 2592 2100 Fax: 3165 8960

Asia Technologies
 亞洲科技

Appendix J

Landfill Gas Monitoring Data

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 1/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1010 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1008 | 5.5 |
| Area B | 1/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1009 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office (Renopipe)) | | 01/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 01/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|--------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| PGM-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

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

| 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) |
| WPRTTA 1 | 1/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1100.9 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1101.1 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.9 | 3.5 |
| WPRTTA 2 | 1/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.9 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1100.9 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.8 | 3.8 |
| WPRTTA 3 | 1/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1100.9 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1101.0 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.8 | 4.3 |
| WPRTTA 4 | 1/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.9 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1100.9 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1100.8 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 1/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wei Kit | | 1/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 1/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.5 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.2 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.2 | 13 |
| SHR PIT D | 1/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.3 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.3 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 10.2 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 1/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO Chak Wai Kit | | 4/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 2/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 5.5 |
| Area B | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1009 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1008 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 02/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 02/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 2/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.8 | 25/1008 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.8 | 26/1008 | 3.5 |
| WPRTTA 2 | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26/1009 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26/1009 | 3.8 |
| WPRTTA 3 | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1009 | 4.3 |
| WPRTTA 4 | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1009 | 4 |

| | Name & Designation | Signature | Date |
|-------------------|------------------------------------|-----------|-----------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 2/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chek Wai Kit RSO POC JV | | 2/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 2/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1012 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1012 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1013 | 13 |
| SHR PIT D | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1014 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1013 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 2/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO / OCTV Chek Wai Kit | | 2/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 3/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1008 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 5.5 |
| Area B | 3/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office (Renopipe)) | | 03/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 03/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|--------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| PGM-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

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

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPRTTA 1 | 2/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26/1008 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1008 | 3.5 |
| WPRTTA 2 | 3/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1008 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 3.8 |
| WPRTTA 3 | 2/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1008 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26/1008 | 4.3 |
| WPRTTA 4 | 3/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1008 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1008 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 3/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 羅偉傑 pccsv RSO | | 3/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 3/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/11/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/11/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/11/21 | 13 |
| SHR PIT D | 3/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/11/21 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/11/21 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26/11/21 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | |
| Laboratory Staff: | | | 3/11/2021 |
| Checked by: | 翟偉傑 Cheuk Wai Kit RSO POC JV | | 3/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 4/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 5.5 |
| Area B | 4/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1008 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 04/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 04/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 4/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.8 | 24/1100.8 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.8 | 24/1100.8 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1101.0 | 3.5 |
| WPRTTA 2 | 4/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1100.8 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1100.8 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1100.8 | 3.8 |
| WPRTTA 3 | 4/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1101.0 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.8 | 25/1100.8 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1100.8 | 4.3 |
| WPRTTA 4 | 4/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1100.8 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.8 | 25/1101.0 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1100.8 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 4/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wai Kit | | 4/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPR PITA | 4/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1013 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1014 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1014 | 13 |
| SHR PIT D | 4/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1014 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1014 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 4/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wai Kit | | 4/11/2021 |

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 5/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1010 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1008 | 5.5 |
| Area B | 5/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 05/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng. (T.A.) | | 05/11/21 |

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



Contract no. 13/WSD/16
Mainlaying in Tseung Kwan O
Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 5/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.5 | 24/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1010 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.5 | 28/1010 | 3.5 |
| WPRTTA 2 | 5/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.5 | 28/1009 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1008 | 3.8 |
| WPRTTA 3 | 5/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.5 | 28/1008 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1010 | 4.3 |
| WPRTTA 4 | 5/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.5 | 28/1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/1010 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 5/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wai Kit RSO pccsv | | 5/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 5/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1013 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1014 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1014 | 13 |
| SHR PIT D | 5/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1015 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1015 | 12.2 |

| | | | |
|-------------------|--|--|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) |  | 5/11/2021 |
| Laboratory Staff: | | | |
| Checked by: |  Chek Wai Kit RSO POC JV |  | 5/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 6/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1010 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1009 | 5.5 |
| Area B | 6/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28 / 1008 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 27 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 06/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 06/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPRTTA 1 | 6/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 29.1/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 29.1/1010 | 3.5 |
| WPRTTA 2 | 6/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1010 | 3.8 |
| WPRTTA 3 | 6/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1010 | 4.3 |
| WPRTTA 4 | 6/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1008 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 26.1/1010 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 6/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wai Kit | | 6/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 6/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/10 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/12 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/13 | 13 |
| SHR PIT D | 6/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/14 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/14 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 28/10/12 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 6/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 程偉傑 Chak Wei Kit RSO. poosv | | 6/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 8/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1008 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 5.5 |
| Area B | 8/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1008 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 08/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 08/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 8/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1009 | 3.5 |
| WPRTTA 2 | 8/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.8 |
| WPRTTA 3 | 8/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 4.3 |
| WPRTTA 4 | 8/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1009 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 4 |

| | Name & Designation | Signature | Date |
|-------------------|------------------------------------|-----------|-----------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 8/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | Cheung Wai Kit RSO POC JV | | 8/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 8/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1013 | 13 |
| SHR PIT D | 8/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1013 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1014 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1014 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 8/11/2021 |
| Laboratory Staff: | | | 8/11/2021 |
| Checked by: | Cheuk Wai Kit RSO pccrv | | |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 9/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 17 / 1009 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1010 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 5.5 |
| Area B | 9/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 09/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 09/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 9/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/1009 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1009 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.5 |
| WPRTTA 2 | 9/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.8 |
| WPRTTA 3 | 9/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1009 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 4.3 |
| WPRTTA 4 | 9/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1009 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1009 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 9/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO pccsv Chak Wai Kit | | 9/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPR PITA | 9/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/2 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/4 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/4 | 13 |
| SHR PIT D | 9/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/10/3 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/10/2 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/2 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 9/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO POLSV Chak Wai Kit | | 9/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 10/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 5.5 |
| Area B | 10/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 10/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Samm Ng. (T.A.) | | 10/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 10/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 3.5 |
| WPRTTA 2 | 10/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1008 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.8 |
| WPRTTA 3 | 10/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 4.3 |
| WPRTTA 4 | 10/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1009 | 4 |

| | | | |
|-------------------|------------------------------------|-----------|------------|
| | Name & Designation | Signature | Date |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 10/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO pcc JV Chuk Wai Kit | | 10/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 10/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 13 |
| SHR PIT D | 10/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/11/21 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 10/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉健 RSC Chok Wai Kin | | 10/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 11/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1009 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 5.5 |
| Area B | 11/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 11/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 11/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPRTTA 1 | 11/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1508 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1508 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1508 | 3.5 |
| WPRTTA 2 | 11/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1508 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1510 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1508 | 3.8 |
| WPRTTA 3 | 11/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1508 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1508 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1510 | 4.3 |
| WPRTTA 4 | 11/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1510 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1510 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1508 | 4 |

| | | | |
|-------------------|---|---|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) |  | 11/11/2021 |
| Laboratory Staff: | | | |
| Checked by: |  翟偉傑 Cheuk Wai Kit RSO POCJV |  | 11/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 11/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11/21 | 13 |
| SHR PIT D | 11/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11/21 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11/21 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11/21 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 11/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chak Wai Kit RSO pOCTV | | 11/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 12/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1010 | 5.5 |
| Area B | 12/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 12/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng. (T.A.) | | 12/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 12/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1000 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1000 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1000 | 3.5 |
| WPRTTA 2 | 12/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1000 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1000 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1000 | 3.8 |
| WPRTTA 3 | 12/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1000 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1000 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1000 | 4.3 |
| WPRTTA 4 | 12/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.8 | 21 / 1000 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1000 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1000 | 4 |

| | Name & Designation | Signature | Date |
|-------------------|------------------------------------|-----------|------------|
| Field Operator: | Dash Ip (Safety Office (Renopipe)) | | 12/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO POC-TV Chak Wai Kit | | 12/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|--------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| PGM-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

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

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPR PITA | 12/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11013 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11013 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11014 | 13 |
| SHR PIT D | 12/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/11014 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/11015 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 12/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 程偉傑 Chak Wai Kit RSC POC JV | | 12/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 13/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1008 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1008 | 5.5 |
| Area B | 13/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash ip (Safety Office [Renopipe]) | | 13/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 13/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 13/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 3.5 |
| WPRTTA 2 | 13/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 3.8 |
| WPRTTA 3 | 13/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 4.3 |
| WPRTTA 4 | 13/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1008 | 4 |

| | Name & Designation | Signature | Date |
|-------------------|------------------------------------|-----------|------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 13/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chek Wai Kit RSO POC JV | | 13/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|--------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| PGM-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

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

| 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) |
| WPR PITA | 13/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1014 | 12 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1013 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1013 | 13 |
| SHR PIT D | 13/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1013 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1013 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 13/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO POC JV Cheuk Wai Kit | | 13/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 15/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1008 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1008 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1008 | 5.5 |
| Area B | 15/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1009 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 15/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.A.) | | 15/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 15/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1008 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1009 | 3.5 |
| WPRTTA 2 | 15/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1009 | 3.8 |
| WPRTTA 3 | 15/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1009 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1008 | 4.3 |
| WPRTTA 4 | 15/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1008 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1008 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 15/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 甄偉傑 Chan Wai Kit RSO PCCIV | | 15/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 15/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1013 | 1.3 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1014 | 1.3 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1014 | 1.3 |
| SHR PIT D | 15/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1013 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1013 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|---------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 15/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO Chak Wai Kit RSO poc.jv | | 15/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 - 2000 (GAGE) | 28-7-21 |
| | |

| 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) |
| Pit B | 15-11-2021 | 12:05 | Rain / Fine | 0 | 0 | 0 | 20.9 | 31 / 999 | 3 |
| | 15-11-21 | 13:05 | Fine | 0 | 0 | 0 | 20.9 | 31 / 999 | 3 |
| | 15-11-21 | 17:05 | Fine | 0 | 0 | 0 | 20.9 | 30 / 996 | 3 |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |
| | | | | | | | | / | |

| | Name & Designation | Signature | Date |
|-------------------|---------------------------|-----------|------------|
| Field Operator: | Chen Wai Chi [Wellcon] CP | | 15-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | 程偉傑 Chek Wai Kit POCJV | | 15-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 16/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 5.5 |
| Area B | 16/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 16/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng (T.O.) | | 16/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
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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) |
| WPRTTA 1 | 16/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1008 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1010 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1010 | 3.5 |
| WPRTTA 2 | 16/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1009 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1009 | 3.8 |
| WPRTTA 3 | 16/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1009 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25/1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.7 | 24/1010 | 4.3 |
| WPRTTA 4 | 16/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1008 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1010 | 4 |

