

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

Your reference:

Our reference:

HKWSD201/50/107965

Date: 25 April 2022

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.44

We refer to emails of 11 and 22 April 2022 attaching Monthly EM&A Report No.44 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/lsmt

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# Contract No. 13/WSD/16

# Mainlaying in Tseung Kwan O

# Monthly EM&A Report No. 44 (Period from 1 to 31 March 2022)

April 2022 (Rev. 0)

	Prepared by:	Reviewed and Certified by:
Name	Howard Chan	Jacky Leung
Position	Environmental Team	Environmental Team Leader
Signature	Howard	A
Date:	22 April 2022	22 April 2022



# **Revision History**

0	1 <sup>st</sup> Submission	11 Apr 2022
1	2 <sup>nd</sup> submission	22 Apr 2022
Rev.	DESCRIPTION OF MODIFICATION	DATE



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# **EXECUTIVE SUMMARY**

## **Introduction**

- A1. Penta-Ocean Concentric Joint Venture (POCJV) is contracted to carry out the Mainlaying in Tseung Kwan O under Contract No. 13/WSD/16 (hereinafter known as "the Project").
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 44<sup>th</sup> 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 March to 31 March 2022.
- 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

Location	Location	Forecast Works in Next Reporting Month	
	TKO 137 Pit A		
Portion H of the Project Site	TKO 137 Pit B	• Pipe installation works inside sleeve pi between Pit 137A to Pit 137C	
T Toject She	TKO 137 Pit C	between the 157A to the 157C	
	Wan Po Rd – Workfront 1	• Excavation and ELS works for jacking pit 1	
	Wan Po Rd – Workfront 2	• Setup for MTBM pipe jacking	
	Wan Po Rd – Workfront 3	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Workfront 4	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Workfront 5	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Pit A	• Setup and commence for MTBM pipe jacking	
	Wan Po Rd – Pit B	• MTBM pipe jacking	
Portion J of the	Shek Kok Road – Pit D	• MTBM pipe jacking	
Project Site	Shek Kok Road – Hand- shield	• Construction of wing wall	
	Landfill Stage 1 – Area A	• Trench excavation and pipe laying	
	Pet Garden's Road	• Trench excavation and pipe laying	
	Pung Loi Road – Pit WPR1	• Set up for MTBM pipe jacking	
	Creative school	• Construction of flood protection wall and re- construction of u-channel	
	Roundabout - Pit G1A	• Pipe laying inside sleeve pipe	
	Roundabout – Pit J1A	• Pipe laying inside sleeve pipe	

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



Velodrome – Pit K	• Grouting for sleeve pipe between Pit K to Pit L
Velodrome – Pit O to Pit N	• Trench excavation and pipe laying
Velodrome – Pit O to Pit P	• Site setup works for trenchless works
Abandoned Road near Mau Wu Tsai WF-1	<ul><li>Gate valve chamber construction</li><li>Trench reinstatement</li></ul>
Po Lam Road South	• Trench excavation and pipe laying works
Po Lam Road (D2)	• Trench excavation and pipe laying works
Po Lam Road (C2)	• Pipe piling of pipe bridge at Location A Westside slop
Po Lam Road (B4)	<ul><li>Trench rock breaking</li><li>Trench excavation and pipe laying</li></ul>
Tsui Lam Road	Predrilling for mini pile
TKO Primary Service Reservoir	• Trench excavation and pipe laying

- A6. The major environmental impacts brought by the above construction works include:
  - Construction dust and noise generation from mainlaying of pipes, TBM break through and excavation;
  - Waste generation from the construction activities; and
  - 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 mainlaying of pipes, TBM break through and excavation;
  - Reduction of noise from equipment and machinery on-site;
  - Sorting and storage of general refuse and construction waste; and
  - 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 2, 10, 18, 24 and 30 March 2022 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 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 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	• Pipe installation works inside sleeve pipe	
	TKO 137 Pit B	between Pit 137A to Pit 137C will be	
T toject She	TKO 137 Pit C	conducted.	
	Wan Po Rd – Workfront 1	• Excavation and ELS works for jacking Pit 1	
	Wan Po Rd – Workfront 2	• Setup for MTMB pipe jacking	
	Wan Po Rd – Workfront 3	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Workfront 4	<ul> <li>Pipe trench excavation and pipe laying</li> <li>Pipe installation inside sleeve pipe between WF4 &amp; WF4B</li> </ul>	
	Wan Po Rd – Pit A	• Commence MTMB pipe jacking	
	Wan Po Rd – Pit B	• MTBM pipe jacking	
	Wan Po Rd – Pit D	• MTBM pipe jacking	
	Shek Kok Road – Pit D	• MTBM pipe jacking	
	Shek Kok Road – Hand-shield	<ul><li>Construction of wing wall</li><li>Setup for hand shield pipe jacking</li></ul>	
	Landfill Stage 1 – Area A	• Trench excavation and pipe laying	
	Landfill Stage 1 – Area B	• Trench excavation and pipe laying	
	Pet Garden's Road	• Trench excavation and pipe laying	
Portion J of the Project Site	Creative school	• Construction of flood protection well and re-construction of u-channel	
	Pung Loi Road – Pit WPR1	• Setup for MTMB pipe jacking	
	Roundabout – Pit G1A	• Dine laving inside sleave nine	
	Roundabout – Pit J1A	• Pipe laying inside sleeve pipe	
	Velodrome – Pit K	• Grouting for sleeve pipe between Pit K to Pit L	
	Velodrome – Pit O to Pit N	• Trench excavation and pipe laying.	
	Velodrome – Pit O to Pit P	• Site setup for trenchless works.	
	Abandoned Road near Mau Wu Tsai – Workfront 1	<ul><li>Gate valve chamber construction</li><li>Trench reinstatement</li></ul>	
	Po Lam Road South	• Trench excavation and pipe laying	
	Po Lam Road (C2)	• Pipe piling of pipe bridge at Location A Westside slope.	
	Po Lam Road (D2)	• Trench excavation and pipe laying	
	Po Lam Road (B4)	<ul><li>Trench rock breaking</li><li>Trench excavation and pipe laying</li></ul>	



Location	Location	Forecast Works in Next Reporting Month
	Tsui Lam Road	• Predrilling for mini pile
	TKO Primary Service Reservoir	• Trench excavation and pipe laying

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

- Construction dust and noise generation of mainlaying of pipes, TBM break through, and excavation works;
- Waste generation from construction activities; and
- 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 mainlaying of pipes, TBM break through 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; and
  - 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 10 km long 1200 mm diameter fresh water mains and the associated works along the alignment of the Project as shown with the overall view in **Appendix B**.

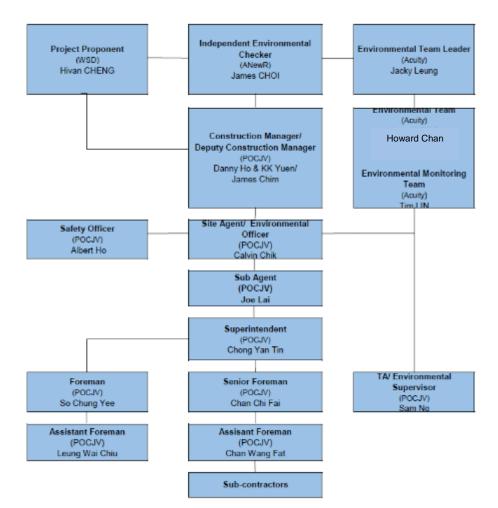
# **1.2** The Reporting Scope

This is the 44<sup>th</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 March to 31 March 2022.

# **1.3 Project Organization**

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





**Figure 1.1 Project Organization Chart** 

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

 Table 1.1 Contact details of the key personnel

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

# 1.4 Summary of Construction Works

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



Location	Location	Forecast Works in Next Reporting Month	
Portion H of the Project Site	TKO 137 Pit A		
	TKO 137 Pit B	• Pipe installation works inside sleeve pipe between Pit 137A to Pit 137C	
	TKO 137 Pit C		
	Wan Po Rd – Workfront 1	• Excavation and ELS works for jacking pit 1	
	Wan Po Rd – Workfront 2	• Setup for MTBM pipe jacking	
	Wan Po Rd – Workfront 3	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Workfront 4	Pipe trench excavation and pipe laying	
	Wan Po Rd – Workfront 5	• Pipe trench excavation and pipe laying	
	Wan Po Rd – Pit A	• Setup and commence for MTBM pipe jacking	
	Wan Po Rd – Pit B	MTBM pipe jacking	
	Shek Kok Road – Pit D	MTBM pipe jacking	
	Shek Kok Road – Hand- shield	Construction of wing wall	
	Landfill Stage 1 – Area A	• Trench excavation and pipe laying	
	Pet Garden's Road	• Trench excavation and pipe laying	
	Pung Loi Road – Pit WPR1	• Set up for MTBM pipe jacking	
Portion J of the	Creative school	• Construction of flood protection wall and re- construction of u-channel	
Project Site	Roundabout – Pit G1A	• Pipe laying inside sleeve pipe	
	Roundabout – Pit J1A	• Pipe laying inside sleeve pipe	
	Velodrome – Pit K	• Grouting for sleeve pipe between Pit K to Pit L	
	Velodrome – Pit O to Pit N	• Trench excavation and pipe laying	
	Velodrome – Pit O to Pit P	• Site setup works for trenchless works	
	Abandoned Road near Mau Wu Tsai WF-1	<ul><li>Gate valve chamber construction</li><li>Trench reinstatement</li></ul>	
	Po Lam Road South	• Trench excavation and pipe laying works	
	Po Lam Road (D2)	• Trench excavation and pipe laying works	
	Po Lam Road (C2)	• Pipe piling of pipe bridge at Location A Westside slop	
	Po Lam Road (B4)	<ul><li>Trench rock breaking</li><li>Trench excavation and pipe laying</li></ul>	
	Tsui Lam Road	• Predrilling for mini pile	
	TKO Primary Service Reservoir	• Trench excavation and pipe laying	

# Table 1.2 Summary of the Construction Works Undertaken during the Reporting Month

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
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)	GW-RE1219-21	Until 01 April 2022
Construction Noise Permit (Wan Po Road near Wan O Road and Chun Yat Street, Tseung Kwan O, N.T.)	GW-RE1211-21	Until 01 April 2022
Construction Noise Permit (Shek Kok Road near Shrewsbury International School Hong Kong, Tseung Kwan O, N.T.)	GW-RE1224-21	Until 01 April 2022

The status for all environmental aspects is presented Table 1.4.

On-going

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	act Monitoring On-going	
Waste Management		
Mitigation Measures in Waste Management Plan	On-going	
Landfill Gas		
Impact Monitoring	On-going	
Environmental Audit		

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

Site Inspection



# 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 2, 10, 18, 24 and 30 March 2022 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).  $L_{eq 30min}$  was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring. The monitoring schedule is provided in **Appendix D**.

Time	Frequency	Duration	Parameters
Daytime: 0700-1900	Once per week	$\begin{array}{c} Continuously in \\ L_{eq \; 5min}/L_{eq \; 30min} \\ (average \; of \; 6 \\ consecutive \; L_{eq \; 5min}) \end{array}$	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>

			-			
Table 2.1	Noise	Monitoring	Parameters	Time	Frequency	and Duration
I doit and	1 10190	monitoring	1 al aniciel 5	, 1 11110,	requency	and Duration



## 2.3 Noise Monitoring Locations

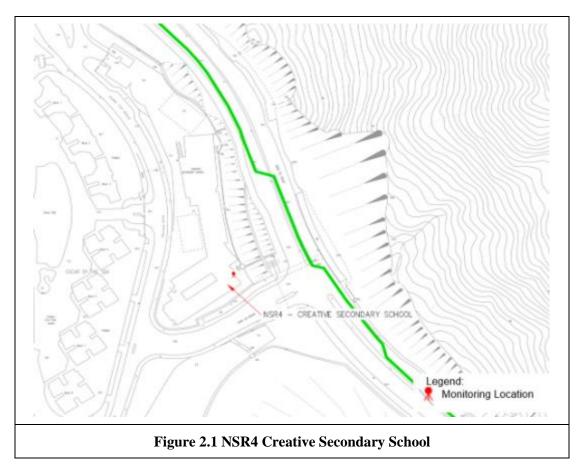
The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

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

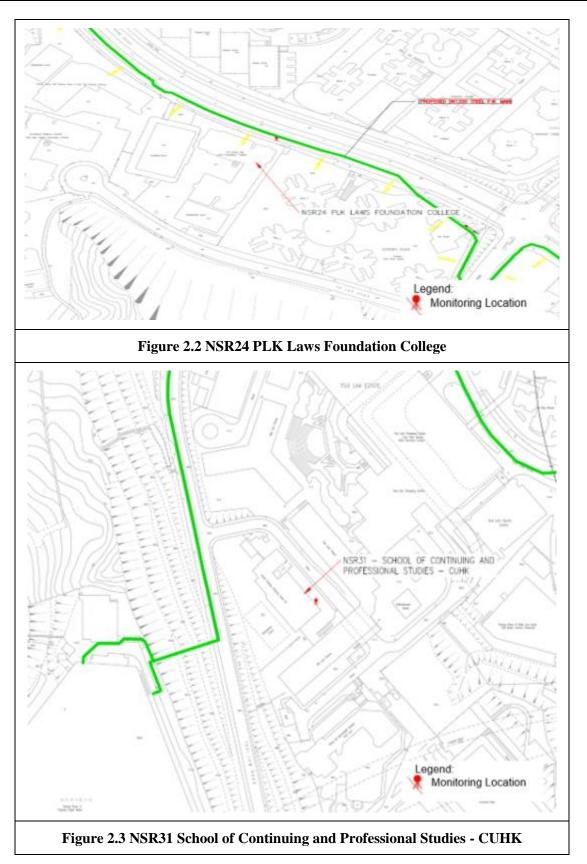
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

## Table 2.2 Noise Monitoring Location

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









# 2.4 Impact Monitoring Methodology

Integrated sound level 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.

Equipment	Brand and Model	Serial Number	Date of Calibration	Calibration Certificate Expiry Date	Detection Limit
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

**Table 2.3 Impact Noise Monitoring Equipment** 

# 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
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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> <li>70 dB(A) for school and</li> <li>65 dB(A) during examination period</li> </ul>
Notes: (a) Limits specified in the respectively.	GW-TM and IND-TM for constru	action and operation noise,

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 2, 10, 18, 24 and 30 March 2022 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 construction noise monitoring works was carried at these two locations in the reporting month.



# **3. WASTE MANAGEMENT**

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

	Quantity					
			Non-inert C&D Materials			
Reporting period	Inert C&D Materials	Chemical Waste	Others, e.g. General Refuse Recycled materials		ials	
	(in '000m3)	(in '000kg)	disposed at Landfill (in '000m3)	Paper/card board (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)
March 2022	2.144	0.000	0.002	0.054	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, 550 times of monitoring was recorded.

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

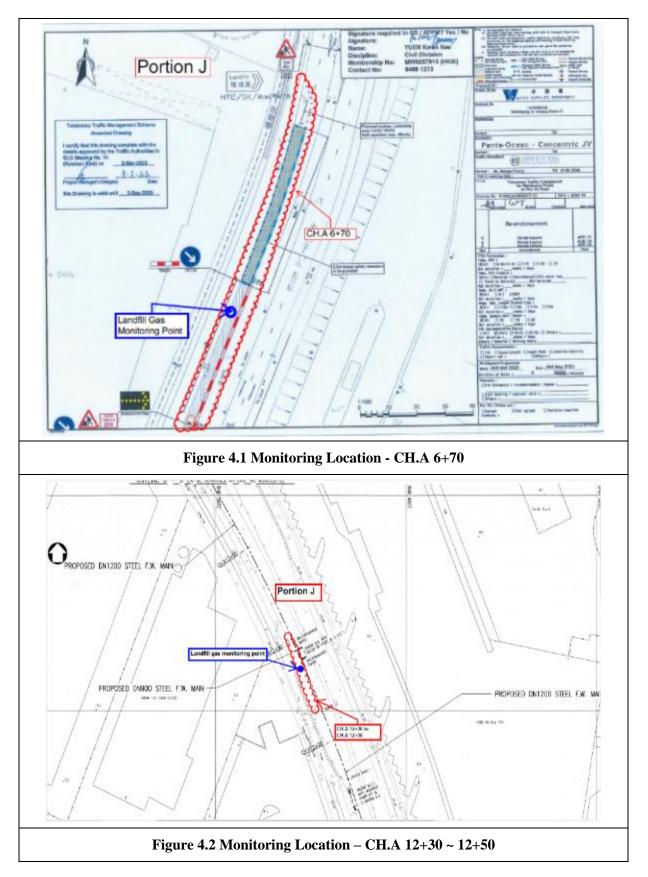
- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period when the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

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

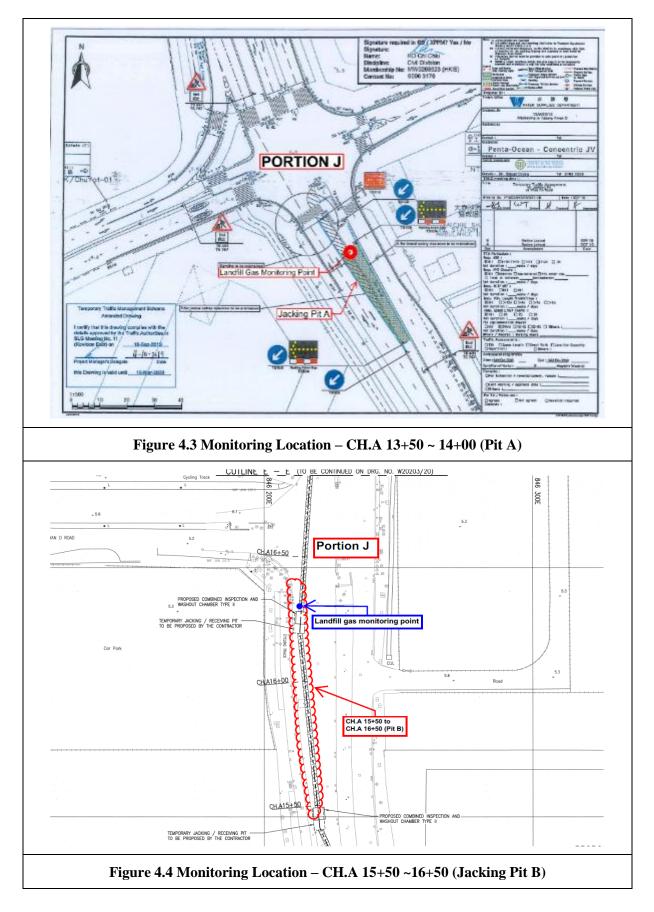
- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.20**.

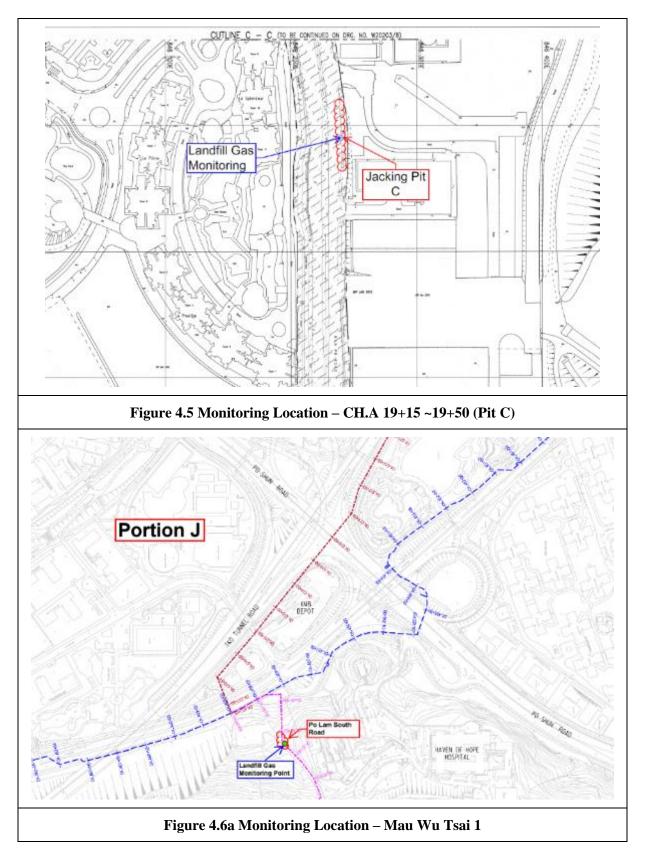




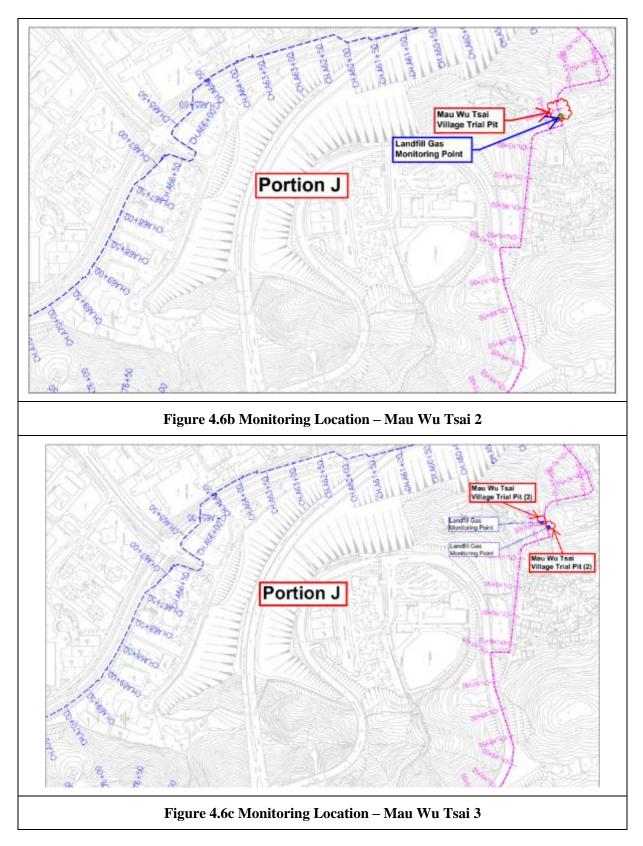














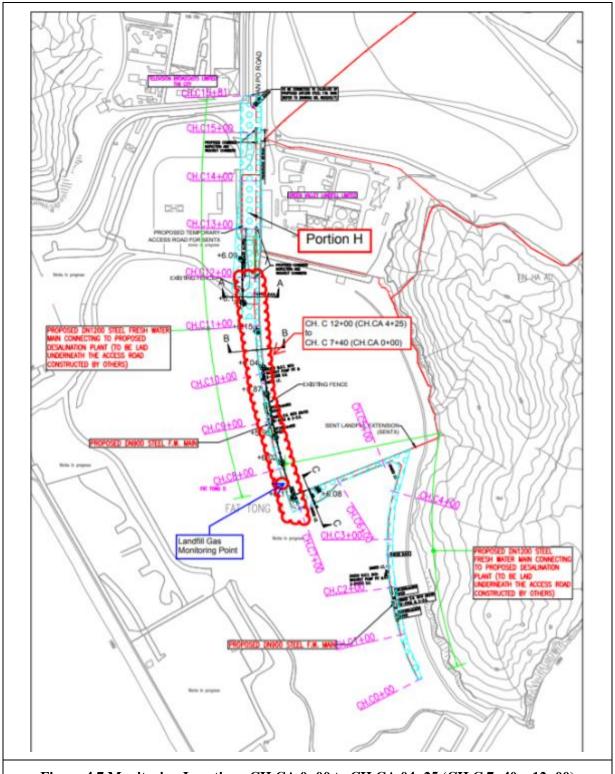
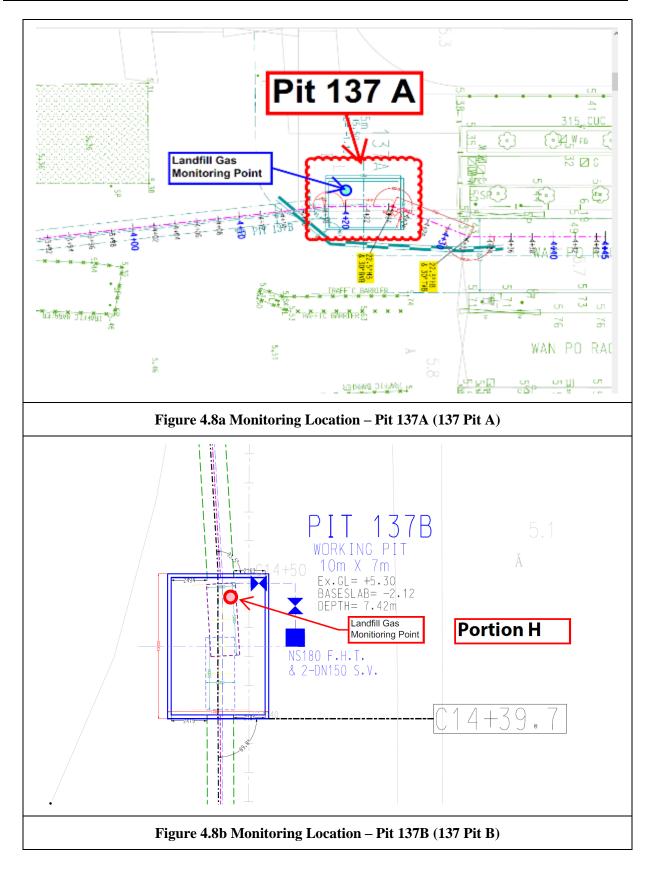
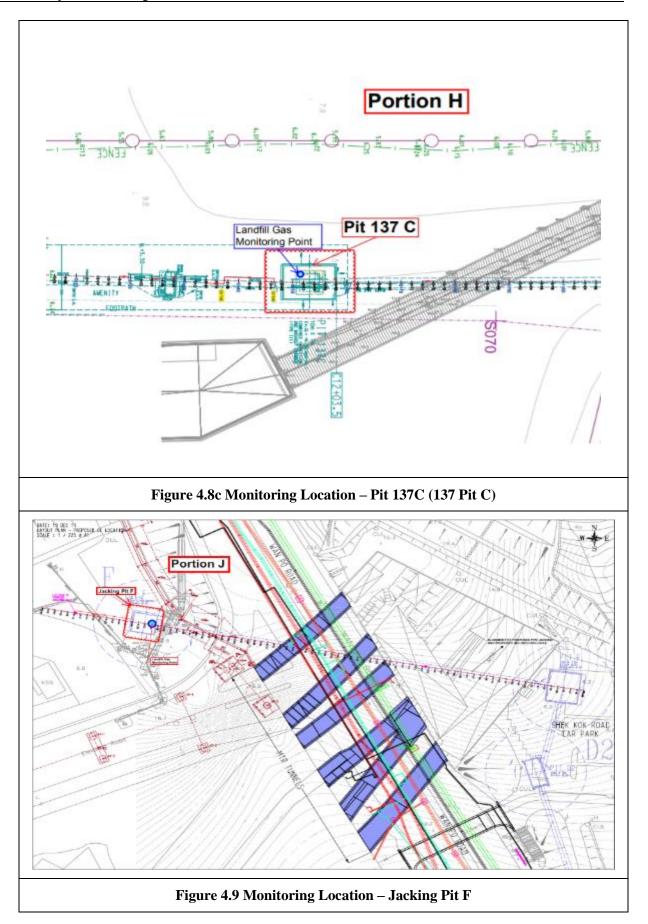


Figure 4.7 Monitoring Location –CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