| | Name & Designation | Signature | Date |
|-------------------|------------------------------------|-----------|------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 16/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO: pocsv Chak Wai Kin | | 16/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 16/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1014 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1014 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1013 | 13 |
| SHR PIT D | 16/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1014 | 12.2 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1014 | 12.2 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1015 | 12.2 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|--|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 16/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 RSO POC JV <small>Check 'Wai' Kit</small> | | 16/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PQM-100 (ORA-11) | 28-7-21 |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | |
|-----------------|---------------------|---------------|---|----------------|---------------------------|--------------------|------------|-----------------------------|------------------|
| | | | Weather condition | Balace gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | Remark Depth (m) |
| Pit B | 16-11-2021 | 08:05 | Rain / Fine | 0 | 0 | 0 | 20.7 | 29 / 999 | 9 |
| | 16-11-21 | 13:05 | Fine | 0 | 0 | 0 | 20.9 | 30 / 997 | 9 |
| | 16-11-21 | 17:10 | Fine | 0 | 0 | 0 | 20.9 | 29 / 999 | 9 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------|-------------|
| Field Operator: | Chen Wa. Chi (Wellcon) CP | | 16-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Chai Wei Kit POCJV | | 16-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 17/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1012 | 5.5 |
| Area B | 17/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1012 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1011 | 2.5 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office {Renopipe}) | | 17/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 17/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
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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) |
| WPRTTA 1 | 17/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 3.5 |
| WPRTTA 2 | 17/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1010 | 3.8 |
| WPRTTA 3 | 17/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 4.3 |
| WPRTTA 4 | 17/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1008 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 4 |

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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 17/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 17/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
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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) |
| WPR PITA | 17/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/10/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/10/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/10/21 | 13 |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 17/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 17/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PCM-200 (ARA-11) | 28-11-21 |
| | |

| 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) |
| Pit B | 17-11-2021 | 13:00 | Rain / Fine | 0 | 0 | 0 | 20.9 | 28 / 999 | 4 |
| | 17-11-21 | 13:06 | Fine | 0 | 0 | 0 | 20.9 | 28 / 999 | 4 |
| | 17-11-21 | 13:08 | Fine | 0 | 0 | 0 | 20.9 | 28 / 996 | 4 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------|-------------|
| Field Operator: | Chan Wai Chi (Wellcon) CP | | 17-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | 翟偉傑 Oral Wai Kit | | 17-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 18/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1013 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1011 | 5.5 |
| Area B | 18/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1013 | 2.5 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 18/11/21 |
| Laboratory Staff: | | | |
| Checked by: | San Ng | | 18/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 18/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1009 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 3.5 |
| WPRTTA 2 | 18/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1009 | 3.8 |
| WPRTTA 3 | 18/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1010 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 4.3 |
| WPRTTA 4 | 18/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 4 |

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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office {Renopipe}) | Ⓢ | 18/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 18/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 18/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/10/1 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/10/2 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/10/2 | 13 |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 18/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 18/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PPM-2500 (GRAB-11) | 28-7-21 |
| | |

| 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) |
| Pit B | 18-11-2021 | 08:05 | Rain / Fine | 0 | 0 | 0 | 20.8 | 28 / 999 | 9 |
| | 18-11-21 | 17:05 | Fine | 0 | 0 | 0 | 20.8 | 28 / 999 | 9 |
| | 18-11-21 | 17:28 | Fine | 0 | 0 | 0 | 20.8 | 28 / 999 | 9 |
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| Name & Designation | Signature | Date |
|---|-----------|------------|
| Field Operator: <u>Chan Wai King</u> [Wellcon] CP | | 18-11-2021 |
| Laboratory Staff: | | |
| Checked by: <u>翟偉傑</u> POCJV <small>Chak Wai Kit</small> | | 18-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 19/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1011 | 5.5 |
| Area B | 19/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 19/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 19/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 19/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1010 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1011 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24/1011 | 3.5 |
| WPRTTA 2 | 19/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1011 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1010 | 3.8 |
| WPRTTA 3 | 19/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1013 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1012 | 4.3 |
| WPRTTA 4 | 19/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 19/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 19/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPR PITA | 19/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/1011 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1011 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23/1012 | 13 |
| | | | | | | | | | |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 19/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 19/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PCA-2000 (GAGE 41) | 22-7-21 |
| | |

| 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) |
| Pit B | 18-11-2021 | 12:10 | Rain (Fine) | 0 | 0 | 0 | 20.7 | 30 / 999 | 7 |
| | 18-11-21 | 12:05 | Fine | 0 | 0 | 0 | 20.7 | 30 / 992 | 7 |
| | 18-11-21 | 12:05 | Fine | 0 | 0 | 0 | 20.7 | 30 / 992 | 7 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------|-------------|
| Field Operator: | Chan Wai Chi [Wellcon] CP | | 19-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | Chan Wai Kit POCJV | | 19-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 20/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1009 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 5.5 |
| Area B | 20/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1009 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1008 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 20/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng | | 20/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

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

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|--------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| PGM-2500P (QRAE II) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 20/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 3.5 |
| WPRTTA 2 | 20/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1012 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 3.8 |
| WPRTTA 3 | 20/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1010 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 4.3 |
| WPRTTA 4 | 20/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1012 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1012 | 4 |

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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 20/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 20/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
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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) |
| WPR PITA | 20/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 23 / 1012 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 25 / 1012 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 24 / 1010 | 13 |
| | | | | | | | | | |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 20/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 20/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PEM-2000 (GRAB-M) | 24-3-21 |
| | |

| 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) |
| Pit B | 20-11-2021 | 08:05 | Rain (Fine) | 0 | 0 | 0 | 20.9 | 28 / 999 | 9 |
| | 20-11-2021 | 12:05 | Fine | 0 | 0 | 0 | 20.8 | 20 / 999 | 9 |
| | 20-11-2021 | 17:05 | Fine | 0 | 0 | 0 | 20.8 | 28 / 996 | 9 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|----------------------------------|------------------|-------------|
| Field Operator: | Chan Wai Chi (Wellcon) CP | | 20-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | 瞿偉儀 Chan Wai Chi POCJV | | 20-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 22/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 5.5 |
| Area B | 22/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 2.5 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 22/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 22/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPRTTA 1 | 22/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 3.5 |
| WPRTTA 2 | 22/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 3.8 |
| WPRTTA 3 | 22/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1012 | 4.3 |
| WPRTTA 4 | 22/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 22/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 22/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 22/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 17/10/13 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/15 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/14 | 13 |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 22/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 22/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-1500 (6000-11) | 28-7-21 |
| | |

| 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) |
| Pit B | 22-11-2021 | 17:05 | Rain / Fine | 0 | 0 | 0 | 20.7 | 27 / 999 | 0 |
| | 22-11-2021 | 17:15 | Fine | 0 | 0 | 0 | 20.4 | 30 / 999 | 0 |
| | 22-11-2021 | 17:25 | Fine | 0 | 0 | 0 | 20.4 | 27 / 999 | 0 |
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Name & Designation Signature Date
 Field Operator: Chan Wai Kit (Wellcon) CP 22-11-2021
 Laboratory Staff:
 Checked by: 翟偉傑 POCJV 22-11-2021

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide(%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| Area A | 23/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 5.5 |
| Area B | 23/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 23/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng | | 23/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPRTTA 1 | 23/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 3.5 |
| WPRTTA 2 | 23/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1009 | 3.8 |
| WPRTTA 3 | 23/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1012 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1010 | 4.3 |
| WPRTTA 4 | 23/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1010 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15 / 1009 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16 / 1010 | 4 |

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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 23/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 23/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 23/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 15/10/2. | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16/10/3 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 16/10/3. | 13 |
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|-------------------|------------------------------------|--|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) |  | 23/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 23/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PM-2500 (ORAP-11) | 28-7-21 |
| | |

| 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) |
| Pit B | 23-11-2021 | 17:05 | Rain / Fine | 0 | 0 | 0 | 20.9 | 22 / 999 | 9 |
| | 23-11-21 | 13:05 | Fine | 0 | 0 | 0 | 20.9 | 22 / 999 | 9 |
| | 23-11-21 | 17:06 | Fine | 0 | 0 | 0 | 20.9 | 22 / 996 | 9 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|--|------------------|-------------|
| Field Operator: | Chan Wai Chi [Wellcon] CP | | 23-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | 羅偉傑 POCJV <small>Chak Wai Kit</small> | | 23-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 24/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 5.5 |
| Area B | 24/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1010 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 2.5 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 24/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 24/11/21 |

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



Contract no. 13/WSD/16
Mainlaying in Tseung Kwan O
Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPRTTA 1 | 24/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 3.5 |
| WPRTTA 2 | 24/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 17 / 1011 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1010 | 3.8 |
| WPRTTA 3 | 24/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 4.3 |
| WPRTTA 4 | 24/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1010 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 24/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 24/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 24/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/10/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/21 | 13 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 24/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 24/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2000 (CRAI-11) | 28-7-21 |
| | |

| 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) |
| Pit B | 24-11-2021 | 08:05 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29 / 696 | 9 |
| | 24-11-21 | 13:05 | Fine | 0 | 0 | 0 | 20.9 | 31 / 697 | 9 |
| | 24-11-21 | 17:10 | Fine | 0 | 0 | 0 | 20.9 | 31 / 696 | 9 |
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Name & Designation Signature Date

Field Operator: [Wellcon] CP *Shen Wei* 24-11-2021

Laboratory Staff:

Checked by: POCJV *Wong* 24-11-2021

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 25/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 5.5 |
| Area B | 25/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 25/11/21 |
| Laboratory Staff: | | | |
| Checked by: | Sam Ng | | 25/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPRTTA 1 | 25/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 3.5 |
| WPRTTA 2 | 25/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.8 |
| WPRTTA 3 | 25/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 4.3 |
| WPRTTA 4 | 25/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4 |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office (Renopipe)) | | 25/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 25/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| Sample location | Date of measurement | Sampling time | Monitoring wells / Surface Gas Emission | | | | | | Remark Depth (m) |
|-----------------|---------------------|---------------|---|-----------------|---------------------------|---------------------|------------|-----------------------------|---------------------|
| | | | Weather condition | Balance gas (%) | Flammable gas (methane %) | Carbon monoxide (%) | Oxygen (%) | Temp (°C) / Pressure (mbar) | |
| WPR PITA | 25/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/21 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/21 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/21 | 13 |
| | | | | | | | | | |
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|-------------------|------------------------------------|---|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) |  | 25/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 25/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PCA-250-CO2/CH4 | 25-7-21 |
| | |

| 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) |
| Pit B | 25-11-2021 | 08:05 | Rain (Fine) | 0 | 0 | 0 | 20.7 | 16 / 999 | 9 |
| | 25-11-21 | 13:05 | Fine | 0 | 0 | 0 | 20.8 | 22 / 999 | 9 |
| | 25-11-21 | 17:05 | Fine | 0 | 0 | 0 | 20.7 | 22 / 999 | 9 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|-----------------------------|-------------|
| Field Operator: | [Wellcon] CP | <i>Chun. Anis</i> | 25-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | <i>程偉傑</i> Cheng Wei Kie | 25-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 26/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1012 | 5.5 |
| Area B | 26/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 2.5 |
| | | | | | | | | | |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 26/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 26/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPRTTA 1 | 26/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1012 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1011 | 3.5 |
| WPRTTA 2 | 26/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1011 | 3.8 |
| WPRTTA 3 | 26/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 4.3 |
| WPRTTA 4 | 26/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1012 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1012 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 26/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 26/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture

Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 26/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19.1/0.13 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21.1/0.14 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21.1/0.13 | 13 |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office {Renopipe}) | | 26/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 26/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2000 (G24.4) | 26 Jul 2021 |
| | |

| 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) |
| Pit B | 26-11-2021 | 12:05 | Rain / Fine | 0 | 0 | 0 | 20.9 | 18 / 998 | 3 |
| | 26-11-2021 | 13:15 | Fine | 0 | 0 | 0 | 20.9 | 22 / 998 | 3 |
| | 26-11-2021 | 14:05 | Fine | 0 | 0 | 0 | 20.9 | 22 / 998 | 3 |
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| | Name & Designation | Signature | Date |
|-------------------|----------------------|---------------------|------------|
| Field Operator: | [Wellcon] CP | <i>Chen Mei Shi</i> | 26-11-2021 |
| Laboratory Staff: | 羅偉傑 Cook Well Kip | <i>[Signature]</i> | |
| Checked by: | POCJV | <i>[Signature]</i> | 26-11-2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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 A | 27/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 5.5 |
| Area B | 27/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1010 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 27/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 27/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 27/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 3.5 |
| WPRTTA 2 | 27/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1013 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 3.8 |
| WPRTTA 3 | 27/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 4.3 |
| WPRTTA 4 | 27/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1009 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1010 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 27/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 27/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 27/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/3 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22/10/4 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/10/3 | 13 |
| | | | | | | | | | |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 27/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 27/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| Beckman 100 (GC/MS) | 21 Jun 21 |
| | |

| 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) |
| Pit B | 27-11-2021 | 09:05 | Rain / Fine | 0 | 0 | 0 | 20.9 | 16 / 119 | 1 |
| | 27-11-2021 | 10:10 | Fine | 0 | 0 | 0 | 20.9 | 17 / 118 | 1 |
| | 27-11-2021 | 11:20 | Fine | 0 | 0 | 0 | 20.9 | 22 / 118 | 1 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------------------------|----------------|
| Field Operator: | [Wellcon) CP | <i>[Signature]</i> | 22/11 - 2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | <i>[Signature]</i> Chek Wai Kit | 21 - 11 - 2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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 A | 29/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1012 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1011 | 5.5 |
| Area B | 29/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1012 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 2.5 |
| | | | | | | | | | |
| | | | | | | | | | |

| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 29/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 29/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPRTTA 1 | 29/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1012 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 3.5 |
| WPRTTA 2 | 29/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 3.8 |
| WPRTTA 3 | 29/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1011 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 4.3 |
| WPRTTA 4 | 29/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19 / 1009 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1010 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20 / 1011 | 4 |

| | | | |
|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 29/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 29/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |
| | |

| 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) |
| WPR PITA | 29/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21 / 1012 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1013 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 22 / 1013 | 13 |
| | | | | | | | | | |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 29/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 29/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| PCA-2000 (GRAC-111) | 28 Jul 21 |
| | |

| 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) |
| Pit B | 29-11-2021 | 08:05 | Rain (Fine) | 0 | 0 | 0 | 20.7 | 20 / 999 | 9 |
| | 29-11-21 | 03:05 | Fine | 0 | 0 | 0 | 20.9 | 22 / 999 | 9 |
| | 29-11-21 | 17:05 | Fine | 0 | 0 | 0 | 20.7 | 22 / 999 | 9 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------|-------------|
| Field Operator: | [Wellcon] CP | | 29-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | 29-11-2021 |

ENVIRONMENTAL RESOURCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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 A | 30/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/10/2 | 5.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/11 | 5.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/12 | 5.5 |
| Area B | 30/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/11 | 2.5 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/11 | 2.5 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/10/12 | 2.5 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|------------------------------------|------------------|-------------|
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 30/11/21 |
| Laboratory Staff: | | | |
| Checked by: | | | 30/11/21 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
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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) |
| WPRTTA 1 | 30/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 3.5 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 3.5 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1011 | 3.5 |
| WPRTTA 2 | 30/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 18/1011 | 3.8 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1010 | 3.8 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 3.8 |
| WPRTTA 3 | 30/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19/1011 | 4.3 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21/1010 | 4.3 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 4.3 |
| WPRTTA 4 | 30/11/2021 | 0845 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 4 |
| | | 1345 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1011 | 4 |
| | | 1645 | Fine / Rain | 0 | 0 | 0 | 20.9 | 20/1010 | 4 |

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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 30/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 30/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



Contract no. 13/WSD/16
 Mainlaying in Tseung Kwan O
 Penta-Ocean - Concentric Joint Venture
Wan Po Road 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-2500P (QRAE III) | 28 JUL 2021 |
| | |

| 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) |
| WPR PITA | 30/11/2021 | 0830 | Fine / Rain | 0 | 0 | 0 | 20.9 | 19.1/0.3 | 13 |
| | | 1330 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21.1/0.3 | 13 |
| | | 1700 | Fine / Rain | 0 | 0 | 0 | 20.9 | 21.1/0.2 | 13 |
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|-------------------|------------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Dash Ip (Safety Office [Renopipe]) | | 30/11/2021 |
| Laboratory Staff: | | | |
| Checked by: | | | 30/11/2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
| XT-XWHM-Y-OR | 2021/6/8 |
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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) |
| 137 Pit B | 18-11-2021 | 830 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29/1010 | 5.5 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Fung Che Keung [VTEC] CP | | 18-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |
| | |

| 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) |
| 137 Pit B | 17-11-2021 | 830 | Rain / Fine | 0 | 2 | 0 | 20.9 | 29 / 1011 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|------------|
| Field Operator: | Fung Che Keung [VTEC] CP | | 17-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 15-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 27 / 999 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|--------------------|------------|
| Field Operator: | Fung Che Keung (VTEC) CP | <i>[Signature]</i> | 15-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 13-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 30 / 100 ^g | 5.5 |
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|-------------------|-------------------------------|--------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Fung Che Keung [VTEC] CP | <i>[Signature]</i> | 13-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 12-11-2021 | 830 | Rain / Fine | 0 | 0 | 0 | 20.9 | 28 / 1013 | 5-5 |
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|-------------------|-------------------------------|------------------|-------------|
| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
| Field Operator: | Fung Che Keung [VTEC] CP | <i>32</i> | 12-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
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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) |
| 137 Pit B | 11-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 30 / 100 ^h | 5.5 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|--------------------|-------------|
| Field Operator: | Fung Che Keung (VTEC) CP | <i>[Signature]</i> | 11-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
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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) |
| 137 Pit B | 10-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29 / 1014 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|------------|
| Field Operator: | Fung Che Keung [VTEC] CP | | 10-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 9-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29 / 1009 | 5-5 |
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| | <u>Name & Designation</u> | <u>Signature</u> | <u>Date</u> |
|-------------------|-------------------------------|------------------|-------------|
| Field Operator: | Fung Che Keung [VTEC] CP | | 9-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |
| | |

| 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) |
| 137 Pit B | 8-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.7 | 29 / 1010 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|--------------------|-----------|
| Field Operator: | Fung Che Keung [VTEC] CP | <i>[Signature]</i> | 8-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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: XT-XWHM-Y-OR | Dates calibrated 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 5-11-2021 | 8:30 | Rain / Fine | 20.9 | 0 | 0 | 20.9 | 30 / 100% | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|-----------|
| Field Operator: | Fung Che Keung (VTEC) CP | | 5-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 4-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 291 (mbar) | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|--------------------|-----------|
| Field Operator: | Fung Che Keung [VTEC] CP | <i>[Signature]</i> | 4-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 3-11-2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29/1001 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|-----------|
| Field Operator: | Fung Che Keung [VTEC] CP | | 3-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCVJ | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |

| 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) |
| 137 Pit B | 2-11-2021 | 830 | Rain / Fine | 0 | 0 | 0 | 20.9 | 29/1206 | 6.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|-----------|
| Field Operator: | Fung Che Keung (VTEC) CP | | 2-11-2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - -2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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 |
|--------------------------|------------------|
| XT-XWHM-Y-OR | 2021/6/8 |
| | |
| | |

| 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) |
| 137 Pit B | 1 - 11 - 2021 | 8:30 | Rain / Fine | 0 | 0 | 0 | 20.9 | 27 / 1006 | 5.5 |
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| | Name & Designation | Signature | Date |
|-------------------|--------------------------|-----------|---------------|
| Field Operator: | Fung Che Keung [VTEC] CP | | 1 - 11 - 2021 |
| Laboratory Staff: | | | |
| Checked by: | POCJV | | - - 2021 |