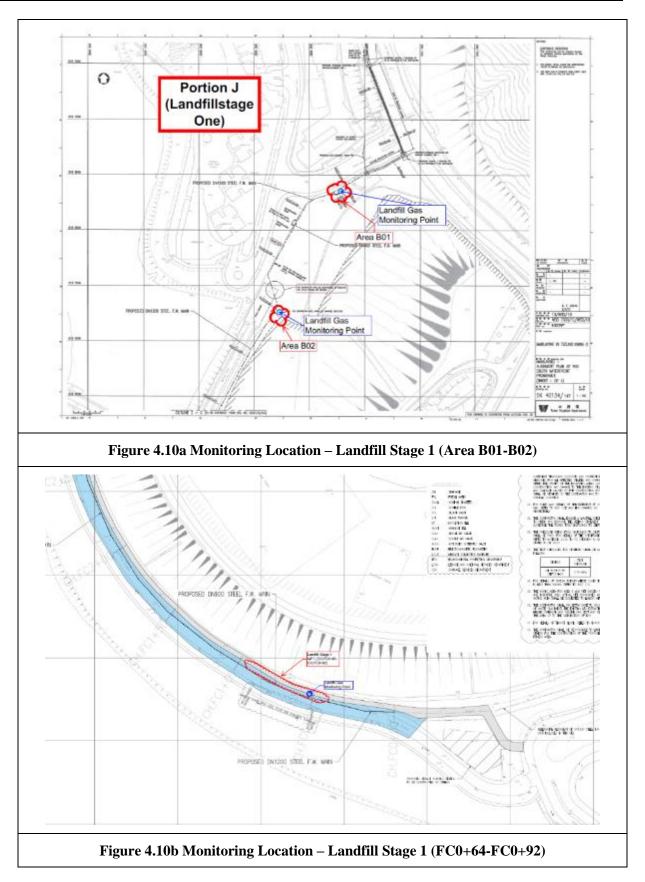




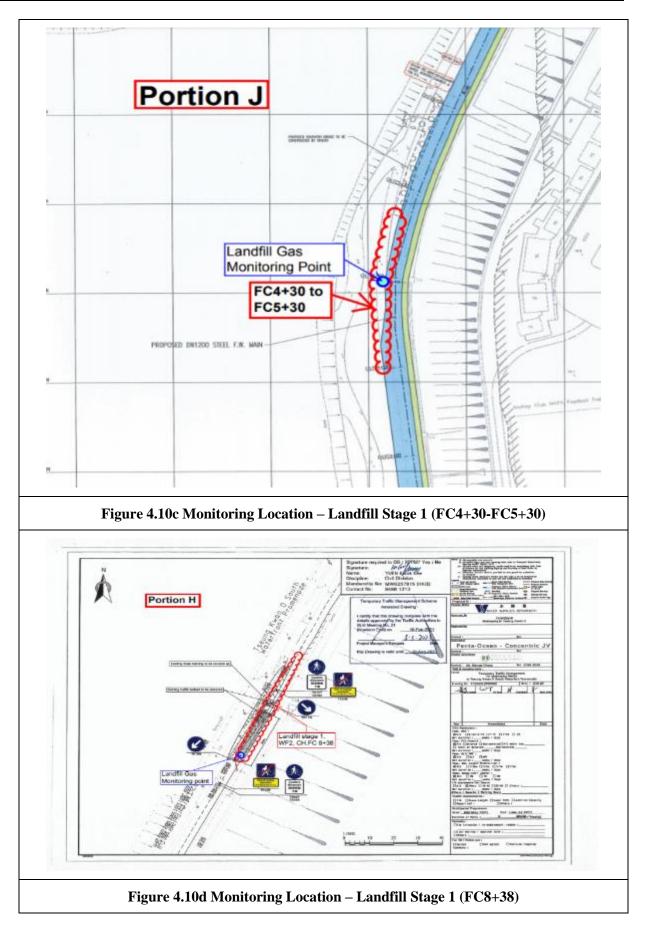




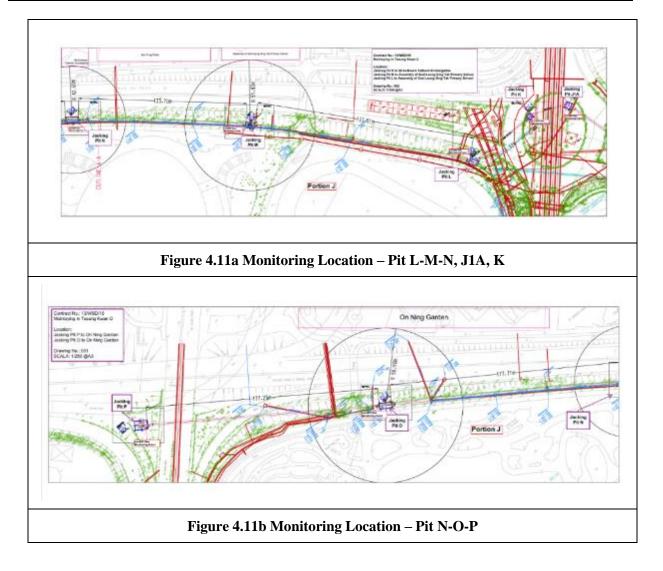




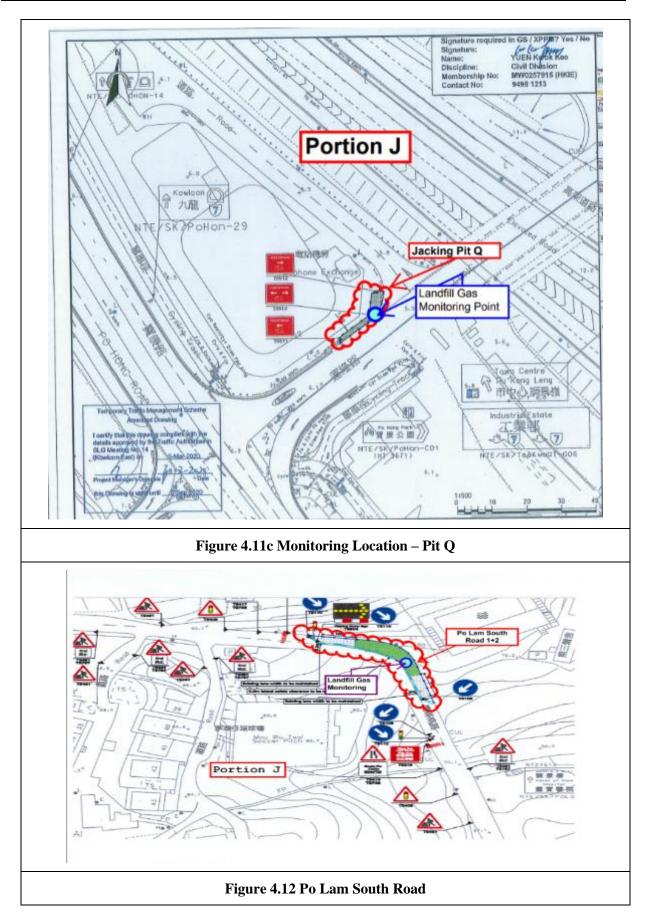




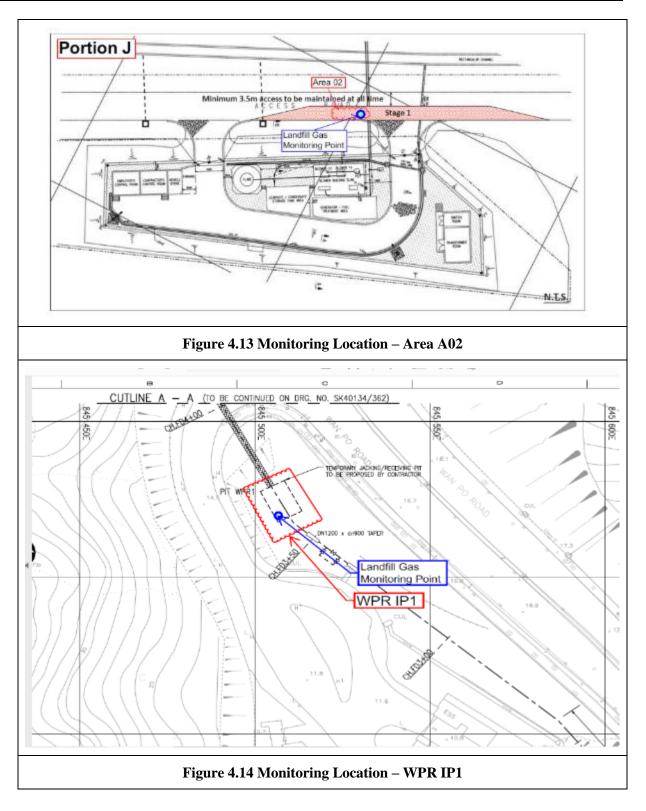




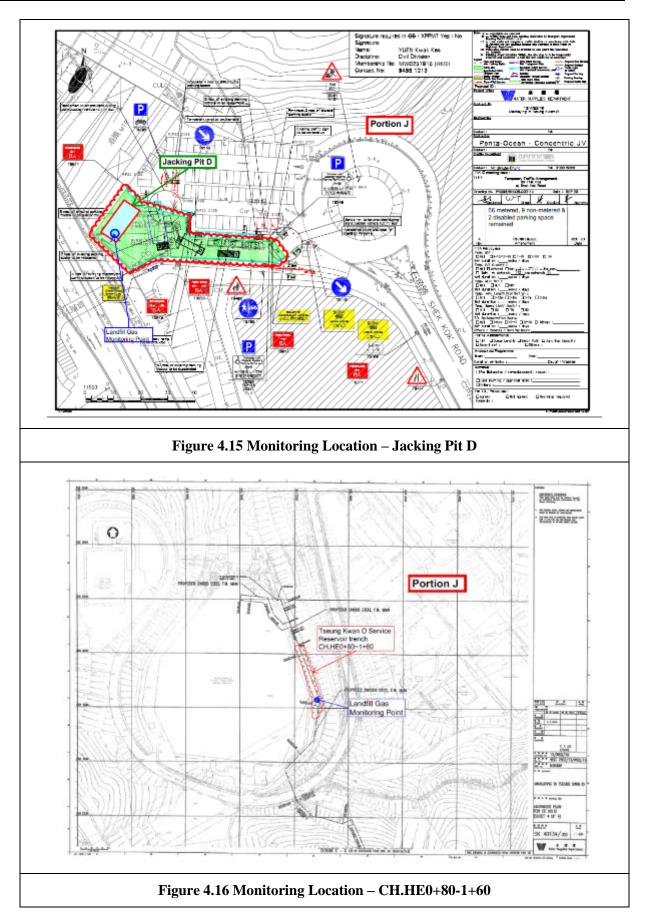




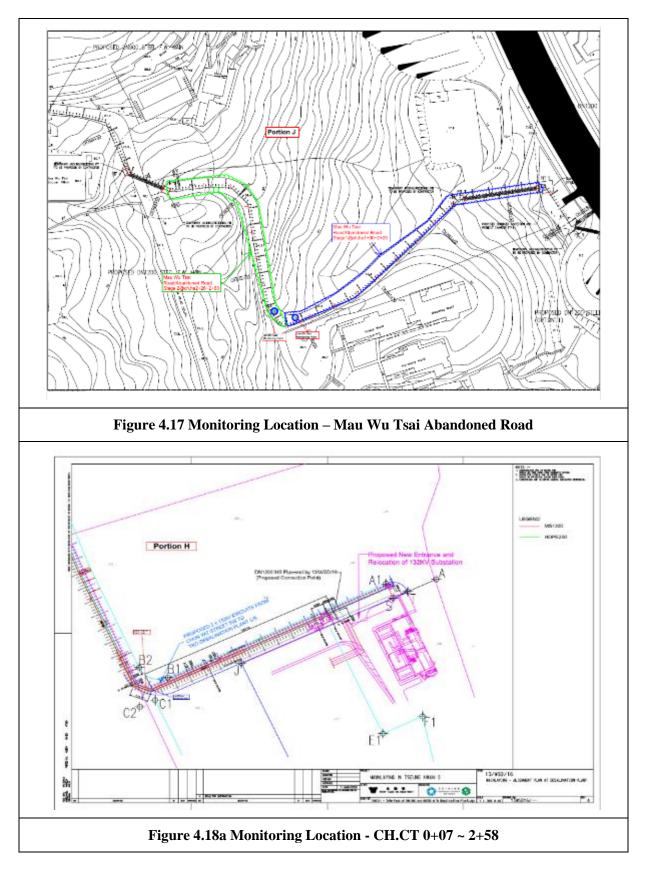




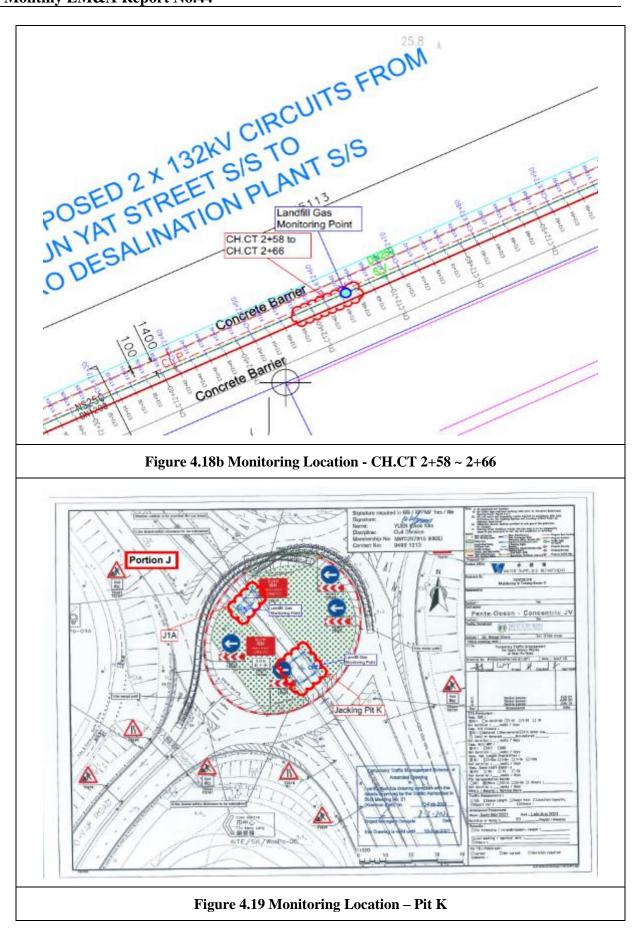




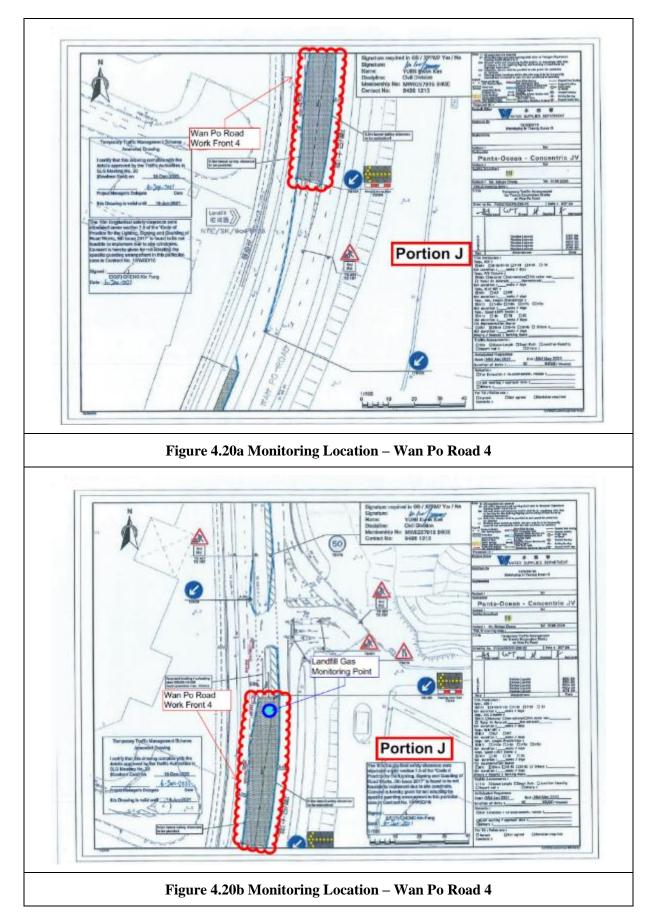














#### 4.3 Monitoring Parameters

Landfill Gas 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 (O2)	<19% O2	<19% O2
Methane (CH4)	>10% LEL	>20% LEL
Carbon Dioxide (CO2)	>0.5% CO2	>1.5% CO2

## 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**.

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

#### Table 4.2 Landfill Gas Monitoring Equipment

#### 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 550 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

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

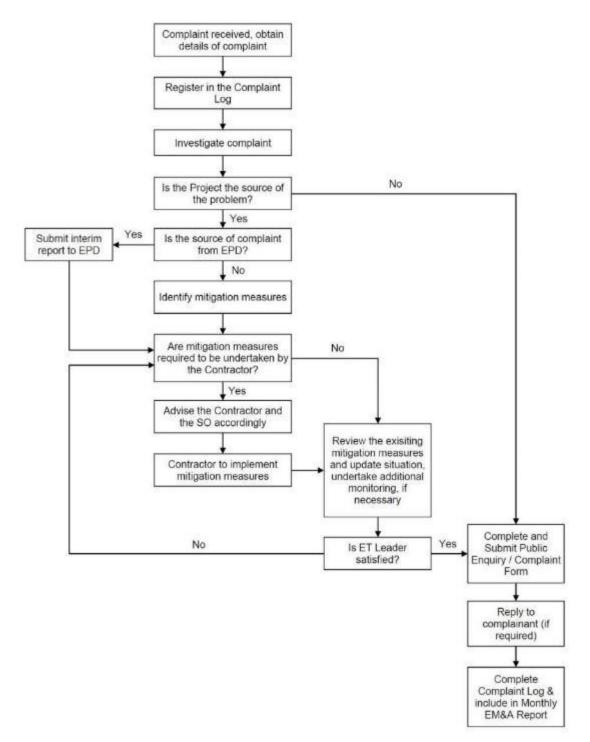


Figure 5.1 Environmental Complaint Handling Procedure



Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 2, 10, 18, 24 and 30 March 2022 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**.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 550 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No exceedance of the Action and Limit Level was recorded during the reporting period.

No environmental complaint was received in the reporting period.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in Appendix K.



### 6. EM&A SITE INSPECTION

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 3, 11, 18, 24 and 30 March 2022 at the site portions list in **Table 6.1** below.

Table 6.1	Site	Inspection	Record
-----------	------	------------	--------

Date	Inspected Site Portion	Time
3 March 2022	Portion J	09:30am – 10:00am
11 March 2022	Portion J	09:30am – 11:30am
18 March 2022	Portion J	09:30am – 11:30am
24 March 2022	Portion J	09:30am – 10:15am
30 March 2022	Portion J	09:30am – 11:15am

One joint site inspection with IEC was carried out on 24 March 2022.

Minor deficiencies were observed during weekly site inspections. Key observations during the site inspections are summarized in **Table 6.2**.

Date	Environmental Observations	Follow-up Status
3 March 2022	1. Clear the oil stain on ground and avoid oil leakage from excavator. (Po Lam South Road)	1. The oil stain on ground was cleaned.
11 March 2022	<ol> <li>Drip tray should be provided for chemical storage. (Wan Po Road Workfount 4)</li> <li>Stockpile of dusty materials should be covered properly with impervious materials at Area A.</li> </ol>	<ol> <li>Chemical was removed.</li> <li>Dusty materials was covered properly.</li> </ol>
18 March 2022	<ol> <li>Drip tray should be provided for chemical storage (Pit P and Velodrome O).</li> <li>Adequate capacity of sedimentation tank should be provided to prevent overflow of untreated muddy water at Velodrome L.</li> </ol>	<ol> <li>Drip tray was provided for chemical storage.</li> <li>Sedimentation tank was cleaned.</li> </ol>
24 March 2022	<ol> <li>Chemical waste should be stored at a designated area before disposal. (Creative School)</li> <li>Excavated materials/ rubbish should be disposed of properly and prevent soil entering the stream. (Creative School)</li> </ol>	<ol> <li>Chemical waste was cleaned.</li> <li>Excavated materials/ rubbish was cleaned.</li> </ol>

#### **Table 6.2 Site Observations**



Date	<b>Environmental Observations</b>	Follow-up Status
		1. Drip tray was provided for
	for chemical storage	chemical storage.
30 March 2022	(Velodrome L, N, O)	2. Stagnant water in drip tray was
	2. To clear the stagnant water in	cleared.
	drip tray. (Velodrome L, N, M)	

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**.

Site inspection proforma of the reporting period is provided in Appendix L.



## 7. FUTURE KEY ISSUES

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
	TKO 137 Pit A	• Pipe installation works inside sleeve pipe
Portion H of the Project Site	TKO 137 Pit B	between Pit 137A to Pit 137C will be
r toject blie	TKO 137 Pit C	conducted.
	Wan Po Rd – Workfront 1	• Excavation and ELS works for jacking Pit 1
	Wan Po Rd – Workfront 2	• Setup for MTMB pipe jacking
	Wan Po Rd – Workfront 3	• Pipe trench excavation and pipe laying
	Wan Po Rd – Workfront 4	<ul> <li>Pipe trench excavation and pipe laying</li> <li>Pipe installation inside sleeve pipe between WF4 &amp; WF4B</li> </ul>
	Wan Po Rd – Pit A	• Commence MTMB pipe jacking
	Wan Po Rd – Pit B	• MTBM pipe jacking
	Wan Po Rd – Pit D	• MTBM pipe jacking
	Shek Kok Road – Pit D	• MTBM pipe jacking
	Shek Kok Road – Hand-shield	<ul><li>Construction of wing wall</li><li>Setup for hand shield pipe jacking</li></ul>
	Landfill Stage 1 – Area A	• Trench excavation and pipe laying
	Landfill Stage 1 – Area B	• Trench excavation and pipe laying
Dortion Loftha	Pet Garden's Road	• Trench excavation and pipe laying
Portion J of the Project Site	Creative school	• Construction of flood protection well and re-construction of u-channel
	Pung Loi Road – Pit WPR1	• Setup for MTMB pipe jacking
	Roundabout – Pit G1A	• Dine laving inside sleave nine
	Roundabout – Pit J1A	• Pipe laying inside sleeve pipe
	Velodrome – Pit K	• Grouting for sleeve pipe between Pit K to Pit L
	Velodrome – Pit O to Pit N	• Trench excavation and pipe laying.
	Velodrome – Pit O to Pit P	• Site setup for trenchless works.
	Abandoned Road near Mau Wu Tsai – Workfront 1	<ul><li>Gate valve chamber construction</li><li>Trench reinstatement</li></ul>
	Po Lam Road South	• Trench excavation and pipe laying
	Po Lam Road (C2)	• Pipe piling of pipe bridge at Location A Westside slope.
	Po Lam Road (D2)	• Trench excavation and pipe laying
	Po Lam Road (B4)	<ul><li>Trench rock breaking</li><li>Trench excavation and pipe laying</li></ul>



Location	Location	Forecast Works in Next Reporting Month
	Tsui Lam Road	• Predrilling for mini pile
	TKO Primary Service Reservoir	• Trench excavation and pipe laying

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

- Construction dust and noise generation of mainlaying of pipes, TBM break through, and excavation works;
- Waste generation from construction activities; and
- Impact on water quality from construction activities.

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 excavation works, mainlaying of pipes and TBM break through works;
- Reduction of noise from equipment and machinery on-site;
- Sorting and storage of general refuse and construction waste; and
- Treatment of wastewater with water treatment facilities before discharge.

The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.

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.

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



#### 8. CONCLUSION AND RECOMMENDATIONS

This is the 44<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 March to 31 March 2022, in accordance with the EM&A Manual and the requirement under EP-503/2015/A.

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 2, 10, 18, 24 and 30 March 2022 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**.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 550 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No exceedance of the Action and Limit Level was recorded during the reporting period.

Weekly environmental site inspections were conducted during the reporting month. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the project was therefore considered satisfactory.

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.

No environmental complaint was received in the reporting month.

No notification of summons or prosecution was received since the commencement of the Contract.

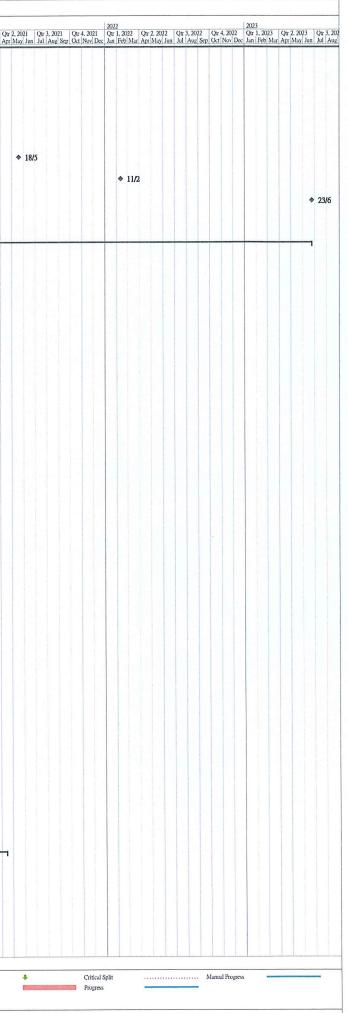
The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



# Appendix A

# **Construction Programme**

la	sk Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete A	ctual Start F	ctual Finish	201	1 2019 0-2 2019 0-2 2019 0-4 2019	2019	Or 3 2010 (No. 4 201	2020 0 0tr 1 2020 0tr 2 2	020 Or 3 2020 Or 4	2020
к	ey Dates	2420 days	7 Nov '17	22 Jun '24	Calendar Day			0%	7 Nov '17	NA	Nov Dec Jan	8 1, 2018 Qir 2, 2018 Qir 3, 2018 Qir 4, 2018 Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Qtr 1, 2019 Qtr 2, 2019 Jan Feb Mar Apr May Ju	n Jul Aug Sep Oct Nov	Dec Jan Feb Mar Apr Ma	y Jun Jul Aug Sep Oct N	ov Dec Jan Feb
		0 days			Calendar Day		36,28,29F!		7 Nov '17	7 Nov '17	• 7/11						
		0 days			Calendar Day			100%	16 Nov '17	16 Nov '17	16/11						
		0 days			Calendar Day		59,32,40,4		16 Nov '17								
		0 days			Calendar Day		582		10 Aug '19					♦ 10/8			
		0 days			Calendar Day				18 May '21								
		0 days			Calendar Day				11 Feb '22								
		0 days			Calendar Day	10		0%	NA	NA							
		0 days				10FS+365 days		0%	NA	NA							
D	fainlaying In Tseung Kwan O	2055 days			Calendar Day	10101000 4445	9FS+365 d		7 Nov '17	NA							
					Calendar Day	·希望会社会社	37		12 Jul '18			♦ 12/7					
	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25	U days	12 JUL 18	12 JUI 10	Calendar Day		57	10078	12 Jul 10	12 301 10							
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18		♦ 23/8					
	between Po Hung Road and TKO Freshwater PSR	0 0075	73 MAR 10	20 Aug 10	selender Day			20070									
	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18		♦ 23/8					
	at Tseung Kwan O Stage 1 Landfill			Ū													
	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19	28 Feb '19	Calendar Day			100%	28 Feb '19	28 Feb '19			<ul><li>28/2</li></ul>				
		0 days	19 Jun '19	19 Jun '19	Calendar Day			100%	19 Jun '19	19 Jun '19				♦ 19/6			
	Analysis in Po Lam Road and Tsui Lam Road																
	Issue CE No. 27 - Underground Utilities Detection Survey for	0 days	2 Aug '19	2 Aug '19	Calendar Day			100%	2 Aug '19	2 Aug '19				<b>\$</b> 2/8			
	Working Pit D (CH. A22+75)																
	Issue CE No. 21 - Temporary Diversion of Uncharted	0 days	8 Aug '19	8 Aug '19	Calendar Day			100%	8 Aug '19	8 Aug '19				♦ 8/8			
	Underground Utilities near Wan O Road at CH. A16+00 (Pit B)																
	Issue CE No. 26 - Change in Cathodic Protection System for	0 days	16 Aug '19	16 Aug '19	Calendar Day		54	100%	16 Aug '19	16 Aug '19				16/8			
	Mild Steel Pipes																
	Issue CE No. 35 - Feasibility Study on the Alternative	0 days	31 Dec '19	31 Dec '19	Calendar Day			100%	31 Dec '19	31 Dec '19					♦ 31/12		
	Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road																
	Issue CE No. 55 - Design of the Water Mains Structure and	0 days	5 May '20	5 May '20	Calendar Day			100%	5 May '20	5 May '20					*	5/5	
	Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam																
	Issue CE No. 56 - Excavation of Inspection Pits for the	0 days	22 May '20	22 May '20	Calendar Day			100%	22 May '20	22 May '20						♦ 22/5	
	Alternative Alignment (Batch No. 2)																
	Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and	0 days	9 Jun '20	9 Jun '20	Calendar Day			100%	9 Jun '20	9 Jun '20						♦ 9/6	
	Location B)																
	lssue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B) .	n O days	16 Jun '20	16 Jun '20	Calendar Day			100%	16 Jun '20	16 Jun '20						♦ 16/6	
	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						◆ 21/8	
	· · · · · · · · · · · · · · · · · · ·																
	Preliminaries	1255 days	7 Nov '17	14 Apr '21	Calendar Day			80%	7 Nov '17	NA							
	Submission and Permit Application	322 days	7 Nov '17	24 Sep '18	Calendar Day			100%	7 Nov '17	24 Sep '18							
	Subcontracting	1122 days	16 Nov '17	11 Dec '20	Calendar Day			97%	16 Nov '17	NA							
	Submission and Approval	122 days	16 Nov '17	17 Mar '18	Calendar Day			100%	16 Nov '17	17 Mar '18							
	Subcontractor Selection and Subcontracting	1115 days	23 Nov '17	11 Dec '20	Calendar Day			97%	23 Nov '17	NA							
1													at a second s				
n	g Programme No. 11 Task	Milestone Summary	+	Project Inactive	Summary J		ctive Milestone ctive Summary	-		ual Task ation-only		Manual Summary Rollup Manual Summary	Start-only Finish-only	C 3	External Tasks External Mileston	ne 💠	Deadlin

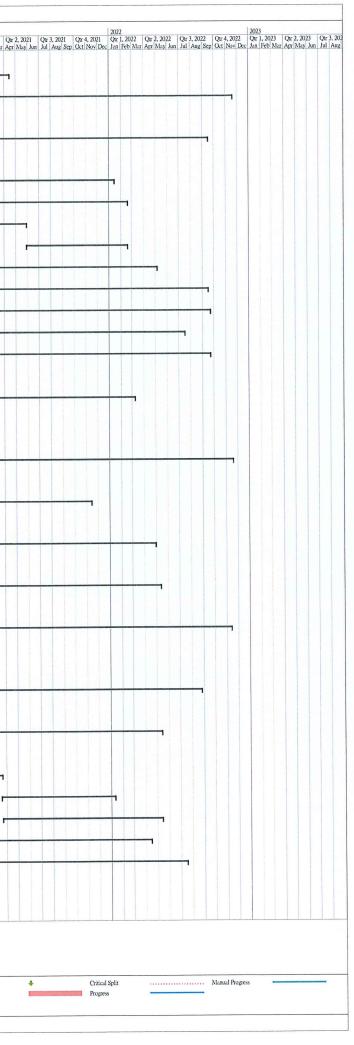


												Project: Mainlaying in Tseung Kwan O	
1	ïask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish		2018 2019 2020 202	1
											4, 2017 Nov Dec	2018         2020 <th< th=""><th>Feb Mar</th></th<>	Feb Mar
\$4	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam Road (CH. HOO+00 ~ CH HO1+01)		16 Jun '20	27 Oct '22	HK Working Day		643	13%	16 Jun '2	20 N	A		
55	From Tsui Lam Road to TKO Freshwater PSR (CH. HE.0+00 ~ CH. HE2+00) & (CH.J0+00 CH.J0+57)	677 days	3 Aug '20	12 Nov '22	HK Working Day		643	0%	i N	NA N	A		
71	Final Connection to TKO Fresh Water Service Reservoir	30 days	22 Apr '22	28 May '22	HK Working Day			0%	i N	NA N	A		
574	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1051 days	11 Dec '18	4 Jul '22	HK Working Day		- Alles	59%	11 Dec ':	18 N	A		
35	DN1200 M5 Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling,	2048 days	7 Nov '17	16 Jun '23	Calendar Day			0%	s N	NA N			
636	Static Pressure Test	838 days	1 Nov '20	16 Feb '23	Calendar Day			0%	5 N	NA N	IA	и <mark>н</mark>	
644	Pipeline Cleaning and CCTV Inspection	2018 days	7 Nov '17	17 May '23	Calendar Day		653FF+30	0%	5 N	NA N	IA I		
652	Sterilization and Water Sampling	150 days	18 Jan '23	16 Jun '23	Calendar Day			0%	5 N	NA N	IA		
654	DN800 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	35 days	18 Mar '22	21 Apr '22	Calendar Day		572,573	0%	i 1	NA N	IA		
658	NS250 HDPE Pipe Static Pressure, Pipeling Cleaning, CCTV Inspection, Sterilization and Water Sampling	30 days	11 May '22	2 9 Jun '22	Calendar Day			0%	5 N	NA N	IA		
660	Handover Portion I and Portion H to WSD Region	379 days	10 Jun '22	23 Jun '23	Calendar Day			0%	6 N	NA N	IA		
663	Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 137 (Portion J)	141 days	16 Nov '18	11 May '19	HK Working Day	/		100%	16 Nov '	'18 11 May ':	19	19	

Task Split		*	Project Summary Inactive Task	[]	Inactive Milestone Inactive Summary	1	Manual Task Duration-only	Manual Summary Rol Manual Summary	lup [1	Start-only Finish-only	с Э	External Tasks External Milestone	¢	Deadline Critical
							4 56.1	4 10/1						



lame	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete Ac	ctual Start Act	al Finish	Project: Mainlayin	0+2 001	()+ 4 2010	2019 Orc 1, 2010	Or 2 2010	Otr 3 2010	Orr 4 2010	2020 Otr 1 2020	) ()= 2 207	0 Otr 3 202
Site Establishment	220 days	2 Jan '18	9 Aug '18	Calendar Day			100%	2 Jan '18	4, 2017 Nov I 9 Aug '18	2018 Qtr 1, 2018 Qtr 2, 2 Dec Jan Feb Mar Apr Ma	y Jun Jul Aug S	ep Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct Nov De	c Jan Feb M	lar Apr May	Jun Jul Aug
	1104 days			Calendar Day				7 Apr '18	NA	-									
ainlaying From Boundary of Tseung Kwan O Area 137 to (O Fresh Water Service Reservoir (Portion I)				HK Working D			26%	7 Nov '17	NA										
Open Cut Excavation, Pipe Laying and Reinstatement at	1198 days	30 Aug '18	15 Sep '22	HK Working D	Day	638	52%	30 Aug '18	NA										
Wan Po Road																			
Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	992 days	10 Sep '18	14 Jan '22	HK Working D	Дау		66%	10 Sep '18	NA										
Trenchless Works (Pit 1 to Pit 2)	317 days	22 Jan '21	18 Feb '22	HK Working D	Оау		0%	NA	NA										
Construction of Jacking / Receiving Pits	100 days	22 Jan '21	28 May '21	1 HK Working D	Day		0%	NA	NA										
TMB Pipe Jacking Pit 1- Pit 2	217 days	29 May '21	18 Feb '22	HK Working D	Day	99	0%	NA	NA										
Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1088 days	30 Aug '18	5 May '22	HK Working D	Day		73%	30 Aug '18	NA		r								
Open Cut CH.A7+12 to CH.A13+79.5	1181 days	19 Sep '18	15 Sep '22	HK Working [	Dау		47%	19 Sep '18	NA										
Trenchless Work at Wan Po Road From Pit A to Pit F	1443 days	7 Nov '17	21 Sep '22	HK Working	Day	639	24%	7 Nov '17	NA										
Trenchless Works (Pit A to Pit C)	867 days	12 Aug '19	16 Jul '22	HK Working D	Day		17%	12 Aug '19	NA						-				
Crossing Wan Po Road and Lohas Park Road	1780 days	7 Nov '17	21 Sep '22	Calendar Day	1		7%	7 Nov '17	NA										
Miscellaneous	594 days	25 Jan '18	10 Sep '19	Calendar Day	1		80%	25 Jan '18	NA	I					1				
Open Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO South Waterfront Promenade	1283 days	7 Nov '17	8 Mar '22	HK Working I	Day	640	54%	7 Nov '17	NA										
Burned Pipe, Exposed Pipe, Trenchless Works From Loi Avenue to Po Yap Road Roundabout	768 days	20 Apr '20	18 Nov '22	2 HK Working I	Day	641	7%	20 Apr '20	NA									F	
Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit P)	590 days	18 Nov '19	13 Nov '21	1 HK Working I	Day	642	37%	18 Nov '19	NA							-			
Trenchless Work from KMB Depot to Po Hong Road (Pit F to Pit R)	P 515 days	3 Aug '20	29 Apr '22	2 HK Working	Day	642	25%	3 Aug '20	NA			*							-
Open Trench from Pit R to Pit S & Trenchless Works from Pit S to Pit T	1 524 days	3 Aug '20	12 May '2	2 HK Working	Day	642	1%	3 Aug '20	NA										
Open Cut Excavation, Pipe Laying and Reinstatement at Abandoned Road / Mau Wu Tsai Village / Po Lam Road North	1486 days	7 Nov '17	12 Nov '27	2 HK Working	Day		6%	7 Nov '17	NA										
Open Trench Pipelaying at Abandoned Road & Mau	513 days	30 Nov '20	) 25 Aug '23	2 HK Working	Day	642	0%	NA	NA										
Wu Tsai Village													_						
Trenchless Work at Mau Wu Tsui Village	412 days	16 Dec '20	3 13 May '2	22 HK Working	Day	642	0%	NA	NA										
Inspection Pit Excavation	16 days	16 Dec '20	) 6 Jan '21	HK Working	Day		0%	NA	NA										
Construction of Jacking / Receiving Pits	62 days	5 Jan '21	20 Mar '2	1 HK Working	Day		0%	NA	NA										
Hand Shield Pipe Jacking from Pit U to Pit V (~30m)	241 days	19 Mar '2	1 10 Jan '22	2 HK Working	Day		0%	NA	NA										
Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	) 336 days	22 Mar '2	1 13 May '2	22 HK Working	Day		0%	NA	NA										
Open Trench Pipe Laying at Po Lam Road North	1314 days	7 Nov '17	14 Apr '2	2 HK Working	: Day	643	0%	NA	NA										
Water Main Structure and Associated Pipe Support across the Natural Stream Course (CH. HB0+0D ~ CH.HB0+94)	653 days	5 May '20	16 Jul '22	HK Working	; Day	643	19%	5 May '20	NA									F	

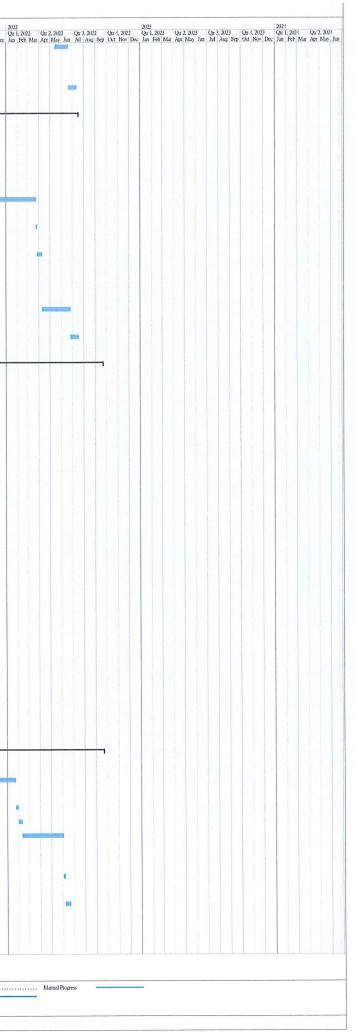


				Project: Mainlayi	ing in Tseung Kwan O				
sk Name	Duration	Start Finish Task Calendar Predecessors Su	cccessors % Complete Actual Start Actual Finish 2018 .2017 Qr 1,2018	Qr 2, 2018 Qr 3, 2018 Qr 4, 2018	2019 2020 2020 2020 2020 2020 2020 2020	2020 Qtr 2, 2020 Qtr 3, 2020 Qtr 4, 2020	2021 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2021 Q Les Eab Mar Arr Mar Jun Jul Aug Sen (1	2022 r4,2021 Qr 1,2022 Qr 2,2022 Qr 3,2022 Qr 4,7 r1 New Dec Im Feb Mar Arri May Jun Jul Ang Sen Oct N	2023         Qr 1, 2023         Qr 2, 2023         Qr 3, 2023         Qr 4, 2023         Qr 1, 2024         Qr 1, 2024
ey Dates	2420 days	7 Nov '17 22 Jun '24 Calendar Day	0% 7 Nov '17 NA	lar Apr May Juni Juli Aug Sep Oct Nov Dec	i jan reo mer Arr may jun jul Aug sep od nov bec jan r	to har Arr has for fur Aug sep out too be	All reo ma Apr may sun sur ros cep e	A LOU DOU MALING DAM 191 DAM 199 DAM 199 DATE 199	
Contract Date	0 days	7 Nov '17 7 Nov '17 Calendar Day 34	6,28,29F: 100% 7 Nov '17 7 Nov '17 \$ 7/11						
Starting Date	0 days	16 Nov '17 16 Nov '17 Calendar Day	100% 16 Nov '17 16 Nov '17 🔶 16/11						
Access Date of Portion A, B, C, D, E, F and G	0 days	16 Nov '17 16 Nov '17 Calendar Day 55	9,32,40,4 100% 16 Nov '17 16 Nov '17 🔶 16/11						
Access Date of Portion H	0 days	10 Aug '19 10 Aug '19 Calendar Day 54	82 100% 10 Aug '19 10 Aug '19		♦ 10/8				
Completion Date (Contract)	0 days	18 May '21 18 May '21 Calendar Day	100% 18 May '21 18 May '21				18/5		
Revised Completion Date (Including EOT - CE01 & CE23)	0 days	11 Feb '22 11 Feb '22 Calendar Day	100% 11 Feb '22 11 Feb '22					11/2	
Planned Completion	0 days	23 Jun '23 23 Jun '23 Calendar Day 10	0% NA NA						◆ 23/6
Defect Date	0 days	22 Jun '24 22 Jun '24 Calendar Day 10FS+365 days	0% NA NA						
1ainlaying In Tseung Kwan O	2055 days		FS+365 d 35% 7 Nov '17 NA						
Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25		12 Jul '18 12 Jul '18 Calendar Day 3	7 100% 12 Jul '18 12 Jul '18	♦ 12/7					
Issue CE No. 04 - Feasibility Study of Realignment of Pipeli between Po Hung Road and TKO Freshwater PSR	ne Odays	23 Aug '18 23 Aug '18 Calendar Day	100% 23 Aug '18 23 Aug '18	◆ 23 <i>1</i> 8					
Issue CE No. 05 - Feasibility Study of Realignment of Pipeli at Tseung Kwan O Stage 1 Landfill	ne O days	23 Aug '18 23 Aug '18 Calendar Day	100% 23 Aug '18 23 Aug '18	♦ 23/8					
Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19 28 Feb '19 Calendar Day	100% 28 Feb '19 28 Feb '19		♦ 28/2				
Issue CE No. 20 - Traffic Count and Preliminary Traffic	0 days	19 Jun '19 19 Jun '19 Calendar Day	100% 19 Jun '19 19 Jun '19		* 19/6				
Analysis in Po Lam Road and Tsui Lam Road	5 30/5								
Issue CE No. 27 - Underground Utilities Detection Survey f Working Pit D (CH. A22+75)	or O days	2 Aug '19 2 Aug '19 Calendar Day	100% 2 Aug '19 2 Aug '19		◆ 2/8				
Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan O Road at CH. A16+00 (Pi	0 days t B)	8 Aug '19 8 Aug '19 Calendar Day	100% 8 Aug '19 8 Aug '19		♦ 8/8				
Issue CE No. 26 - Change in Cathodic Protection System fo Mild Steel Pipes	r O days	16 Aug '19 16 Aug '19 Calendar Day 5	4 100% 16 Aug '19 16 Aug '19		♦ 168				
Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O	0 days	31 Dec '19 31 Dec '19 Calendar Day	100% 31 Dec '19 31 Dec '19		♦ 31/1	2			
Lohas Park Road 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		5 May '20 5 May '20 Calendar Day	100% 5 May '20 5 May '20			♦ 5/5			
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			♦ 22/5			
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			♦ 9/6			
Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Loca B) .	tion 0 days	16 Jun '20 16 Jun '20 Calendar Day	100% 16 Jun '20 16 Jun '20			♦ 16/6			
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			◆ 21/8			
Preliminaries	1255 days		80% 7 Nov '17 NA 100% 7 Nov '17 24 Sep '18						
Submission and Permit Application	322 days	7 Nov '17 24 Sep '18 Calendar Day	100% 7 Nov 17 11 Dec '17						
Submission of Safety Plan	35 days	7 Nov '17 11 Dec '17 Calendar Day 2	100% 7 Nov 17 21 Dec 17						
Submission of Site Management Plan and Trip Ticket		7 Nov '17 21 Dec '17 Calendar Day 2	100% 4 Dec '17 17 Dec '17						
Submission of Key People	14 days	4 Dec '17 17 Dec '17 Calendar Day 2FS+27 days							
Submission of Subcontractor Management Plan	30 days	7 Nov '17 6 Dec '17 Calendar Day 2	100% 7 Nov '17 6 Dec '17 💳						
Submission of First Programme	7 days	7 Nov '17 13 Nov '17 Calendar Day 2							
Submission of Pipe Material (PN16)	54 days		33 100% 1 Feb '18 27 Mar '18						
Approval of Pipe material submission (PN16)	137 days		51SS+7 da 100% 28 Mar '18 11 Aug '18						
Appointment of Environmental Team	10 days		35 100% 9 May '18 18 May '18						
Environmental Baseline Monitoring	17 days	29 May '18 14 Jun '18 Calendar Day 34	100% 29 May '18 14 Jun '18						
Submission of Environmental Management Plan	45 days	7 Nov '17 21 Dec '17 Calendar Day 2	100% 7 Nov '17 21 Dec '17						
Submission & Approval of CE01 Pipe Material PN25			55 100% 12 Jul '18 24 Sep '18						
Subcontracting	1122 days	16 Nov '17 11 Dec '20 Calendar Day	97% 16 Nov'17 NA						
Submission and Approval	122 days	16 Nov '17 17 Mar '18 Calendar Day	100% 16 Nov'17 17 Mar'18						
Submission of sub-contractor selection procedure			41 100% 16 Nov '17 9 Dec '17						
Approval of sub-contractor selection procedure	42 days		56,51,52F! 100% 10 Dec '17 20 Jan '18						
Submission of Sub-contractor Condition	14 days		43 100% 21 Jan '18 3 Feb '18						
Approval of Sub-contractor Condition	42 days		56,51,52F! 100% 4 Feb '18 17 Mar '18						
Submission of Supplier Selection Procedure	75 days		45 100% 16 Nov '17 29 Jan '18						
Approval of Supplier Selection Procedure	42 days	30 Jan '18 12 Mar '18 Calendar Day 44	61 100% 30 Jan '18 12 Mar '18						
Subcontractor Selection and Subcontracting	1115 days	23 Nov '17 11 Dec '20 Calendar Day	97% 23 Nov '17 NA						
Traffic Consultant for Investigation Works	30 days	23 Nov '17 22 Dec '17 Calendar Day 4	100% 23 Nov '17 22 Dec '17 💻						
Consultancy: Landscape for Investigation works	30 days	5 Jan '18 3 Feb '18 Calendar Day 4	228 100% 5 Jan '18 3 Feb '18 💳						
Consultancy: Traffic consultant	55 days	21 Feb '18 16 Apr '18 Calendar Day	100% 21 Feb '18 16 Apr '18						
Environmental Team	9 days	16 Apr '18 24 Apr '18 Calendar Day	34 100% 16 Apr '18 24 Apr '18						
Temporary site office, hoarding & project sign bo			58FS+13 d 100% 22 Mar '18 4 Jun '18						
Consultancy: Independent Checking Engineer	12 days	14 May '18 25 May '18 Calendar Day 41FS+10 days,43	100% 14 May '18 25 May '18						
	23 days	26 Sep '18 18 Oct '18 Calendar Day	100% 26 Sep '18 18 Oct '18						
Survey Services		A CONTRACTOR OF				and the second	and the standard sector in the sector is a sector of the sector is a sector of the sector is a sector	and and the second s	the second se
Survey Services g Programme No. 11 Task	Milestone	Project Summary     Inactive	e Milestone Manual Task	Manual Summary Rollup	Start-only E External Tasks	Deadline	Critical Split	Manual Progress	