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 1 -11-2021 | 8:30 | 0.0416 | 5.5 | |
| | | 13:30 | 0.0417 | | |
| | | 17:00 | 0.0413 | | |
| Area B | 1 -11-2021 | 8:45 | 0.0414 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0418 | | |
| Pit D | 1 -11-2021 | 9:10 | 0.0412 | 12.2 | |
| | | 14:10 | 0.0419 | | |
| 137 Pit B | 1 -11-2021 | 9:45 | 0.0410 | 8.6 | |
| | | 14:45 | 0.0416 | | |
| WPR 1 | 1 -11-2021 | 10:05 | 0.0417 | 3.5 | |
| | | 15:05 | 0.0412 | | |
| WPR 2 | 1 -11-2021 | 10:15 | 0.0413 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 1 -11-2021 | 10:25 | 0.0420 | 4.3 | |
| | | 15:25 | 0.0416 | | |
| WPR 3 | 1 -11-2021 | 10:45 | 0.0412 | 4. | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 1 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 11-11-2021 | 10:55 | 0.0416 | 3. | |
| | | 15:55 | 0.0415 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 11-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 2-11-2021 | 8:30 | 0.0419 | 5.5 | |
| | | 13:30 | 0.0421 | | |
| | | 17:00 | 0.0412 | | |
| Area B | 2-11-2021 | 8:45 | 0.0417 | 2.5 | |
| | | 13:45 | 0.0416 | | |
| | | 16:45 | 0.0411 | | |
| Pit D | 2-11-2021 | 9:10 | 0.0414 | 12.2 | |
| | | 14:10 | 0.0415 | | |
| 137 Pit B | 2-11-2021 | 9:45 | 0.0418 | 8 | |
| | | 14:45 | 0.0413 | | |
| WPR 1 | 2-11-2021 | 10:05 | 0.0420 | 3.5 | |
| | | 15:05 | 0.0417 | | |
| WPR 2 | 2-11-2021 | 10:15 | 0.0412 | 3.8 | |
| | | 15:15 | 0.0410 | | |
| WPR 4 | 2-11-2021 | 10:25 | 0.0416 | 4.5 | |
| | | 15:25 | 0.0418 | | |
| WPR 3 | 2-11-2021 | 10:45 | 0.0416 | 4 | |
| | | 15:45 | 0.0420 | | |

Field Operator: _____ Signature _____ Date: 2-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 3-11-2021 | 8:30 | 0.0408 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0412 | | |
| Area B | 3-11-2021 | 8:45 | 0.0410 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0409 | | |
| Pit D | 3-11-2021 | 9:10 | 0.0411 | 12.2 | |
| | | 14:10 | 0.0410 | | |
| 137 Pit B | 3-11-2021 | 9:45 | 0.0416 | 8 | |
| | | 14:45 | 0.0415 | | |
| WPR 1 | 3-11-2021 | 10:05 | 0.0412 | 3.5 | |
| | | 15:05 | 0.0410 | | |
| WPR 2 | 3-11-2021 | 10:15 | 0.0420 | 3.8 | |
| | | 15:15 | 0.0411 | | |
| WPR 4 | 3-11-2021 | 10:25 | 0.0416 | 4.3 | |
| | | 15:25 | 0.0421 | | |
| WPR 3 | 3-11-2021 | 10:45 | 0.0417 | 4 | |
| | | 15:45 | 0.0418 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 3-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultirAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 3-11-2021 | 10:55 | 0.0410 | 15 | |
| | | 15:55 | 0.0416 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 3-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 4 -11-2021 | 8:30 | 0.0416 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 4 -11-2021 | 8:45 | 0.0408 | 2.5 | |
| | | 13:45 | 0.0410 | | |
| | | 16:45 | 0.0412 | | |
| Pit D | 4 -11-2021 | 9:10 | 0.0411 | 12.2 | |
| | | 14:10 | 0.0417 | | |
| 137 Pit B | 4 -11-2021 | 9:45 | 0.0417 | 8 | |
| | | 14:45 | 0.0418 | | |
| WPR 1 | 4 -11-2021 | 10:05 | 0.0411 | 3.5 | |
| | | 15:05 | 0.0412 | | |
| WPR 2 | 4 -11-2021 | 10:15 | 0.0415 | 3.8 | |
| | | 15:15 | 0.0418 | | |
| WPR 4 | 6 -11-2021 | 10:25 | 0.0412 | 4 | |
| | | 15:25 | 0.0415 | | |
| WPR 3 | 4 -11-2021 | 10:45 | 0.0419 | 4.3 | |
| | | 15:45 | 0.0418 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 4 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 4-11-2021 | 10:55 | 0.0417 | 1.3 | |
| | | 15:55 | 0.0418 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 4-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 5 -11-2021 | 8:30 | 0.0415 | 5.5 | |
| | | 13:30 | 0.0415 | | |
| | | 17:00 | 0.0416 | | |
| Area B | 5 -11-2021 | 8:45 | 0.0417 | 2.5 | |
| | | 13:45 | 0.0417 | | |
| | | 16:45 | 0.0414 | | |
| | | | 0.0418 | | |
| | | | 0.0413 | | |
| Pit D | 5 -11-2021 | 9:10 | 0.0412 | 12.2 | |
| | | 14:10 | 0.0415 | | |
| 137 Pit B | 5 -11-2021 | 9:45 | 0.0418 | 8 | |
| | | 14:45 | 0.0411 | | |
| WPR 1 | 5 -11-2021 | 10:05 | 0.0419 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 5 -11-2021 | 10:15 | 0.0415 | 3.8 | |
| | | 15:15 | 0.0417 | | |
| WPR 4 | 5 -11-2021 | 10:25 | 0.0419 | 4 | |
| | | 15:25 | 0.0420 | | |
| WPR 3 | 5 -11-2021 | 10:45 | 0.0422 | 4.3 | |
| | | 15:45 | 0.0417 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 5 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 6 -11-2021 | 8:30 | 0.0411 | 5.5 | |
| | | 13:30 | 0.0419 | | |
| | | 17:00 | 0.0418 | | |
| Area B | 6 -11-2021 | 8:45 | 0.0416 | 2.5 | |
| | | 13:45 | 0.0415 | | |
| | | 16:45 | 0.0417 | | |
| Pit D | 6 -11-2021 | 9:10 | 0.0414 | 12.2 | |
| | | 14:10 | 0.0413 | | |
| 137 Pit B | 6 -11-2021 | 9:45 | 0.0413 | 8 | |
| | | 14:45 | 0.0415 | | |
| WPR 1 | 6 -11-2021 | 10:05 | 0.0412 | 3.5 | |
| | | 15:05 | 0.0419 | | |
| WPR 2 | 6 -11-2021 | 10:15 | 0.0418 | 3.8 | |
| | | 15:15 | 0.0422 | | |
| WPR 4 | 6 -11-2021 | 10:25 | 0.0419 | 4 | |
| | | 15:25 | 0.0417 | | |
| WPR 3 | 6 -11-2021 | 10:45 | 0.0420 | 4.3 | |
| | | 15:45 | 0.0413 | | |

Name & Designation: _____ Signature: _____ Date: 6 - 11 - 2021
 Field Operator:
 Laboratory Staff:
 Checked by:

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 8 -11-2021 | 8:30 | 0.0414 | 3.5 | |
| | | 13:30 | 0.0417 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 8 -11-2021 | 8:45 | 0.0415 | 2.5 | |
| | | 13:45 | 0.0415 | | |
| | | 16:45 | 0.0412 | | |
| Pit D | 8 -11-2021 | 9:10 | 0.0408 | 12.2 | |
| | | 14:10 | 0.0412 | | |
| 137 Pit B | 8 -11-2021 | 9:45 | 0.0415 | 8 | |
| | | 14:45 | 0.0414 | | |
| WPR 1 | 8 -11-2021 | 10:05 | 0.0417 | 3.5 | |
| | | 15:05 | 0.0411 | | |
| WPR 2 | 8 -11-2021 | 10:15 | 0.0416 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 8 -11-2021 | 10:25 | 0.0414 | 4 | |
| | | 15:25 | 0.0415 | | |
| WPR 3 | 8 -11-2021 | 10:45 | 0.0421 | 2.3 | |
| | | 15:45 | 0.0416 | | |

Field Operator: _____
 Laboratory Staff: _____
 Checked by: _____

Name & Designation: _____ Signature: _____ Date: 8 - 11 - 2021

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 9 -11-2021 | 8:30 | 0.0414 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 9 -11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
| Pit D | 9 -11-2021 | 9:10 | 0.0419 | 12.2 | |
| | | 14:10 | 0.0414 | | |
| 137 Pit B | 9 -11-2021 | 9:45 | 0.0409 | 8 | |
| | | 14:45 | 0.0412 | | |
| WPR 1 | 9 -11-2021 | 10:05 | 0.0416 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 9 -11-2021 | 10:15 | 0.0410 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 9 -11-2021 | 10:25 | 0.0410 | 4 | |
| | | 15:25 | 0.0412 | | |
| WPR 3 | 9 -11-2021 | 10:45 | 0.0414 | 4.3 | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 9 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 10-11-2021 | 8:30 | 0.0408 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0410 | | |
| Area B | 10-11-2021 | 8:45 | 0.0424 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
| Pit D | 10-11-2021 | 9:10 | 0.0410 | 12.2 | |
| | | 14:10 | 0.0414 | | |
| 137 Pit B | 10-11-2021 | 9:45 | 0.0409 | 8 | |
| | | 14:45 | 0.0414 | | |
| WPR 1 | 10-11-2021 | 10:05 | 0.0415 | 3.5 | |
| | | 15:05 | 0.0410 | | |
| WPR 2 | 10-11-2021 | 10:15 | 0.0410 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 10-11-2021 | 10:25 | 0.0420 | 4 | |
| | | 15:25 | 0.0412 | | |
| WPR 3 | 10-11-2021 | 10:45 | 0.0413 | 4.3 | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____
 Laboratory Staff: _____
 Checked by: _____

Name & Designation: _____ Signature: _____ Date: 10-11-2021

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 10-11-2021 | 10:55 | 0.541 | 1.3 | |
| | | 15:55 | 0.645 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 10-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 11-11-2021 | 8:30 | 0.0418 | 5.5 | |
| | | 13:30 | 0.0411 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 11-11-2021 | 8:45 | 0.0412 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
| Pit D | 11-11-2021 | 9:10 | 0.0419 | 12.2 | |
| | | 14:10 | 0.0414 | | |
| 137 Pit B | 11-11-2021 | 9:45 | 0.0430 | 8 | |
| | | 14:45 | 0.0414 | | |
| WPR 1 | 11-11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 11-11-2021 | 10:15 | 0.0410 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 11-11-2021 | 10:25 | 0.0425 | 4 | |
| | | 15:25 | 0.0415 | | |
| WPR 3 | 11-11-2021 | 10:45 | 0.0416 | 4.3 | |
| | | 15:45 | 0.0415 | | |