Task Name		Duration	Start Finish Task Calendar Predecessors	Successors % (	Complete Actual Start Actual Finish	2018 Qr 1, 2018 Qr 2, 2018	Qu 3. 2018 Orr 4	2019 JI8 Qtt 1, 2019	Qr 2, 2019 Qr 3, 2019	2020 Qtr 4, 2019 Otr 1, 202	0 Qtr 2, 2020 Ot	r 3, 2020 Qtr 4, 2020	2021 Qtr 1, 2021 Qtr 2	2, 2021 Qu 3, 2021	Qu 4, 2021 Q	22 u 1, 2022 Qu 2, 2022	Qu 3, 2022 Qu 4	2023 , 2022 Qtr 1, 2023	Qtr 2, 2023 Qtr 3, 1	2023 Qtr 4, 2023 Q
	Sacrificial Anode Cathodic Protection (SACP)	82 days	30 May '19 19 Aug '19 Calendar Day 18	68	100% 30 May '19 19 Aug '19	Jan Feb Mar Apr May Ji	m Jul Aug Sep Oct N	Dec Jan Feb Mar	Apr May Jun Jul Aug Sej	o Oct Nov Dec Jan Feb	Mar Apr May Jun Ju	I Aug Sep Oct Nov	Dec Jan Feb Mar Apr	May Jun Jul Aug S	p Oct Nov Dec Jar	a Feb Mar Arr May Ju	in Jul Aug Sep Oct /	wov Dec Jan Feb Mar	Apr May Jun Jul Ai	ag sep Oct Nov Dec Ja
		42 days	6 Sep '18 17 Oct '18 Calendar Day 41,43		100% 6 Sep '18 17 Oct '18															
		42 days 1000 days	18 Mar '18 11 Dec '20 Calendar Day 43,41		96% 18 Mar '18 NA															
Site			2 Jan '18 9 Aug '18 Calendar Day		100% 2 Jan '18 9 Aug '18															
one		220 days																		
		90 days	12 May '18 9 Aug '18 Calendar Day 51FS+13 day	5	100% 12 May '18 9 Aug '18															
	itial Survey of the Site	60 days	2 Jan '18 2 Mar '18 Calendar Day 4		100% 2 Jan '18 2 Mar '18															
Proc	urement of Major Material	1104 days	7 Apr '18 14 Apr '21 Calendar Day		54% 7 Apr '18 NA															
Pi	eparation of Purchase Order	7 days	7 Apr '18 13 Apr '18 Calendar Day 3355+7 days,	,45 62	100% 7 Apr '18 13 Apr '18															
19	t Batch of Material Delivery	65 days	14 Apr '18 17 Jun '18 Calendar Day 61	63	100% 14 Apr '18 17 Jun '18															
1:	t Batch of Material Delivery on site	0 days	29 Jun '18 29 Jun '18 Calendar Day 62	64	100% 29 Jun '18 29 Jun '18		29/6													
N	aterial Delivery by Batches	1020 days	30 Jun '18 14 Apr '21 Calendar Day 63		30% 30 Jun '18 NA															
P	eparation of CE01 Purchase Order	7 days	25 Sep '18 1 Oct '18 Calendar Day 37	66	100% 25 Sep '18 1 Oct '18		14													
		90 days	2 Oct '18 30 Dec '18 Calendar Day 65	67	100% 2 Oct '18 30 Dec '18															
		1 day	22 Jan '19 22 Jan '19 Calendar Day 66		100% 22 Jan '19 22 Jan '19															
-			20 Aug '19 6 May '20 Calendar Day 54	69	100% 20 Aug '19 6 May '20															
		261 days		09	and the second se															
SI	CAP Purchase Order & Material Delivery	115 days	22 Jun '20 14 Oct '20 Calendar Day 68		100% 22 Jun '20 14 Oct '20													-		
	ying From Boundary of Tseung Kwan O Area 137 to esh Water Service Reservoir (Portion I)	1491 days	7 Nov '17 18 Nov '22 HK Working Day		26% 7 Nov '17 NA													•		
	n Cut Excavation, Pipe Laying and Reinstatement at I Po Road	1198 days	30 Aug '18 15 Sep '22 HK Working Day	638	52% 30 Aug '18 NA															
	pen Cut CH.A0+00 to CH.A3+62 (Pit 1)	992 days	10 Sep '18 14 Jan '22 HK Working Day	Contraction of the	66% 10 Sep '18 NA		P													
100 C	같은 것 같은 것에서 같은 것이 같은 것이 것을 가지 않는 것 같은 것을 했다.		20 Nov '21 14 Jan '22 HK Working Day 609		0% NA NA															
		45 days			100% 23 May '19 26 Nov '19															
		156 days	23 May '19 26 Nov '19 HK Working Day																	
	CH. A0+50 - 1+50 OC	42 days	10 Sep '18 31 Oct '18 HK Working Day		100% 10 Sep '18 31 Oct '18															
	CH. A1+50 - 1+60 OC	53 days	1 Nov '18 4 Jan '19 HK Working Day		100% 1 Nov '18 4 Jan '19															
	CH. A1+60 - 2+14 OC	107 days	5 Jan '19 20 May '19 HK Working Day		100% 5 Jan '19 20 May '19															
	CH. A2+14 - 2+30 OC	40 days	1 Sep '20 19 Oct '20 HK Working Day		90% 1 Sep '20 NA															
	CH. A2+30 - 2+46 OC	30 days	27 Oct '20 30 Nov '20 HK Working Day		90% 27 Oct '20 NA															
		30 days	10 Nov '20 14 Dec '20 HK Working Day	81	5% 10 Nov '20 NA															
		30 days	15 Dec '20 21 Jan '21 HK Working Day 80	82	0% NA NA															
					0% NA NA															
		110 days	22 Jan '21 9 Jun '21 HK Working Day 81	8555																
Т		317 days	22 Jan '21 18 Feb '22 HK Working Day		0% NA NA															
	Construction of Jacking / Receiving Pits	100 days	22 Jan '21 28 May '21 HK Working Day		0% NA NA															
	CH. A3+62 - Pit 1	50 days	22 Jan '21 24 Mar '21 HK Working Day 82SS	88,86	0% NA NA															
	CH. A5+29.5 - Pit 2	50 days	25 Mar '21 28 May '21 HK Working Day 85	88	0% NA NA															
	TMB Pipe Jacking Pit 1- Pit 2	217 days	29 May '21 18 Feb '22 HK Working Day	99	0% NA NA											-				
and the second second	TBM Establishment	24 days	29 May '21 26 Jun '21 HK Working Day 85,86	89	0% NA NA															
		40 days	28 Jun '21 13 Aug '21 HK Working Day 88	90	0% NA NA															
				91	0% NA NA									1						
		6 days	14 Aug '21 20 Aug '21 HK Working Day 89																	
		6 days	21 Aug '21 27 Aug '21 HK Working Day 90	92	0% NA NA															
	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per	. 69 days	28 Aug '21 19 Nov '21 HK Working Day 91	93	0% NA NA															
	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	20 Nov '21 23 Nov '21 HK Working Day 92	94	0% NA NA															
	Grouting Works (30m/day)	6 days	24 Nov '21 30 Nov '21 HK Working Day 93	95,96	0% NA NA															
	Construction of Combined Inspection and Washout		1 Dec '21 25 Jan '22 HK Working Day 94	97	0% NA NA															
	Chamber Type I at Pit 1																			
	Construction of Combined Inspection and Washou Chamber Type I at Pit 2	45 days	1 Dec '21 25 Jan '22 HK Working Day 94	97	0% NA NA															
	Backfill, Remove ELS and Road Reinstatement at Pit 1 & pit 2	18 days	26 Jan '22 18 Feb '22 HK Working Day 95,96		0% NA NA															
Sec. Co	Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1088 days	30 Aug '18 5 May '22 HK Working Day		73% 30 Aug '18 NA											1				
1000 C	CH. A5+29.5 - 5+88 OC	60 days	19 Feb '22 5 May '22 HK Working Day 100,87		0% NA NA															
		115 days	9 Dec '20 4 May '21 HK Working Day 101	99	0% NA NA															
		30 days	4 Nov '20 8 Dec '20 HK Working Day	100,116	10% 4 Nov '20 NA															
	CH. A6+12 - 6+20 OC			116	80% 22 Apr '20 NA															
	CH. A6+20 - 6+54 OC	191 days	22 Apr '20 8 Dec '20 HK Working Day 103																	
3	CH. A6+54 - 6+70 OC + Handshield	378 days	14 Jan '19 26 Apr '20 HK Working Day	102	100% 14 Jan '19 26 Apr '20					* 20	1									
	Issue CE No. 22 - Instruction to Change in Mainlaying Method t Wan Po Road between CH.6+54 and A6+61	0 days	20 Jan '20 20 Jan '20 Calendar Day		100% 20 Jan '20 20 Jan '20					◆ 20										
5	Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Roac between CH. A6+68 and CH. A6+88	0 days	29 Jun '20 29 Jun '20 Calendar Day		100% 29 Jun '20 29 Jun '20						•	29/6								
06	EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH.A6+90 and CH.A7+10	0 days	18 Sep '18 18 Sep '18 Calendar Day		100% 18 Sep '18 18 Sep '18		◆ 18/9													
107	CH. A6+70 - 7+12 OC	111 days	30 Aug '18 12 Jan '19 HK Working Day		100% 30 Aug '18 12 Jan '19															
				1			Summer, Pollen	0	r	Faterral Tal-		Deadline		Critical Split		Manual Pro	TOJICS			
	mme No. 11 Task	Milestone	<ul> <li>Project Summary</li> </ul>	Inactive Milestone	Manual Task	Manul	summery Rollup	Start-only		External Tasks		Deadline	*	Critical Split	********	ATTACA PICTURE PIC	- garanda			

No.       N	Task Nam	e	Duration	Start Finish Task Calendar Predecessors	Successors % C	Complete Actual Start	Actual Finish
No. 10.4.1         No. 10.4.2         Add 20         Mark 10.4.1         Mark 10.4.1 <thm< th=""><th></th><th>0 0-4-01 A7-43</th><th>1101 days</th><th>19 Son /18 15 Sep 53 LIV Working Day</th><th></th><th>47% 19.500</th><th>'18 N</th></thm<>		0 0-4-01 A7-43	1101 days	19 Son /18 15 Sep 53 LIV Working Day		47% 19.500	'18 N
		EWN No. 108 - TTA Implementation outside the	Contraction Section 1			and the second	and the second second second
Second		EWN No. 108 - TTA Implementation outside the	0 days	9 Apr '20 9 Apr '20 Calendar Day		100% 9 Apr	'20 9 Apr '2
		EWN No. 159 - Confimation of Revised Pipe	0 days	20 May '20 20 May '20 Calendar Day		100% 20 May	'20 20 May '2
Image: 100 mining of the start of the s		Landfill EWN No. 173 - Additional Inspection Pit at Wan Po	1 day	11 Jun '20 11 Jun '20 Calendar Day		100% 11 Jun	'20 11 Jun '2
1       1		Green Valley Lanfill	4 days	23 Jul '20 27 Jul '20 HK Working Day		100% 23 Jul	'20 27 Jul '2
- 1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1<		footpath of Wan Po Road near Green Valley Landfill Entrance	0 days	29 Jul '20 29 Jul '20 Calendar Day	115	100% 29 Jul	'20 29 Jul '2
Substrate decomposition         Substrate deco		Road Northbound outside the Entrance Gate of Green Valley Lanfill		30 Nov '20 30 Nov '20 Calendar Day 114		0%	NA N
Outlet         Unit         <		near the entrance of Green Valley Landfill			110 117 1		NO N
000000000000000000000000000000000000			90 days	3 Dec .20 30 War .21 HK Working Day 102,101	116,117,1.		
• 0449         • 044         • 0449         • 044         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 0449         • 044	1						
Single	3						
a. a	)				120		
0       0.000 - 11-0-58       4.000       1000 0 1000       10000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       1000 0 1000       10000 0 1000       10000 0 1000       10000 0 1000 <t< td=""><td>)</td><td></td><td></td><td></td><td>4.0-</td><td></td><td></td></t<>	)				4.0-		
ar. 2013: 1: 1: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	l				122		
01.42019-300000000000000000000000000000000000	2						
Image: Note: Source	3		95 days	18 Nov '20 15 Mar '21 HK Working Day 124		0%	NA N
Image: 1. Supple: 1. Supple	4	CH. A11+80 - 12+12 OC with DN600 IT	64 days	1 Sep '20 17 Nov '20 HK Working Day 125	123	20% 1 Sep	'20 N
Inductor Webselser       Option Processer       Service       Service       Service         IPPED Processer       Service Webselser       Service       Ser	5	CH. A12+12 - 12+50 OC with DN900 Valve Chamber	451 days	23 Feb '19 31 Aug '20 HK Working Day	124	100% 23 Feb	'19 31 Aug '2
Building of Build of Build of Building of Build	6			22 Aug '19 22 Aug '19 Calendar Day		100% 22 Aug	g'19 22 Aug '1
Image: 2 [ Courter of yet and y							
7.       0.2.1295.23132C       84.69       8.16-19       8.16-19       1.2.16-17         0.2.1295.23132C       84.69       9.16-19       1.2.16-17       0.8.14-19       1.2.16-17         0.2.1295.23132C       84.69       1.2.16-17       0.8.14-19       1.2.16-17       0.8.14-19       0.1.16-17         0.2.1295.23132C       1.2.16-17       1.2.16-17       1.2.16-17       1.2.16-17       0.1.16-17       0.1.16-17       0.1.16-17         0.2.1295.23132C       1.2.16-17       1.2.16-17       1.2.16-17       1.2.16-17       1.2.16-17       0.1.16-17	7	Unforeseen Ground Conditions at Open Trench of Mainlaying at Wan Po Road between CH.A12+89 and		4 Dec '18 4 Dec '18 Calendar Day		100% 4 Dec	: '18 4 Dec '1
0       0.0.1205 - 3.19-3 UC       0.0.40 y       0.16 y       9.16 y       10 1.00 y       10	8	CH, A12+50 - 12+95 OC	125 days	19 Sep '18 21 Feb '19 HK Working Day		100% 19 Sep	'18 21 Feb '1
1       Order Alars 1: 11: 0OC 1 Distance Alar Monoport 1: 16 on 20 and 20	9				130		
Image: Control State (Control State							
Transitist Work is War Parkad from PA No Park       6470 wr.       124 wirks wirks wirks Parkad from PA No Parkad from PA No Parkad Works (PA No PA No)       649       128       128 wirks		CH. A13+40 - 13+60 OC & Connection from Open Cu			130		
Instrumentation         Bir day         Lange 10         Bir day	2		1443 dave	7 Nov '17 21 Sep '22 HK Working Day	639	24% 7 No	/'17 N
Spreshed Rt No. 52. Model Net Network Just Net Network Just Net Network Just Network Net							
Big         Big <td>1000</td> <td></td> <td></td> <td>전에 2016년 1917년 1918년 1 1919년 1월 1919년 1 1919년 1월 1919년 1</td> <td></td> <td></td> <td></td>	1000			전에 2016년 1917년 1918년 1 1919년 1월 1919년 1 1919년 1월 1919년 1			
Removal of Existing PinAct for 2 Jucking PinA               13 M. Working Day			o days	SUNDY ZU SUNDY ZU Calendar Day		576	
Removal of Existing PRAte         6 days         15 Jun 20         2 Jun 20         15 Jun 20         2 Jun 20           Jaking PLA         13 9 days         17 Jul 20         10 kW onking Day         1 Jul 20         1 KW onking Day         1 Jul 20         NA           Jaking PLA         Jaking PLA         1 Jul 20         Jul 20         1 Jul 20         NA         1 Jul 20         NA           Jaking / Recming PLA         B Wahn Bold near Wan O Road         I Jul 20		Construction of Jacking / Receiving Pits	445 days	12 Aug '19 6 Feb '21 HK Working Day	24 999 10 1	32% 12 Au	g'19 N
Interface         Table 20         Table 20         TAble 20         NA           Jaking FLA         139 day         17.14/20         31 Aug 20         11.4%         17.24/20         NA           Susce CF No. 22 - Additional Ground Treatment         0 days         31.Aug 20           Jacking / Receiving PL B         445 days         12.Aug 19         6 feb 21         HK Working Day         5.55         37.1075         NA           Receiving PL C         286 days         23 Hov 12         11.4ug 21         HK Working Day 156         NA         NA           Establishment AF NA         24 days         15.4ug 21         11.4ug 21         HK Working Day 156         NA         NA           Jacking / Dark More Stelew Plog (PK A S Adays         12.4ug 12         11.4ug 21.         HK Working Day 156         NA         NA           Jacking Dix A Son Care Stelew Plog (PK A S Adays         12.4ug 12         14.4ug 30         NK         NA         NA           Jacking Dix Law Ming Pl Law 10000 fructur Mint RP HA         6 days         18 6 0.7k         NA         NA           Place Javing Binde Jacking Pl Law Ming Binde Jacking Pl Law Morking Day 12.3i         144 <t< td=""><td></td><td></td><td></td><td></td><td>137</td><td></td><td></td></t<>					137		
Marker No. 32 - Additional Ground Treatment, 0 day       Na. 92 0       Al. Ng 20       Al. Ng 20       Al. Ng 20       Al. Ng 20       Sal. Ng 20       Na         Isocial function       grouting works       238 days       29 Nov 70       IKK Working Day       564       29 Nov 70       NA       NA         Isocial function       238 days       231 Sal 21       11/10 Sal. 10 Sal. 10       NA       NA       NA         Isocial function       238 days       231 Sal. 21       11/10 Sal. 10       NA       NA       NA         Isocial function       24 days       15.//121       11. Ng 21       1K. Working Day 142, 156       143. 150       0%       NA       NA         Isocial function       10 Sal. 22       10 Sal. 21       10 Sal. 21       10 Sal. 21       10 Sal. 22       10 Sal. 22       10 Sal. 21       10 Sal. 22       10 Sal. 23       10 Sal. 23 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Bulle Et No. 2, rotation for used with a strate for with a strate strate for with a strate for with a strat							
growting works         Receiving ht C       29 days       29 No '13       91 No '22       14 Working Day       54%       29 No '13       NA         TBM Pipe darking (Pit A to Pit B)       29 days       15 Jul '21       11 Jul '22       14 Working Day       NA       NA         I Stabilishment a Pit A       2 days       15 Jul '21       11 Jul '22       14 Working Day       NA       NA         J acking Dhi StoD Presat Concrete Siever Pipe (Pit A 54 days       12 Jul '21       16 Oct '21       143,150       0%       NA       NA         J acking Dhi StoD Presat Concrete Siever Pipe (Pit A 54 days       12 Jul '21       16 Oct '21       144,145       0%       NA       NA         Memove setup including thrut will at Pit A       6 days       18 Oct '21       29 Oct '21       14 Working Day 143       146       0%       NA       NA         O       DN1200 M S pipe taying inside jacking Pit B       6 days       18 Oct '21       29 Oct '21       14W Working Day 143       146       0%       NA       NA         O       DN1200 M S pipe taying inside jacking Pit B       6 days       18 Oct '21       19 Mit Working Day 143       146       0%       NA       NA         O       Growting West StoD inctring the gap between       3 days       2 Mit Work		Works in Pit B in Wan Po Road near Wan O Road					
Network         Network <t< td=""><td>39</td><td></td><td>445 days</td><td>12 Aug '19 6 Feb '21 HK Working Day</td><td>154</td><td>21% 12 Au</td><td>g'19 N</td></t<>	39		445 days	12 Aug '19 6 Feb '21 HK Working Day	154	21% 12 Au	g'19 N
Image: Normal Section (Normal S	40	Receiving Pit C	298 days	29 Nov '19 30 Nov '20 HK Working Day		54% 29 No	v '19 M
2       Extablishment at Pit A       24 days       15 Jul '21       11 Aug '21       HK Working Day 156       143,150       0%       NA       NA         3       Jacking DNIGOD Precast Concrete Sleeve Pipe (Pit A 54 days)       12 Aug '21       16 Oct '21       HK Working Day 142,156       144,145       0%       NA       NA         44       Remove setup including thrust wall at Pit A       6 days       18 Oct '21       23 Oct '21       HK Working Day 142,156       144,145       0%       NA       NA         45       Setup for Pipe Laying inside jacking pipe (240m)       12 Od ays       18 Oct '21       23 Oct '21       HK Working Day 143       146       0%       NA       NA         46       Dermwork & Setup for Grouting the gap between       3 days       25 Oct '21       19 Mar '22       HK Working Day 145       147       0%       NA       NA         47       Pormwork & Setup for Grouting the gap between       3 days       21 Mar '22       23 Mar '22       HK Working Day 147       162,149       NA       NA         48       Grouting Works (30 meter/day)       8 days       24 Mar '22       1AP '22       HK Working Day 147       162,149       NA       NA         49       Pipe Laying bends and thrust block construction       30 days       2 Apr '22 <td>1</td> <td></td> <td>293 days</td> <td>15 Jul '21 11 Jul '22 HK Working Day</td> <td></td> <td>0%</td> <td>NA N</td>	1		293 days	15 Jul '21 11 Jul '22 HK Working Day		0%	NA N
Jacking DN1600 Precast Concrete Sleeve Pipe (Pit A 54 days)       12 Aug '21       16 Oct '21       McWrking Day 142,156       N4       NA         Remove setup including thrust wall at Pit A       6 days       18 Oct '21       23 Oct '21       HK Working Day 143       MA       NA         Setup for Pipe Laying inside jacking pipe (2dm)       120 days       18 Oct '21       23 Oct '21       HK Working Day 143       MA       NA         DN1200 MSP Ipe Laying inside jacking pipe (2dm)       120 days       25 Oct '21       19 Mar '22       14 K Working Day 143       146       0%       NA       NA         DN1200 MSP Ipe Laying inside jacking pipe (2dm)       120 days       25 Oct '21       19 Mar '22       14 K Working Day 143       146       0%       NA       NA         Pormwork & Setup for Grouting the gap between       3 days       21 Mar '22       14 K Working Day 146       148       0%       NA       NA         Pipe Laying bends and thrust block construction       30 days       2 Apr '22       13 Mar '22       14K wrking Day 142       151       0%       NA       NA         Expected CE No. XX - Special Type of Chamber for oldays       11 Aug '21       1Ale '21       151       0%       NA       NA         Mar '22       142       151       0%       NA       NA<			24 days	15 Jul '21 11 Aug '21 HK Working Day 156	143,150	0%	NA N
A       Remove setup including thrust wall at Pit A       6 days       18 0ct '21       23 0ct '21       HK Working Day 143       0%       NA       NA         5       Setup for Pipe Laying Inside jacking pits       6 days       18 0ct '21       23 0ct '21       HK Working Day 143       146       0%       NA       NA         6       DN1200 MS Pipe Laying Inside jacking pite [240m]       120 days       25 0ct '21       HK Working Day 145       147       0%       NA       NA         7       Formwork & Setup for Grouting the gap between pipe Laying Inside jacking pite (240m)       120 days       23 Mar' '22       13 Mar' '22       14K Working Day 145       148       0%       NA       NA         8       Grouting Works (30 meter/day)       8 days       24 Mar' '22       13 Mar' '22       14K Working Day 143       162,149       NA       NA         90       Grouting Works (30 meter/day)       8 days       24 Mar' '22       13 Mar' '22       151       0%       NA	3	Jacking DN1600 Precast Concrete Sleeve Pipe (Pit			144,145	0%	NA M
Remove serup introduing introx walar (r, K)       Guays       Root 11       Soc 11       Root 12       Soc 12       Root 12	4		6 dava	18 Oct 121 22 Oct 121 UK Working Day 142		0%	NA
Beter for the Laring inside jacking pipe (240m)       Stary       Stary <td< td=""><td></td><td></td><td></td><td></td><td>146</td><td></td><td></td></td<>					146		
Image: Second	45						
Image: Serve price and Serve pr	46		i) 120 days	25 Uct 21 19 Mar 22 HK Working Day 145			
All outling works (of interfuely)       O days       C Apr '22       13 May '22       HK Working Day 148       151       0%       NA       NA         49       Pipe Laying bends and thrust block construction       30 days       2 Apr '22       13 May '22       HK Working Day 148       151       0%       NA       NA         50       Expected CE No. XX - Special Type of Chamber for 0 days       11 Aug '21       Calendar Day       142       151       0%       NA       NA	47		3 days	21 Mar '22 23 Mar '22 HK Working Day 146	148	0%	NA I
49       Pipe Laying bends and thrust block construction       30 days       2 Apr '22       13 May '22       HK Working Day 148       151       0%       NA       NA         50       Expected CE No. XX - Special Type of Chamber for 0 days       11 Aug '21       11 Aug '21       Calendar Day       142       151       0%       NA       NA       NA       11/8	48	Grouting Works (30 meter/dav)	8 days	24 Mar '22 1 Apr '22 HK Working Day 147	162,149	0%	NA
50 Expected CE No. XX - Special Type of Chamber for 0 days 11 Aug '21 11 Aug '21 Calendar Day 142 151 0% NA NA interface between Trencless Works and Open Cut	149	Pipe Laying bends and thrust block construction				0%	NA
	150	Expected CE No. XX - Special Type of Chamber fo		11 Aug '21 11 Aug '21 Calendar Day 142	151	0%	NA
			t				
orking Programme No. 11 Tak Milestore I Institue Milestore Manual Tak Manual Summary Roller Startsonh Extend Tak Deadine Critical Split		gramme No. 11 Task	Milestone	<ul> <li>Project Summary</li> </ul>	Inactive Milestone		Manual Task Duration-only

|   | Duration   | Start  | Finish   | Task Calendar Predecessors  | Successors &  | Complete Act  | ual Start   
   
   | ctual Finish  |  |  
   |   | : Mainlaying in Tsee  
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   | -   | 2018<br>2017 Qtr 1, 20<br>yov Dec Jan Feb  | 8 Qtr 2, 2018<br>Mar Arr May Jun   
   | Qtr 3, 2018 Qtr<br>Jul Aug Sen Or   | 2019<br>4, 2018 Qr 1, 2019<br>t Nov Dec Jun Feb   
   | Qtr 2, 2019<br>Mar Apr May Jun  | Qtr 3, 2019 Qtr 4, 201<br>Jul Aug Sep Oct Nov   
  | 2020<br>Qtr 1, 2020<br>Dec Jan Feb Mar  | Qtr 2, 2020 Qtr 3<br>Apr May Jun Jul  | , 2020 Qtr 4, 2<br>Aug Sep Oct N | 2021<br>2020 Qtr 1, 1<br>lov Dec Jan F | 2021 Qtr 2, 2<br>eb Mar Apr Ma | 021 Qur 3, 1<br>ay Jun Jul 7  
  | 2021 Qur<br>Aug Sep Oct | , 2021<br>Nov |
| Construction of Thrust Block between Trenchless<br>Works and Open Cut Work near Jacking Pit A   | 30 days  | 14 May '22   | 18 Jun '22   | HK Working Day 149,150  | 152,131   | 0%  | NA  
   
   | NA  | 100  | ,  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Remove ELS and Reinstatement of Road works and planter  | 18 days  | 20 Jun '22   | 11 Jul '22   | HK Working Day 151  |   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| TBM Pipe Jacking (Pit B to Pit C)   |  |  |  |   |   | 0%  | NA  
   
   | NA  |  |  
   |   |   
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  |   |   |                                  | ľ                                      |                                | | |
  |                         |               |
|   |  |  |  |   |   | 0%  |   
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                | | |
  |                         |               |
| Pit B to Pit C (L=326m; 3.5m/day)   |  |  |  |   |   |   |   
   
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  |                         |               |
|   | *  |  |  |   |   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Formwork & Setup for Grouting the gap between pipe and Sleeve   | 3 days   | 23 Mar '22   | 25 Mar '22   | HK Working Day 158  | 160   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Grouting Works (30 meter/day)   | 11 days  | 26 Mar '22   | 8 Apr '22  | HK Working Day 159  | 162,191   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Expected CE No. XX - Special Type of Chamber for<br>interface between Trencless Works and Open Cut<br>Work near Jacking/Receiving Pit B | 0 days   | 10 Mar '21   | 10 Mar '21   | Calendar Day 154  | 162   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  | ♦ 10/3                         |   
  |                         |               |
| Construction of Special Chamber at Jacking /<br>Receiving Pit B   | 60 days  | 9 Apr '22  | 24 Jun '22   | HK Working Day 148,160,161,18   | 5 163   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Remove ELS including extracting sheet piles at Pit B<br>& Reinstatement of Road works and planter                                       | 3 18 days  | 25 Jun '22   | 16 Jul '22   | HK Working Day 162  |   | 0%  | NA  
   
   | NA  |  |  
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|   | and the second s   | a second and the   | and the second se  |   | 1.65  |   |   
   
   | NA  |  |  |   
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|   |  |  |  |   | 166   |   |   
   
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   |   | <i>₹ 211</i> 9  
  |   |   |                                  |  |                                | | |
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|   |  |  |  |   | 168   |   |   
   
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  |                         |               |
| Obtain MTR's approval on the alignment and  |  |  |  |   |   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  | <b>•</b> 31/1                          | 12                             |   
  |                         |               |
|   | ; 114 days   | 12 Aug '20   | 3 Dec '20  | Calendar Day  | 172,171   | 27% 1   | 12 Aug '20  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
|   | 30 days  | 4 Dec '20  | 11 Jan '21   | HK Working Day 170  | 179   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Inspection Pits & GI Works for Jacking Pit D  | 30 days  | 4 Dec '20  | 11 Jan '21   | HK Working Day 170  | 179,173   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Design of Jacking D   | 30 days  |  |  |   | 174   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                | | |
  |                         |               |
|   |  |  |  |   | 182   |   |   
   
   |   |  |  
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  |   |   | * 2                              | 21/10                                  |                                |   
  |                         |               |
| Submission for CE77   | 60 days  | 21 Oct '20   | 19 Dec '20   | Calendar Day 175  | 177   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Approval of CE77  | 30 days  |  |  |   | 179   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| TPRP Appoval for Tree at Slope Feature<br>12SW-A/FR102  | 0 days   | 18 Jan '21   | 18 Jan '21   | Calendar Day  | 195   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  | 1                                      | 8/1                            |   
  |                         |               |
|   |  | 18 Jan '21   | 18 Jan '21   | Calendar Day 172,171,177  | 180   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  | • 1                                    | 18/1                           |   
  |                         |               |
| Subletting works for CE No. XX  | 60 days  | 19 Jan '21   | 19 Mar '21   | Calendar Day 179  | 196,210,2:  | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| TBM Pipe Jacking (Pit D to Pit C)   | 321 days   | 23 Aug '21   | 21 Sep '22   | HK Working Day  |   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                | | |
|---|---|---|---|---|---|---|
|   | 24 days<br>C) 102 days   |  |  |   | 183,189,1!<br>184   | 0%<br>0%  |   
   
   |   |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| (CH.A19+26 to CH.A22+80) in Soil (354m;<br>3.5m/day)<br>Remove setup Including Thrust Wall at Pit D                                     | 6 days   | 24 Jan '22   | 29 Jan '22   | HK Working Day 183  | 185   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Setup for Pipe Laying inside jacking Pit D  | 6 days   | 31 Jan '22   | 9 Feb '22  | HK Working Day 184  | 186   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| DN1200 MS Pipe Laying inside jacking pipe (354m<br>(say 2 days per 8m)(only Internal Coating)   | i) 90 days   | 10 Feb '22   | 1 Jun '22  | HK Working Day 185  | 187   | 0%  | NA  
   
   | NA  |  |  
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   |   |   
  |   |   |                                  |  |                                |   
  |                         |               |
| Formwork & Setup for Grouting the gap between<br>pipe and Sleeve  | 3 days   | 2 Jun '22  | 6 Jun '22  | HK Working Day 186  | 188   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                | | |
  |                         |               |
| Grouting Works (30 meter/day)   | 12 days  |  |  |   | 191,192   | 0%  |   
   
   |   |  |  
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  |   |   |                                  |  |                                |   
  |                         |               |
| Issue CE No. XX - Special Type of Chamber for<br>interface between Trencless Works and Open Cut   | 0 days<br>t  | 18 Sep '21   | 18 Sep '21   | Calendar Day 182  | 162,191   | 0%  | NA  
   
   | NA  |  |  
   |   |   
   |   |   
  |   |   |                                  |  |                                | | | | | | | | | | | | | | | | | | |
  | ◆ 18                    | y             |
|   | Works and Open Cut Work near Jacking Pit A<br>Remove ELS and Reinstatement of Road works and<br>planter<br>TBM Pipe Jacking (Pit B to Pit C)<br>Establishment at Pit B<br>Jacking DN1600 Precast Concrete Sleeve Pipe From<br>Pit B to Pit C (L=326m; 3.5m/day)<br>Remove setup Including Thrust Wall at Pit B<br>Setup for Pipe Laying inside jacking pipe (326m)<br>(2 days per 4m](Only Internal Coating)<br>Formwork & Setup for Grouting the gap between<br>pipe and Sleeve<br>Grouting Works (30 meter/day)<br>Expected CE No. XX - Special Type of Chamber for<br>Interface between Trencless Works and Open Cut<br>Work near Jacking/Receiving Pit B<br>Construction of Special Chamber at Jacking /<br>Receiving Pit B<br>Remove ELS including extracting sheet piles at Pit I<br>& Reinstatement of Road works and planter<br>Form Yer Ro Road and Lohas Park Road<br>Issue CE No. 24 - Ground Investigation for Working Pi<br>E, F and Trenchless Works across MT Tunnel<br>Tender & Subletting<br>Mobilization and Establishment of GI equipment<br>Ground Investigation GI No. 3<br>Obtain MTR's approval on the alignment and<br>construction method about MTR's tunnels<br>TTA submission and Approval , Suspension of Parking<br>Meters and TTA Implement for Jacking Pit D<br>Design of Jacking D<br>Jacking Pit D at Car Park<br>Sue CE Bo. 77 - Design of Water Main Structure and<br>Modification Works to the Alfrected Geotechnical<br>Features in Wan Po Road and Lohas Park Road<br>Submission for CE77<br>TPRP Appoval for Tree at Slope Feature<br>12SW-A/FR102<br>Expected CE No. XX - Relocation of Working pits for<br>Trenchless Works in Wan Po Road juction with Loha<br>Park Road<br>Subletting works for CE No. XX<br>TBM Pipe Jacking (Pit D to Pit C)<br>Establishment at Pit D<br>DN1600 Precast Concrete Sleeve Pipe (Pit D - Pit O<br>(EH.A139+26 to CH.A22+80) in Soil (354m;<br>3.5m/day)<br>Remove setup Including Thrust Wall at Pit D<br>Setup for Pipe Laying inside jacking Pit D<br>DN1200 MS Pip | Remove ELS and Reinstatement of Road works and 18 daysIM Pipe Jaxking (Pit B to Pit C)422 daysEstabilishment at Pit B24 daysArking DN1600 Precest Concrete Sieve Pipe Form4 daysPit B Drit C (1-326m; 3.5m/day)6 daysSetup for Pipe Laying inside jacking pipe (326m)200 daysDN1200 MS Pipe Laying inside jacking pipe (326m)200 dayspipe and Sieve3 daysFormwork & Setup for Grouting the gap between3 daysGrouting Works (30 meter/day)10 daysInterface Detwoen Trencless Works and Open CUWork near Jacking/Receiving Pit BConstruction of Special Chamber at Jacking / Receiving Pit B6 daysReceiving Pit B7 daysReceiving Pit B7 daysStare CE No. 24 - Ground Investigation for Work's 100 days7 daysGround Investigation Gf No. 330 daysDebilization and Establishment of Gi equipment7 daysGround Investigation Gf No. 330 daysInspection Pits for Lohas Park Road Footpath In<br>romatal of Yaduct Utilities Trough30 daysInspection Pits Groutag Near Main Structure at<br>Modification Works to taking Pit D30 daysSubmission for CE7760 daysApproval of CE7760 daysSuberting Works 10 Marer Main Structure at<br>Modification Works to the Affected Geotechnical<br>Parking Pit D at car Park60 daysSuberting Works IG Near All60 daysFrenct CE CE No. XX - Relocation of Working pits for<br>Parking Pit D at car Park60 daysSuberting Works IG NE OP NE CU10 days | Construction of Thrust Block between Trenchess30 days14 May '22Works and Open Cut Work near Jacking PIR A20 Jun '22Planter20 Jun '22TBM Pite Jacking (PIt B to PIt C)422 days8 Feb '21Jacking DN1600 Precast Concrete Sleeve Pipe From '94 days11 Mar '21Pitt B to Pit C (L=326m; 3.5m/day)6 days3 Jul '21Setup for Pipe Laying inside jacking pits B6 days3 Jul '21Setup for Pipe Laying inside jacking pits B6 days23 Jul '21C Jacking DN1200 MSP (ei Laying inside jacking pits B0 days21 Jul '21D11200 MSP (ei Laying inside jacking pits B0 days23 Mar '22promove & Satup for Grouting the gap between3 days26 Mar '22Paperted CE No. XX - Special Type of Chamber for<br>Uwork near Landing Recoving TH B0 days27 Sep '19Receiving Pit B60 days27 Sep '1927 Sep '19Receiving Pit B71 days27 Sep '1927 Sep '19Receiving Pit B71 days27 Sep '1927 Sep '19Receiving Pit B71 days27 Sep '1921 Sep '19Construction of Special Chamber at Jacking /<br>Receiving Pit B71 days27 Sep '19Receiving Pit B71 days27 Sep '1921 Sep '19Mobilization and Establishment of G equipment7 days27 Sep '19Construction method about MTR's tunnels7 days21 Sep '20Pit Pit D th Crohas Park Road Footpath In<br>Inspection Pits for Lohas Park Road Footpath In<br>Inspection Pits for Lohas Park Road Footpath In<br>Inspection Pits for Lohas Park | Construction of Thrust Block between Trenchiess30 days14 May'2218 Jun '22Remove ELS and Reinstatement of Road works and Ja days20 Jun '2211 Jul '22Jacking DNIGOD Precast Concrete Sieve Pipe Form 94 days8 Feb '2110 Mar' 21Jacking DNIGOD Precast Concrete Sieve Pipe Form 94 days11 Mar' 217 Jul '21Pitt to PP (CL 2567). 35m/d/2016 days8 Jul '2114 Jul '21Setup for Pipe Laying Inside jacking Pit B6 days8 Jul '2121 Jul '21DNIZOD MS Fipe Laying Inside jacking Pit B6 days23 Mar' '2225 Mar' '22Jacking Olyn Iternal Coating11 days26 Mar' '228 Apr' '22Epected CL Fox. X-Special Type of Chamber for0 days20 Apr' '2224 Jun '22Deceting Chox. X-Special Type of Chamber for0 days2 Jul '2112 Jul '21External Sieve11 days25 Jun '2216 Jul '22External Sieve Tomokas and Open CL0 days2 Jun '2224 Jun '22Deceting Chox. X-Special Type of Chamber for Odays10 Mar' '2110 Jul '22External Sieve Tomokas and Open CL0 days2 Jun '2224 Jun '22Data Component Chox Aves across MT Tunel7 days7 Feb '202 Fer '20Dise CE No. 24-Coround Investigation GF Working0 days3 Dec '203 Dec '20Mobilization and Establishment of Gi equipment7 days7 Feb '202 Apr' '20Dishin TYS Spore In the alignment and 0 days3 days2 Feb '2113 Jun '21Inder Kashing D30 days4 Dec '2011 Jun ' | Contruction of Thrust Block between Terrorities<br>Boundary and Department<br>Boundary and Depar | Control of an of a book way | Control         Control <t< td=""><td>Control Control Control</td><td>Control in the last barener model is all only and the set of the</td><td>Descent with and thick biotherm Previous         Descent and the distribution of the distredistre distredistribution of the distribution of the distributi</td><td>Index         Index         <th< td=""><td>Data         Jul         Data         <thd< td=""><td>Late         Jud         Fail         Jud 200         Fail         Judge         Ju</td><td>Data         Data         <thdata< th="">         Data         Data         <thd< td=""><td>base         base         <th< td=""><td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td></td><td></td><td></td><td>Last         Last         <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<></td></th<></td></thd<></thdata<></td></thd<></td></th<></td></t<> | Control | Control in the last barener model is all only and the set of the | Descent with and thick biotherm Previous         Descent and the distribution of the distredistre distredistribution of the distribution of the distributi | Index         Index <th< td=""><td>Data         Jul         Data         <thd< td=""><td>Late         Jud         Fail         Jud 200         Fail         Judge         Ju</td><td>Data         Data         <thdata< th="">         Data         Data         <thd< td=""><td>base         base         <th< td=""><td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td></td><td></td><td></td><td>Last         Last         <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<></td></th<></td></thd<></thdata<></td></thd<></td></th<> | Data         Jul         Data         Data <thd< td=""><td>Late         Jud         Fail         Jud 200         Fail         Judge         Ju</td><td>Data         Data         <thdata< th="">         Data         Data         <thd< td=""><td>base         base         <th< td=""><td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td></td><td></td><td></td><td>Last         Last         <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<></td></th<></td></thd<></thdata<></td></thd<> | Late         Jud         Fail         Jud 200         Fail         Judge         Ju | Data         Data <thdata< th="">         Data         Data         <thd< td=""><td>base         base         <th< td=""><td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td></td><td></td><td></td><td>Last         Last         <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<></td></th<></td></thd<></thdata<> | base         base <th< td=""><td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td></td><td></td><td></td><td>Last         Last         <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<></td></th<> | Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<> |                                  |  |                                | Last         Last <thlast< th="">         Last         Last         <thl< td=""><td></td><td></td></thl<></thlast<> |                         |               |

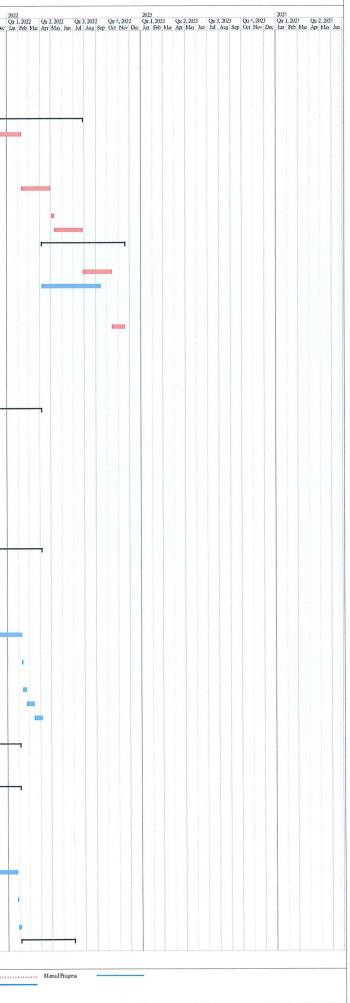


k Name		Duration	Start F	inish	Task Calendar Predecessors	Successors %	Complete Actual	Start Actual	Finish	2018			2019			2020				2021		
									Nov De	Qr 1, 2018 Qr 2 Jan Feb Mar Apr	, 2018 Qu 3, 201 May Jun Jul Aug	8 Qtr 4, 2018 Sep Oct Nov E	Qr 1, 2019 Dec Jan Feb Mar	Qr 2, 2019 Qr 3, 2 Apr May Jun Jul Av	019 Qtr 4, 2019 ug Sep Oct Nov De	Qtr 1, 2020 Jan Feb Mar	Qtr 2, 2020 C Apr May Jun	ul Aug Sep Oc	tr 4, 2020 kt Nov Dec	Qtr 1, 2021 C Jan Feb Mar /	Qr 2, 2021 Qr Apr May Jun J	tr 3 ul
	Issue CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Receiving Pit D	D days	18 Sep '21 1	18 Sep '21	Calendar Day 182	162,192	0%	NA	NA													
	Construction of Special Chamber inside Receiving Pit C	50 days	21 Jun '22 3	30 Aug '22	HK Working Day 188,189,160	193	0%	NA	NA													
	Construction of Special Chamber inside Receiving Pit D	60 days	21 Jun '22 3	30 Aug '22	HK Working Day 188,190		0%	NA	NA													
	Remove ELS including extracting sheet piles at Pit C & Reinstatement of Road works and planter	18 days	31 Aug '22 2	21 Sep '22	HK Working Day 191		0%	NA	NA													
	Handshield Crossing Wan Po Road (CH. FA0+15 to CH. FA0+50)	286 days	18 Jan '21 5	5 Jan '22	HK Working Day		0%	NA	NA											<b>F</b>		-
	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	30 days	18 Jan '21 💈	24 Feb '21	HK Working Day 178		0%	NA	NA													
	Strengthen Works at Feature 12SW-A/R27 & R28	45 days	20 Mar '21	17 May '21	HK Working Day 180	197	0%	NA	NA											👘		
		14 days	18 May '21	3 Jun '21	HK Working Day 196	198	0%	NA	NA													
	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.4m/day)				HK Working Day 197	199	0%	NA	NA													4
	Remove estabishment	6 days	14 Sep '21	20 Sep '21	HK Working Day 198	200	0%	NA	NA													
	Setup for Pipe Laying inside jacking	6 days	21 Sep '21	28 Sep '21	HK Working Day 199	201	0%	NA	NA													
	DN900 MS Pipe Laying inside jacking pipe (35m)				HK Working Day 200	202	0%	NA	NA													
	(say 3 days per 8m)																					
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	19 Oct '21	21 Oct '21	HK Working Day 201	203	0%	NA	NA													
	Grouting Works (30 meter/day)	2 days	22 Oct '21	23 Oct '21	HK Working Day 202	204	0%	NA	NA													
		60 days			HK Working Day 203	206	0%	NA	NA													
	Vertical Pipes, Exposed Pipes & Burned Pipes above		7 Nov '17	7 Nov '17	None	- 2	0%	NA	NAI													
	MTR Tunnels (CH.FA0+50 to CH.FA0+85)	30 days	6 Jan '22	12 Feb '22	HK Working Day 204	207	0%	NA	NA													
		30 days			HK Working Day 206	208	0%	NA	NA													
		30 days			HK Working Day 222,207		0%	NA	NA													
	Hand Shield Pipe Jacking crossing Lohas Park Road		1		HK Working Day	a presenta a	0%	NA	NA											-		+
		72 days			HK Working Day 180		0%	NA	NA											-		
					HK Working Day 180	213	0%	NA	NA													
		72 days 72 days			HK Working Day 180		0%	NA	NA			-										
			20 War 21 21 Jun '21		HK Working Day 211	214	0%	NA	NA													
	Establishment at Pit F	14 days 100 days			HK Working Day 211 HK Working Day 213	214	0%	NA	NA											Converties of		
	Mild Steel Sleeve Pipe (Pit F - Pit E) in Soil Mix (40m; 0.4m/day)							NA														
	Mild Steel Sleeve Pipe (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	50 days			HK Working Day 214	216	0%		NA													
		6 days			HK Working Day 215	217	0%	NA	NA													
	Setup for Pipe Laying inside jacking Pit F	6 days			HK Working Day 216	218	0%	NA	NA							5						
	DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	20 Jan '22	26 Feb '22	HK Working Day 217	219	0%	NA	NA													
	Modify Setup for Pipe Laying inside jacking Pit F	6 days	28 Feb '22	5 Mar '22	HK Working Day 218	220	0%	NA	NA													
	DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)	15 days	7 Mar '22	23 Mar '22	HK Working Day 219	221	0%	NA	NA													
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Mar '22	26 Mar '22	HK Working Day 220	222	0%	NA	NA													
	Grouting Works (30 meter/day)	3 days	28 Mar '22	30 Mar '22	HK Working Day 221	208,224	0%	NA	NA													
	Vertical Pipes, Exposed Pipes & Burned Pipes above	335 days	20 Mar '21	11 May '22	None	and the second	0%	NA	NA													-
	MTR Tunnels (CH.FA1+50 to CH.FA2+17)																					
	Vertical pipes with Concrete Surround	30 days	31 Mar '22	11 May '22	HK Working Day 222		0%	NA	NA													
	Exposed pipes with concrete surround	60 days	5 Jun '21	16 Aug '21	HK Working Day 226		0%	NA	NA												-	-
	Open cut pipe laying with concrete surround (CH.FA1+64 to CH.FA2+17)	60 days	20 Mar '21	4 Jun '21	HK Working Day 180	225	0%	NA	NA													
N	Miscellaneous	594 days	25 Jan '18	10 Sep '19	Calendar Day		80% 25	5 Jan '18	NA	r												
	Trial Pit Excavation for Pit 1 to Pit 20	462 days	20 Feb '18	10 Sep '19	HK Working Day 48		100% 20	) Feb '18 10	) Sep '19													
	Liaison with MTRC for works inside MTR Railway	300 days	25 Jan '18	20 Nov '18	Calendar Day		50% 25	5 Jan '18	NA													
	Protection Zone																					
ТКО	en Cut Excavation, Pipe Laying and Reinstatement at O Landfill Stage 1 and TKO South Waterfront omenade	1283 days	7 Nov '17	8 Mar '22	HK Working Day	640	54% 7	Nov '17	NA													-
I	Issue CE No. 36 - Realignment of Watermain along the Bituminous Road adjacent to Lohas Park Road	0 days	22 May '20	22 May '20	) Calendar Day		100% 22	May '20 22	May '20								♦ 22/5					
	Issue CE No. 34 - Realignment of Watermain along TKO Stage I Landfill	0 days	5 Nov '19	5 Nov '19	Calendar Day		100% 5	5 Nov '19 5	5 Nov '19						♦ 5/11							
	Open Cut from CH.FB5+34 to Pit F)	45 days	7 Nov '17	30 Dec '17	HK Working Day		0%	NA	NA 🚃													
										1_1_1	i i de la composición	. E I		البينية والمتعادية		dimensioned and	dan in dan b			In a second second		

, 2021 Aug Sep	Qtr 4, 2021 Oct Nov Dec 18/9	2022 Qr 1, 2022 Jan Feb Mar	Qtr 2, 2022 Art May Jun	Qr 3, 2022 Jul   Aug   Sep	Qtr 4, 2022 Oct Nov Dec	2023 Qir 1, 2023 Jan Feb Mar	Qtr 2, 2023 Apr May Jun	Qtr 3, 2023 Jul Aug Se	Qtr 4, 2023 p Oct Nov Dec	2021 Qir I, 2021 Jan Feb Mar	Qtr 2, 2024 Apr May Jun
		1									
8											
	1										
Split s			Manuel Progres	8		-					

ill Stage I Area A (CH, FI +00 - 0+38 OC with DN9 sh out Pump Pit +38 - 0+70 OC +70 - 1+02 OC	and the second se	Duration	Start Finish Task Calendar Predecessor	s Successors	% Complete Actual Start	Actual Finish
+00 - 0+38 OC with DN9 sh out Pump Pit +38 - 0+70 OC	and the second se	257 days				
		A DESCRIPTION OF THE OWNER OF THE	15 May '20         23 Mar '21         HK Working Day           14 Dec '20         17 Mar '21         HK Working Day 236	639	75% 15 May '20 0% NA	
+70 - 1+02 OC		30 days	9 Nov '20 12 Dec '20 HK Working Day	235	0% 9 Nov '20	NA
		30 days	19 Oct '20 23 Nov '20 HK Working Day		90% 19 Oct '20	NA
+02 - 1+34 OC		30 days	12 Oct '20 16 Nov '20 HK Working Day		90% 12 Oct '20	NA
+34 - 1+66 OC		30 days	5 Sep '20 12 Oct '20 HK Working Day		95% 5 Sep '20	
+66 - 2+06 OC		128 days	15 May '20 15 Oct '20 HK Working Day		100% 15 May '20 100% 12 Jun '20	
+06 - 2+38 OC		104 days	12 Jun '20 15 Oct '20 HK Working Day		100% 12 Jul 20	
+38 - 2+70 OC		83 days	9 Jul '20 15 Oct '20 HK Working Day		95% 27 Jul '20	NA
2+70 - 3+02 OC		30 days	27 Jul '20 29 Aug '20 HK Working Day			NA
1+02 - 3+34 OC		30 days	3 Aug '20 5 Sep '20 HK Working Day		95% 3 Aug '20	
3+34 - 3+66 OC		30 days	13 Aug '20 16 Sep '20 HK Working Day		95% 13 Aug '20 95% 24 Aug '20	
3+66 - 3+98 OC		30 days	24 Aug '20 26 Sep '20 HK Working Day		100% 10 Sep '20	
3+98 - 4+30 OC		53 days	10 Sep '20 13 Nov '20 HK Working Day			
				251		
						NA
ut				253	400405 400 03	
	ade (CH. FC0+00 - 4+87		The second s		A CONTRACTOR OF THE OWNER	
						NA
0+33 - 0+65 OC						
0+65 - 0+95 OC						
0+95 - 1+27 OC						
1+59 - 1+91 OC				760		
1+91 - 2+23 OC						
2+23 - 2+55 OC						
2+55 - 2+87 OC						
2+87 - 3+19 OC						NA
3+19 - 3+51 OC						
3+51 - 3+83 OC						
3+83 - 4+15 OC		30 days				
4+15 - 4+47 OC		30 days	27 Mar '21 6 May '21 HK Working Day 265			
4+47 - 4+87 C		30 days	7 May '21 11 Jun '21 HK Working Day 266	254		
th Waterfront Promena	ade (CH. FC4+87 - 8+7	1) 401 days	24 Mar '20 Z Aug '21 HK Working Day		51% 24 Mar 20	NA
						22.1. 120
: 4+87 - 5+19 OC with DM	DN600 IT					
: 5+19 - 5+51 OC						
5+51 - 5+83 OC		32 days				
5+83 - 6+15 OC						
C 6+15 - 6+47 OC		27 days				
C 6+47 - 6+79 OC		38 days				
C 6+79 - 7+11 OC		30 days	19 Dec '20 26 Jan '21 HK Working Day 274	276		
C 7+11 - 7+43 OC		30 days	27 Jan '21 5 Mar '21 HK Working Day 275	277		
C 7+43 - 7+75 OC		30 days	6 Mar '21 14 Apr '21 HK Working Day 276	278		
C 7+75 - 8+07 OC		30 days	15 Apr '21 21 May '21 HK Working Day 277	279		
C 8+07 - 8+39 OC		30 days	22 May '21 26 Jun '21 HK Working Day 278	280		
C 8+39 - 8+71 OC		30 days	28 Jun '21 2 Aug '21 HK Working Day 279			
dfill Stage I Area B (CH.	H. FC 8+71 - 13+26)	565 days	14 Apr '20 8 Mar '22 HK Working Day			
C 8+71 - 9+55 OC		90 days	17 Nov '21 8 Mar '22 HK Working Day 283			
C 9+55 - 11+90 OC with I	h DN150 DAV	300 days	12 Nov '20 16 Nov '21 HK Working Day 284	282		
C 11+90 - 12+06 OC		30 days	7 Oct '20 11 Nov '20 HK Working Day	283	80% 7 Oct '2	
C 12+06 - 12+30 OC		68 days	15 Jul '20 3 Oct '20 HK Working Day		95% 15 Jul '2	NA NA
C 12+30 - 12+62 OC with	th Monitoring Chamber	50 days	15 Jun '20 13 Aug '20 HK Working Day		95% 15 Jun '2	NA NA
C 12+62 - 13+02 OC		50 days	15 May '20 14 Jul '20 HK Working Day		95% 15 May '2	NA NA
C 13+02 - 13+26 OC		28 days	14 Apr '20 18 May '20 HK Working Day		95% 14 Apr '2	NA NA
	chless Works From Loi		20 Apr '20 18 Nov '22 HK Working Day	641	7% 20 Apr '2	NA NA
Po Yap Road Roundabo	bout				100% 17 1	17 June 120
E No. 65 - Landscaping Su i Road	Survey near Po Yap and	0 days	17 Jun '20 17 Jun '20 Calendar Day		100% 17 Jun '2	17 Jun '20
d CE No. XX - Realizon	ment of Water Mains ne	ar O days	30 Nov '20 30 Nov '20 Calendar Day	296	0% N	NA NA
d CE No. XX - Realignme oi Road	nem or water mains ne	a. o days	contra to contra continue our	200		
	Approval	200 dave	20 Apr '20 15 Dec '20 Calendar Dav	295	21% 20 Apr '2	D NA
				233		
paration, SLG meetings	s and obtain KA	ou days	TE MUE ZU TO OCT ZU Calellual Day		10/0 12 Hug 2	114
o. 11 Tak		Milestone	<ul> <li>Project Summary</li> </ul>			anual Task
H30 - 4+62 OI         H+62 - 4+86 OI         H+62 - 5+18 OI         Si+18 - 5+34 OI         HWALEFRONT         OHOO - 0+33 OI         OHOO - 0+33 OI         OHOO - 0+33 OI         OHOO - 0+33 OI         OHOS - 0+35 OI         OHOS - 0+35 OI         OHOS - 0+35 OI         OHOS - 1+27 OI         1+191 - 2+23 OI         2+25 - 2+87 OI         2+23 - 2+55 OI         2+37 - 3+19 OI         3+31 - 3+51 OI         3+33 - 4+15 OI         4+15 - 4+47 OI         4+41 - 4+87 OI         CHWATE-7+19 OI         C+4+15 - 5+447 OI         C+4+15 - 5+447 OI         C+4+15 - 5+447 OI         C+4+17 - 7+55 OI         C+7+5 - 8+07         C+4+10 - 7+43 OI         C+110 - 7+43 OI         C+110 - 7+43 OI         C+110 - 12+00         C+147 - 13+02         C+147 - 13+02         C+147 - 13+02         C+140 - 13+02         Per Vap Road OI         No. 65 C - 10+02 <t< td=""><td>C C With D C With D C C With D C</td><td>C     C       C</td></t<> <td>ActionAc</td> <td>pc     46 days     18 Sep 20     13 Nov 20     HK Working Day       pc     26 days     12 Oct 20     13 Nov 20     HK Working Day       pc     30 days     14 Nov 20     18 Doc 20     HK Working Day       pc     30 days     19 Doc 20     21 Mar 21     HK Working Day 250       pc     30 days     24 Mar 21     3 Mar 21     HK Working Day 257       pc     30 days     12 Jun 21     13 May 20     HK Working Day 267       pc     30 days     6 Apr 20     15 Jun 20     HK Working Day 267       pc     30 days     6 Apr 20     15 Jun 20     HK Working Day 267       pc     30 days     15 Mar 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 261       pc     21 days     10 Apr 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     20</td> <td>Act     46 days     16 Sep*20     13 Nov 20     NK Working Day     NK Working Day       CC     30 days     12 Oct 20     13 Nov 20     NK Working Day     Z3       CC     30 days     12 Oct 20     13 Nov 20     NK Working Day     Z3       CC     30 days     12 Dor 20     23 Mar 21     NK Working Day     Z3       CC     30 days     12 Jun 21     19 Jul 21     NK Working Day     Z3       CC     30 days     12 Jun 21     19 Jul 21     NK Working Day     Z3       CC     30 days     15 May 20     15 Mar 20     NK Working Day     Z3       CC     30 days     15 May 20     15 Mar 20     NK Working Day     Z4       CC     30 days     15 Jul 20     13 Mar 21     NK Working Day     Z4       CC     30 days     13 Jun 20     13 Jun 20     NK Working Day     Z4       CC     30 days     13 Jun 20     14 Kworking Day     Z4     Z4       CC     30 days     13 Jun 20     14 Kworking Day     Z4     Z4       CC     30 days     13 Jun 21     14 Kworking Day     Z4     Z4       CC     30 days     27 Mar 21     6 Mar 21     KWorking Day     Z4     Z4       CC     30 days</td> <td>Col         6 days         18 kpr 20         18 kv 20         1K Working Day         1005         12 Oct 20           Col         2 days         12 Nv 20         1K Working Day         1005         12 Oct 20           Col         3 days         14 Nv 20         2 Mv 20         1K Working Day         251         305         44 Nv 20           Col         30 days         24 Mar 21         3 Mar 22         3 Mar 21         1K Working Day         253         0.00         454           Col         30 days         24 Mar 21         3 Mar 22         1K Working Day         1.005         7 Are 20           Col         30 days         24 Mar 21         3 Mar 22         1K Working Day         1.005         7 Are 20           Col         30 days         6 Apr 120         1.005         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.005         1.5 Mar 20         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.5 Mar 20         1.6 Working Day         2.60         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.7 Mar 20         1.6 Working Day         2.61         1.005         1.7 Mar 20</td>	C C With D C With D C C With D C	C     C       C	ActionAc	pc     46 days     18 Sep 20     13 Nov 20     HK Working Day       pc     26 days     12 Oct 20     13 Nov 20     HK Working Day       pc     30 days     14 Nov 20     18 Doc 20     HK Working Day       pc     30 days     19 Doc 20     21 Mar 21     HK Working Day 250       pc     30 days     24 Mar 21     3 Mar 21     HK Working Day 257       pc     30 days     12 Jun 21     13 May 20     HK Working Day 267       pc     30 days     6 Apr 20     15 Jun 20     HK Working Day 267       pc     30 days     6 Apr 20     15 Jun 20     HK Working Day 267       pc     30 days     15 Mar 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 267       pc     21 days     15 Jun 20     HK Working Day 261       pc     21 days     10 Apr 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     17 Aug 20     HK Working Day 267       pc     30 days     20	Act     46 days     16 Sep*20     13 Nov 20     NK Working Day     NK Working Day       CC     30 days     12 Oct 20     13 Nov 20     NK Working Day     Z3       CC     30 days     12 Oct 20     13 Nov 20     NK Working Day     Z3       CC     30 days     12 Dor 20     23 Mar 21     NK Working Day     Z3       CC     30 days     12 Jun 21     19 Jul 21     NK Working Day     Z3       CC     30 days     12 Jun 21     19 Jul 21     NK Working Day     Z3       CC     30 days     15 May 20     15 Mar 20     NK Working Day     Z3       CC     30 days     15 May 20     15 Mar 20     NK Working Day     Z4       CC     30 days     15 Jul 20     13 Mar 21     NK Working Day     Z4       CC     30 days     13 Jun 20     13 Jun 20     NK Working Day     Z4       CC     30 days     13 Jun 20     14 Kworking Day     Z4     Z4       CC     30 days     13 Jun 20     14 Kworking Day     Z4     Z4       CC     30 days     13 Jun 21     14 Kworking Day     Z4     Z4       CC     30 days     27 Mar 21     6 Mar 21     KWorking Day     Z4     Z4       CC     30 days	Col         6 days         18 kpr 20         18 kv 20         1K Working Day         1005         12 Oct 20           Col         2 days         12 Nv 20         1K Working Day         1005         12 Oct 20           Col         3 days         14 Nv 20         2 Mv 20         1K Working Day         251         305         44 Nv 20           Col         30 days         24 Mar 21         3 Mar 22         3 Mar 21         1K Working Day         253         0.00         454           Col         30 days         24 Mar 21         3 Mar 22         1K Working Day         1.005         7 Are 20           Col         30 days         24 Mar 21         3 Mar 22         1K Working Day         1.005         7 Are 20           Col         30 days         6 Apr 120         1.005         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.005         1.5 Mar 20         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.5 Mar 20         1.6 Working Day         2.60         1.005         1.5 Mar 20           Col         3 days         1.5 Mar 20         1.7 Mar 20         1.6 Working Day         2.61         1.005         1.7 Mar 20

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Trees Survey, TVPP Submitsion & Approval.         128 days         2 Augr 20         NA         NA           Size Possession and Tree Removal Works         30 days         2 Nav         2 Fabre 20         NA         NA           Tender Process and Tree Removal Works         30 days         2 Nav         2 Fabre 20         NA         NA           Tender Process and Tree Removal Works         30 days         1 Mar 21         8 Apr 21         FK Working Day 231         279         0%         NA         NA           Tender Process and Tree Removal Works         30 days         1 Mar 21         8 Apr 21         FK Working Day 231         279         0%         NA         NA           Tender Process and Toole Removal Works         30 days         1 Mar 21         8 Apr 21         FK Working Day 231         279.00         NA         NA           Open Trends Creating Progeties and Advanced Works         30 days         9 Apr 21         2 Fabre 22         FK Working Day 201         70         FK         NA         NA           Disposed Stape Constructions of Concretes         2 Sodays         9 Apr 21         2 Fabre 22         RW Working Day 201         70         NA         NA           App top cositing of alphatic polymethane on the costapolic Work         6 days         3 Mar 22         1 Mar 22	Pires         Dial         Dial <t< td=""><td>Image: Problem in the proble</td></t<>	Image: Problem in the proble
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Trees Survey:         TYRP 3 bubinistion 6 Approval.         128 days         2 6Augr 20         Sin 2 6 Augr 20         And         And           Sine Process and Tree Removal Works         30 days         2 hav 21         5 Fe 17         KW working Day 254,222         0%         NA         NA           Tender Process and Tender Award for CE No. xx         30 days         30 Nov 20         27 Fe 12         Calendar Day         297         0%         NA         NA           Tender Process and Tender Award for CE No. xx         30 days         10 fe days         1 / Augr 201         297         0%         NA         NA           Open Trench Grossing Bang Laid Awards         100 days         9 Apr 21         7 Augr 201         100 days         9 Apr 21         7 Augr 201         100 days         10 HW Working Day         01         MA         MA           Depand Trench Grossing Bang Laid Awards         100 days         9 Apr 21         7 Augr 201         10 W Working Day 207         0.05         NA         NA           Excavation in Slope Teor.         Contracted Munching         9 Apr 22         9 Apr 22         1 W Working Day 201         0.03         0.%         NA         NA           Apply top conting of alightatic polymethane ontime         6 days         1 Mar 22         1 M Working Day 303	All with with with with with with with with	Number
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Trees Survey:         TRPS Submission & Approval.         128 days         26 Aug '20         31 De '20         Cale Mad To '20         Set on the Mad And And Set OC (10, De 'a le Mad And	Number of the state o	Number of the start in the start i
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Trees Survey: TPRP Submission & Approval.         128 days         26 Aug '20         13 Dec '20         Calendar Day         295         86 Z Aug '20         NA         NA           Site Possession and Tree Removal Works         30 days         21a '21         5 Feb '22         H Working Day 294,292         0%         NA         NA           Tender Process and Tender Award for CE No XX         90 days         30 days         1 Mar '21         8 Apr '21         H Working Day 294,292         0%         NA         NA           Open Tender Award for CE No XX         90 days         30 mar '21         8 Apr '21         7 HW Working Day 295         293,00         0%         NA         NA           Open Tender Kward for CE Noshing Mang Lei Alaxes of Mar Anales and Ase son CLIED Ne Apr '21         7 Aug '21         H Working Day 295         293,00         0%         NA         NA           Open Tender Kward for CHEDDNB2         100 days         9 Apr '21         7 Aug '21         H Working Day 297         0%         NA         NA           Support Tender (HEDDDNB2'Lo FDD2'SS)         9 Apr '21         9 Apr '21 <td>Image: bit image: bit im</td> <td>Image: bit image: bit im</td>	Image: bit im	Image: bit im
Trees         Survey: TPRP Submission & Approval.         128 days         6 Aug 20         NA         NA         NA           Site Possession and Tree Removal Works         30 days         2 Jan '21         5 Feb '21         HK Working Day 294,292         NA         NA           Tender Process and Tender Award for CE Noxx         90 days         30 Nov '20         2 F Feb '21         Calendar Day 291         297         0%         NA         NA           Temporary Design and Advanced Works         30 days         1 Mar '21         8 Apr '21         KW orking Day 295         299,301         0%         NA         NA           Open Tremb Crossing Pung Lei Azemue         100 days         9 Apr '21         7 Aug '21         HK Working Day 297         0%         NA         NA           CHFC13+26 (CH,FD0+00-CH,FD0+82)         100 days         9 Apr '21         7 Aug '21         HK Working Day 297         0%         NA         NA           Excavation In Slope Toe; Construction of Concrete Support from CH, FD0+821 to FD0-82, Mar	All bits bits bits bits bits bits bits bits	Image: bit with with with with with with with wi
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Nov Dec Jan       Reb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov Dec       Jan       Feb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov Dec       Jan       Feb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov Dec       Jan       Feb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov Dec       Jan       Feb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov Dec       Jan       Feb       Mar       Arr       May       Jan       Jal       Age       Spo       Oct       Nov       Dec       Jan       Feb       Mar       Arr       Mar       Mar       Arr       Mar	Autom       Autom <th< td=""><td>Press       Survey; TPRP Submission &amp; Approval.       128 days       2 G Aug'20       31 Dec '20       Calendar Day       295       8%       26 Aug'20       NA       NA</td></th<>	Press       Survey; TPRP Submission & Approval.       128 days       2 G Aug'20       31 Dec '20       Calendar Day       295       8%       26 Aug'20       NA
Tress Survey; TPRP Submission & Approval. 128 days 26 Aug '20 31 Dec '20 Calendar Day 295 8% 26 Aug '20 NA 295 VA 100 Dec Jan Feb Mar Arr May Jan Jal Aug Sep Oxt Nov Dec Jan	Approximation     Approval.     128 days     26 Aug '20     31 Dec '20     Calendar Day     295     8%     26 Aug '20     NA	March 201     March
Now Dec Jan Feb Mar Apr May Jun Jal Aug Sep Oxt Nov Dec Jan Feb Mar Apr May Ju	ADDIT         Constraint         Constraint </td <td>2015         Qrt 2, 2018         Qrt 2, 2018         Qrt 3, 2018         Qrt 4, 2019         Qrt 4, 2010         Qrt 4, 2020         Qrt 4, 2020         Qrt 4, 2021         Qrt 2, 2021         Qrt 3, 2020         Qrt 4, 2020         Qrt 4, 2021         Qrt 2, 2021         Qrt 3, 2020         Qrt 4, 2020</td>	2015         Qrt 2, 2018         Qrt 2, 2018         Qrt 3, 2018         Qrt 4, 2019         Qrt 4, 2010         Qrt 4, 2020         Qrt 4, 2020         Qrt 4, 2021         Qrt 2, 2021         Qrt 3, 2020         Qrt 4, 2020         Qrt 4, 2021         Qrt 2, 2021         Qrt 3, 2020         Qrt 4, 2020
	2016 2017 2018 Or 2 2018 Or 2 2018 Or 4 2018 Or 4 2018 Or 4 2018 Or 4 2019 Or 2 2019 Or 3 2019 Or 4 2019 Or 2 2020 Or 3 2020 Or 4 2020 Or 2 2021 Or 2 2021 Or 2 2021	2015 2017 CP 2018 CPr 2 2018 CPr 2 2018 CPr 2 2019 CPr 2 2020 CPr 2 2020 CPr 2 2020 CPr 2 2021 CPF