Field Operator: _____
 Laboratory Staff: _____
 Checked by: _____

Name & Designation Signature Date
 _____ _____ 11-11-2021

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 11-11-2021 | 10:55 | 6.9721 | 1.3 | |
| | | 15:55 | 2.0415 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 11-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 12-11-2021 | 8:30 | 0.0408 | 3.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0412 | | |
| Area B | 12-11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0415 | | |
| | | 16:45 | 0.0416 | | |
| | | | | | |
| Pit D | 12-11-2021 | 9:10 | 0.0409 | 12.2 | |
| | | 14:10 | 0.0412 | | |
| 137 Pit B | 12-11-2021 | 9:45 | 0.0405 | 8 | |
| | | 14:45 | 0.0414 | | |
| WPR 1 | 12-11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 12-11-2021 | 10:15 | 0.0412 | 3.8 | |
| | | 15:15 | 0.0414 | | |
| WPR 4 | 12-11-2021 | 10:25 | 0.0415 | 4 | |
| | | 15:25 | 0.0412 | | |
| WPR 3 | 12-11-2021 | 10:45 | 0.0412 | 4.3 | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 12-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 12-11-2021 | 10:55 | 0.0415 | 13 | |
| | | 15:55 | 0.0415 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 12-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 13-11-2021 | 8:30 | 0.0413 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 13-11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0415 | | |
| Pit D | 13-11-2021 | 9:10 | 0.0409 | 12.2 | |
| | | 14:10 | 0.0414 | | |
| 137 Pit B | 13-11-2021 | 9:45 | 0.0411 | 8 | |
| | | 14:45 | 0.0414 | | |
| WPR 1 | 13-11-2021 | 10:05 | 0.0413 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 13-11-2021 | 10:15 | 0.0410 | 3.8 | |
| | | 15:15 | 0.0413 | | |
| WPR 4 | 13-11-2021 | 10:25 | 0.0411 | 4 | |
| | | 15:25 | 0.0415 | | |
| WPR 3 | 13-11-2021 | 10:45 | 0.0413 | 4.3 | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 13-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring well/s/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|---|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 15 -11-2021 | 8:30 | 0.0430 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0415 | | |
| Area B | 15 -11-2021 | 8:45 | 0.0411 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0415 | | |
| Pit D | 15 -11-2021 | 9:10 | 0.0417 | 12.2 | |
| | | 14:10 | 0.0414 | | |
| 137 Pit B | 15 -11-2021 | 9:45 | 0.0419 | 8 | |
| | | 14:45 | 0.0415 | | |
| WPR 1 | 15 -11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0413 | | |
| WPR 2 | 15 -11-2021 | 10:15 | 0.0415 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 15 -11-2021 | 10:25 | 0.0421 | 4 | |
| | | 15:25 | 0.0417 | | |
| WPR 3 | 15 -11-2021 | 10:45 | 0.0413 | 4.3 | |
| | | 15:45 | 0.0415 | | |

Name & Designation: _____ Signature: _____ Date: 15 - 11 - 2021
 Field Operator:
 Laboratory Staff:
 Checked by:

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 15-11-2021 | 10:55 | 0.045 | 15 | |
| | | 15:55 | 0.041 | | |
| Pit B | 15-11-2021 | 11:05 | 0.049 | 9 | |
| | | 16:05 | 0.046 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 15-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 16 -11-2021 | 8:30 | 0.046 | 5.5 | |
| | | 13:30 | 0.043 | | |
| | | 17:00 | 0.047 | | |
| Area B | 16 -11-2021 | 8:45 | 0.040 | 2.5 | |
| | | 13:45 | 0.043 | | |
| | | 16:45 | 0.046 | | |
| Pit D | 16 -11-2021 | 9:10 | 0.049 | 12.2 | |
| | | 14:10 | 0.044 | | |
| 137 Pit B | 16 -11-2021 | 9:45 | 0.049 | 8 | |
| | | 14:45 | 0.046 | | |
| WPR 1 | 16 -11-2021 | 10:05 | 0.042 | 3.5 | |
| | | 15:05 | 0.043 | | |
| WPR 2 | 16 -11-2021 | 10:15 | 0.046 | 3.8 | |
| | | 15:15 | 0.048 | | |
| WPR 4 | 16 -11-2021 | 10:25 | 0.047 | 4 | |
| | | 15:25 | 0.040 | | |
| WPR 3 | 16 -11-2021 | 10:45 | 0.040 | 4.3 | |
| | | 15:45 | 0.041 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 16 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 16-11-2021 | 10:55 | 0.0421 | 13 | |
| | | 15:55 | 0.0411 | | |
| Pit B | 16-11-2021 | 11:05 | 0.0416 | 9 | |
| | | 16:05 | 0.0413 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 16-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 17-11-2021 | 8:30 | 0.0417 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 17-11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0423 | | |
| | | 16:45 | 0.0416 | | |
| | | | | | |
| | | | | | |
| 137 Pit B | 17-11-2021 | 9:45 | 0.0411 | 8 | |
| | | 14:45 | 0.0419 | | |
| WPR 1 | 17-11-2021 | 10:05 | 0.0415 | 3.5 | |
| | | 15:05 | 0.0417 | | |
| WPR 2 | 17-11-2021 | 10:15 | 0.0411 | 3.8 | |
| | | 15:15 | 0.0412 | | |
| WPR 4 | 17-11-2021 | 10:25 | 0.0417 | 4 | |
| | | 15:25 | 0.0407 | | |
| WPR 3 | 17-11-2021 | 10:45 | 0.0415 | 4.3 | |
| | | 15:45 | 0.0415 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 17-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 17-11-2021 | 10:55 | 0.0412 | 13 | |
| | | 15:55 | 0.0405 | | |
| Pit B | 17-11-2021 | 11:05 | 0.0411 | 9 | |
| | | 16:05 | 0.0411 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 17-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 18 -11-2021 | 8:30 | 0.0408 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0419 | | |
| Area B | 18 -11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0415 | | |
| | | | | | |
| | | | | | |
| 137 Pit B | 18 -11-2021 | 9:45 | 0.0418 | 8 | |
| | | 14:45 | 0.0415 | | |
| WPR 1 | 18 -11-2021 | 10:05 | 0.0411 | 7.5 | |
| | | 15:05 | 0.0413 | | |
| WPR 2 | 18 -11-2021 | 10:15 | 0.0418 | 3.8 | |
| | | 15:15 | 0.0417 | | |
| WPR 4 | 18 -11-2021 | 10:25 | 0.0416 | 4 | |
| | | 15:25 | 0.0412 | | |
| WPR 3 | 18 -11-2021 | 10:45 | 0.0410 | 4.3 | |
| | | 15:45 | 0.0418 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 18 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 18-11-2021 | 10:55 | 0.046 | 13 | |
| | | 15:55 | 0.045 | | |
| Pit B | 18-11-2021 | 11:05 | 0.041 | 9 | |
| | | 16:05 | 0.044 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 18-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 19-11-2021 | 8:30 | 0.041 | 5.5 | |
| | | 13:30 | 0.045 | | |
| | | 17:00 | 0.046 | | |
| Area B | 19-11-2021 | 8:45 | 0.044 | 2.5 | |
| | | 13:45 | 0.041 | | |
| | | 16:45 | 0.049 | | |
| | | | | | |
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| WPR 1 | 19-11-2021 | 10:05 | 0.040 | 3.5 | |
| | | 15:05 | 0.041 | | |
| WPR 2 | 19-11-2021 | 10:15 | 0.045 | 3.8 | |
| | | 15:15 | 0.049 | | |
| WPR 4 | 19-11-2021 | 10:25 | 0.042 | 4 | |
| | | 15:25 | 0.045 | | |
| WPR 3 | 19-11-2021 | 10:45 | 0.044 | 4.3 | |
| | | 15:45 | 0.049 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 19-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 19-11-2021 | 10:55 | 0.0421 | 13 | |
| | | 15:55 | 0.0414 | | |
| Pit B | 19-11-2021 | 11:05 | 0.0409 | 9 | |
| | | 16:05 | 0.0418 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 19-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 20 -11-2021 | 8:30 | 0.0412 | 5.5 | |
| | | 13:30 | 0.0428 | | |
| | | 17:00 | 0.0416 | | |
| Area B | 20 -11-2021 | 8:45 | 0.0409 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
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| WPR 1 | 20 -11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 20 -11-2021 | 10:15 | 0.0410 | 3.3 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 20 -11-2021 | 10:25 | 0.0412 | 4 | |
| | | 15:25 | 0.0410 | | |
| WPR 3 | 20 -11-2021 | 10:45 | 0.0419 | 4.3 | |
| | | 15:45 | 0.0421 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 20 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 26 -11-2021 | 10:55 | 0.0416 | 13 | |
| | | 15:55 | 0.0420 | | |
| Pit B | 20 -11-2021 | 11:05 | 0.0421 | 9 | |
| | | 16:05 | 0.0420 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 20 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 22-11-2021 | 8:30 | 0.0421 | 5.5 | |
| | | 13:30 | 0.0416 | | |
| | | 17:00 | 0.0419 | | |
| Area B | 22-11-2021 | 8:45 | 0.0408 | 2.5 | |
| | | 13:45 | 0.0422 | | |
| | | 16:45 | 0.0416 | | |
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| WPR 1 | 22-11-2021 | 10:05 | 0.0411 | 3.5 | |
| | | 15:05 | 0.0412 | | |
| WPR 2 | 22-11-2021 | 10:15 | 0.0415 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 22-11-2021 | 10:25 | 0.0420 | 4 | |
| | | 15:25 | 0.0426 | | |
| WPR 3 | 22-11-2021 | 10:45 | 0.0410 | 4.3 | |
| | | 15:45 | 0.0414 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date _____ - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 22-11-2021 | 10:55 | 0.0415 | 13 | |
| | | 15:55 | 0.0445 | | |
| Pit B | 22-11-2021 | 11:05 | 0.0411 | 9 | |
| | | 16:05 | 0.0416 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 22 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 23-11-2021 | 8:30 | 0.0436 | 5.5 | |
| | | 13:30 | 0.0421 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 23-11-2021 | 8:45 | 0.0415 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0426 | | |
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| WPR 1 | 23-11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 23-11-2021 | 10:15 | 0.0417 | 3.8 | |
| | | 15:15 | 0.0413 | | |
| WPR 4 | 23-11-2021 | 10:25 | 0.0419 | 4 | |
| | | 15:25 | 0.0421 | | |
| WPR 3 | 23-11-2021 | 10:45 | 0.0416 | 4.3 | |
| | | 15:45 | 0.0417 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date: 23-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 23-11-2021 | 10:55 | 0.0413 | 13 | |
| | | 15:55 | 0.0417 | | |
| Pit B | 23-11-2021 | 11:05 | 0.0415 | 9 | |
| | | 16:05 | 0.0416 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 23 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 24 -11-2021 | 8:30 | 0.044 | 5.5 | |
| | | 13:30 | 0.047 | | |
| | | 17:00 | 0.049 | | |
| Area B | 24 -11-2021 | 8:45 | 0.042 | 2.5 | |
| | | 13:45 | 0.042 | | |
| | | 16:45 | 0.044 | | |
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| | | | | | |
| WPR 1 | 24 -11-2021 | 10:05 | 0.041 | 2.5 | |
| | | 15:05 | 0.041 | | |
| WPR 2 | 24 -11-2021 | 10:15 | 0.045 | 3.8 | |
| | | 15:15 | 0.042 | | |
| WPR 4 | 24 -11-2021 | 10:25 | 0.045 | 4 | |
| | | 15:25 | 0.049 | | |
| WPR 3 | 24 -11-2021 | 10:45 | 0.045 | 4.3 | |
| | | 15:45 | 0.047 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 24 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 24 -11-2021 | 10:55 | 0.0412 | 13 | |
| | | 15:55 | 0.0415 | | |
| Pit B | 24 -11-2021 | 11:05 | 0.0404 | 9 | |
| | | 16:05 | 0.0411 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 24 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 25-11-2021 | 8:30 | 0.0421 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 25-11-2021 | 8:45 | 0.0415 | 2.5 | |
| | | 13:45 | 0.0411 | | |
| | | 16:45 | 0.0416 | | |
| | | | | | |
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| | | | | | |
| WPR 1 | 25-11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0412 | | |
| WPR 2 | 25-11-2021 | 10:15 | 0.0413 | 3.8 | |
| | | 15:15 | 0.0417 | | |
| WPR 4 | 25-11-2021 | 10:25 | 0.0419 | 4 | |
| | | 15:25 | 0.0415 | | |
| WPR 3 | 25-11-2021 | 10:45 | 0.0419 | 4.5 | |
| | | 15:45 | 0.0416 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 25-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 25-11-2021 | 10:55 | 0.0416 | 1.0 | |
| | | 15:55 | 0.0319 | | |
| Pit B | 25-11-2021 | 11:05 | 0.0411 | 0.9 | |
| | | 16:05 | 0.0416 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 25-11-2021
 Laboratory Staff:
 Checked by:

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 26 -11-2021 | 8:30 | 0.0422 | 5.5 | |
| | | 13:30 | 0.0416 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 26 -11-2021 | 8:45 | 0.0428 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0414 | | |
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| | | | | | |
| WPR 1 | 26 -11-2021 | 10:05 | 0.0420 | 3.5 | |
| | | 15:05 | 0.0422 | | |
| WPR 2 | 26 -11-2021 | 10:15 | 0.0413 | 3.8 | |
| | | 15:15 | 0.0416 | | |
| WPR 4 | 26 -11-2021 | 10:25 | 0.0417 | 4 | |
| | | 15:25 | 0.0411 | | |
| WPR 3 | 26 -11-2021 | 10:45 | 0.0415 | 4.5 | |
| | | 15:45 | 0.0416 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 26 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 26-11-2021 | 10:55 | 0.042 | 13 | |
| | | 15:55 | 0.048 | | |
| Pit B | 26-11-2021 | 11:05 | 0.042 | 9 | |
| | | 16:05 | 0.040 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 26 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 27 -11-2021 | 8:30 | 0.045 | 5.5 | |
| | | 13:30 | 0.047 | | |
| | | 17:00 | 0.047 | | |
| Area B | 27 -11-2021 | 8:45 | 0.045 | 2.5 | |
| | | 13:45 | 0.041 | | |
| | | 16:45 | 0.045 | | |
| | | | | | |
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| | | | | | |
| WPR 1 | 27 -11-2021 | 10:05 | 0.047 | 3.5 | |
| | | 15:05 | 0.040 | | |
| WPR 2 | 27 -11-2021 | 10:15 | 0.041 | 3.8 | |
| | | 15:15 | 0.045 | | |
| WPR 4 | 27 -11-2021 | 10:25 | 0.042 | 4 | |
| | | 15:25 | 0.047 | | |
| WPR 3 | 27 -11-2021 | 10:45 | 0.040 | 4.3 | |
| | | 15:45 | 0.045 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 27 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 27-11-2021 | 10:55 | 0.045 | 13 | |
| | | 15:55 | 0.045 | | |
| Pit B | 27-11-2021 | 11:05 | 0.041 | 9 | |
| | | 16:05 | 0.046 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 27-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 21-11-2021 | 8:30 | 0.0413 | 5.5 | |
| | | 13:30 | 0.0419 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 21-11-2021 | 8:45 | 0.0415 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
| | | | | | |
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| WPR 1 | 29-11-2021 | 10:05 | 0.0410 | 3.5 | |
| | | 15:05 | 0.0419 | | |
| WPR 2 | 29-11-2021 | 10:15 | 0.0415 | 3.8 | |
| | | 15:15 | 0.0415 | | |
| WPR 4 | 29-11-2021 | 10:25 | 0.0416 | 24 | |
| | | 15:25 | 0.0417 | | |
| WPR 3 | 29-11-2021 | 10:45 | 0.0412 | 4.3 | |
| | | 15:45 | 0.0419 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 29 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultIRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 29 -11-2021 | 10:55 | 0.041 | 13 | |
| | | 15:55 | 0.0419 | | |
| Pit B | 29 -11-2021 | 11:05 | 0.042 | 9 | |
| | | 16:05 | 0.025 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 29 - 11 - 2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultirAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Area A | 30-11-2021 | 8:30 | 0.0425 | 5.5 | |
| | | 13:30 | 0.0413 | | |
| | | 17:00 | 0.0417 | | |
| Area B | 30-11-2021 | 8:45 | 0.0418 | 2.5 | |
| | | 13:45 | 0.0413 | | |
| | | 16:45 | 0.0416 | | |
| | | | | | |
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| | | | | | |
| WPR 1 | 30-11-2021 | 10:05 | 0.0413 | 3.5 | |
| | | 15:05 | 0.0415 | | |
| WPR 2 | 30-11-2021 | 10:15 | 0.0421 | 3.8 | |
| | | 15:15 | 0.0416 | | |
| WPR 4 | 30-11-2021 | 10:25 | 0.0411 | 4 | |
| | | 15:25 | 0.0414 | | |
| WPR 3 | 30-11-2021 | 10:45 | 0.0417 | 4.3 | |
| | | 15:45 | 0.0412 | | |

Field Operator: _____ Name & Designation _____ Signature _____ Date 30-11-2021
 Laboratory Staff: _____
 Checked by: _____

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



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

| | |
|---------------------------------------|------------------|
| Sampling equipment used: | Dates calibrated |
| MultiRAE Lite, PGM-6208 M01C031772 | 6/4/2021 |

| Sampling Location | Date of Measurement | Sampling time | Monitoring wells/ Surface Gas Emission | Depth (m) | Remark |
|-------------------|---------------------|---------------|--|-----------|--------|
| | | | Carbon Dioxide (%) | | |
| Pit A | 30-11-2021 | 10:55 | 0.842 | 13 | |
| | | 15:55 | 0.844 | | |
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Field Operator: _____ Name & Designation _____ Signature _____ Date 30-11-2021
 Laboratory Staff: _____
 Checked by: _____

Appendix K

Complaint Log and Regulatory Compliance Proforma

Statistical Summary of Environmental Complaints

| Reporting Period | Environmental Complaint Statistics | | |
|--|------------------------------------|------------|------------------|
| | Frequency | Cumulative | Complaint Nature |
| 01 November 2021 - 30 November 2021 | 0 | 3 | N/A |

Statistical Summary of Environmental Summons

| Reporting Period | Environmental Summons Statistics | | |
|--|----------------------------------|------------|---------|
| | Frequency | Cumulative | Details |
| 01 November 2021 - 30 November 2021 | 0 | 0 | N/A |

Statistical Summary of Environmental Prosecution

| Reporting Period | Environmental Prosecution Statistics | | |
|--|--------------------------------------|------------|---------|
| | Frequency | Cumulative | Details |
| 01 November 2021 - 30 November 2021 | 0 | 0 | N/A |

Appendix L

Site Inspection Proforma



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 Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 04/11/2021 Inspected by: ET: Charlene Leai WSD: Tsang Kin Fai
 Contractor: SDMMIS IEC: N/A

Inspection Time: 10:00 - 12:30

| | | | | | | | |
|-------------|---|--------------------------------|-----------------------------------|----------------------------------|--|--------------------------------|-------------------------------|
| Weather | | | | | | | |
| Condition | <input checked="" type="checkbox"/> Sunny | <input type="checkbox"/> Fine | <input type="checkbox"/> Overcast | <input type="checkbox"/> Drizzle | <input type="checkbox"/> Rain | <input type="checkbox"/> Storm | <input type="checkbox"/> Hazy |
| Temperature | <u>29</u> °C | | Humidity | <input type="checkbox"/> High | <input checked="" type="checkbox"/> Moderate | <input type="checkbox"/> Low | |
| Wind | <input checked="" type="checkbox"/> Calm | <input type="checkbox"/> Light | <input type="checkbox"/> Breeze | <input type="checkbox"/> Strong | | | |

| | | N/A | Yes | No | Photo/Remarks |
|------|---|-------------------------------------|-------------------------------------|--------------------------|--|
| 0.00 | General | | | | |
| 0.01 | Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 0.02 | Is ET Leader's log-book kept readily available for inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.00 | Construction Dust | | | | |
| 1.01 | Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | (Obs.) |
| 1.02 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (S) |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No fumes/smoke emitting plant/ construction activities observed. |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Is wheel-washing provided to all vehicles leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are road section near the site exit free from dusty material? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (S) |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | paved. |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (S) |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No dump trucks observed. |
| 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Is exposed earth properly treated within six months after the last construction activity on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Does the operation of plants on site free from dark smoke emission? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ENRMM label |

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Acuity Sustainability Consulting Limited

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 Q: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

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

| | | N/A | Yes | No | Photo/Remarks |
|------|---|-------------------------------------|-------------------------------------|--------------------------|---------------------------------------|
| 1.13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Are stock of more than 20 bags of cement or dry PFA covered or sheltered on top and 3 sides? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Is open burning prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.00 | Construction Noise (Airborne) | | | | |
| 2.01 | Are quiet plants adopted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | same as 1.14 |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive noise? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | require inspection |
| 2.03 | Are plants throttled down or turned off when not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no visit to work position near to NSR |
| 2.05 | Are movable barriers provided to screen NSRs from plant or noisy operations? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted hours? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.00 | Water Quality | | | | |
| 3.01 | Is effluent discharge license obtained for wastewater discharge from site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | Is effluent discharged according to the effluent discharge license? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (?) |
| 3.03 | Is wastewater discharge from site properly treated prior to discharge? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (?) |