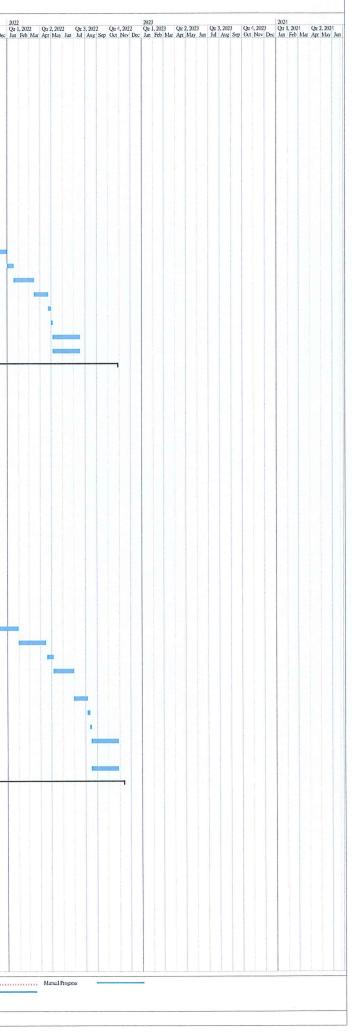
		Duration	Start Finish Ta	Task Calendar Predecessors	Successors % (	Complete Actua	ii Siari Acida	.2
	Excavation and ELS Installation from Pit K to Pit J1A (62m)	62 days	5 Feb '22 22 Apr '22 H	HK Working Day 340	343	0%	NA	NA
	Pipe Laying From Pit K to Pit J1A	9 days	23 Apr '22 4 May '22 H	HK Working Day 342	344	0%	NA	NA
	Construction of Thrust Block from Pit K to Pit J1A		5 May '22 23 May '22 H		345	0%	NA	NA
	Backfill Trench and Remove ELS	18 days	24 May '22 14 Jun '22 H		346	0%	NA	NA
F	Reinstatement of Plant and Shrubs in Roundabout	14 days	15 Jun '22 30 Jun '22 H	HK Working Day 345		0%	NA	NA
	ichless Work from Po Yap Road Roundabout to KMB ot (Pit K to Pit P)	590 days	18 Nov '19 13 Nov '21 H	HK Working Day	642	37% 18	Nov '19	NA
	sue CE No. 28 - Realignment of Water Mains along Po ap Road and Po Hong Road	o O days	13 Jan '20 13 Jan '20 Ci	Calendar Day	351,359	100% 13	3 Jan '20 13	Jan '20
Jun	sue CE No. 50 - Realignment of Watermain at the Inction of Wan Po Road and Po Yap Road and the Inction of Po Hong Road and Po Shun Road.	0 days	11 Jun '20 11 Jun '20 C	Calendar Day		100% 11	1 Jun '20 11	. Jun '20
tol	sue CE No. 28A - Affected Trees along Cycle Track new o Hong Kong Velodrome and Tseung Kwan O Sport round	kt O days	30 Jun '20 30 Jun '20 C	Calendar Day	365	100% 30	0 Jun '20 30	) Jun '20
Ter	ender and Subletting for CE No. 28	99 days	18 Nov '19 24 Feb '20 C				Nov '19 24	Feb '20
	renchless Works (Pit K to Pit O)	545 days	13 Jan '20 13 Nov '21 H		1. 2. 1. 1.		3 Jan '20 3 Feb '20 17	NA Mar '20
	Inspection Pit Excavation at Pit K Inspection Pit Excavation at Pit P	16 days 3 days	28 Feb '20 17 Mar '20 H 29 Jun '20 2 Jul '20 H		355		9 Jun '20	
	Review and change the pipe jacking from Pit P to Pit		3 Jul '20 14 Jul '20 C				3 Jul '20 1	_
	Forming temporary Vehicle Access for Pit P	10 days	16 Jul '20 27 Jul '20 H		372		.6 Jul '20 2	
	MTR's Approval for Trenchless Works from Pit L to F K	Pit 75 days	11 Jun '20 8 Sep '20 H	1K Working Day	358	50% 1	I JUN 20	NA
	TTA Implement for Po Yap Load Roundabout	14 days	9 Sep '20 22 Sep '20 C	Calendar Day 357	367	0%	NA	NA
	TTA preparation, SLG meetings, obtain RA and TPRP Approval for Temporary Vehicular Access at HK Velodrome	128 days	13 Jan '20 19 May '20 C	Calendar Day 348	360	100% 1	3 Jan '20 19	May '20
	Coordination with LCSD and Notification to District	14 days	20 May '20 2 Jun '20 C	Calendar Day 359	361	100% 20	May '20 2	2 Jun '20
	Councillors							
	Form Temporary Vehicle Access at TKO Sport Grour	nd 5 days	1 Jun '20 8 Jun '20 H	HK Working Day 360	362	100%	1 Jun '20	3 Jun '20
	Tree Transplanting Working & Tree Removal Works TKO Sport Ground (CE No. 28)	at 10 days	9 Jun '20 19 Jun '20 H	HK Working Day 361	363	100%	9 Jun '20 19	) Jun '20
	Tree Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	3 days	20 Jun '20 23 Jun '20 H	HK Working Day 362	364	100% 2	0 Jun '20 2	3 Jun '20
		7.1	24 Jun '20 3 Jul '20 F	UK Washing Day 262	371,369	100% 2	4 lup '20	3 Jul '20
	Mobilization of Sheet-piles and Driving Machines Tree Survey along Cycle Track; TPRP Approval; Tree		24 Jun 20 3 Jul 20 F		571,509		0 Jun '20	NA
	Removal Works along Cycle Tracks (Ce No. 28A)							
the second s	Construction of Jacking Pit & Receiving Pit	181 days	4 Jul '20 6 Feb '21 H	HK Working Day			4 Jul '20	NA
	Receiving Pit K	70 days	14 Nov '20 6 Feb '21 H		374		1 Nov '20	NA
	Jacking Pit L	70 days	24 Oct '20 18 Jan '21 F 11 Jul '20 23 Oct '20 F		374,382 368,386,3		4 Oct '20 11 Jul '20 2	NA 3 Oct '20
	Jacking Pit M Receiving Pit N	88 days 77 days	30 Jul '20 30 Oct '20 H		386FS-14 (		30 Jul '20 3	
	Jacking / Receiving Pit O + additional Grouting	130 days	4 Jul '20 5 Dec '20 H		378,390		4 Jul '20	NA
	Jacking Pit P + additional Grouting	130 days	3 Aug '20 7 Jan '21 H	HK Working Day 356	378	30%	3 Aug '20	NA
	Hand Shield Jacking (Pit K to Pit L)	90 days	8 Feb '21 2 Jun '21 H	and the second	394	0%	NA	NA
	Establishment at Pit L	14 days	8 Feb '21 26 Feb '21 H		375	0%	NA	NA
	Segment @400mm Sleeve Pipe (Pit L to Pit K)(~ 56m) in Soil (0.8m/day)	70 days	27 Feb '21 26 May '21 H	HK Working Day 374	376	0%	NA	NA
j	Remove setup including thrust wall at Pit L	6 days	27 May '21 2 Jun '21 H	HK Working Day 375		0%	NA	NA
	TBM Pipe Jacking (Pit P to Pit O)	75 days	8 Apr '21 8 Jul '21 1	HK Working Day	424,443	0%	NA	NA
3	Establishment at Pit P	24 days		HK Working Day 372,371,389		0%	NA	NA
)	DN1600 Precast Concrete Sleeve Pipe (Pit P - Pit (200m) in Soil (4.5m/day)	O) 45 days	7 May '21 30 Jun '21 H	HK Working Day 378	380	0%	NA	NA
)	Remove setup including thrust wall at Pit P	6 days	2 Jul '21 8 Jul '21 I	HK Working Day 379		0%	NA	NA
	TBM Pipe Jacking (Pit M to Pit L) (5 Days a week, 4	68 days	19 Jan '21 15 Apr '21	HK Working Day	400	0%	NA	NA
	trip per days)				BUT CO			
2	Establishment at Pit M	24 days		HK Working Day 385,368,369	9 383 384	0% 0%	NA	NA
3	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pi (CH.GA0+09 to CH.GA1+80) in Soil (171m;	t L) 38 days	19 Feb '21 8 Apr '21	HK Working Day 382	384	0%	NA	NA
	4.5m/day)							
4	Remove setup including thrust wall at Pit M	6 days	9 Apr '21 15 Apr '21	HK Working Day 383		0%	NA	NA
5	TBM Pipe Jacking (Pit M to Pit N) (5 Days a week,	4 57 days	24 Oct '20 2 Jan '21	HK Working Day	382,407,3	0%	NA	NA
	trip per days)				14 4- 207	0%		NA
	Establishment at Pit M	24 days	24 Oct 20 21 Nov 20	HK Working Day 369,370FS-14	14 da 387	0%	NA	NA
6								
6					Inactive Milestone		Manual 1	

	Dural	ration Start	Finish Task Calendar Predecessors	Successors % C	Complete Actual	Start Actua	al Finish
	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit 27 d N) (CH.GA1+86 to CH.GA3+20) in Soil (134m; Sm/day)	days 23 No	v '20 23 Dec '20 HK Working Day 386	388	0%	NA	Nov
		daus 24 Do	e 20 2 Jap 21 HK Working Day 297		0%	NA	NA
	Remove setup including thrust wall at Pit M 6 da BM Pipe Jacking (Pit O to Pit N) (5 Days a week, 4 74 d		c '20 2 Jan '21 HK Working Day 387 '21 7 Apr '21 HK Working Day	415,378	0%	NA	NA
	ip per days)						
		-	21 30 Jan 21 HK Working Day 370,371,385		0%	NA	NA
	DN1600 Precast Concrete Sleeve Pipe (Pit O - Pit N) 44 c (CH.GA3+13 to CH.GA5+08) in Soil (195m; 4.5m/day)	days 1 Feb	'21 26 Mar '21 HK Working Day 390	392	0%	NA	NA
	Remove setup including thrust wall at Pit M 6 da	days 27 Ma	ar '21 7 Apr '21 HK Working Day 391		0%	NA	NA
			'21 13 Sep '21 HK Working Day	143344	0%	NA	NA
	Setup for Pipe Laying inside jacking Pit K 6 da	days 3 Jun	'21 9 Jun '21 HK Working Day 373	395	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (56m) 30 c (2 days per 4m) (Only Internal Coating)	) days 10 Jur	n '21 16 Jul '21 HK Working Day 394	396	0%	NA	NA
	Formwork & Setup for Grouting the gap between 3 da pipe and Sleeve	days 17 Jul	'21 20 Jul '21 HK Working Day 395	397	0%	NA	NA
	Grouting Works (30 meter/day) 2 da		'21 22 Jul '21 HK Working Day 396	398	0%	NA	NA
	Construction of DN900 Valve Chamber and DN150 45 o By-pass Pipe & Valves Near Pit K	i days 23 Jul	'21 13 Sep '21 HK Working Day 397		0%	NA	NA
į	DN1200 Pipelaying (Pit M to Pit L) 145	15 days 16 Ap	or '21 8 Oct '21 HK Working Day	明起自己	0%	NA	NA
			r '21 27 Apr '21 HK Working Day 381	401	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (171m) 90 ( (2 days per 4m)(Only Internal Coating)	) days 28 Ap	or '21 14 Aug '21 HK Working Day 400	402	0%	NA	NA
	Formwork & Setup for Grouting the gap between 3 da pipe and Sleeve	days 16 Au	g '21 18 Aug '21 HK Working Day 401	403	0%	NA	NA
	Grouting Works (30 meter/day) 6 da	days 19 Au	ig '21 25 Aug '21 HK Working Day 402	404,411	0%	NA	NA
	Pipe Connection Inside Pit L 12 of	2 days 26 Au	g '21 8 Sep '21 HK Working Day 403	405	0%	NA	NA
	Remove ELS including extracting sheet piles at Pit 24 o L; Reinstatement of Cycle Track and planter	1 days 9 Sep	'21 8 Oct '21 HK Working Day 404		0%	NA	NA
1	a state of the second		'21 13 Nov '21 HK Working Day		0%	NA	NA
			'21 9 Jan '21 HK Working Day 385	408	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (134m) 35 (2 days per 8m)(Only Internal Coating)		n '21 23 Feb '21 HK Working Day 407	409	0%	NA	NA
	Formwork & Setup for Grouting the gap between 3 d pipe and Sleeve	days 24 Fe	b '21 26 Feb '21 HK Working Day 408	410	0%	NA	NA
	Grouting Works (30 meter/day) 5 d	days 27 Fe	b '21 4 Mar '21 HK Working Day 409	411,419	0%	NA	NA
			ug '21 8 Sep '21 HK Working Day 403,410	412	0%	NA	NA
			21 16 Oct '21 HK Working Day 411	413	0%	NA	NA
	Remove ELS including extracting sheet piles at Pit 24 M & Pit N; Reinstatement of Cycle Track and planter		ct '21 13 Nov '21 HK Working Day 412		0%	NA	NA
l	DN1200 Pipelaying (Pit O to Pit N) 187		r '21 13 Nov '21 HK Working Day	446	0%	NA	NA
			r '21 14 Apr '21 HK Working Day 389 pr '21 15 Jun '21 HK Working Day 415	416 417	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (195m) 50 (2 days per 8m)(Only Internal Coating) Formwork & Setup for Grouting the gap between 3 d		pr '21 15 Jun '21 HK Working Day 415	417	0%	NA	NA
	Formwork & Setup for Grouting the gap between 3 d pipe and Sleeve	2312 TO JU		.15	575		
	Grouting Works (30 meter/day) 7 d	days 19 Ju	n '21 26 Jun '21 HK Working Day 417	419,421	0%	NA	NA
	Pipe Connection Inside Pit N 12	2 days 28 Ju	ın '21 12 Jul '21 HK Working Day 410,418	420	0%	NA	NA
	Remove ELS including extracting sheet piles at Pit 24 N; Reinstatement of Cycle Track and planter	4 days 13 Ju	Il '21 9 Aug '21 HK Working Day 419		0%	NA	NA
	Pipe Connection in side Pit O 12	2 days 2 Oc	t '21 16 Oct '21 HK Working Day 427,418	422	0%	NA	NA
	Remove ELS including extracting sheet piles at Pit 24 O; Reinstatement of Cycle Track and planter	4 days 18 O	ct '21 13 Nov '21 HK Working Day 421		0%	NA	NA
	DN1200 Pipelaying (Pit O to Pit P) 71	1 days 9 Jul	'21 30 Sep '21 HK Working Day		0%	NA	NA
			'21 15 Jul '21 HK Working Day 377	425	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (200m) 55 (2 days per 8m)(Only Internal Coating)	5 days 16 Ju	ıl '21 17 Sep '21 HK Working Day 424	426	0%	NA	NA
	Formwork & Setup for Grouting the gap between 3 of pipe and Sleeve	days 18 5	ep '21 21 Sep '21 HK Working Day 425	427	0%	NA	NA
			ep '21 30 Sep '21 HK Working Day 426	421	0%	NA	NA
T	nchless Work from KMB Depot to Po Hong Road (Pit P 51 Pit R)	515 days 3 Au	ig '20 29 Apr '22 HK Working Day	642	25% 3	3 Aug '20	NA
		) days 3 Au	ig '20 3 Aug '20 Calendar Day	436,431,5!	100% 3	3 Aug '20	3 4110 20

Task Nam		Duration	Start Finis	sh Task	k Calendar Prec	edecessors S	uccessors % Co	emplete Actua	Start Actua	l Finish
	Issue WSD Letter Ref.: (4) in	0 days	3 Sep '20 3 Se						Sep '20 3	.1 N
	WSD/W/TSJ Tetter (14) (17) WSD/W/TSJ30/13/WSD/16/M15/300/51 for aditional works to CE No. 51									
	Tendering Process, Tender Award for CE No. 51 (Batch No, 1)		3 Aug '20 23 0				38,453,4!			
	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)		3 Aug '20 12 M				154		Aug '20 12	
No	ndering Process, Tender Award for CE No. 51 (Batch . 3))		3 Aug '20 31 (				137,556	5% 3		NA
	Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	90 days	26 Aug '20 23 f				135	50% 26		NA
	Tendering Process, Tender Award for CE No. 51 (Location B Mini-pile Works)	60 days			lendar Day 43		128	0%	NA Aug 120	NA
	TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days			lendar Day 42		138	50% 3		NA
	Material Submission, Procurement of top coat of aliphatic polyurethance for exposed pipes	120 days	1 Nov '20 28 I		6990 (A.J. 1997) - C.B.F.			0%	NA	NA
	Forming New Vehicle Access at Po Hung Road for Construction of Pit R & Pit S and Trenchless Works	128 days			Working Day 43		141	0%	NA	NA
	Inspection Pit Excavation at Pit R	14 days	15 Dec '20 2 Ja			4	141	0%	NA	NA
	Construction of Receiving Pit R	90 days	4 Jan '21 26			20	1/2	0%	NA	NA
	Construction of Receiving Pit R	90 days			Working Day 43		143	0%		NA
	TBM Pipe Jacking (Pit P to Pit R) accrossing KMB Depc & Po Hung Road		9 Jul '21 29 .					0%	NA	NA
_	Establishment at Pit P	15 days			Working Day 44		144	0%	NA	NA
	DN1600 Precast Concrete Sleeve Pipe (Pit P - Pit R) (say 248m) in Soil (4m/day)				Working Day 44		445	0%	NA	NA
	Remove setup including thrust wall at Pit P	6 days			Working Day 44		446	0%	NA	NA
	Setup for Pipe Laying inside jacking Pit Q	6 days			Working Day 44		447	0%	NA	NA
	DN1200 MS Pipe Laying inside jacking pipe (248m) ( days per 8m)(Only Internal Coating)	2 70 days			( Working Day 44		448	0%	NA	NA
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	18 Jan '22 20	Jan '22 HK	K Working Day 44	47 4	449	0%	NA	NA
	Grouting Works (30 meter/day)	9 days	21 Jan '22 31	Jan '22 HK	K Working Day 44	48 4	450	0%	NA	NA
	Pipe connection inside Pit P	9 days	4 Feb '22 14	Feb '22 HK	K Working Day 44	49 4	451	0%	NA	NA
	Construction of Combined Inspection and Washout Chamber Type II at Pit P	60 days	15 Feb '22 29	Apr '22 HK	K Working Day 45	50		0%	NA	NA
P	pen Trench from Pit R to Pit S & Trenchless Works fror it S to Pit T						642		Aug '20	NA
	Batch No 1 - Temporary Works Design and Preliminary Works	30 days	24 Oct '20 28	3 Nov '20 HK	K Working Day 43	31 4	456,473	0%	NA	NA
54	Batch No 2 - Temporary Works Design and Preliminary Works	30 days	13 Nov '20 17	Dec'20 HK	K Working Day 43	32 4	474,479,4:	0%	NA	NA
5	Material Procurement for the issued CE	90 days	3 Aug '20 12	2 Jan '21 Ca	alendar Day 43	31		10%	3 Aug '20	NA
	Inspection Pit Excavation at Pit S & Pit T	14 days	30 Nov '20 15	5 Dec '20 HK	K Working Day 45	53	458,459,4	0%	NA	NA
	Construction of Jacking Pits	60 days	16 Dec '20 2 M	Mar'21 HK	K Working Day			0%	NA	NA
	Pit S at CH.HA0+30	60 days	16 Dec '20 2 M	Mar'21 HK	K Working Day 45		461	0%	NA	NA
	Pit T at CH.HA0+80	60 days	16 Dec '20 2 M	Mar'21 HK	K Working Day 45	56	461	0%	NA	NA
	Hand shield Pipe Jacking (Pit S to Pit T)	351 days	3 Mar '21 12	2 May '22 Hk	K Working Day			0%	NA	NA
_	Establishment at Pit S	14 days	3 Mar '21 18	3 Mar '21 Hk	K Working Day 45		462	0%	NA	NA
	Mild Steel Sleeve Pipe in Mix of Soil & Rock (0.2m / day; two teams)	125 days	19 Mar '21 20	DAug'21 Hk	K Working Day 46	61	463	0%	NA	NA
	Remove Setup including Thrust Wall at Pit S	6 days	21 Aug '21 27	7 Aug '21 H	K Working Day 46	62	464	0%	NA	NA
4	Setup for Pipe Laying inside Jacking Pit S	6 days	28 Aug '21 3 5	Sep '21 H	K Working Day 46	63	465	0%	NA	NA
5	DN1200 MS Pipe Laying inside Jacking Pipe (2 days per 4m pipe)(Only Internal Coating)	30 days	4 Sep '21 11	1 Oct '21 H	K Working Day 46	164	466	0%	NA	NA
66	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	12 Oct '21 15	5 Oct '21 H	K Working Day 40	165	467	0%	NA	NA
67	Grouting Works (30m per day)	2 days	16 Oct '21 18	8 Oct '21 H	K Working Day 4	166	468,469	0%	NA	NA
	Construction of Combined Inspection and Washout				IK Working Day 4		470	0%	NA	NA
	Chamber Type I at Pit S	-								
)	Install Inspection Tree at Pit T and Construction of Chamber	45 days	19 Oct '21 9	Dec '21 HI	IK Working Day 4	167		0%	NA	NA
470	Open Cut, between Pit R and Pit S with inspection <sup>-</sup> and Washout Chamber at Pit R	Fee 105 days	30 Dec '21 12	2 May '22 H	IK Working Day 4	468		0%	NA	NA

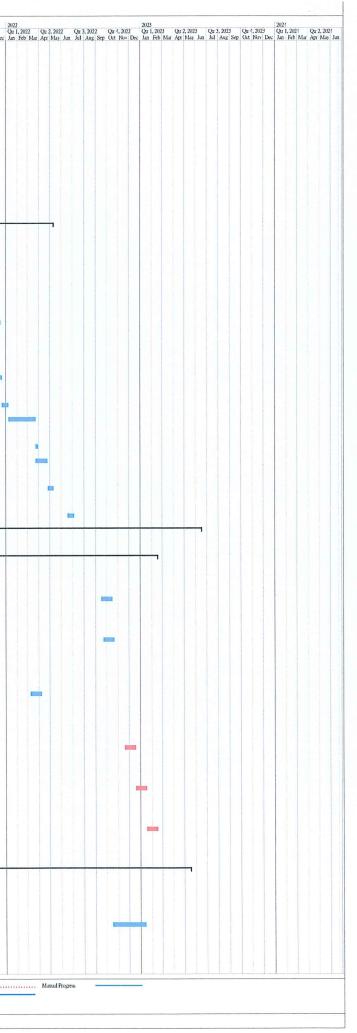
Name Duration	Start Finish Task Calendar Predecessors	Successors % Complete Actual Start	Actual Finish
Name Duration	Start Finish Lass Calendar Fredecessors	Successors w complete Actual start	Actual Finish . 2017 Nov De
Open Cut Excavation, Pipe Laying and Reinstatement at 1486 days Abandoned Road / Mau Wu Tsai Village / Po Lam Road North	7 Nov '17 12 Nov '22 HK Working Day	6% 7 Nov '1	I7 NA
Open Trench Pipelaying at Abandoned Road & Mau 513 days Wu Tsai Village	30 Nov '20 25 Aug '22 HK Working Day	542. 0% N	A NA
CH.HA0+80 to HA3+45 (Depth < 2.5m, each TTA 30m 513 days	30 Nov '20 25 Aug '22 HK Working Day 453	0% N	IA NA
length) (Option C)			
CH.HA3+75 to HAS+55 (Depth < 2.5m, each TTA 270 days 24-30m length) (Option G) with Construction of DAV Chamber	18 Dec '20 17 Nov '21 HK Working Day 454	511 0% N	IA NA
Trenchless Work at Mau Wu Tsui Village 412 days	16 Dec '20 13 May '22 HK Working Day	642 0% N	
Inspection Pit Excavation 16 days	16 Dec '20 6 Jan '21 HK Working Day		IA NA
Inspection Pit Excavation at Pit U 14 days Inspection Pit Excavation at Pit V 14 days	16 Dec '20 4 Jan '21 HK Working Day 456 16 Dec '20 4 Jan '21 HK Working Day 456		
Inspection Pit Excavation at Pit W 14 days	18 Dec '20 6 Jan '21 HK Working Day 454		IA NA
Inspection Pit Excavation at Pit X 14 days	18 Dec '20 6 Jan '21 HK Working Day 454	485 0% N	IA NA
Construction of Jacking / Receiving Pits 62 days	5 Jan '21 20 Mar '21 HK Working Day	0% N	IA NA
Jacking Pit U 60 days	5 Jan '21 18 Mar '21 HK Working Day 478	487 0% N	IA NA
Receiving Pit V 60 days	5 Jan '21 18 Mar '21 HK Working Day 478	487 0% N	NA NA
Jacking Pit W 60 days	7 Jan '21 20 Mar '21 HK Working Day 479		NA NA
Receiving Pit X 60 days	7 Jan '21 20 Mar '21 HK Working Day 480		NA NA
Hand Shield Pipe Jacking from Pit U to Pit V (~30m) 241 days	19 Mar '21 10 Jan '22 HK Working Day		
Establishment at Pit U 14 days	19 Mar '21         8 Apr '21         HK Working Day 483,482           9 Apr '21         9 Jul '21         HK Working Day 487		NA NA
Mild Steel Sleeve Pipe in Mix of Soil (0.4m / day) 75 days Remove Setup including Thrust Wall at Pit U 6 days	10 Jul '21 16 Jul '21 HK Working Day 488		NA NA
Setup for Pipe Laying inside Jacking Pit U 6 days	17 Jul '21 23 Jul '21 HK Working Day 489		NA NA
DN1200 MS Pipe Laying inside Jacking Pipe (3 days 45 days per 2m)	24 Jul '21 14 Sep '21 HK Working Day 490		NA NA
Formwork & Setup for Grouting the gap between 3 days pipe and Sleeve	15 Sep '21 17 Sep '21 HK Working Day 491	493 0% N	NA NA
Grouting Works (30m per day) 2 days	18 Sep '21 20 Sep '21 HK Working Day 492	494,496 0% N	NA NA
Construction of Washout Chamber at Pit U 45 days	21 Sep '21 15 Nov '21 HK Working Day 493	495 0% N	NA NA
Open Cut, connecting CH. HA3+45 to DN1200 pipe 45 days end at Pit U with Inspection Tee at Pit U	16 Nov '21 10 Jan '22 HK Working Day 494		AN AN
Install inspection Tree at Pit V and Construction of 45 days chamber	21 Sep '21 15 Nov '21 HK Working Day 493	497 0% N	NA NA
Open Cut, connecting CH. HA3+75 to DN1200 pipe 35 days end at Pit V $% \mathcal{D}_{\mathrm{S}}$	16 Nov '21 28 Dec '21 HK Working Day 496	0% N	NA NA
Hand Shield Pipe Jacking from Pit W to Pit X (~85m) 336 days	22 Mar '21 13 May '22 HK Working Day	0% N	NA NA
Establishment at Pit W 14 days	22 Mar '21 10 Apr '21 HK Working Day 485,484		NA NA
Mild Steel Sleeve Pipe in Mix of Soil (0.4m / day) 100 days			NA NA
Remove Setup including Thrust Wall at Pit U 6 days	11 Aug '21 17 Aug '21 HK Working Day 500		NA NA
Setup for Pipe Laying inside Jacking Pit U 6 days DN900 MS Pipe Laying inside Jacking Pipe (2 days 25 days per 4m)(Only Internal Coating)	18 Aug '21 24 Aug '21 HK Working Day 501 25 Aug '21 23 Sep '21 HK Working Day 502		NA NA NA NA
Formwork & Setup for Grouting the gap between 3 days pipe and Sleeve	24 Sep '21 27 Sep '21 HK Working Day 503	505 0% M	NA NA
Grouting Works (30m per day) 2 days	28 Sep '21 29 Sep '21 HK Working Day 504	506,508 0% M	NA NA
Install inspection tee at Pit W 6 days	30 Sep '21 7 Oct '21 HK Working Day 505	507 0% M	NA NA
Open Cut, connecting CH. HA5+55 to DN900 pipe 75 days end at Pit W	8 Oct '21 7 Jan '22 HK Working Day 506	0% 1	NA NA
Install inspection tee at Pit X & Construction of 40 days Chamber	30 Sep '21 17 Nov '21 HK Working Day 505	509 0% 1	NA NA
Open Cut, connecting CH. HA6+63 to DN1200 pipe 140 days end at Pit X with DN900 Valve Chamber & DAV Chamber	18 Nov '21 13 May '22 HK Working Day 508	0% 1	NA NA
Open Trench Pipe Laying at Po Lam Road North 1314 day	rs 7 Nov '17 14 Apr '22 HK Working Day	643 0% 1	NA NA
CH.HA6+63 to HA7+46 (Depth < 2.5m, each TTA 30m 120 days length ) (Option G)		0% 1	NA NA
CH.HCO+00 to HC3+17 (Depth < 2.5m, each TTA max. 384 days 20m length) (Option G)	7 Nov '17 23 Feb '19 HK Working Day	511 0% 1	NA NA
Water Main Structure and Associated Pipe Support 653 days across the Natural Stream Course (CH. H80+00 ~ CH. H80+94)	5 May '20 16 Jul '22 HK Working Day	643 19% 5 May '	20 NA
Design Submission (CE No. 55) for Water Main 37 days	5 May '20 16 Jun '20 HK Working Day	515 100% 5 May	'20 16 Jun '20
Structure and Associated Pipe Support across the Natural Stream Course			
Programme No. 11 Tak Milstore te : 15 Nov 2020 Selt Summay	Project Summary  Institute Task		Manual Task Duration-only
te : 15 Nov 2020 Split Summary	I madre tees		

Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors %	Complete Actual Sta	art Actual Fini	1				g in Tseung Kwan O		2020			2021		
a consta futire									2018	2018 Qu 2. Feb Mar Arr	, 2018 Qtr 3, 2018 May Jun Jul Aug Ser	2 Qtr 4, 2018 Oct Nov Dec J	019 Qr 1, 2019 Qr 2, 2019 Ian Feb Mar Apr May Jur	Qtr 3, 2019 Qtr 4, 2 Jul Aug Sep Oct N	2020 019 Qtr 1, 2020 ov Dec Jan Feb Mar	Qtr 2, 2020 Q Apr May Jun Ju	a 3, 2020 Qu 4 Il Aug Sep Oct	2021 ,2020 Qtr 1, 202 Nov Dec Jan Feb	l Qtr 2, 2021 Mar Apr May Jur	Qtr 3, 2021
	WSD & GEO Review and Approve	121 days	17 Jun '20	15 Oct '20	Calendar Day 514	517,518	100% 17 Ju	n '20 15 Oct	Two Dec Jan		you hug be		the second se							
	Issue CE No. xx - Mini-pile Suppoty and Pipework across the Natural Stream Course	0 days	30 Nov '20	30 Nov '20	Calendar Day	519	0%	NA	NA									♦ 30/11		
	TTA preparation, SLG meetings, obtain RA	45 days	16 Oct '20	29 Nov '20	Calendar Day 515		0%	NA	NA											
	Tender and Subletting	90 days	16 Oct '20	13 Jan '21	Calendar Day 515	521,522	0%	NA	NA											
	Material procurement for the issued CE	90 days	30 Nov '20	27 Feb '21	Calendar Day 516	524	0%	NA	NA											
	Tree survey, TPRP approval and site clearance works	90 days	31 Aug '20	16 Dec '20	HK Working Day		50% 31 Au	ıg '20	NA											
-	Advanced Works	30 days	14 Jan '21	20 Feb '21	HK Working Day 518	523	0%	NA	NA											
	Design and Construction Working Platform on Slope				HK Working Day 518	515	0%	NA	NA											
	for Piling Works Pre-drilling works & confirmation of rock head and	30 days	22 Feb '21	27 Mar '21	HK Working Day 521	524	0%	NA	NA											
1	depth of mini-pile																			
	Mini-pile Construction (2 Workfront)	120 days			HK Working Day 519,523	525	0%	NA	NA											
	Loading Test (One Tensile & One Compression)	45 days			HK Working Day 524	526	0%	NA	NA											
	Construction Pile Caps and Piers	60 days			HK Working Day 525	527	0%	NA	NA											
	Temporary Working Platform for Pipe Installation	14 days			HK Working Day 526	528	0%	NA	NA											
	Pipe Installation / Welding / Testing / Painting (~115				HK Working Day 527	529	0%	NA	NA											
	Concrete Hunching	30 days			HK Working Day 528	530	0%	NA	NA											
	Apply top coating of aliphatic polyurethane on site				HK Working Day 529	531	0%	NA	NA											
	Remove Temporary Working Platform	3 days			HK Working Day 530	532,533	0%	NA	NA											
	Open Cut, Connection to CH.HA7+50	60 days	5 May '22	16 Jul '22	HK Working Day 531		0%	NA	NA											
-	Open Cut, Connection to CH.HCO+00	60 days	5 May '22	16 Jul '22	HK Working Day 531		0%	NA	NA											
f	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam Road (CH. HD0+00 ~ C HD1+01)	70Z days H.	16 Jun '20	27 Oct '22	HK Working Day	643	13% 16 Ju	in '20	NA											
	Design Submmission (CE No. 62) for Water Main Structure and Associated at Tsui Lam (Location B)	139 days	16 Jun '20	30 Nov '20	HK Working Day	536,538	81% 16 Ju	ın '20	NA											
-	WSD & GEO Review and Approve	61 days	1 Dec '20	30 Jan '21	Calendar Day 535	537,539	0%	NA	NA											
	Expected CE No. XX - Mini-pile support and pipewor at Tsui Lam (Location B)	k Odays	30 Jan '21	30 Jan '21	Calendar Day 536	540	0%	NA	NA									<ul><li>♦ 30</li></ul>	Л	
	TTA preparation, SLG meetings, obtain RA	60 days	1 Dec '20	29 Jan '21	Calendar Day 535		0%	NA	NA											
	Tender and Subletting	90 days	31 Jan '21	30 Apr '21	Calendar Day 536	543	0%	NA	NA											
	Material procurement for the issued CE	90 days	31 Jan '21	30 Apr '21	Calendar Day 537		0%	NA	NA											
	Tree survey, TPRP approval and Tree Removal Work	s 150 days	21 Aug '20	22 Feb '21	HK Working Day	542	18% 21 Au	ug '20	NA								-			
	Tree Removal Works & Site Clearance	14 days	23 Feb '21	10 Mar '21	HK Working Day 541		0%	NA	NA											
	Design and Construction Working Platform on Slope for Piling Works				HK Working Day 539	544	0%	NA	NA											
1	Pre-drilling works & confirmation of rock head and depth of mini-pile	30 days	19 Aug '21	23 Sep '21	HK Working Day 543	545	0%	NA	NA											-
5	Mini-pile Construction (2 Workfront)	60 days	24 Sep '21	4 Dec '21	HK Working Day 544	546	0%	NA	NA											
	Loading Test (One Tensile & One Compression)	45 days			HK Working Day 545	547	0%	NA	NA											
	Construction Pile Caps and Piers				HK Working Day 545	548	0%	NA	NA											
3		60 days			HK Working Day 547	548	0%	NA	NA											
3	Temporary Working Platform for Pipe Installation	14 days				550	0%	NA	NA											
	Pipe Installation / Welding / Testing / Painting (~115m)	45 days	o iviay '22	22. UNI - 52	HK Working Day 548	550	070	114												
1	Concrete Hunching	30 days	30 Jun '22	4 Aug '22	HK Working Day 549	551	0%	NA	NA											
	Apply top coating of aliphatic polyurethane on site	6 days	5 Aug '22	11 Aug '22	HK Working Day 550	552	0%	NA	NA											
52	Remove Temporary Working Platform	3 days	12 Aug '22	15 Aug '22	HK Working Day 551	553,554	0%	NA	NA											
	Open Cut, Connection to CH.HC3+17 with DAV Chamber	60 days			HK Working Day 552		0%	NA	NA											
4		60 days	16 Aug 122	27 0 c+ '22	HK Working Day 552		0%	NA	NA											
5	Open Cut, Connection to CH.HE0+15 From Tsui Lam Road to TKO Freshwater PSR (CH. HE.0+00 ~ CH. HE2+00) & (CH.J0+00 CH.J0+57)	60 days 677 days			HK Working Day	643	0%	NA	NA											
6	Batch No 3 - Temporary Works Design and Preliminary Works	30 days	2 Nov '20	5 Dec '20	HK Working Day 433	558,560	0%	NA	NA											
2				100-10-	Colondar Dov. 120		00/	NO	NA											
7 8	TTA preparation, SLG meetings, obtain RA Material procurement (DN800 MS PIPE & Butterfly Valve) for the issued CE	45 days 300 days	-		Calendar Day 429 Calendar Day 430,556		0% 0%	NA NA	NA											
9	Inspection Pit Excavation	77 days	7 Dec '20	12 Mar '21	None	建筑以前建筑	0%	NA	NA										7	
0	Inspection Pit Excavation at both side footpath of Tsui Lam Road				HK Working Day 556	565,561	0%	NA	NA											
1	Inspection Pit Excavation for DN800 Connection	at 21 days	23 Dec '20	) 19 Jan '21	HK Working Day 560	562	0%	NA	NA											1
	CH.HE2+06																			
62	Inspection Pit Excavation for DN800 EMF & BV a CH.HE1+90	t 21 days	20 Jan '21	16 Feb '21	HK Working Day 561	563,568	0%	NA	NA											
orking Pro-	ramme No. 11 Tak	Milestone	*	Proise	t Summury	Inactive Milestone	*	Manual Task		N	Lanual Summary Rollup 🖬	A second damage of	Start-only	C	External Tasks	Part and the second	Deadline	+		Critical Split
	ramme No. 11 Task 5 5 Nov 2020 Split	PRESIDIE		Inactio		Inactive Summary	1	a weak			lanual Summary		Finish-only	3	External Milestone		Critical	-		Progress



lame		Duration	Start Finish Task Calendar Predecessors	Successors %	Complete Actual	Start Actual Finish
ane		bullion				
	on Pit Excavation for DN800 EMF & BV at	21 days	17 Feb '21 12 Mar '21 HK Working Day 562	568	0%	NA
CH.HE1+	+70					
Excavation	n, Pipelaying & Reinstatement	558 days	23 Dec '20 12 Nov '22 None		0%	NA I
	ut across Tsui Lam Road (CH. HEO+00 to	100 days	23 Dec '20 29 Apr '21 HK Working Day 560		0%	NA
0+15) (T	「wo Stages)					
	ut, CH. HEO+15 ~ CH.HE1+55) with DAV	165 days	27 Apr '22 12 Nov '22 HK Working Day 569		0%	NA
Chambe	er					
Open Cu	ut, DN800 (CH.HE1+55 ~ CH.HE1+80) with	120 days	10 Aug '21 3 Jan '22 HK Working Day 568	570,655,51	0%	NA
DN800	EMF & BV					
Open Cu	ut, DN800 (CH.HE1+80 ~ CH.HE2+00) with	120 days	13 Mar '21 9 Aug '21 HK Working Day 562,563	567,655,51	0%	NA
DN800	EMF & BV					
Constru	iction of flowmeter kiosks and GI cable	90 days	4 Jan '22 26 Apr '22 HK Working Day 568,567	566	0%	NA
ducts						
Pipelayi	ing, DN800 (CH. J0+00 ~ J0+057)	60 days	4 Jan '22 17 Mar '22 HK Working Day 567	655	0%	NA
	on to TKO Fresh Water Service Reservoir	30 days	22 Apr '22 28 May '22 HK Working Day		0%	NA
		30 days	22 Apr '22 28 May '22 HK Working Day 654		0%	NA
		30 days	22 Apr '22 28 May '22 HK Working Day 654		0%	NA
200100000000000000000000000000000000000		1051 days	11 Dec '18 4 Jul '22 HK Working Day		59% 11	
		All and the second second		576	TABLE STATE	Jan '19 22 Jan
	E07 -Water Supply to TKO Desalination n H (NS250 HDPE Pipe)	0 days	22 Jan '19 22 Jan '19 Calendar Day	570	10076 22	The sum of the second s
					100% 11	Dec 19 C No
		330 days	11 Dec '18 5 Nov '19 Calendar Day 575			Dec '18 5 Nov'
Ope Cut Excava TKO Area 137	ation, Pipe Laying and Reinstatement at	311 days	10 Aug '19 26 Aug '20 HK Working Day		98% 10	Aug '19
						Aug 110
		299 days	10 Aug '19 12 Aug '20 HK Working Day	CLA	98% 10	
CH. CT1+5	51 - 265 DN1200 MS Pipe OC	82 days	16 Apr '20 24 Jul '20 None			Apr '20 24 Jul
CH. CT0+5	51 - 1+51 DN1200 MS Pipe OC	44 days	10 Feb '20 31 Mar '20 HK Working Day		100% 10	Feb '20 31 Mar
СН. СТ0+0	00 - 0+51 DN1200 MS Pipe OC	74 days	2 Jan '20 31 Mar '20 HK Working Day		100%	2 Jan '20 31 Mar
CH. CA0+0	00 - 4+00 DN1200 MS Pipe OC	192 days	10 Aug '19 31 Mar '20 HK Working Day 5		100% 10	Aug '19 31 Mar
CH. KT2+8	30 - 3+60 NS250 HDPE Pipe OC with	14 days	28 Jul '20 12 Aug '20 HK Working Day		0%	NA
additional	I Tees and fire Hydrant					
CH. KT2+2	23 - 2+80 NS250 HDPE Pipe OC	29 days	20 Jun '20 25 Jul '20 HK Working Day		100% 20	) Jun '20 25 Jul
		31 days	16 May '20 20 Jun '20 HK Working Day		100% 16	May '20 20 Jun
	51 - 1+51 NS250 HDPE Pipe OC	19 days	10 Mar '20 31 Mar '20 HK Working Day		100% 10	Mar '20 31 Mar
	00 - 0+51 NS250 HDPE Pipe OC	50 days	2 Feb '20 31 Mar '20 HK Working Day			Feb '20 31 Mar
	00 - 4+00 NS250 HDPE Pipe OC	143 days	10 Oct '19 31 Mar '20 HK Working Day			Oct '19 31 Mar
	n of Chambers	99 days	29 Apr '20 26 Aug '20 HK Working Day		97% 29	
	d DAV & IT Chamber for DN1200 MS pipe at		5 May '20 15 Jul '20 HK Working Day	100 100 100		May '20 15 Jul
Combined CH. CT2+4						,
Combin	d Washout Pump Pit for DN1200 MS pipe	71 days	3 Jun '20 26 Aug '20 HK Working Day		100%	3 Jun '20 26 Aug
	0 HDPE pipe at CH.CT2+43	71 0075	Shar to to the to the norming out			
DN000 V	alve Chamber with by-pass pipes at CH.CA4+	+. 60 days	29 Apr '20 11 Jul '20 HK Working Day		90% 29	Apr '20
			2 Sep '19 10 May '22 HK Working Day	638,659	16% 2	
at TKO Area 1	orks (DN1200 MS PIPE + NS250 HDPE PIPE) 37	793 days	2 Sep 19 TO May 22 HK WORKING Day	038,039	10/8 2	. эер 19
		0 d	1 Jan '20 1 Jan '20 Calendar Day		100%	1 Jan '20 1 Jan
	. 17 - Realignment of Water Main by Method in TKO Area 137	0 days	TIAU SO TIAU SO CAIGUOAL DAA		100%	rian so Ilau
		0.4		500	0.07	NA
	sue CE No. 57 - Realignment of Water Main ss Method in SENTX	0 days	30 Dec '20 30 Dec '20 Calendar Day	599	0%	NA
						c 1 120
Tendering 8		21 days	6 Jan '20 26 Jan '20 Calendar Day			6 Jan '20 26 Jan
WSD instruc	cted to retender	0 days	3 Apr '20 3 Apr '20 Calendar Day	598		3 Apr '20 3 Apr
Retendering	g, Review & Approval	43 days	18 May '20 29 Jun '20 Calendar Day 597	599		May '20 29 Jun
Issue LOA		1 day	3 Sep '20 3 Sep '20 Calendar Day 598,595	605	100%	3 Sep '20 3 Sep
	cavation for Trenchless Works at TKO Area	156 days	2 Sep '19 11 Mar '20 HK Working Day		100%	2 Sep '19 11 Mar
137						
Pit 137A		35 days	2 Sep '19 15 Oct '19 HK Working Day		100%	2 Sep '19 15 Oct
Pit 137B		57 days	28 Oct '19 4 Jan '20 HK Working Day		100% 2	8 Oct '19 4 Jan
Pit 137C		14 days	25 Feb '20 11 Mar '20 HK Working Day		100% 2	5 Feb '20 11 Mar
	on of jacking / Receiving Pits	172 days	4 Sep '20 7 Apr '21 HK Working Day		0%	NA
	tion and Setup & Preliminary Works	15 days	4 Sep '20 18 Sep '20 Calendar Day 599	606,607,61		NA
			19 Sep '20 22 Feb '21 HK Working Day 605	,307,51	0%	NA
	g Pit 137A (Renopipe)	125 days		610	0%	NA
_	Receiving Pit 137B (Renopipe)	115 days	19 Sep '20 6 Feb '21 HK Working Day 605	610		
	Pit 137C (renopipe)	159 days	19 Sep '20 7 Apr '21 HK Working Day 605	622	0%	NA
	lacking From Pit 137B to Pit 137A	231 days	8 Feb '21 19 Nov '21 HK Working Day	73	0%	NA
Establish	nment at Pit 137B	14 days	8 Feb '21 26 Feb '21 HK Working Day 607	611	0%	NA
	Steel Sleeve Pipe for both DN1200 & NS250	0 23 days	27 Feb '21 25 Mar '21 HK Working Day 610	612	0%	NA
	B - Pit 137A) (CH.CC0+10 to CH.CC.1+24) in Am; 5m/day)					
( 1						
	setup at Pit 137B	6 days	26 Mar '21 1 Apr '21 HK Working Day 611	613,622	0%	NA
Remove						
Remove Programme No. 11	1 Task	Milestone	Project Summary	Inactive Milestone	<i></i>	Manual Task

Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors %	Complete Actua	l Start Actual		
	Satur for Ding Louise inside inside - Dity D	6 days	8 Jul '21	14 101 24	HK Working Day 612,623	615	0%	NA	, 20 No: NA	2017 Qr 1, 2018 Qr 2, 2018 Qr 3, 2018 Qr 4, 2018 Qr 4, 2018 Qr 4, 2019 Qr 2, 2019 Qr 2, 2019 Qr 4, 2019 Qr 4, 2019 Qr 4, 2020 Qr 3, 2030 Qr 4, 2020 Qr 4, 2020 Qr 1, 2021 Qr 2, 2021 Qr 3, 2039 Nov Dec Jan Feb Mar Arr May Jun Jal Aug Sep Oxt Nov Dec Jan Feb Mar Arr May
	Setup for Pipe Laying inside jacking Pits B DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 day)	6 days 45 days			HK Working Day 612,623 HK Working Day 615	615	0%	NA	NA	
	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	15 days	15 Jul '21	31 Jul '21	HK Working Day 613	614	0%	NA	NA	
		3 days	24 Sep '21	27 Sep '21	HK Working Day 614	617	0%	NA	NA	
						610	001			
	Grouting Works (20 meter/day)	6 days			HK Working Day 616	618 619	0% 0%	NA	NA	
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	6 0 0 21	5 1404 21	HK Working Day 617	019	078	100	114	
	Remove ELS and Extract Sheetpile at Pit 137A	2 days	4 Nov '21	5 Nov '21	HK Working Day 618	620	0%	NA	NA	
	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 & KC1+38	12 days	6 Nov '21	19 Nov '21	HK Working Day 619		0%	NA	NA	
T	IBM Pipe Jacking From Pit 137C to Pit 137B	322 days	8 Apr '21	10 May '22	HK Working Day		0%	NA	NA	
	Establishment at Pit 137C	24 days	8 Apr '21	6 May '21	HK Working Day 612,608	623	0%	NA	NA	
	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B) (CH.CB0+00 to CH.CB.2+46) in Soil (246m; 5m/day)	50 days	7 May '21	7 Jul '21	HK Working Day 622	624,613	0%	NA	NA	
	Remove setup including thrust wall at Pit 137C	6 days	8 Jul '21	14 Jul '21	HK Working Day 623	625	0%	NA	NA	
	Setup for Pipe Laying inside jacking Pit C	6 days	15 Jul '21	21 Jul '21	HK Working Day 624	627	0%	NA	NA	
	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)	93 days	27 Aug '21	16 Dec '21	HK Working Day 627	628	0%	NA	NA	
	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	31 days	22 Jul '21	26 Aug '21	HK Working Day 625	626	0%	NA	NA	
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	17 Dec '21	20 Dec '21	HK Working Day 626	629	0%	NA	NA	
	Grouting Works (20 meter/day)	13 days	21 Dec '21	7 Jan '22	HK Working Day 628	630	0%	NA	NA	
	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	8 Jan '22	22 Mar '22	HK Working Day 629	632,631	0%	NA	NA	
	Pipe Connection Inside Pit 137C	6 days	23 Mar '22	29 Mar '22	HK Working Day 630		0%	NA	NA	
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	23 Mar '22	23 Apr '22	HK Working Day 630	633	0%	NA	NA	
	Remove ELS and Remove ELS and Extract Sheetpile a Pit 137C	it 12 days	25 Apr '22	10 May '22	HK Working Day 632		0%	NA	NA	
Fin	al Connection of NS250 HDPE Pipe to Existing at Wan P	Po 14 days	17 Jun '22	4 Jul '22	HK Working Day 662		0%	NA	NA	
	200 MS Pipe Static Pressure Test, Pipeline Cleaning,	2048 days	7 Nov '17	16 Jun '23	Calendar Day	N THE	0%	NA	NA	
	Inspection, Sterilization and Water Sampling				ALC: NO	2 2.50				
	atic Pressure Test	838 days			Calendar Day		0% 0%	NA	NA NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	30 days	1 Nov 20	30 Nov 20	Calendar Day		0%	NA	NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH. A12+50)		16 Sep '22	15 Oct '22	Calendar Day 71,593	646	0%	NA	NA	
	DN1200 M5 Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH. A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. F81+66)		22 Sep '22	21 Oct '22	Calendar Day 132,234	647	0%	NA	NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. F81+66) to DN900 Valve Chamber at TKO Landfill Stage Area B (CH. FC 13+26)	30 days 2 l	9 Mar '22	7 Apr '22	Calendar Day 230,298	648	0%	NA	NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC13+26) to DN900 Valve Chamber at CH. FD3+43	30 days	19 Nov '22	18 Dec '22	Calendar Day 289	642,649	0%	NA	NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chambe at Mau Wu Tsai (CH. HA6+45)		19 Dec '22	17 Jan '23	Calendar Day 341,347,428,	452 650,643	0%	NA	NA	
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & B Chamber at TKO F.W.S.R.(CH. HE1+70)	30 days V	18 Jan '23	16 Feb '23	Calendar Day 510,513,534,	555651	0%	NA	NA	
Pij	peline Cleaning and CCTV Inspection	2018 days	7 Nov '17	17 May '23	Calendar Day	653FF+30	0%	NA		┍┼┙╡┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎┝╎
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 CH.CT.2+65	90 days to	7 Nov '17	4 Feb '18	Calendar Day		0%	NA	NA	
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 DN900 Valve Chamber at Wan Po Road (CH. A12+50)	90 days to	16 Oct '22	13 Jan '23	Calendar Day 638		0%	NA	NA	
		······			1					
	amme No. 11 Task	Milestone	٠		Summary I	nactive Milestone		Manual Ta		Manual Summary Rollup



T 1 .	N	Duration	St t	Dini h	Tub Cul - L	Destaur	P	and the later	1 Part 1	and the first	Project: Mainlaying in Tseung Kwan O
Task N	Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors % Co	omplete Actu	al Start Ac		2018         2019         2019         2019         2019         2011         2021 <th< th=""></th<>
7	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Wan Po Road (CH. A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66)	90 days	22 Oct '22	19 Jan '23	Calendar Day	639		0%	NA	NA	Dec Jan Feb Mar Arr May Jun Jul Aug Sep Oxt Nov Dec Jan Feb Mar Arr May Jun Jul Aug Sep Oxt Nov Dec Jan Feb Mar Arr May Jun Jul Aug Sep Oxt Nov Dec Jan Feb Mar Arr May Jun Jul Aug Sep Oxt
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC 13+26)	90 days	8 Apr '22	6 Jul '22	Calendar Day	640		0%	NA	NA	
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC13+26) to DN900 Valve Chamber at CH.FD3+43	90 days	19 Dec '22	18 Mar '23	Calendar Day	641		0%	NA	NA	
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH. HA6+45)	90 days	18 Jan '23	17 Apr '23	Calendar Day	642		0%	NA	NA	
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70)	90 days	17 Feb '23	17 May '23	Calendar Day	643		0%	NA	NA	
	Sterilization and Water Sampling	150 days	18 Jan '23	16 Jun '23	Calendar Day			0%	NA	NA	
	DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	150 days				644FF+30 days	661	0%	NA	NA	
	N800 M5 Pipe Static Pressure Test, Pipeline Cleaning, CTV Inspection, Sterilization and Water Sampling	35 days	18 Mar '22	21 Apr '22	Calendar Day		572,573	0%	NA	NA	
	DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH. HE1+90)	14 days	18 Mar '22	31 Mar '22	Calendar Day	567,568,570	656	0%	NA	NA	
	DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH. HE1+90)	14 days	1 Apr '22	14 Apr '22	Calendar Day	655	657	0%	NA	NA	
	DN800 MS Pipe - Sterilization and Water Sampling From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH.HE1+90)	7 days	15 Apr '22	21 Apr '22	Calendar Day	656		0%	NA	NA	
	15250 HDPE Pipe Static Pressure, Pipeling Cleaning, CCTV nspection, Sterilization and Water Sampling	30 days	11 May '22	9 Jun '22	Calendar Day			0%	NA	NA	
	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	30 days	11 May '22	9 Jun '22	Calendar Day	593	662	0%	NA	NA	
		379 days	10 Jun '22	23 Jun '23	Calendar Day			0%	NA	NA	
		7 days	College Street in	de trans	Calendar Day	The second second		0%	NA	NA	
		7 days			Calendar Day		634	0%	NA	NA	
	Vater Supply to Tseung Kwan O Desalination Plant at Fill Sank of Tseung Kwan O Area 137 (Portion J)	141 days	16 Nov '18	11 May '19	HK Working D	ау		100% 1	6 Nov '18 1	11 May '19	
	Issue of CE No. 02	0 days	16 Nov '18	16 Nov '18	HK Working Da	ау	665	100% 1	6 Nov '18	16 Nov '18	♦ 16/11
	Procurement of Major Material	48 days	17 Nov '18	3 Jan '19	Calendar Day	664	666	100% 1	7 Nov '18	3 Jan '19	
	Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No. 13/WSD/16/SK13 to SK15 and W20203/4A	89 days	4 Jan '19	25 Apr '19	HK Working Da	ay 665		100%	4 Jan '19	25 Apr '19	
	Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64)	4 days	24 Apr '19	28 Apr '19	HK Working Da	ау	668	100% 2	4 Apr '19	28 Apr '19	
	Take Water Sampling	1 day	29 Apr '19	29 Apr '19	HK Working Da	ay 667	669	100% 2	9 Apr '19	29 Apr '19	
	Backfill at T23+64 after completion of Water Sampling Test				HK Working Da		670FF		1 May '19		
		0 days			HK Working Da				1 May '19		♦ 11/5

Working Programme No. 11 Data Date : 15 Nov 2020 Tæk Split Milestone Summary Project Summary
 Inactive Task

1

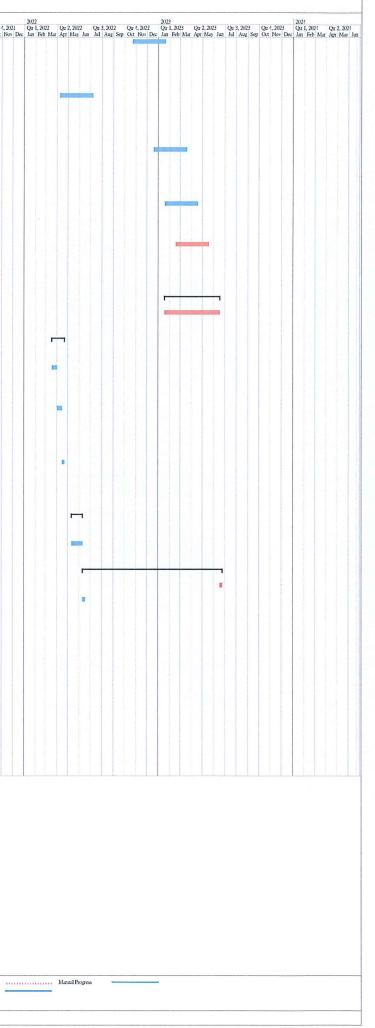
Inactive Milestone Manual Task
 Inactive Summary 1 Duration-only

Mansal Summary Rollup Start-only Mansal Summary Finish-only

C

External Tasks Deadline External Milestone 
Critical

Critical Split
 Progress





# Appendix B

# Overview of Mainlaying in Tseung Kwan O



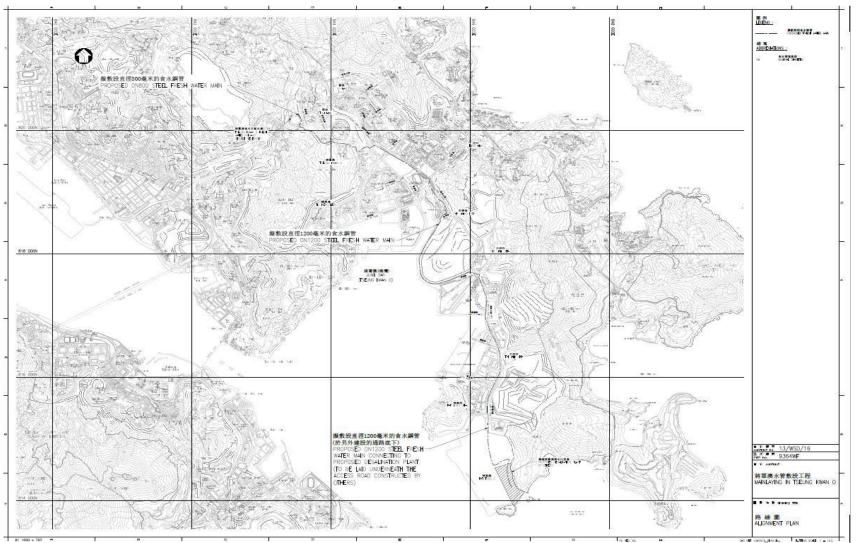


Figure B1. Overview of Mainlaying in TKO



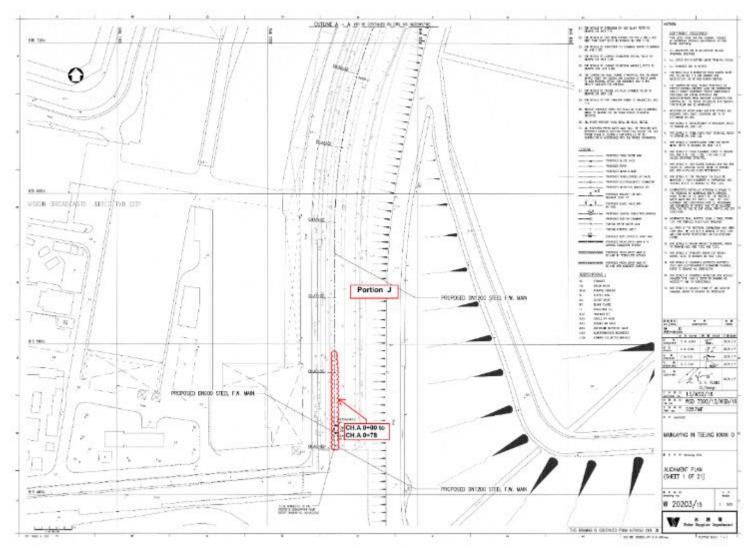


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78



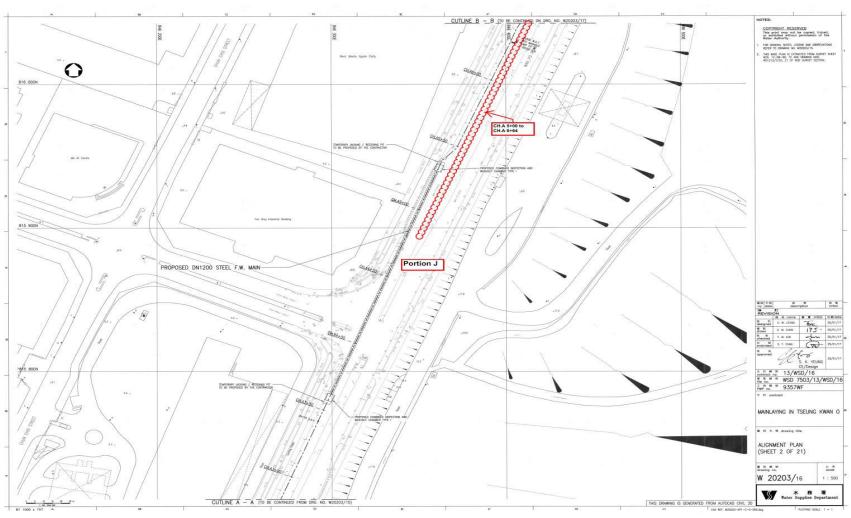


Figure B3a. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64



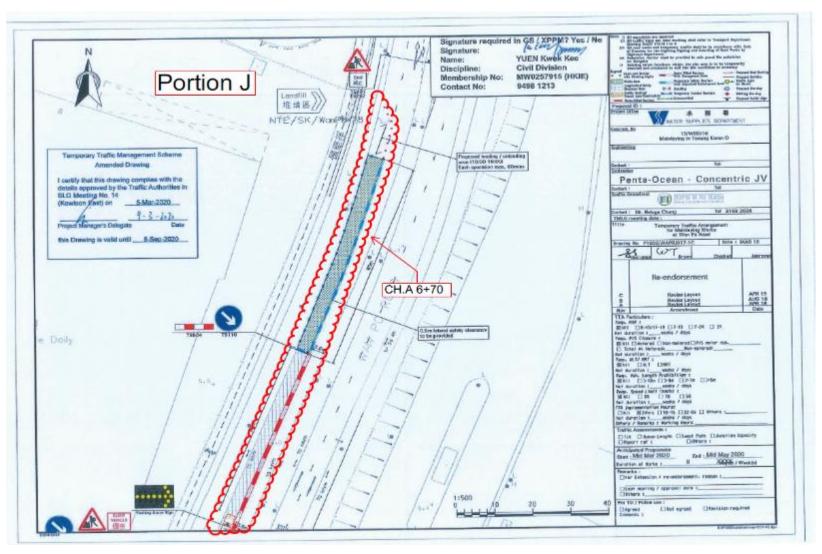


Figure B3b(i). Location Plan for Portion J - CH.A 6+70



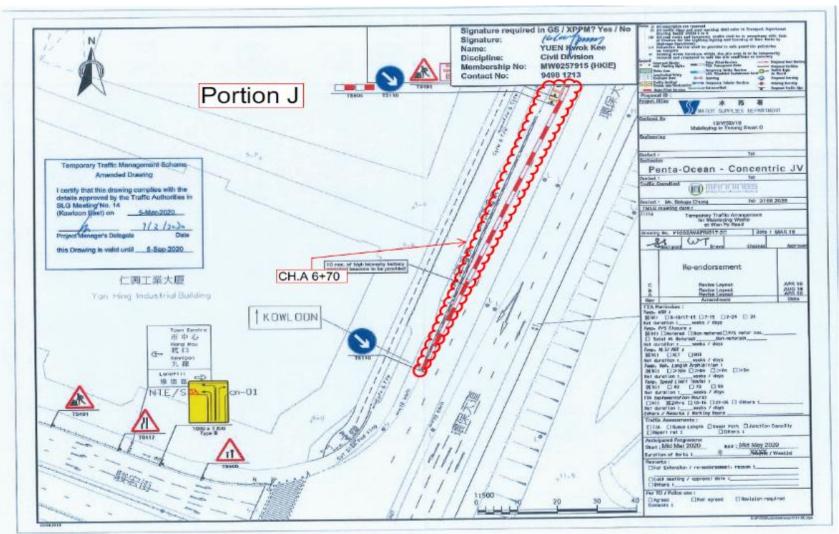


Figure B3b(ii). Location Plan for Portion J - CH.A 6+70



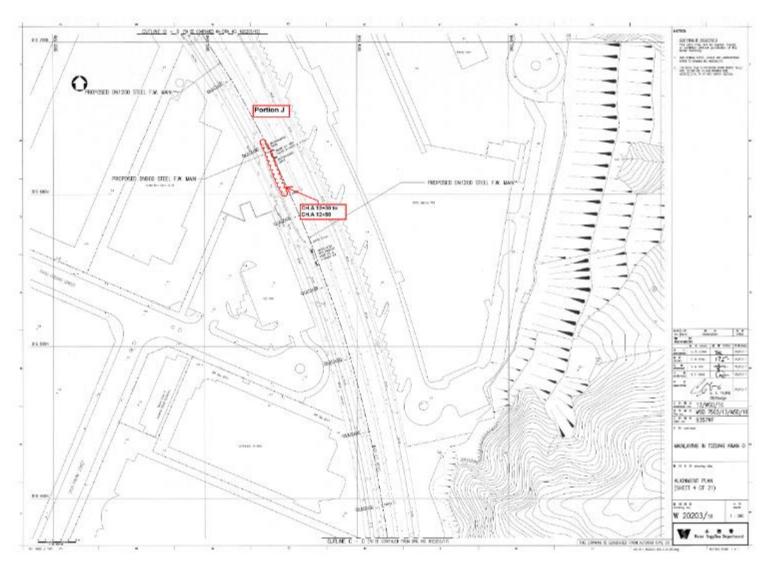


Figure B4. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50



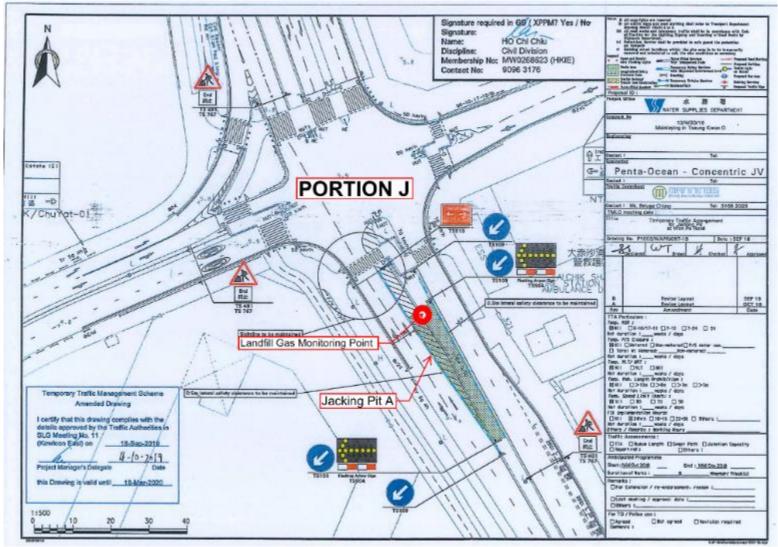


Figure B5. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)



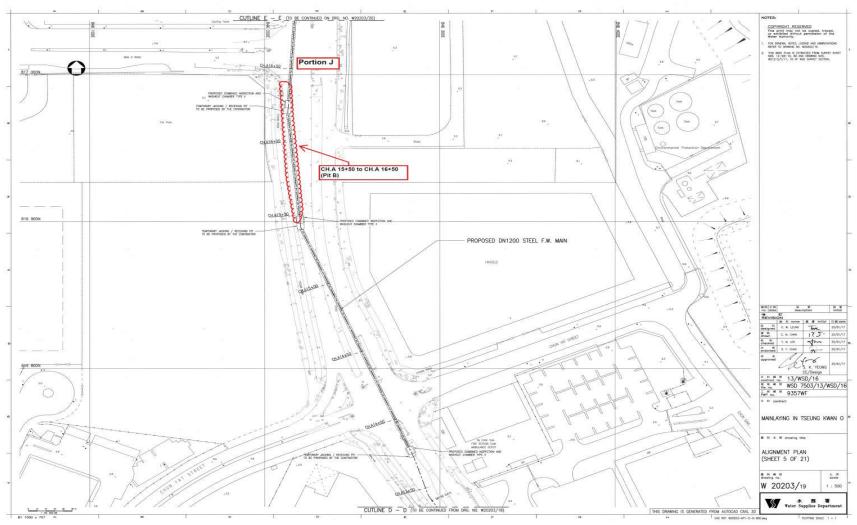


Figure B6. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)



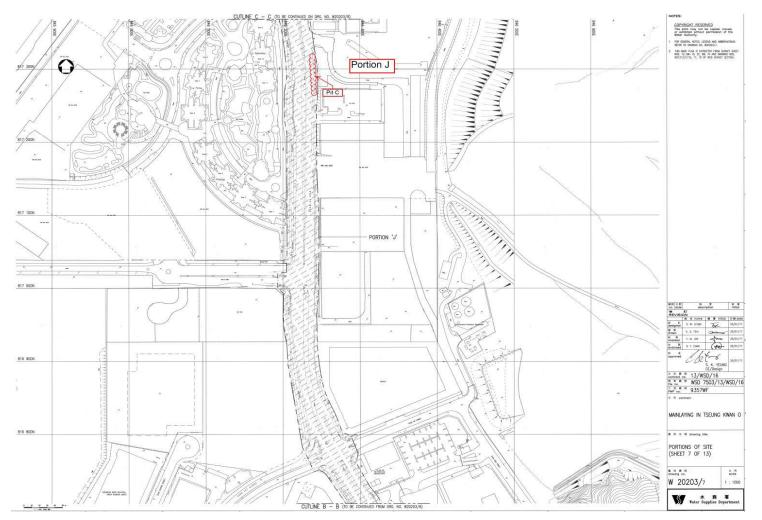


Figure B7. Location Plan for Portion J – CH.A 19+15 to CH.A 19+50 (Pit C)



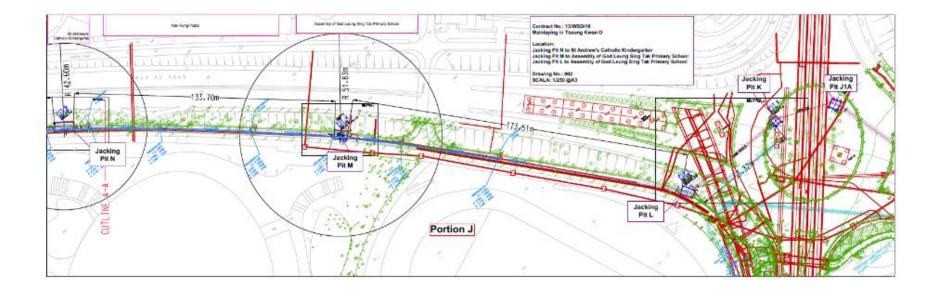


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



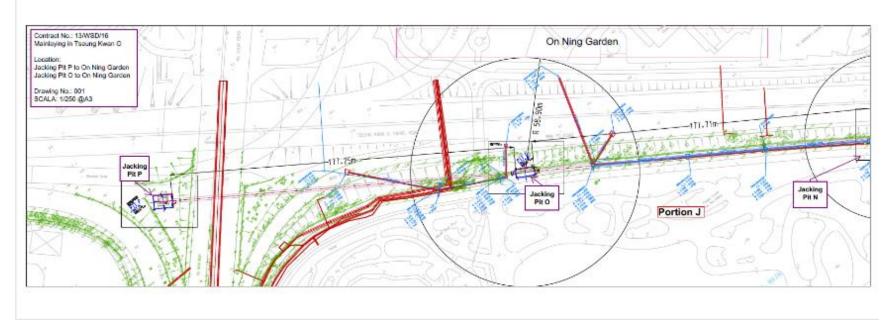


Figure B8b. Location Plan for Portion J – Pit N-O-P



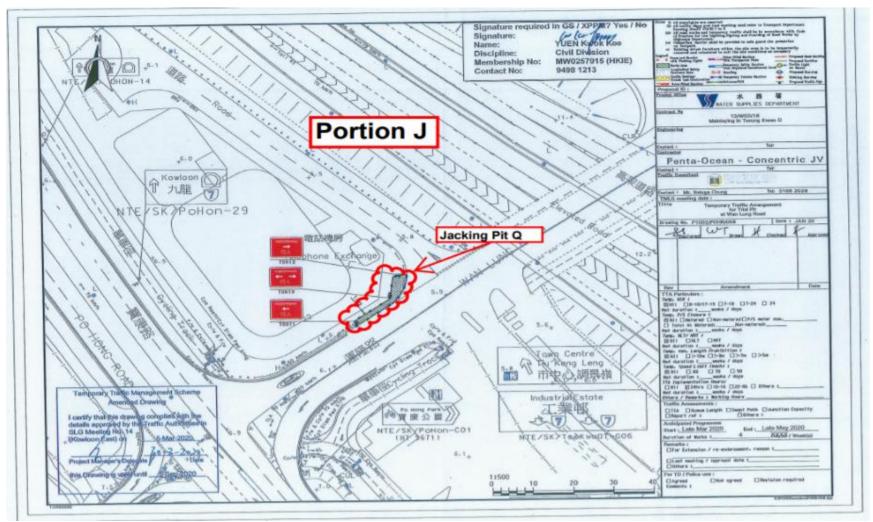


Figure B8c. Location Plan for Portion J – Pit Q



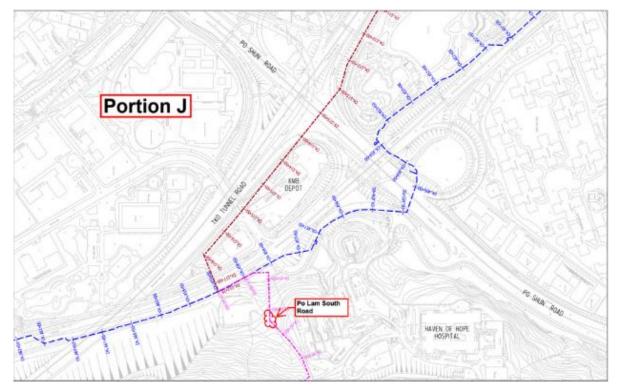


Figure B9a. Location Plan for Mau Wu Tsai 1

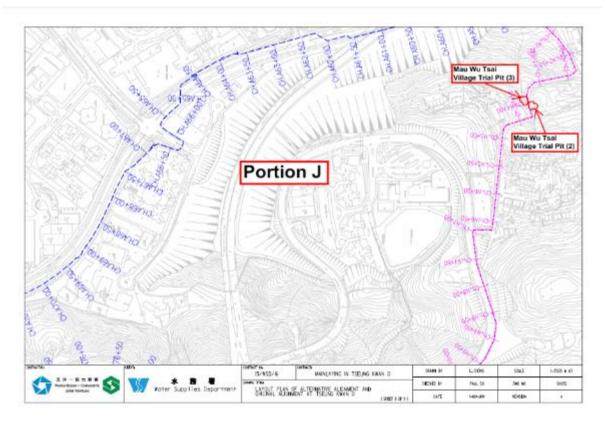


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3



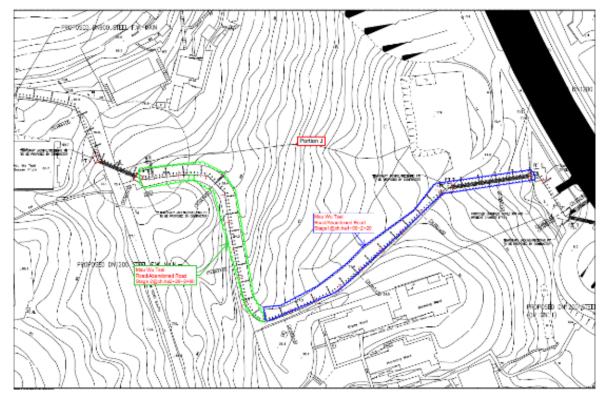


Figure B9c. Abandoned Mau Wu Tsai Road



Figure B10. Location Plan for Jacking Pit F



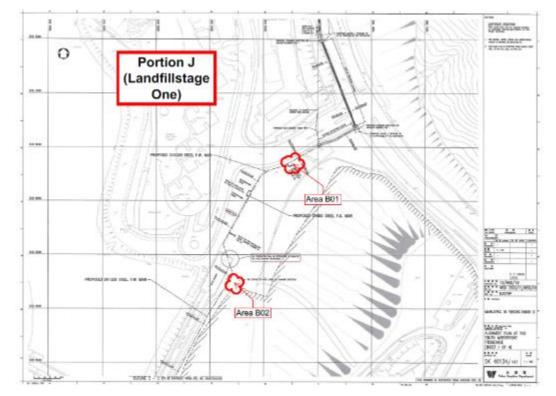


Figure B11a. Location Plan – Landfill Stage 1 (Area B01-B02)