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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 Tseung Kwan O

| | | N/A | Yes | No | Photo/Remarks |
|-------------|--|-------------------------------------|-------------------------------------|--------------------------|----------------------|
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | obs(3) |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | obs(2) |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs(2) (4) |
| 3.07 | Is the drainage system properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | no minder (1) |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.10 | Are temporary access roads protected by crushed gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.11 | Are exposed slope surface properly protected? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs(5) |
| 3.14 | Is runoff from wheel-washing facilities avoided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.15 | Is oil leakage or spillage prevented? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (4) reminder (2) |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs(4) reminder (2) |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (1) |
| 3.19 | Are all fuel tanks and storage areas provided with locks and be sited on scaled areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.23 | Is concrete washing water properly collected and treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.00 | Waste Management | | | | |
| 4.01 | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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

| | | N/A | Yes | No | Photo/Remarks |
|------|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| 4.02 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | Is chemical waste reused and recycled on site as far as practicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | Are all containers for chemical waste properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | Are incompatible chemical wastes stored in different areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (1) |
| 4.13 | Are sufficient general refuse disposal/collection points provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | Is general refuse disposed of properly and regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (1) |
| 4.15 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | Are C&D wastes sorted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are C&D waste disposed of properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (1) |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Obs (4) |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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|-------------|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| 5.00 | Landscape and Visual | | | | |
| 5.01 | Are Is site hoarding provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.03 | Is construction light oriented away from the sensitive receivers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.04 | Is grass hydroseeding provided to slopes as soon as the completion of works? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.08 | Are surgery works carried out for damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.00 | Ecology | | | | |
| 6.01 | Is site runoff properly treated to prevent any silty runoff? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (7) |
| 6.02 | Are silt trap installed and well-maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (5) |
| 6.04 | Are construction works restricted to works area which are clearly defined? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7.00 | Overall | | | | |
| 7.01 | Is the EM&A properly implemented in general? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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:

PORTION F
 ↓
 PIT D
 ↓
 J. PIT C
 ↓
 J. PIT A
 ↓
 WPK1
 ↓
 WPK2
 ↓
 PIT B3

Observation(s)

- (1) The outfall of the sedimentation tank was installed at the inaccurate level. The MAIN Contractor was reminded to rectify of which the outfall should be at high level. (PIT D) ~~(PIT A)~~ ^{PIT A} WPK 4
- (2) The Main contractor was reminded that no water should be discharged without treatment at J. PIT A. ^{PIT A}
- (3) Construction boundaries were not protected by sandbags at WPK1.
- (4) The Main Contractor was reminded that chemicals should be placed on drip trays at WPK1.
- (5) Dusty mitigation measures should be implemented at non-f Road 2.

Reminder(s)

- (1) Housekeeping was reminded at the drainage channel and the temporary waste storage area at portion F.
- (2) The Main Contractor was reminded that drip tray should be provided at portion F to avoid direct contact of the concrete floor, (also to PIT D)
- (3) Dusty materials were ^{observed} observed near to the construction boundary at PIT D.
- (4) The Main contractor was advised to ~~change~~ replace the heating tube of the inlet of sedimentation tank at PIT D.

Signatures:

| | | | |
|---|---|---|--|
| ET Representative | Contractor's Representative | WSD's Representative | IFC's Representative |
|  |  |  |  |
| (Name: <u>Chau</u>) | (Name: <u>Sam Ng</u>) | (Name: <u>WONG KIN PA</u>) | (Name: <u>N/A</u>) |

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 12/11/2017 Inspected by: ET: Choy Yee Lai WSD: Tse Ka Chun
 Co-inspector: Sun Ng IEC: N/A
 Inspection Time: 09:55 - 10:30

| | | | | | | | |
|-------------------|---|--------------------------------|--|----------------------------------|-------------------------------|--------------------------------|-------------------------------|
| Weather Condition | <input checked="" type="checkbox"/> Sunny | <input type="checkbox"/> Fine | <input type="checkbox"/> Overcast | <input type="checkbox"/> Drizzle | <input type="checkbox"/> Rain | <input type="checkbox"/> Storm | <input type="checkbox"/> Hazy |
| Temperature | <input checked="" type="checkbox"/> 28°C | | | | | | |
| Humidity | | <input type="checkbox"/> High | <input checked="" type="checkbox"/> Moderate | <input type="checkbox"/> Low | | | |
| Wind | <input checked="" type="checkbox"/> Calm | <input type="checkbox"/> Light | <input type="checkbox"/> Breeze | <input type="checkbox"/> Strong | | | |

| | | N/A | Yes | No | Photo/Remarks |
|------|---|-------------------------------------|-------------------------------------|--------------------------|--|
| 0.00 | General | | | | |
| 0.01 | Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 0.02 | Is ET Leader's log-book kept readily available for inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.00 | Construction Dust | | | | |
| 1.01 | Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reminder (??) |
| 1.02 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reminder (??) |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No fume/smoke emitting plant/ construction activities observed |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Is wheel-washing provided to all vehicles leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are road section near the site exit free from dusty material? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | paved |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No transfer or loading of dusty material observed |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no dusty trucks observed |
| 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Is exposed earth properly treated within six months after the last construction activity on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Does the operation of plants on site free from dark smoke emission? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Obs (??) |

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| | | N/A | Yes | No | Photo/Remarks |
|-------------|---|-------------------------------------|-------------------------------------|--------------------------|-----------------------------------|
| 1.13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Are stock of more than 20 bags of cement or dry PFA covered or sheltered on top and 3 sides? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Is open burning prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.00 | Construction Noise (Airborne) | | | | |
| 2.01 | Are quiet plants adopted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | noise label |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive noise? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | regular inspection |
| 2.03 | Are plants throttled down or turned off when not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | No visit to work station near NSR |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | near NSR |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted hours? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.00 | Water Quality | | | | |
| 3.01 | Is effluent discharge license obtained for wastewater discharge from site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | Is effluent discharged according to the effluent discharge license? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2 no water discharge observed. |
| 3.03 | Is wastewater discharge from site properly treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

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|-------------|--|-------------------------------------|-------------------------------------|--------------------------|------------------------------|
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no water discharge observed. |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | v |
| 3.07 | Is the drainage system properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.10 | Are temporary access roads protected by crushed gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.11 | Are exposed slope surface properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.15 | Is oil leakage or spillage prevented? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.23 | Is concrete washing water properly collected and treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.00 | Waste Management | | | | |
| 4.01 | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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| 4.02 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
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| 4.07 | Are all containers for chemical waste properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
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| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
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| 4.15 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | Are C&D wastes sorted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are C&D waste disposed of properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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| 5.00 | Landscape and Visual | | | | |
| 5.01 | Are Is site hoarding provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.03 | Is construction light oriented away from the sensitive receivers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.04 | Is grass hydroseeding provided to slopes as soon as the completion of works? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | responder (?) |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.08 | Are surgery works carried out for damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.00 | Ecology | | | | |
| 6.01 | Is site runoff properly treated to prevent any silty runoff? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No water was discharged on site during dry |
| 6.02 | Are silt trap installed and well-maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7.00 | Overall | | | | |
| 7.01 | Is the EM&A properly implemented in general? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T.
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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:

Pit X
 ↓
 Maximum
 Level

Observations
 One NIPM tab was observed at the NIPM at Po Lam South Road

Reminders

- 1) Tree protective measures should be implemented at Pit X.
- 2) Dusty ~~material~~ mitigation measures should be implemented to reduce dust emission at Pit X.

Signatures:

EE
 Representative

Contractor's
 Representative

WSD's
 Representative

IFC's
 Representative





N/A

(Name: Charlene)

(Name: Sam AS)

(Name: Rebecca Chan)

(Name: N/A)

ASL (C/O)

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 12/11/2021 Inspected by: FT: Chi Leung WSD: Yip Chi Kung
 Inspection Time: 09:15 - 12:00 Contractor: Sam Ing IEC: Tseung Kwan O

| | | | | | | | |
|-------------------|---|--------------------------------|-----------------------------------|--|-------------------------------|--------------------------------|-------------------------------|
| Weather Condition | <input checked="" type="checkbox"/> Sunny | <input type="checkbox"/> Fine | <input type="checkbox"/> Overcast | <input type="checkbox"/> Drizzle | <input type="checkbox"/> Rain | <input type="checkbox"/> Storm | <input type="checkbox"/> Hazy |
| Temperature | <u>23</u> C | Humidity | <input type="checkbox"/> High | <input checked="" type="checkbox"/> Moderate | <input type="checkbox"/> Low | | |
| Wind | <input checked="" type="checkbox"/> Calm | <input type="checkbox"/> Light | <input type="checkbox"/> Breeze | <input type="checkbox"/> Strong | | | |

| | | N/A | Yes | No | Photo/Remarks |
|-------------------------------|---|-------------------------------------|-------------------------------------|--------------------------|--|
| 0.00 General | | | | | |
| 0.01 | Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 0.02 | Is FT Leader's log-book kept readily available for inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.00 Construction Dust | | | | | |
| 1.01 | Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | reminder (1) |
| 1.02 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | needs operation on the site spraying day (on 12/11/21) |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No fume/smoke emitting plant/ construction activity |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Is wheel-washing provided to all vehicles leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.08 | Are road section near the site exit free from dusty material? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | paved |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no loading/transfer of dusty materials (observed) |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no dump trucks observed |
| 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Is exposed earth properly treated within six months after the last construction activity on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Does the operation of plants on site free form dark smoke emission? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | at No label |

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| | | N/A | Yes | No | Photo/Remarks |
|-------------|---|-------------------------------------|-------------------------------------|--------------------------|---------------------------------------|
| 1.13 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Are stock of more than 20 bags of cement or dry PFA covered or sheltered on top and 3 sides? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Is open burning prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.00 | Construction Noise (Airborne) | | | | |
| 2.01 | Are quiet plants adopted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | noise label operational?? |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive noise? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | regular inspection |
| 2.03 | Are plants throttled down or turned off when not in use? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | no. noise to wide path near NSR |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted hours? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.00 | Water Quality | | | | |
| 3.01 | Is effluent discharge license obtained for wastewater discharge from site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | Is effluent discharged according to the effluent discharge license? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no water discharge |
| 3.03 | Is wastewater discharge from site properly treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

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| | | N/A | Yes | No | Photo/Remarks |
|-------------|--|-------------------------------------|-------------------------------------|--------------------------|--------------------|
| 3.04 | Are perimeter channels provided to intercept storm runoff from outside the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.05 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No water discharge |
| 3.07 | Is the drainage system properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | remainder (3) |
| 3.10 | Are temporary access roads protected by crushed gravel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.11 | Are exposed slope surface properly protected? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.15 | Is oil leakage or spillage prevented? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | remainder (3) |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | remainder (3) |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction workforce? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.23 | Is concrete washing water properly collected and treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.00 | Waste Management | | | | |
| 4.01 | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | Is chemical waste reused and recycled on site as far as practicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | Are all containers for chemical waste properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | Are incompatible chemical wastes stored in different areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | Are sufficient general refuse disposal/collection points provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | Is general refuse disposed of properly and regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | Are C&D wastes sorted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are C&D waste disposed of properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | reminder (S) |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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| | | N/A | Yes | No | Photo/Remarks |
|-------------|--|-------------------------------------|-------------------------------------|--------------------------|--------------------|
| 5.00 | Landscape and Visual | | | | |
| 5.01 | Are Is site hoarding provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | by men signs |
| 5.03 | Is construction light oriented away from the sensitive receivers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.04 | Is grass hydroseeding provided to slopes as soon as the completion of works? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.08 | Are surgery works carried out for damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.00 | Ecology | | | | |
| 6.01 | Is site runoff properly treated to prevent any silty runoff? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | no water discharge |
| 6.02 | Are silt trap installed and well-maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7.00 | Overall | | | | |
| 7.01 | Is the EM&A properly implemented in general? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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:

Observation(s)

No major observations were observed on the reporting day.

Pit X



Mainlaying

Reminder(s)

- (1) The Main Contractor was reminded to implement regular dust suppression controls (i.e. water spraying) at Pit X.
- (2) The Main Contractor was reminded to replace a new noise label for the generator at Pit X.
- (3) The Main Contractor was reminded to add a drip tray for chemicals stored on site to prevent accidental leakage/contamination at Mainlaying site.

Signatures:

ET Representative



(Name: *Andrew Lee*)

Contractor's Representative



(Name: *Sam Ho*)

WSD's Representative



(Name: *Yip Oi Kung*)

IEC's Representative



(Name: *Louis Kwan*)

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 24/11/2021 Inspected by: ET: Lai Chor Lam WSD: E.K. Chong
 Contractor: Sam Ng IEC: N/A

Inspection Time: 09:30 - 11:30

| | | | | | | | |
|-------------|---|--------------------------------|-----------------------------------|----------------------------------|--|--------------------------------|-------------------------------|
| Weather | | | | | | | |
| Condition | <input checked="" type="checkbox"/> Sunny | <input type="checkbox"/> Fine | <input type="checkbox"/> Overcast | <input type="checkbox"/> Drizzle | <input type="checkbox"/> Rain | <input type="checkbox"/> Storm | <input type="checkbox"/> Hazy |
| Temperature | <u>24</u> C | Humidity | | <input type="checkbox"/> High | <input checked="" type="checkbox"/> Moderate | <input type="checkbox"/> Low | |
| Wind | <input checked="" type="checkbox"/> Calm | <input type="checkbox"/> Light | <input type="checkbox"/> Breeze | <input type="checkbox"/> Strong | | | |

| | | N/A | Yes | No | Photo/Remarks |
|------|---|-------------------------------------|-------------------------------------|--------------------------|---|
| 0.00 | General | | | | |
| 0.01 | Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 0.02 | Is ET Leader's log-book kept readily available for inspections? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.00 | Construction Dust | | | | |
| 1.01 | Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.02 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No dusty construction works observed |
| 1.03 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No fume/smoke emitting plant / construction activities observed |
| 1.04 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.05 | Is wheel-washing provided to all vehicles leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.06 | Are road section near the site exit free from dusty material? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.07 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | paved |
| 1.08 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No loading / transfer of dusty materials observed |
| 1.09 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No dusty trucks observed |
| 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.11 | Is exposed earth properly treated within six months after the last construction activity on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.12 | Does the operation of plants on site free form dark smoke emission? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | No plant / other remainder (1) |

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| | | N/A | Yes | No | Photo/Remarks |
|-------------|---|-------------------------------------|-------------------------------------|--------------------------|--|
| 1.13 | Are vehicles traveling at speed not exceeding 15km/hr within the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.14 | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.15 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.16 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1.17 | Is open burning prohibited? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.00 | Construction Noise (Airborne) | | | | |
| 2.01 | Are quiet plants adopted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | noise label |
| 2.02 | Are the PMEs operating on site well-maintained to minimize the generation of excessive noise? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | regular inspection |
| 2.03 | Are plants throttled down or turned off when not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.04 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | No visit to MSR have to conduct further |
| 2.05 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.06 | Are silencers, mufflers and enclosures provided to plants? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.07 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.08 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.09 | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.10 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.11 | Are valid noise emission label(s) affixed to all air compressors operating on site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2.12 | Are all construction noise permit(s) applied for percussive piling work? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.13 | Are construction noise permit(s) applied for general construction works during restricted hours? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2.14 | Are valid construction noise permit(s) displayed at all vehicular exits? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.00 | Water Quality | | | | |
| 3.01 | Is effluent discharge license obtained for wastewater discharge from site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.02 | Is effluent discharged according to the effluent discharge license? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (?) |
| 3.03 | Is wastewater discharge from site properly treated prior to discharge? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs (?) |

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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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.06 | Is surface runoff diverted to sedimentation facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | obs(1) |
| 3.07 | Is the drainage system properly maintained? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.08 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.09 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.10 | Are temporary access roads protected by crushed gravel? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.11 | Are exposed slope surface properly protected? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.12 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.13 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.14 | Is runoff from wheel-washing facilities avoided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.15 | Is oil leakage or spillage prevented? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.16 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.17 | Are the oil interceptors/ grease traps properly maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3.18 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.20 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.21 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.22 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3.23 | Is concrete washing water properly collected and treated prior to discharge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.00 | Waste Management | | | | |
| 4.01 | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.03 | Is the Contractor registered as a chemical waste producer? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.04 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.05 | Are trip tickets for chemical waste disposal available for inspection? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.06 | Is chemical waste reused and recycled on site as far as practicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.07 | Are all containers for chemical waste properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.08 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.09 | Are incompatible chemical wastes stored in different areas? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.10 | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.12 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.13 | Are sufficient general refuse disposal/collection points provided on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.14 | Is general refuse disposed of properly and regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.15 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.16 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.17 | Are C&D wastes sorted on site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.18 | Are C&D waste disposed of properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.19 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4.20 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.21 | Are the construction materials stored properly to minimize the potential for damage or contamination? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4.22 | Is a dumping license obtained to deliver public fill to public filling areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.02 | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.03 | Is construction light oriented away from the sensitive receivers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.04 | Is grass hydroseeding provided to slopes as soon as the completion of works? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.05 | Are damages to trees outside site boundary due construction works avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.06 | Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5.07 | Are the retained and transplanted tree(s) properly protected and in good conditions? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5.08 | Are surgery works carried out for damaged trees? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.00 | Ecology | | | | |
| 6.01 | Is site runoff properly treated to prevent any silty runoff? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6/5/16 |
| 6.02 | Are silt trap installed and well-maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.03 | Are stockpiles properly covered to avoid generating silty runoff? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6.04 | Are construction works restricted to works area which are clearly defined? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7.00 | Overall | | | | |
| 7.01 | Is the EM&A properly implemented in general? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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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:

- observation(s)
 (1) The Main Contractor was reminded that no water should be discharged without treatment. (Pit D) (Pit A)
 (2) Construction boundaries were observed not protected by sandbags fully at Pit A, WPR1

- Reminder(s)
 (1) Housekeeping was reminded at Pit D, Pit A.
 (2) The Main Contractor was reminded to add MEMO label at the generator at Pit D.

Signatures:

EI Representative



(Name: Cherine LAI)

Contractor's Representative



(Name: Sun Ng)

WSD's Representative



(Name: C.K. Chong)

HEC's Representative

N/A

(Name: N/A)

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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 December 2021 - 31 December 2021 | <ul style="list-style-type: none"> - Excavation of trench - Mainlaying of pipe - Sheetpiling - Backfilling of the trench - Work fronts for open trench - Work fronts for pipe jacking | Construction dust and noise generation; construction wastes; impact of water quality | <ul style="list-style-type: none"> - 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 - Treatment of water with water treatment facilities before discharge |

Appendix N

Impact Monitoring Schedule of Next Reporting Month (Tentative)

**Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40**



| Dec-21 | | | | | | |
|--------|-----|-------------------------------|------------------------------|-----|-------------------------------|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | 1 Noise Impact Monitoring | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 Noise Impact Monitoring | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 Noise Impact Monitoring | 18 |
| 19 | 20 | 21 Noise Impact Monitoring | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 Noise Impact Monitoring | |

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Appendix O

Academic Calendar(s)

Contract No. 13/WSD/16
Mainlaying in Tseung Kwan O
Monthly EM&A Report No.40



| CREATIVE SECONDARY SCHOOL CALENDAR 2021-2022 | | | | | | | |
|--|----|----|----|----|----|----|----|
| | Su | Mo | Tu | We | Th | Fr | Sa |
| August | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | 31 | | | | |
| September | | | | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | | |
| October | | | | | | | 2 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 31 | | | | | | |
| November | | 1 | 2 | 3 | 4 | 5 | 6 |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | 28 | 29 | 30 | | | | |
| December | | | 1 | 2 | 3 | 4 | |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | 31 | |
| January | | | | | | | 1 |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | 30 | 31 | | | | | |
| February | | | | | | 4 | 5 |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | | | | | |
| March | | | 1 | 2 | 3 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| | 27 | 28 | 29 | 30 | 31 | | |
| April | | | | | | | 1 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| May | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | 29 | 30 | 31 | | | | |
| June | | | | 1 | 2 | 3 | 4 |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | 26 | 27 | 28 | 29 | 30 | | |
| July | | | | | | | 1 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 31 | | | | | | |
| August | | 1 | 2 | 3 | 4 | 5 | 6 |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| | 28 | 29 | 30 | 31 | | | |

School Holiday
 Public Holiday
 Staff Development Day

Sourced from:
https://1e833fb1-5af5-4de8-901f-f9aeda4354b2.filesusr.com/ugd/611a22_fdf4f21255294bc7b73d37d2f68418fb.pdf