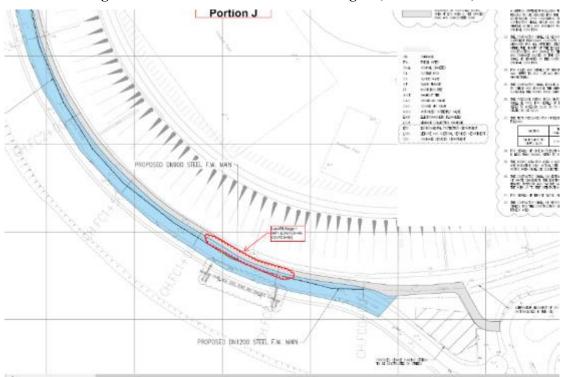


Figure B11b. Location Plan – Landfill Stage 1 (Area FC0+42 -FC0+92)



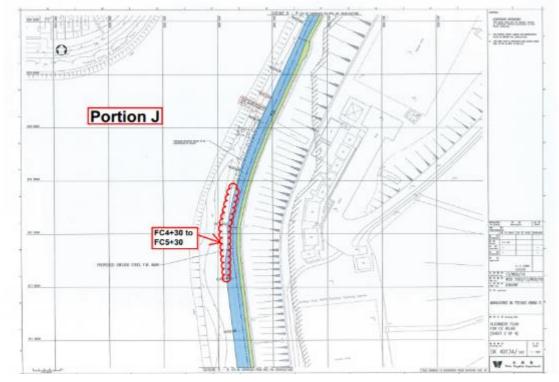


Figure B11c. Location Plan – Landfill Stage 1 (Area FC4+30 -FC5+30)

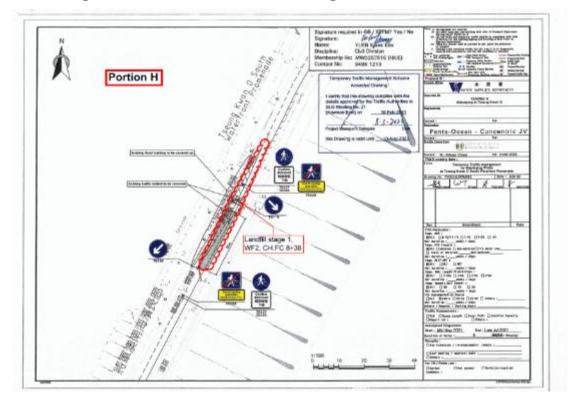


Figure B11d. Location Plan – Landfill Stage 1 (Area FC8+38)





Figure B12. Monitoring Location – Po Lam South Road

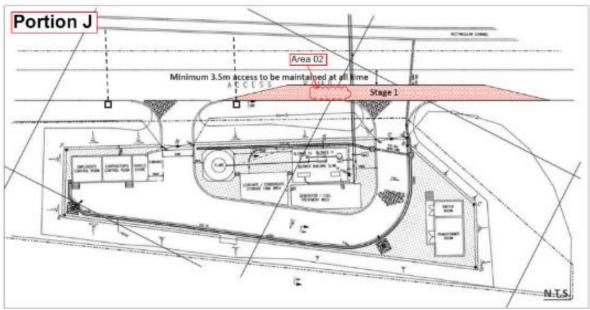


Figure B13. Monitoring Location – Area A02



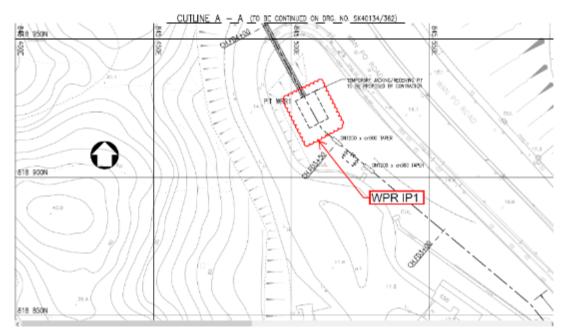


Figure B14. Location Plan for WPR IP1

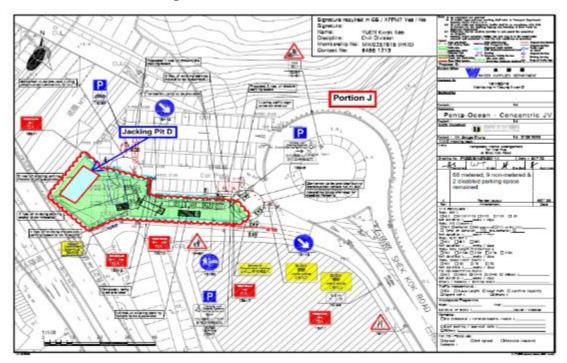


Figure B15. Location Plan for Jacking Pit D



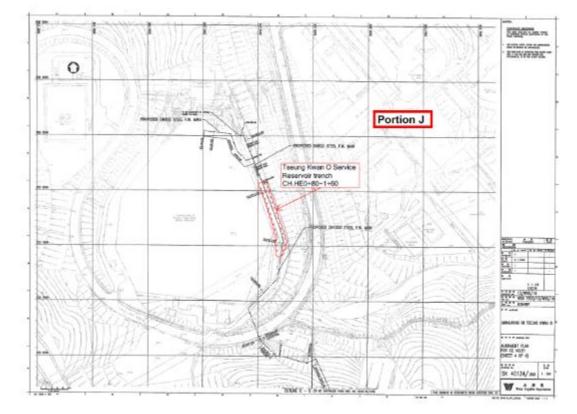


Figure B16. Location Plan for CH.HE0+80-1+60

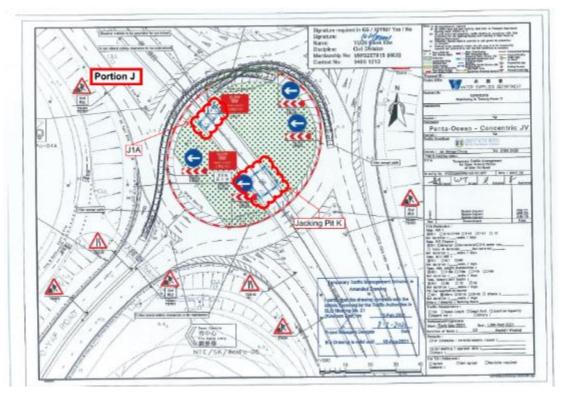


Figure B17. Location Plan for Pit K



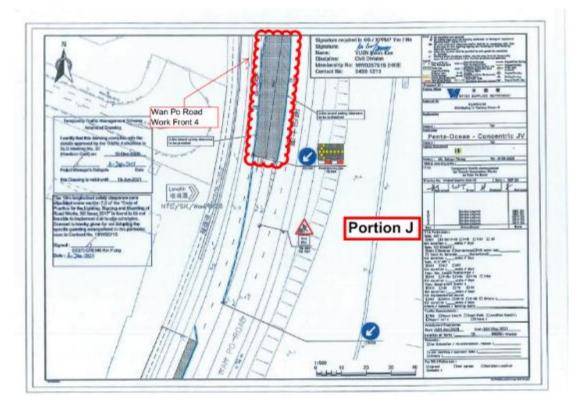


Figure B18a. Location Plan for Wan Po Road 4

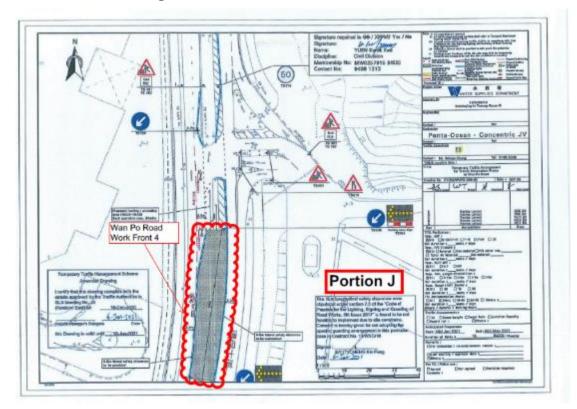


Figure B18b. Location Plan for Wan Po Road 4



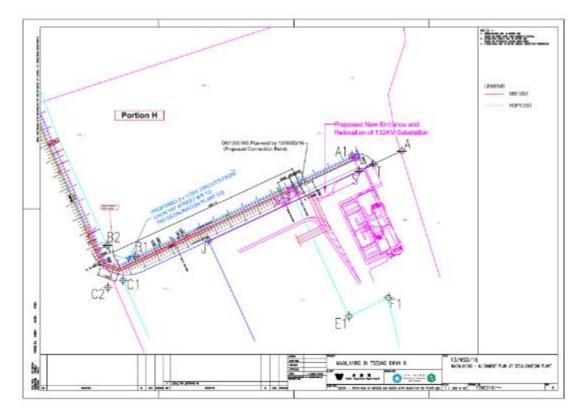


Figure B19a. Location Plan for CH.CT 0+07 - 2+58



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



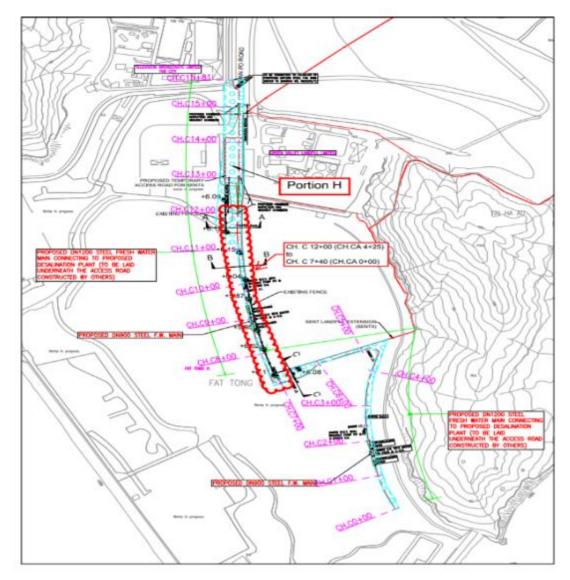


Figure B20. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)



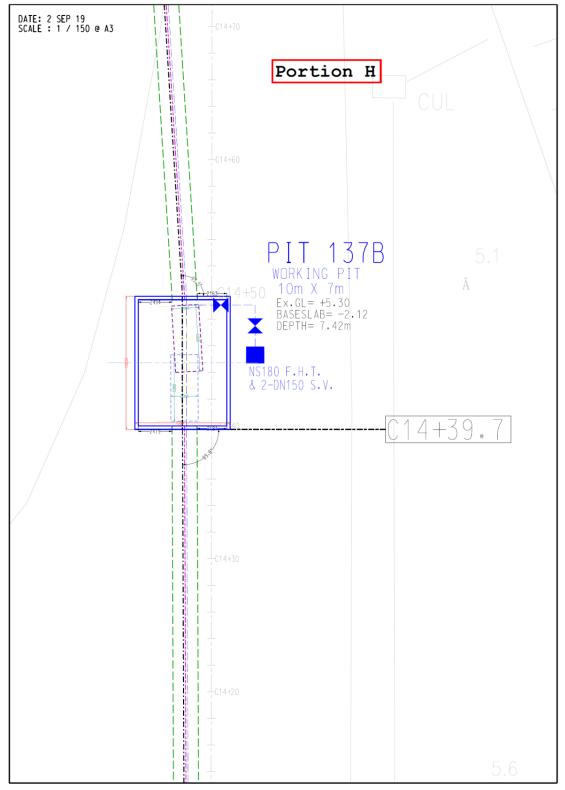


Figure B21a. Location Plan for Portion H– Pit 137B



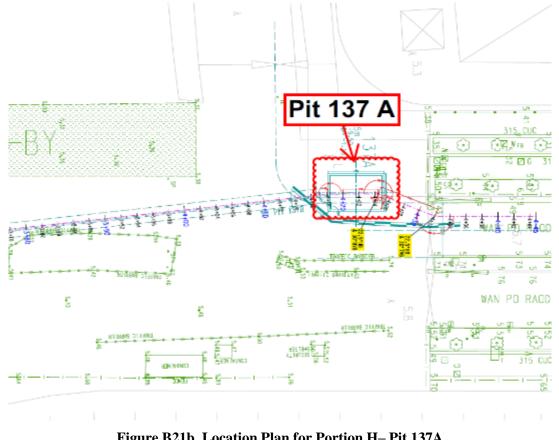


Figure B21b. Location Plan for Portion H– Pit 137A

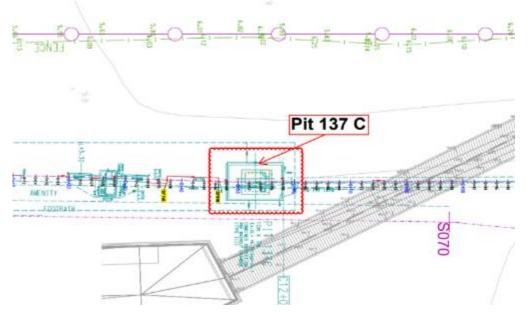


Figure B21c. Location Plan for Portion H– Pit 137C



# Appendix C

# Summary of Implementation Status of Environmental Mitigation



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Air Quality				1				
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)		<b>√</b>		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)		-		Implemented	
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		•		Implemented	
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	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		1		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)	1	1		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	



EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures & main concerns to address	Agent	D	C	0	status	Guidelines
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 issued	
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)		•		Implemented	
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
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	



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation		ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	Č	0	status	Guidelines
Noise								
<b>\$5.7</b>	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,
\$5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		1		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)		1		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)		1		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
\$5.7	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)		4		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)		1		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 <sup>-2</sup> 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)		1		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)		•		Implemented	A Practical Guide for the Reduction of Noise from Construction Works



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent		ementa Stage	-	Implementation status	Relevant Legislation & Guidelines
\$5.7	PMEs will not be used at the works areas near educational institutions with residual impact (i.e. the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	main concerns to address Noise control / During construction	Contractor(s)	D	C ✓	0	Implemented	
\$5.7	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 <sup>-2</sup> may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	-	-		N/A	
\$5.9	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	
\$5.9	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 (e.g. 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)/ ET & IEC		✓		Implemented	



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	-	ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Water Qua	•							
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)		~		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	-
\$6.9	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)		~		Observation issued. Rectified after observation.	ProPECC PN 1/94
\$6.9	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	-
\$6.9	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	-
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	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	-	ementa Stage C	tion	Implementation status	Relevant Legislation & Guidelines
\$6.9	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)		•	•	Observation and reminder issued. Rectified after observation.	-
\$6.12	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)/ ET & IEC		•		Observation and reminder issued. Rectified after observation.	-



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impler Stage	nentatio	on	Implementation Status	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
Waste Ma	nagement	·	·					
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 mobilization/ During construction	Contractor(s)		<b>√</b>		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 mobilization/ 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)		<b>√</b>	<b>√</b>	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 " <i>ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites</i> " 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
\$8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Reminder issued	Waste Disposal Ordinance (Cap 354)



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Implen Stage	nentatio	n	Implementation Status	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
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
\$8.5	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)		1		Reminder issued	-
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)
\$8.5	The management of dredged/ excavated sediment management requirement from $ETWB \ TC(W) \ No.$ 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		•		Implemented	ETWB TC(W) No. 34/200 and Dumping at Se Ordinance (DASO)



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Implen Stage	nentatio	on	Implementation Status	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
\$8.5	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)		<b>√</b>		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)/ ET & IEC		•		Implemented	ETWB TC(W) No. 19/2005 Environmental Management on Construction Sites
88.5	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 quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implen Stage			Implementation Status	Relevant Legislation & Guidelines
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with	main concerns to address Land site/ During Construction, particularly	Contractor(s)	D	C ✓	0	Reminder issued	Air Pollution Control (Construction Dust)
S8.5	tarpaulin or similar fabric. Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	dry season All area/ During construction/ During operation	Contractor(s)/ WSD			<b>~</b>	Implemented	Regulation (Cap 311R) Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
\$8.5	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		¥	<b>·</b>	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 (Chemica Waste) (General) Regulation; Code of Practice on the Packaging Handling and Storage of Chemical Wastes



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Stage	nentatio	n	Implementation Status	Relevant Legislation & Guidelines
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S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		1	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be 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		•	~	Reminder issued	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.	During operation	Contractor(s)/ WSD		1	•	Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implen Stage	nentatio	n	Implementation Status	Relevant Legislation & Guidelines
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S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD				Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		1		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		<b>√</b>		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Implementation Stage			Implementation Status	Relevant Legislation &
		main concerns to address	Agent	D	С	0		Guidelines
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)	~	-		N/A	-
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)		1		Implemented	
\$9.7	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)	<b>·</b>	•		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</i> <i>lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	area/ During detailed design/ During construction	Contractor(s)	•	•		N/A	-
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	-
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		-		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures		Implementation	Implen Stage	nentatio	n	Implementation Status	Relevant Legislation & Guidelines
		main concerns to address	Agent	D	С	0		Guidennes
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	-
\$9.7	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	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	nded measures & Implementation Stage Stotus	1		Stage Implementati		Im		Im		Relevant Legislation & Guidelines
		main concerns to address	8	D	С	0						
Landscape		1	T	1 .	<b>I</b> •	1 4	1					
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	-				
\$11.10 & 11.11	<ul> <li>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:</li> <li>green roofs where practical (ie without equipment on the roof);</li> <li>roadside planting;</li> <li>aesthetic treatment of all structures;</li> <li>vertical greening;</li> <li>screen planting along application site; and</li> <li>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)</li> </ul>	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	~	~	×	Implemented	-				
\$11.10 & 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)	1	-	-	Observation and reminder issued. Rectified after observation.	ETWB TCW No. 3/2006 - Tree Preservation.				



(MM5)
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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		Stage		Implementation Status	Relevant Legislation & Guidelines
T 1000	8	main concerns to address	_	D	С	0				
S12.7	Gas Hazard           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)	1	•	•	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)	<b>√</b>	-	~	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 of methane. carbon dioxide and	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented			



	ovuran	[		1	1	1	[	
S12.7	oxygen.         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)	<b>*</b>	-	-	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)	•	•	1	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)	<ul> <li>Image: A start of the start of</li></ul>	•	~	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)	×	•	<b>~</b>	N/A	
S12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented	



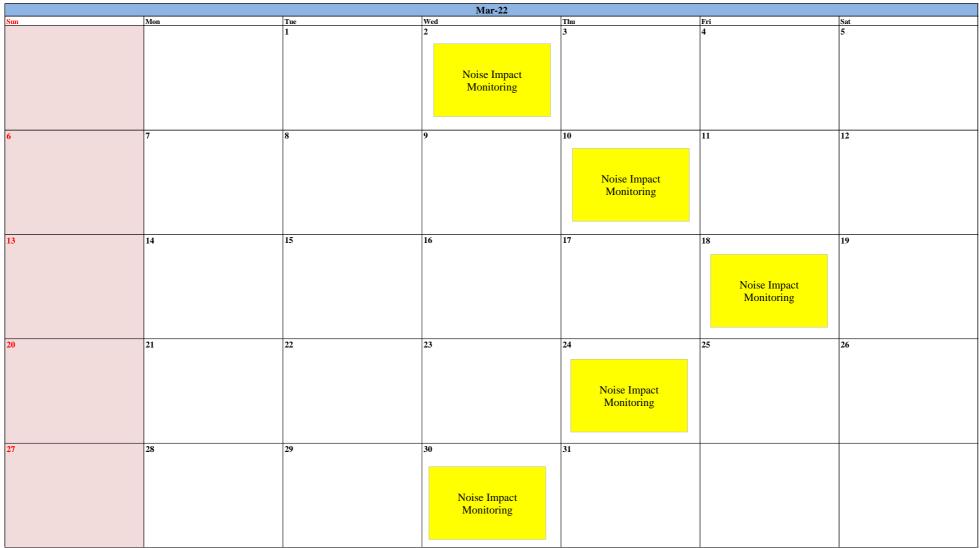
	10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.							
S12.7	All construction, operation and maintenance personnel 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	



# Appendix D

# Impact Monitoring Schedule of the Reporting Month

#### Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Environmental Monitoring Schedule



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



# Appendix E

# NoiseMonitoringCalibration Certificate

Equipment

# Certificate of Calibration

### for

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

### Submitted by:

Customer:	Acuity Sustainability Consulting Limited
Address:	Unit 1908, 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 4k 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:	X
	Calibration Technician

Certified by: Mr. Ng Yan Wa Laboratory Manager

age 1 of 4

Certificate No.: APJ21-029-CC001

Date of issue: 5 July 2021

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:	24.2 °C
Air Pressure:	1004 <b>hPa</b>
<b>Relative Humidity:</b>	60.8 %

# 3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	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. V	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
				94		94.0	Ref
20-140	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-140	dBA	SPL	Fast	04	1000	94.0	Ref
20-140	UDA	SFL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ21-029-CC001





Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class 1							
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB						
					31.5	94.1	±2.0						
					Fast	63	63	94.1	±1.5				
			Fast	Fast		Fast	Fast 94		125	94.1	±1.5		
20-140	dB	dB SPL						0.4	250	94.1	±1.4		
20-140	uD	SL						1 ast	Tast	1 dSt	T ust	T ust	T dot
					1000	94.0	Ref						
					2000	93.8	±1.6						
					4000	93.3	±1.6						

A-weighting

Setting of Unit-under-test (UUT)		Appl	Applied value		IEC 61672 Class 1																
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB														
					31.5	54.9	-39.4 ±2.0														
						63	68.0	-26.2±1.5													
									125	78.0	-16.1±1.5										
20-140	0-140 dBA SPL Fa	Fast	04	04	04	94	04	250	85.4	-8.6±1.4											
201140	ubri	5112	1 ast	1 ast	1 ast	1 451	1 451	1 ast	1 ast	1 dot	1 450	1 ust	1 ust	1 ust	1 dSt	1 dSt	1 431	94	500	90.8	$-3.2 \pm 1.4$
					1000	94.0	Ref														
						2000	95.0	$+1.2 \pm 1.6$													
					4000	94.3	$+1.0 \pm 1.6$														

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1					
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB				
					31.5	91.1	-3.0 ±2.0				
					63	93.3	$-0.8 \pm 1.5$				
	20-140 dBC SPL	Fast		125	93.9	$-0.2 \pm 1.5$					
20-140			94	250	94.1	$-0.0 \pm 1.4$					
20-140	ubc	SIL	Tast	24	500	94.1	-0.0±1.4				
					1000	94.0	Ref				
										2000	93.6
					4000	92.5	$-0.8 \pm 1.6$				

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Certificate No.: APJ21-029-CC001

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

# 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	$\pm 0.05$
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	$\pm$ 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.: APJ21-029-CC001



# **CALIBRATION CERTIFICATE**

Certificate Informat	ion				
Date of Issue	7-Aug-2021	]	C	Certificate Number	MLCN212053S
Customer Information	on				
Company Name	Acuity Sustainab	oility Consulting Lim	ited		
Address	Unit C, 11/F., Fc				
	Nos. 37-39 Wing	g Hing Street.			
	Cheung Sha War				
Equipment-under-To	est (EUT)				
Description	Acoustic Calibra	tor			
Manufacturer	Pulsar	litor			
Model Number	105				
Serial Number	63705				
	03703				
Equipment Number					
Calibration Particul	ar				
Date of Calibration	7-Aug-2021				
Calibration Equipment	4231(MLTE008)	) / AV200063 / 23-Ju	in-23		
	1357(MLTE190)	/ MLEC21/05/02 / 2	26-May-22		
Calibration Procedure	MLCG00, MLCO	G15			
Calibration Conditions	Laboratory	Temperature	23 °C ± 5	о <u>с</u>	
Cambration Conditions	Laboratory	Relative Humidity	$23 C \pm 3$ 55% ± 25%		
	EUT	Stabilizing Time	Over 3 hou		
	LUI	Warm-up Time			
		•	Not applic		
		Power Supply	Internal ba		
Calibration Results		were detailed in the			
	All calibration re	sults were within EU	JT specificat	ion.	
					8
Approved By & Date			S. Statistics		
			1		
			16	K.O. Lo	7-Aug-2021
Clashannanda				11.0.150	1 1146 2021
* Calibration equipment used	for this calibration ar	a traccable to national (	nternational st	andarda	
<ul> <li>The results on this Calibrati</li> </ul>					incertainties quoted will
not include allowance for th					
overloading, mishandling, n					
* MaxLab Calibration Centre					
<ul> <li>The copy of this Certificate prior written approval of Ma</li> </ul>			ted. No part o	t this Certificate may be re	eproduced without the
	ixeau canoration Cer	na e Lillinea.			

Page 1 of 2



Calibration Data		C	ertificate No.	MLCN212053S
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 -		
Caliburated Pro	Kanath	C	hoolend By	KOLO

Keneth Checked By : K.O. Lo Calibrated By : 7-Aug-21 7-Aug-21 Date : Date : Page 2 of 2





# Certificate of Conformity

This instrument was produced under rigorous factory production control and documented standard procedures. It was individually inspected and leak tested and the functioning of the display, backlight, buttons and firmware was verified. The accuracy of each of its primary measurements was individually calibrated and/or validated against standards traceable to the National Institute of Standards and Technology ("NIST") or other calibrated standards in accordance with the documented standard test methods detailed below. This instrument is warrantied to perform in compliance with the published specifications for the specific measurements and features of its model number including specified typical drift since its date of manufacture. (See Kestrel Limited Warranty for full warranty terms.)

# Standards Used in 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-offlight anemometer. The Gill 1350 is calibrated regularly and is traceable to NIST with a maximum combined uncertainty of  $\pm 1.04\%$  within the airspeed range 711.4 to 3930 fpm (3.61 to 19.96 m/s), and  $\pm 1.66\%$ within the airspeed range 170 to 711.4 fpm (0.86 to 3.61 m/s).

### **Temperature:**

Temperature response is verified in comparison with an Ametek DTI-050 Digital Temperature Indicator and STS Reference Sensor. The DTI-050 is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of  $\pm 0.04C$ .

# **Relative Humidity:**

Relative humidity is verified in comparison with an Edgetech HT120 Humidity Transmitter. The HT120 is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of  $\pm 1.0\%$ RH.

# **Barometric Pressure:**

Pressure response is verified against a Vaisala PTB210A Digital Barometer. The Vaisala Barometer is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of  $\pm$  0.3hPa.

Approved By:

Michael Naughton Chief Product Officer, Nielsen-Kellerman

# Product Specifications for Kestrel Weather Meters, Model Numbers 1000-3500

			SENSORS	
SENSOR	ACCURACY	RESOLUTION	SPECIFICATION	NOTES
Wind Speed  Air Speed	(+/-) Larger of 3% of reading, least significant digit or 20 ft/min	0.1 m/s 1 ft/min 0.1 km/h 0.1 mph 0.1 knots 1 B	RANGE 0.6 to 40.0 m/s 118 to 7.874 ft/min 2.2 to 144.0 km/h 1.3 to 89.5 mph 1.2 to 77.8 knots 0 to 12 B	1 inch 25 mm diameter impeller with precision axle and low-friction Zytel® bearings. Startup speed stated as lower limit, readings may be taken down to 0.4 m/s  79 ft min 1.5 km/h  .9 mph  .8 kt after impeller startup. Off-axis accuracy -1% @ 5° off axis; -2% @ 10°; -3% @ 15°. Calibration drift < 1% after 100 hours use at 16 MPH  7 m/s. Replacement impeller (NK PN-0801) field installs without tools (US Patent 5,783,753). Wind speed calibration and testing should be done with triangle on impeller located at the top front face of the Kestrel. Measuring wind speeds above 60 m/s / 134.2 mph can damage the impeller.
Ambient Temperature	0.9 °F 0.5 °C	0.1 °F 0.1 °C	-20.0 to 158.0 °F -29.0 to 70.0 °C	Airflow of 2.2 mph 1 m/s or greater provides fastest response and reduction of insolation effect. For greatest accuracy, avoid direct sunlight on the temperature sensor and prolonged sunlight exposure to the unit in low airflow conditions. Calibration drift is negligible for the life of the product. For further details, see Display & Battery Operational Temperature Limits.
Relative Humidity	3%RH	0.1 %RH	5 to 95% 25°C non-condensing	To achieve stated accuracy, unit must be permitted to equilibrate to external temperature when exposed to large, rapid temperature changes and be kept out of direct sunlight. Calibration drift is typically less than ±0.25% per year.
Pressure	1.5 hPaļmbar 0.044 inHg 0.022 PSI	0.1 hPaļmbar 0.01 inHg 0.01 PSI	25°C/77°F 750-1100 hPa mbar 22.15-32.48 inHg 10.88-15.95 PSI	Monolithic silicon piezo-resistive pressure sensor with second-order temperature correction. Between 1100–1600 mbar, unit will operate with reduced accuracy. Sensor may not operate above 1600 mbar and can be damaged above 6,000 mbar or below 10 mbar. Calibration drift is negligible for the life of the product.

CALCULATED ME	ASUREMENTS		
MEASUREMENT	ACCURACY (+/-)	RESOLUTION	SENSORS EMPLOYED
Altitude	typical: 23.6 ft/7.2 m from 750 to 1100 mBar max: 48.2 ft/14.7 m from 300 to 750 mBar	1 ft 1 m	Pressure, User Input (Reference Pressure)
Barometric Pressure	0.07 inHg 2.4 hPa∣mbar 0.03 PSI	0.01 inHg 0.1 hPalmbar 0.01 PSI	Pressure, User Input (Reference Altitude)
Delta T	3.2 °F 1.8 ℃	0.1 °F 0.1 °C	Temperature, Relative Humidity, Pressure
Dew Point	3.4 °F 1.9 °C 15-95% RH. Refer to Range for Temperature Sensor	0.1 °F 0.1 °C	Temperature, Relative Humidity
Heat Index	7.1°F 4.0°C	0.1 °F 0.1 °C	Temperature, Relative Humidity
Wet Bulb Temperature - Psychrometric	3.2 °F 1.8 ℃	0.1 °F 0.1 °C	Temperature, Relative Humidity, Pressure
Wind Chill	1.6 °F 0.9 ℃	0.1 °F 0.1 °C	Wind Speed, Temperature

ADDITIONAL PROD	UCT INFO
Display	Reflective LCD
Backlight	Standard or dim red (NV models only) backlight. Manual activation with auto-off.
Response Time & Display Update	Display updates every 1 second. After exposure to large environmental changes, all sensors require an equilibration period to reach stated accuracy. Measurements employing RH may require longer periods particularly after prolonged exposure to very high or very low humidity.
Auto Shutdown	After 45 minutes with no key presses.
Clock	Real Time Hour:Minute Display
Certifications	CE certified, RoHS and WEEE compliant. Individually tested to NIST-traceable standards.
Origin	Designed and manufactured in the USA from US and imported components. Complies with Regional Value Content and Tariff Code Transformation requirements for NAFTA Preference Criterion B.
Bluetooth⊛Data Connect	Wireless range up to 100ft. Employs Kestrel Link protocol for data transmission with Kestrel Link Ballistics App. (iOS/Android)
Battery	Requires one CR2032 battery, included. Up to 300 hours of use, reduced by backlight or Bluetooth use.
Shock Resistance	MIL-STD-810g, Transit Shock, Method 516.7 Procedure IV; unit only; impact may damage replaceable impeller.
Sealing	Waterproof (IP67 and NEMA-6)
Display & Battery Operational Temperature Limits	14° F to 131° F  -10 °C to 55 °C Measurements may be taken beyond the limits of the operational temperature range of the display and batteries by maintaining the unit within the operational range and then exposing it to the more extreme environment for the minimum time necessary to take reading.
Storage Temperature	-22.0 °F to 140.0 °F   -30.0 °C to 60.0 °C.
Size & Weight	4.8 x 1.9 x 1.1 in   12.2 x 4.8 x 2.8 cm, 3.6 oz   102 g (Including slip-on cover).

\*Note: Accuracy calculated as uncertainty of the measurement derived from statistical analysis considering the combined effects from primary sensor specifications, circuit conversions, and all other sources of error using a coverage factor of k=2, or two standard deviations (2)

\*\*Note: For Kestrel 1000, 2000, 2500, 3000, 3500 series these specifications are valid for units with a serial number higher than 2262687. If your product has a lower serial number, please reference the K4000 specifications 329011.



# Appendix F

# Event/Action Plan for Noise Exceedance



#### Event and Action Plan for Construction Noise Monitoring

Event	Ac	tion						
	ET		IEC		ER		Co	ontractor
Action Level	1. 2. 3. 4.	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	1. 2. 3.	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	1. 2. 3.	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	2.	Submit noise mitigation proposals, If required, to the IEC and ER Implement noise mitigation proposals.
imit Level		<ol> <li>Notify IEC, ER, EPD and Contractor</li> <li>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.</li> <li>Repeat measurement to confirm findings</li> <li>Increase monitoring frequency</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemente</li> <li>inform IEC, ER and EPD the cause &amp; actions taken for the exceedances</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	ed.	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions to assure their effectiveness and advise the ER &amp;ET accordingly</li> <li>Supervise the implementation of the remedial measures</li> </ol>	2. 3. 4. 5.	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	2. 3. 4.	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



Date					L <sub>eq-5min</sub>	, dB(A)			т	T	т	Limit	
Date	Time	Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)	L <sub>1030mins</sub> , dB(A)	L <sub>9030mins</sub> dB(A)	Level, dB(A)*	Noise Meter
02/03/2022	10:49 - 11:19	Sunny	67.2	67.3	66.8	69.7	65.8	68.1	67.7	70.5	59.6	70.0	Svantek 971
10/03/2022	11:04 - 11:34	Sunny	69.0	69.5	66.9	65.6	67.3	69.5	68.2	71.5	61.0	70.0	Svantek 971
18/03/2022	10:40 - 11:10	Fine	69.6	68.6	68.7	66.0	69.0	66.9	68.3	71.3	60.6	70.0	Svantek 971
24/03/3022	10:59 - 11:29	Cloudy	67.2	68.7	68.9	67.0	68.9	64.0	67.7	71.0	62.9	70.0	Svantek 971

#### Table G 1Summary of Noise Monitoring Result

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



# Appendix F - Monthly Summary Waste Flow Table for 1 March 2022 to 31 March 2022

#### APPENDIX 25.2 to GS

Name of Department: ArchSD/CEDD/DSD/EMSD/HyD/WSD

Contract No.: 13/WSD/16

# Monthly Summary Waste Flow Table for <u>1 March 2022 to 31 March 2022</u>

	Actual Quantities of Inert C&D Materials Generated Monthly						1	Actual Quantities of 1	Non-C&D Waste	s Generated Month	ıly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan 21	2.342	0.145			2.014	0.328		0.065			0.006
Feb 21	2.184	0.240			1.855	0.329		0.058			0.001
Mar 21	2.144	0.028	0.096		1.188	0.860		0.054			0.002
Apr 21											
May 21											
Jun 21											
Sub-total	6.670	0.413	0.096		5.057	1.517		0.177			0.009
Jul 21											
Aug 21											
Sep 21											
Oct 21											
Nov 21											
Dec 21											
Total	6.670	0.413	0.096		5.057	1.517		0.177			0.009

#### 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) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

(3) Broken concrete for recycling into aggregate.

(4) Sources and types of Imported Fill in the reporting period

(i) K. Wah Quarry Company Limited i. Soil: 860 m<sup>3</sup> (1720 tonnes / 32 cars)

ii. Subase: 0 m<sup>3</sup> (0 tonnes / 0 cars)

(5) Total quantity Generated only refers to the actual Quantitates of inert C&D materials generated monthly excluding those that will be recycled (Hard rock & large broken concrete, reused in contract and reused in another contract). Imported fill will not be included in total quantity generated as those C&D materials are not generated from this project.



# 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 (QRAÉ III) --- LEL/02/CO/H2S

#### **UNIT INFORMATION:**

Customer:	Penta Ocean Construction Co Ltd	Serial # :	M02A001708	Módél :	QRAE III
		Firmware :	V2.12	Sensor :	LEL/02/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:			.e	
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-Ga	as Mix: (18% O2, 50ppm	CO, 10ppm H2S, 50% LE	L CH4, BAL N2)	Gas lot #1412983 Cyl# 15
*** Fresh Air Calibrat	ion is highly recommende	d to proceed prior for mea	surement 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 Rotter International Ltd

# Honeywell Protection Through Detection 1349 Moffett Park Drive,

1349 Moffett Park Drive, Sunnyvale, CA 94089 USA Main: 408-952-8200

www.raesystems.com

# Calibration and Test Certificate

Product Name:

Model Number:

Serial Number:

MultiRAE Lite PGM-6208 M01C031772 6/4/2021

#### Calibration Gases:

Calibration/Inspection Date:

#	Gas	Concentration	Balance	Lot#
1	Hydrogen Sulfide( H <sub>2</sub> S )	10ppm		
2	Carbon Monoxide( CO )	50ppm	Nitrogen(N2)	20210508
3	Oxygen(O <sub>2</sub> )	18%		
4	Methane( CH <sub>4</sub> )	50%LEL		
5	Sulfur Dioxide(SO2)	5ppm	Nitrogen(N <sub>2</sub> )	20210114
6	Carbon Dioxide( CO2 )	5000ppm	Nitrogen(N2)	20201203

Test Results:

#	Sensor	Span	UOM
1	LEL	51	%LEL
2	SO,	5.2	ppm
3	COSH (H2S / CO)	10.1/51	ppm
4	Pb O,	17.8	. %
5	CO <sub>2</sub>	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.

Trum Harry-86-05-51832593 Approved By:



		Ca	libration C	erti	ificate	(	GDJ	7
	Cer	t. Ref. No.: BW/X	(T/4TH/16428	Date	2021 06	08 EXI	2-08/	66/202
Customer:	Victory Trenchless E	ngineering Co., Ltd.		Pur	chase Order No	p.: P-17-0488		
	Lot 1477B,			Date	0047		E NO. AR	
	77 Ping Che,			Date	2017 11	09 INVOIC	E NO: AP	
	Fanling, N.T.			Em	ail: emily@vtechk	k.com		
Attn:	Ms Emily Fung	Tel: 35	25 8826	Fax	3525 1088	Mo	bile Phone	
User Detai	ls:							
Gas Detect Calibration	or Model: XT-XW Record:	HM-Y-OR s	Serial No.: MA217-0	22158	Pun	np S/N: 56310		
	Inpectio	n before calibrat	ion		Visual ins	pection	Func	tional Test
Basic Unit	- Case, Clip & Dis	splay etc.			OK			OK
Battery an	d charge etc.				OK			OK
Motorized	Pump			-	OK			OK
Other item	IS							
т	ype of Sensor				Expiry	Date		
Oxygen Se	ensor							
CO & H2S	Sensor							
Combustib	e(LEL) Sensor							
Туре о	f calibration	Date of calibratio	n H2S (ppm)		CO (ppm)	02 (%	6)	LEL (%)
4th Calibratio	n .	2021 06 08	25		100	18		50
	Result of Calib	oration	ок		ок	ок		ОК
Calibration	n Cost: (As per a	ttached invoice)	F.O.C	]				
alibration	remarks: Oxygen s Warranty	ensor replaced by new : Oxygen Sensor 1 yea	one rs warranty					
	L,							
Next cali	bration date o	of this instrum	ent will be :	202	2 06	08	1	
		IMPORTANT	NOTES TO BW	GAS	DETECTO	R USERS	1	
JSERS M			IANUAL THORO				THIS EOU	JIPMENT
			ERVISOR'S INST					
All gas det	ection instrument	ation on the mark	et requires periodi	c calib	ration to accur	ately measure	gas. Calib	ration is only
S.T. Stand	lards.	ed. Bw Technolo	gies quality test ga	ases ar	e made to the I	nighest accura	cy and trac	e-ability to N.
STT Stark	and Mid-		Card a					
Calibrate	d By:	Sara Tse	Saprin	e Hot	line: 2592 212	0 Me Tee	Service D	ant
vanbrate	d by.	Jaia 150	Gervic	in not	1110. 2002 214	w wa.150*	Service D	ohr.
Asi	a Pacific I	ndustrial S	afety Equi	pme	ent	Asia Tec	hnologi	es
	Unit B, 1/F.	, Hing Yip Centre, 3	1 Hing Yip Street,				附科技	
		In Tong, Kowloon, H 1:2592 2100 Fax: 3						



# Appendix J

# Landfill Gas Monitoring Data

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	1/3/2022	0830	Fine / Rain	0	0	0	20.9	20/1011	5.5
		1330	Fine / Rain	0	0	0	20.9	22 /1012	5.5
	1	1700	Fine / Rain	0	0	0	20.9	22/1012	5.5
Area B	1/3/2012	0845	Fine / Rain	0	0	0	20.9	21 /1010	2.5
	C.i	1345	Fine / Rain	0	0	0	20.9	22/1011	2.5
	ι,	1645	Fine / Rain	0	0	0	20.9	27 /1011	2 <i>.</i> 5
								,	

### Name & Designation

Signature

Y

<u>Date</u>

11312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissic	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	1/3/2072.	0830	Fine / Raim	0	0	0	20.9	21/1008.	4.3
	( «	1345	Fine / Rain	0	0	0	20.9	23/1010	4.3
	-1	1645	Fine / Raim	0	0	0	20.9	231100%.	4.3
WPRTTA 4	113/2022	0845	Fine / Raim	0	0	0	20.9	22/1007	4
	<u>(</u>	1345	Fine / Bain	0	0	0	20.9	23 /1010	4
	<u> </u>	1645	Fine / Rain	0	0	0	20.9	23/1010	4
				1,					

Name & Designation

Signature

<u>Date</u>

113/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	2121 2022	0830	Fine / Bain	0	0	0	20.9	20/1011	5.5
		1330	Fine / Rain	0	0	0	20.9	21 /1012	5.5
	٤ /	1700	Fine / Rain	0	0	0	20.9	22/1012	5.5
Area B	2/3/2022	0845	Fine / Rain	0	0	0	20.9	21/10/1	2.5
		1345	Fine / Rain	0	0	0	20.9	22/1013	2.5
· · · · · · · · · · · · · · · · · · ·		1645	Fine / Rain	0	0	0	20.9	22/1012.	2.5
					J				I

Name & Designation

Signature

<u>Date</u>

2/312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	2/3/2022	0830	Fine / Rain	0	0	0	20.9	20/1008	4.3
	~ <	1345	Fine / Rain	0	0	0	20.9	21/1009	4.3
	L /	1645	Fine / Rain	0	0	0	20.9	21/1009.	4.3
WPRTTA 4	2/3/2022	0845	Fine / Raim	0	0	0	20.9	21/1009	4
·····	N C	1345	Fine / Bain	0	0	0	20.9	22/10/0.	4
	41	1645	Fine / Rain	0	0	0	20.9	22/1010.	4
			-						
					l				

Name & Designation

Signature

Date

2/312022 -

Field Operator:

Jock Lee (Competent Person [CO-310218])

8

Laboratory Staff:

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
· · · · · · · · · · · · · · · · · · ·	

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	31312022	0830	Fine / Rain	0	0	0	20.9	18/1010.	5.5
		1330	Fine / Bain	0	0	0	20.9	20/1011.	5.5
		1700	Fine / Bain	0	0	0	20.9	20/1011	5.5
Area B	31312022	0845	Fine / Rain	0	0	0	20.9	191/011	2.5
		1345	Fine / Rain	0	0	0	20.9	20/10/2	2.5
		1645	Fine / Rain	0	0	0	20.9	20/1012	2.5

Name & Designation

Signature

Y

Date

31312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	3/312022	0830	Fine / Bain	0	0	0	20.9	19/1009.	4.3	
		1345	Fine / Bain	0	0	0	20.9	20/1010.	4.3	
	~ I	1645	Fine / Bain	0	0	0	20.9	20/1010-	4.3	
WPRTTA 4	3/3/2022	0845	Fine / Rain	0	0	0	20.9	20/1010.	4	
	с,	1345	Fine / Rain	0	0	0	20.9	20/1009	4	
	~ /	1645	Fine / Bain	0	0	0	20.9	20/103	4	
	a de rélación de la construcción de							and the latence		
						L			l	

Name & Designation

Signature

Date

3/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissic	on	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	3/3/2022	0830	Fine / Rain	0	0	0	20.9	18//011	8.4
	`,	1330	Fine / Rain	0	0	0	20.9	19/1011	8.4
	× /	1700	Fine / Rain	0	0	0	20.9	20/1012.	8.4
Area 137 Pit B	~ ,	0830	Fine / Rain	0	0	0	20.9	19/1010.	8.6
n - natoli v	41	1330	Fine / Rain	0	0	0	20.9	20/1011.	8.6
er et sendater "	1	1700	Fine / Rain	0	0	0	20.9	20/1011.	8.6
Area 137 Pit C	~ (	0830	Fine / Raim	0	0	0	20.9	19/1009.	10
		1330	Fine / Rain	0	0	0	20.9	21/1010	10
	. ». e	1700	Fine / Rain	0	0	0	20.9	20/1010.	10

#### Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

3/3/2022.

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	41312022	0830	Fine / Bain	0	0	0	20.9	20/1011	5.5	
		1330	Fine / Bain	0	0	0	20.9	21/1012	5.5	
	4	1700	Fine / Rain	0	0	0	20.9	21/10/2	5.5	
Area B	41312022	0845	Fine / Rain	0	0	0	20.9	25/10/1	2.5	
	×(	1345	Fine / Rain	0	0	0	20.9	)3/1012	2.5	
	~/	1645	Fine / Bain	0	0	0	20.9	23/1012.	2.5	
	<u> </u>	i na Wallaw In the second s								

Name & Designation

**Signature** 

Y

<u>Date</u>

413/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

		Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	41312022	0830	Fine / Rain	0	0	0	20.9	191103	4.3
	~ <i>i</i>	1345	Fine / Raim	0	0	0	20.9	2/1/010	4.3
	۰.(	1645	Fine / Bain	0	0	0	20.9	21/1010.	4.3
WPRTTA 4	4/3/2022	0845	Fine / Rain	0	0	0	20.9	20/1008.	4
	27	1345	Fine / Raim	0	0	0	20.9	2/1/010	4
	4.6	1645	Fine / Rain	0	0	0	20.9	21/1009	4

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

413/2022.

Laboratory Staff:

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

<b></b>				w	Monitoring well	s / Surface G	as Emissic	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	4/3/2022	0830	Fine / Bain	0	0	0	20.9	20/1009	8.4
	- 1	1330	Fine / Raim	0	0	0	20.9	21/1010	8.4
	~1	1700	Fine / Bain	0	0	0	20.9	21/1010	8.4
Area 137 Pit B	50	0830	Fine / Raim	0	0	0	20.9	21/10/1	8.6
	N.	1330	Fine / Bain	0	0	0	20.9	22/10/1	8.6
	L.	1700	Fine / Bain	0	0	0	20.9	21/1010.	8.6
Area 137 Pit C	~	0830	Fine / Raim	0	0	0	20.9	20/1009	10
	× .	1330	Fine / Rain	0	0	0	20.9	21/1010.	10
	~ {	1700	Fine / Raim	0	0	0	20.9	21/1010.	10

#### Name & Designation

<u>Signature</u>

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Date

41312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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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					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	5/3/2022	0830	Fine / Bain	0	0	0	20.9	19/1011	5.5
		1330	Fine / Ratn	0	0	0	20.9	20/1012.	5.5
-1 <u></u> 1		1700	Fine / Rain	0	0	0	20.9	22/10/3	5.5
Area B	5/3/2022	0845	Fine / Rain	0	0	0	20.9	19/10/1.	2.5
	~	1345	Fine / Bain	0	0	0	20.9	20/1012	2.5
	- 1	1645	Fine / Rain	0	0	0	20.9	21/1012	2.5

Name & Designation

Signature

Y

<u>Date</u>

5/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

8 JUL 2021

			Monitoring wells / Surface Gas Emission						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	5/3/2022	0830	Fine / Bain	0	0	0	20.9	19/1009	4.3
	( i	1345	Fine / Bain	0	0	0	20.9	20/1010	4.3
	~ 1	1645	Fine / Bain	0	0	0	20.9	20/1010.	4.3
WPRTTA 4	~ /	0845	Fine / Rain-	0	0	0	20.9	20/1010	4
	- t	1345	Fine / Raim	0	0	0	20.9	22/1011	4
	4	1645	Fine / Raim	0	0	0	20.9	22/1011	4
		en e							

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

5/31 2022.

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	5/3/2012	0830	Fine / Raim	0	0	0	20.9	19/10/1	8.4	
		1330	Fine / Bain	0	0	0	20.9	20/1012.	8.4	
	· ,	1700	Fine / Bain	0	0	0	20.9	20/1012.	8.4	
Area 137 Pit B	٠ ۲	0830	Fine / Bain	0	0	0	20.9	20/1011	8.6	
	-1	1330	Fine / Bain	0	0	0	20.9	21/1012	8.6	
	41	1700	Fine / Bain	0	0	0	20.9	22/1011	8.6	
Area 137 Pit C	41	0830	Fine / Bain	0	0	0	20.9	21/1011	10	
	4	1330	Fine / Rain	0	0	0	20.9	23/10/2	10	
······································	<u> </u>	1700	Fine / Rain	0	0	0	20.9	23/1012	10	

Name & Designation

<u>Signature</u>

8

Date

5/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
Sample location			Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	7/3/2022	0830	Fine / Bain	0	0	0	20.9	18/1011	5.5
		1330	Fine / Baim	0	0	0	20.9	20/1012	5.5
	~ (	1700	Fine / Bain	0	0	0	20.9	20/1012	5.5
Area B	7/3/2022	0845	Fine / Bain	0	0	0	20.9	20/10/1.	2.5
		1345	Fine / Rain	0	0	0	20.9	22/1011	2.5
	~ 1	1645	Fine / Raim	0	0	0	20.9	21/1010.	2.5
		and the second							
				l	I		<u> </u>		L

Name & Designation

Signature

8

Date

7/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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				

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	7/3/2022	0830	Fine / Rain	0	0	0	20.9	18/1007.	4.3	
	<u> </u>	1345	Fine / Bain	0	0	0	20.9	20/1010	4.3	
	~ I	1645	Fine / Rain	0	0	0	20.9	20/1010.	4.3	
WPRTTA 4	٢,	0845	Fine / Rain	0	0	0	20.9	18/1010	4	
	and a	1345	Fine / Bain	0	0	0	20.9	21/1002.	4	
	å. ,	1645	Fine / Rain	0	0	0	20.9	20/1009.	4	
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		and the second se								
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									·····	

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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7/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	7/3/2022	0830	Fine / Rain	0	0	0	20.9	18/1009.	8.4			
		1330	Fine / Bain	0	0	0	20.9	20/1011 .	8.4			
	-1	1700	Fine / Bain	0	0	0	20.9	20/10/11.	8.4			
Area 137 Pit B	~ /	0830	Fine / Bain	0	0	0	20.9	19/1010.	8.6			
	٤.	1330	Fine / Rain	0	0	0	20.9	21/1011	8.6			
	~	1700	Fine / Bain	0	0	0	20.9	21/1010	8.6			
Area 137 Pit C	41	0830	Fine / Bain	0	0	0	20.9	20/1010.	10			
	47	1330	Fine / Rain	0	0	0	20.9	22/1011	10			
	× 6	1700	Fine / Rain	0	0	0	20.9	22/10/11	10			

Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Checked by:

Y

71312022.

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

				Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area A	8/3/2022	0830	Fine / Raim	0	0	0	20.9	16/1010	5.5			
		1330	Fine / Bain	0	0	0	20.9	17/1011	5.5			
	~ /	1700	Fine / Rain	0	0	0	20.9	17/10/1	5.5			
Area B	81312022	0845	Fine / Rain	0	0	0	20.9	17/1012.	2.5			
		1345	Fine / Rain	0	0	0	20.9	1811011	2.5			
	-,	1645	Fine / Bain	0	0	0	20.9	18/1011.	2.5			
							<u> </u>					

Name & Designation

Signature

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<u>Date</u>

81312022,

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

28 JUL 2021				
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			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	8/3/2022	0830	Fine / Bain	0	0	0	20.9	16/1002	4.3	
	L (	1345	Fine / Bain	0	0	0	20.9	18/1010	4.3	
	۷,	1645	Fine / Rain	0	0	0	20.9	1711009	4.3	
WPRTTA 4	~ (	0845	Fine / Rain	0	0	0	20.9	19/10/0	4	
	~	1345	Fine / Rain	0	0	0	20.9	1811002	4	
		1645	Fine / Rain	0	0	0	20.9	18/1009	4	
		and the state								
	- fear-and a state -				1.15 a. 100					
		-Andrew P								

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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8/3/2022.

Laboratory Staff:

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					

			Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	8/3/2022	0830	Fine / Bain	0	0	0	20.9	17/1010.	8.4			
		1330	Fine / Rain	0	0	0	20.9	181/011	8.4			
	-1	1700	Fine / Bain	0	0	0	20.9	19/1011.	8.4			
Area 137 Pit B	-1	0830	Fine / Bain	0	0	0	20.9	1811007	8.6			
and the second se	-,	1330	Fine / Bain	0	0	0	20.9	20/1010.	8.6			
	× (	1700	Fine / Bain	0	0	0	20.9	20/10/0	8.6			
Area 137 Pit C	~ <sub>i</sub>	0830	Fine / Rain	0	0	0	20.9	181/010.	10			
	۷.	1330	Fine / Bain	0	0	0	20.9	19/1011	10			
	×.	1700	Fine / Bain	0	0	0	20.9	19/1011.	10			

#### Name & Designation

<u>Signature</u>

Y

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

8/3/202

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

Dates calibrated				
28 JUL 2021				

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	9/3/2022	0830	Fine / Rain	0	0	0	20.9	17/1011	5.5		
	- · ·	1330	Fine / Raim	0	0	0	20.9	19/1012	5.5		
		1700	Fine / Rain	0	0	0	20.9	19/1012	5.5		
Area B	9/3/2022	0845	Fine / Bain	0	0	0	20.9	18/1010	2.5		
		1345	Fine / Rain	0	0	0	20.9	19/1000	2.5		
		1645	Fine / Rain	0	0	0	20.9	19/1011	2.5		
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Name & Designation

<u>Signature</u>

Y

Date

91312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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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					Monitoring wells	s / Surface G	as Emissio	'n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	8/3/2022	0830	Fine / Bain	0	0	0	20.9	171/007.	4.3
	NY NY	1345	Fine / Rain	0	0	0	20.9	19/1010	4.3
	4	1645	Fine / Bain	0	0	0	20.9	20 (1010.	4.3
WPRTTA 4	~1	0845	Fine / Bain	0	0	0	20.9	18/10/0	4
	4	1345	Fine / Raim	0	0	0	20.9	20/1011	4
		1645	Fine / Rain	0	0	0	20.9	20/10/11.	4
· · · · · · · · · · · · · · · · · · ·									

Name & Designation

Signature

X

<u>Date</u>

91312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

				Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	9/312022	0830	Fine / Bain	0	0	0	20.9	19/1009	8.4			
		1330	Fine / Rain	0	0	0	20.9	21/1010.	8.4			
	~ (	1700	Fine / Bain	0	0	0	20.9	21/1010.	8.4			
Area 137 Pit B	<u> </u>	0830	Fine / Bain	0	0	0	20.9	20/1010.	8.6			
er mel Henrand <sup>e</sup> - <sup>19</sup>	· ·	1330	Fine / Bain	0	0	0	20.9	21 /1011	8.6			
	~	1700	Fine / Bain	0	0	0	20.9	22/1012.	8.6			
Area 137 Pit C	57	0830	Fine / Bain	0	0	0	20.9	21/1011.	10			
400-1	٠,	1330	Fine / Raim	0	0	0	20.9	22/1012-	10			
	6. g	1700	Fine / Bain	0	0	0	20.9	21/1011	10			

#### Name & Designation

<u>Signature</u>

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<u>Date</u>

9/312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	10/3/2022	0830	Fine / Rain	0	0	0	20.9	19/1010.	5.5
		1330	Fine / Rain	0	0	0	20.9	20/10/1	5.5
<u> </u>	×,	1700	Fine / Bath	0	0	0	20.9	21/1011.	5.5
Area B	10/3/2022	0845	Fine / Rain	0	0	0	20.9	20/1011	2.5
	~ /	1345	Fine / Rain	0	0	0	20.9	22/1010.	2.5
	×,	1645	Fine / Rain	0	0	0	20.9	21/1011	2.5

Name & Designation

Signature

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<u>Date</u>

94/0/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	10/312022	0830	Fine / Ratin	0	0	0	20.9	19/1009	4.3
	~ (	1345	Fine / Bain	0	0	0	20.9	2/1010	4.3
	4	1645	Fine / Bain	0	0	0	20.9	20/1010.	4.3
WPRTTA 4		0845	Fine / Rain	0	0	0	20.9	19/1010.	4
	4	1345	Fine / Bain	0	0	0	20.9	22/1011	4
	~	1645	Fine / Bain	0	0	0	20.9	22/1011	4
	,								
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Name & Designation

Signature

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

10/3/2022.

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	'n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	10/312022	0830	Fine / Bain	0	0	0	20.9	20/1011	8.4
		1330	Fine / Bain	0	0	0	20.9	22/1011	8.4
	~1	1700	Fine / Bain	0	0	0	20.9	21/1010.	8.4
Area 137 Pit B	×1	0830	Fine / Rain	0	0	0	20.9	19/1010.	8.6
	1	1330	Fine / Raim	0	0	0	20.9	22/1011	8.6
		1700	Fine / Bain	0	0	0	20.9	20/1010.	8.6
Area 137 Pit C	L L J	0830	Fine / Rain	0	0	0	20.9	20/1010.	10
a d'audra tratta		1330	Fine / Rain	0	0	0	20.9	22/1011	10
	<u></u>	1700	Fine / Rain	0	0	0	20.9	20/1011	10

#### Name & Designation

<u>Signature</u>

Y

<u>Date</u>

10/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

	Date of measurement		Monitoring wells / Surface Gas Emission								
Sample location		Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	11/3/2022	0830	Fine / Bain	0	0	0	20.9	20/1010	5.5		
	~ \	1330	Fine / Rain	0	0	0	20.9	22/1011	5.5		
	-1	1700	Fine / Rain	0	0	0	20.9	22/1011	5.5		
Area B	11 13 12022	0845	Fine / Bain	0	0	0	20.9	21/1010	2.5		
	~ ~ ~	1345	Fine / Raim	0	0	0	20.9	23/101	2.5		
	w t	1645	Fine / Rain-	0	0	0	20.9	23/10/1	2.5		

Name & Designation

<u>Signature</u>

<u>Date</u>

11/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	11/3/2022	0830	Fine / Bain	0	0	0	20.9	20/1002.	4.3	
	· · · ·	1345	Fine / Bain	0	0	0	20.9	22/1010	4.3	
	~ /	1645	Fine / Rain	0	0	0	20.9	22/10/0	4.3	
WPRTTA 4		0845	Fine / Rain	0	0	0	20.9	1911010.	4	
	~1	1345	Fine / Rain	0	0	0	20.9	22/1011	4	
		1645	Fine / Bain	0	0	0	20.9	23/1012.	4	
								- promotion and		

Name & Designation

Signature

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

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11/3/2022.

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	11/3/2022	0830	Fine / Bain	0	0	0	20.9	21/1011	8.4	
		1330	Fine / Bain	0	0	0	20.9	23/1012	8.4	
	N.	1700	Fine / Rain	0	0	0	20.9	23/1012-	8.4	
Area 137 Pit B	~ (	0830	Fine / Bain	0	0	0	20.9	20/1010.	8.6	
	~1	1330	Fine / Rain	0	0	0	20.9	23/1011.	8.6	
		1700	Fine / Rain	0	0	0	20.9	21/1010.	8.6	
Area 137 Pit C	× 7	0830	Fine / Rain	0	0	0	20.9	20/1009.	10	
	×,	1330	Fine / Bain	0	0	0	20.9	21/1010.	10	
	×.,	1700	Fine / Bain	0	0	0	20.9	21/1010.	10	

Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

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11/31 2022.

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	on	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	12/3/2022	0830	Fine / Rain	0	0	0	20.9	22/10/1	5.5
		1330	Fine / Rain	0	0	0	20.9	231/012	5.5
		1700	Fine / Rain	0	0	0	20.9	23/1012	5.5
Area B	12/3/2022	0845	Fine / Rain	0	0	0	20.9	23/10/1	2.5
		1345	Fine / Rain	0	0	0	20.9	24/1011	2.5
	ζ.	1645	Fine / Rain	0	0	0	20.9	23/1012	2.5
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Name & Designation

Signature

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<u>Date</u>

121312022,

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	12/3/2022.	0830	Fine / Rain	0	0	0	20.9	2/1/00%.	4.3
		1345	Fine / Rain	0	0	0	20.9	23/1010.	4.3
		1645	Fine / Bain	0	0	0	20.9	23/1010.	4.3
WPRTTA 4	~	0845	Fine / Rain	0	0	0	20.9	20/1010	4
	5	1345	Fine / Rain	0	0	0	20.9	22/10/11	4
	< <b>1</b>	1645	Fine / Rain	0	0	0	20.9	23/1011	4
						l			

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

12/3/2022.

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	12/3/2022	0830	Fine / Bain	0	0	0	20.9	21/1011	8.4
		1330	Fine / Raim	0	0	0	20.9	237/012	8.4
	41	1700	Fine / Bain	0	0	0	20.9	22/1012.	8.4
Area 137 Pit B	× 1	0830	Fine / Bain	0	0	0	20.9	20/1010.	8.6
	- 1	1330	Fine / Baim	0	0	0	20.9	22/1011	8.6
		1700	Fine / Bain	0	0	0	20.9	22//011	8.6
Area 137 Pit C		0830	Fine / Bain	0	0	0	20.9	21/1011	10
	× 1	1330	Fine / Bain	0	0	0	20.9	22 1/010.	10
	× 1	1700	Fine / Rain	0	0	0	20.9	22/1010.	10

Name & Designation

<u>Signature</u>

Date

12/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	141312022	0830	Fine / Bain	0	0	0	20.9	231/011	5.5
	<u>,</u> (	1330	Fine / Pain	0	0	0	20.9	24/1012.	5.5
	11	1700	Fine / Rain	0	0	0	20.9	24/1012	5.5
Area B	141312022	0845	Fine / Bain	0	0	0	20.9	24/1011	2.5
		1345	Fine / Bain	0	0	0	20.9	23/1010	2.5
		1645	Fine / Rain	0	0	0	20.9	23/1010	2.5
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Name & Designation

Signature

Y

Date

21413/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	141312022	0830	Fine / Baim	0	0	0	20.9	23/1009	4.3	
· · · · · · · · · · · · · · · · · · ·		1345	Fine / Rain	0	0	0	20.9	24/1008.	4.3	
	4	1645	Fine / Raim	0	0	0	20.9	25/1008	4.3	
WPRTTA 4	~ (	0845	Fine / Bain	0	0	0	20.9	24/1010.	4	
	~ /	1345	Fine / Rain	0	0	0	20.9	25/1011	4	
		1645	Fine / Rain	0	0	0	20.9	25/1010	4	
				energia yan						
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Name & Designation

Signature

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Date

14/312022.

Jock Lee (Competent Person [CO-310218])

Field Operator:

Laboratory Staff:

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
an an Anna an A	

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	14/3/2022	0830	Fine / Bain	0	0	0	20.9	23/1010-	8.4		
		1330	Fine / Bain	0	0	0	20.9	24/1011	8.4		
	~,	1700	Fine / Bain	0	0	0	20.9	24/10/1	8.4		
Area 137 Pit B		0830	Fine / Bain	0	0	0	20.9	24/1011	8.6		
	C.	1330	Fine / Bain	0	0	0	20.9	25/10/1	8.6		
1	× ,	1700	Fine / Bain	0	0	0	20.9	24 /1012.	8.6		
Area 137 Pit C	~ .	0830	Fine / Bain	0	0	0	20.9	22/1007.	10		
	~7	1330	Fine / Rain	0	0	0	20.9	2411010.	10		
	4.,	1700	Fine / Rain	0	0	0	20.9	24/10/0.	10		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Checked by:

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141 31 2022.

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

		Sampling time		Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement		Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	15/3/2022	0830	Fine / Rain	0	0	0	20.9	23/1011	5.5		
		1330	Fine / Rain	0	0	0	20.9	24/1012	5.5		
	~,	1700	Fine / Rain	0	0	0	20.9	25/1012	5.5		
Area B	181312022	0845	Fine / Bain	0	0	0	20.9	24/1010	2.5		
		1345	Fine / Rain	0	0	0	20.9	25/1011	2.5		
	L ;	1645	Fine / Rain	0	0	0	20.9	25/1011	2.5		
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Name & Designation

<u>Signature</u>

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<u>Date</u>

15/312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	15/3/2022	0830	Fine / Raim	0	0	0	20.9	2411007	4.3	
	~ 1	1345	Fine / Rain	0	0	0	20.9	28/1010	4.3	
	~/	1645	Fine / Rain	0	0	0	20.9	25/1010	4.3	
WPRTTA 4	N1	0845	Fine / Bain	0	0	0	20.9	23/1008	4	
	× r	1345	Fine / Rain	0	0	0	20.9	25/10/1	4	
	``	1645	Fine / Bain	0	0	0	20.9	25/1011	4	
	ami (de 1).		• •							
		······						<u></u>		

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

15/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	15/3/2022	0830	Fine / Baim	0	0	0	20.9	23/1010.	8.4		
		1330	Fine / Bain	0	0	0	20.9	2411011	8.4		
	-,	1700	Fine / Rain	0	0	0	20.9	24/1011	8.4		
Area 137 Pit B	× 1	0830	Fine / Bain	0	0	0	20.9	74/1009	8.6		
		1330	Fine / Bain	0	0	0	20.9	25/1011	8.6		
	4	1700	Fine / Bain	0	0	0	20.9	25/1010	8.6		
Area 137 Pit C	- f	0830	Fine / Rain	0	0	0	20.9	231/010.	10		
	~/	1330	Fine / Rain	0	0	0	20.9	22/1011	10		
	~.	1700	Fine 7 Raim	0	0	0	20.9	23/1010.	10		

Name & Designation

<u>Signature</u>

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Date

1513/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

	Date of measurement	Sampling time		Monitoring wells / Surface Gas Emission							
Sample location			Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	16/3/202	0830	Fine / Rain	0	0	0	20.9	22/1010.	5.5		
		1330	Fine / Rain	0	0	0	20.9	23/1011	5.5		
		1700	Fine / Bain	0	0	0	20.9	23/1011	5.5		
Area B	16 (312022	0845	Fine / Rain	0	0	0	20.9	27/1007	2.5		
-		1345	Fine / Rain	0	0	0	20.9	2311010	2.5		
	~	1645	Fine / Bain	0	0	0	20.9	23/1010.	2.5		
· · · · · · · · · · · · · · · · · · ·											

Name & Designation

Signature

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Date

16/312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	161312022	0830	Fine / Bain	0	0	0	20.9	22/1009	4.3
		1345	Fine / Rain-	0	0	0	20.9	23/1010.	4.3
	V	1645	Fine / Bain	0	0	0	20.9	23/1010.	4.3
WPRTTA 4	~/	0845	Fine / Rain	0	0	0	20.9	23/1010	4
	U U	1345	Fine / Baim	0	. 0	0	20.9	24/1011	4
	~/	1645	Fine / Bain	0	0	0	20.9	24/1011.	4
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Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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\$16/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	16/3/2022	0830	Fine / Bain	0	0	0	20.9	22/1010.	8.4
		1330	Fine / Bain	0	0	0	20.9	23/1011	8.4
	×,	1700	Fine / Bain	0	0	0	20.9	23/1011	8.4
Area 137 Pit B	· ,	0830	Fine / Batin	0	0	0	20.9	23/1009	8.6
	٤,	1330	Fine / Rain	0	0	0	20.9	23/1010	8.6
••••••••••••••••••••••••••••••••••••••	c,	1700	Fine / Rain	0	0	0	20.9	22/1009.	8.6
Area 137 Pit C	C,	0830	Fine / Bain	0	0	0	20.9	21/1010.	10
	.,	1330	Fine / Rain	0	0	0	20.9	23/1011	10
	٢,	1700	Fine / Rain	0	0	0	20.9	231/011	10

#### Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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161312022.

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	171312022	0830	Fine / Bain	0	0	0	20.9	23/1009.	5.5		
		1330	Fine / Rain	0	0	0	20.9	2411010	5.5		
	~ 1	1700	Fine / Bain	0	0	0	20.9	2411010.	5.5		
Area B	171312022	0845	Fine / Rain	0	0	0	20.9	24/10/1	2.5		
		1345	Fine / Bain	0	0	0	20.9	23/10/1	2.5		
	<u> </u>	1645	Fine / Rain	0	0	0	20.9	2311011	2.5		
		ala a su a									

Name & Designation

Signature

<u>Date</u>

17/3/202

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	17/3/2012	0830	Fine / Bain	0	0	0	20.9	24/608.	4.3	
	λ(	1345	Fine / Rain	0	0	0	20.9	26/1010	4.3	
	-1	1645	Fine / Rain	0	0	0	20.9	25/1010	4.3	
WPRTTA 4	N/	0845	Fine / Bain	0	0	0	20.9	23/1010	4	
	~(	1345	Fine / Bain	0	0	0	20.9	25/1011	4	
	S.	1645	Fine / Rain	0	0	0	20.9	25/1011	4	
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Name & Designation

Signature

Date

17/312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

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Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	171312022	0830	Fine / Rain	0	0	0	20.9	231/010	8.4		
	-,	1330	Fine / Bain	0	0	0	20.9	24/1011	8.4		
	~	1700	Fine / Bain	0	0	0	20.9	24/1011	8.4		
Area 137 Pit B	~	0830	Fine / Bain	0	0	0	20.9	24/1011	8.6		
	~	1330	Fine / Rain	0	0	0	20.9	25/1012	8.6		
	4	1700	Fine / Raim	0	0	0	20.9	25/1012.	8.6		
Area 137 Pit C	1.	0830	Fine / Bain	0	0	0	20.9	24/1010.	10		
	**	1330	Fine / Bain	0	0	0	20.9	25/00/10/1	10		
	N	1700	Fine / Rain	0	0	0	20.9	28/10/11	10		

#### Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Checked by:

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17/372022.

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

				Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area A	13/2022	0830	Fine / Rain	0	0	0	20.9	23/1009	5.5			
		1330	Fine / Rain	0	0	0	20.9	26/1010	5.5			
	<.,	1700	Fine / Raim	0	0	0	20.9	24/1011	5.5			
Area B	18/3/2022	0845	Fine / Rain	0	0	0	20.9	24/1010.	2.5			
		1345	Fine / Rain	0	0	0	20.9	25/1011	2.5			
	· ,	1645	Fine / Rain	0	0	0	20.9	25/1011	2.5			
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Name & Designation

Signature

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<u>Date</u>

18/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

		a and the second difference of a second difference of the second differ	Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	18/3/2022	0830	Fine / Bain	0	0	0	20.9	23/102	4.3	
		1345	Fine / Raim	0	0	0	20.9	251 1010.	4.3	
		1645	Fine / Bain	0	0	0	20.9	25/1010.	4.3	
WPRTTA 4		0845	Fine / Raim	0	0	0	20.9	24/1008	4	
	17	1345	Fine / Rain	0	0	0	20.9	26/1010	4	
	× /	1645	Fine / Bain	0	0	0	20.9	26/1010.	4	
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Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

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18/3/2022.

Laboratory Staff:

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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			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	18/3/2020	0830	Fine / Bain	0	0	0	20.9	23/1/011	8.4		
		1330	Fine / Bain	0	0	0	20.9	251/012	8.4		
	~	1700	Fine / Bain	0	0	0	20.9	25/1012	8.4		
Area 137 Pit B		0830	Fine / Bain	0	0	0	20.9	24/1010.	8.6		
		1330	Fine / Bain	0	0	0	20.9	25/1011	8.6		
	~(	1700	Fine / Rain	0	0	0	20.9	28/1011	8.6		
Area 137 Pit C	4	0830	Fine / Bain	0	0	0	20.9	22/1010.	10		
	<i>م.</i> م	1330	Fine / Rain	0	0	0	20.9	24/10/1	10		
	۲,	1700	Fine / Bain	0	0	0	20.9	23/1010.	10		

#### Name & Designation

<u>Signature</u>

<u>Date</u>

81312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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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

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	19/3/2022.	0830	Fine / Bain	0	0	0	20.9	231/011	5.5		
		1330	Fine / Bain	0	0	0	20.9	23/1011	5.5		
	~ /	1700	Fine / Bain	0	0	0	20.9	24/1012.	5.5		
Area B	09/31202	0845	Fine / Bain	0	0	0	20.9	22/10/0	2.5		
		1345	Fine / Bain	0	0	0	20.9	23/1011	2.5		
	~1	1645	Fine / Rain	0	0	0	20.9	23/10/1	2.5		

Name & Designation

Signature

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Date

191312022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 3	19/3/2022	0830	Fine / Raim	0	0	0	20.9	23/1009.	4.3	
	(7	1345	Fine / Bain	0	0	0	20.9	24/1010	4.3	
		1645	Fine / Rain	0	0	0	20.9	24/1010.	4.3	
WPRTTA 4	4	0845	Fine / Rain	0	0	0	20.9	23/1008	4	
	5	1345	Fine / Raim	0	0	0	20.9	24/1005	4	
	< / L	1645	Fine / Rain	0	0	0	20.9	23/1008.	4	
			·							

Name & Designation

Signature

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

19/3/2022

Laboratory Staff:

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

		, a, as an	Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	19/3/2022	0830	Fine / Rain	0	0	0	20.9	24/1011.	8.4		
		1330	Fine / Rain	0	0	0	20.9	25/1012.	8.4		
	<i>L</i> 1	1700	Fine / Rain	0	0	0	20.9	7.5/1012	8.4		
Area 137 Pit B	~	0830	Fine / Raim	0	0	0	20.9	23/1010.	8.6		
	~	1330	Fine / Rain	0	0	0	20.9	25/10/1	8.6		
	м	1700	Fine / Bain	0	0	0	20.9	2811010	8.6		
Area 137 Pit C	4	0830	Fine / Rain	0	0	0	20.9	24/1010	10		
	4	1330	Fine / Rain	0	0	0	20.9	25/1011	10		
	<u> </u>	1700	Fine / Rain	0	0	0	20.9	26/1011	10		

Name & Designation

<u>Signature</u>

Date

1913/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
Sample location			Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	21312022	0830	Fine / Bain	0	0	0	20.9	21/1007.	5.5		
		1330	Fine / Rain	0	0	0	20.9	22/1010	5.5		
	٤,	1700	Fine / Raim	0	0	0	20.9	22/1010.	5.5		
Area B		0845	Fine / Bain	0	0	0	20.9	22/1010.	2.5		
	«	1345	Fine / Rain	0	0	0	20.9	22/1009	2.5		
	×,	1645	Fine / Rain	0	0	0	20.9	23/1010.	2.5		
			-*								
									·		

Name & Designation

Signature

Y

<u>Date</u>

21/372022.

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Field Operator:

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
- <u></u>	

					Monitoring wells	/ Surface Ga	s Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	21/3/2022	0830	Fine / Bain	0	0	0	20.9	21/1008	4.3
		1330	Fine / Bain	0	0	0	20.9	22/1009	4.3
	~1	1700	Fine / Bain	0	0	0	20.9	22/1009	4.3
WPRTTA 4	51	0830	Fine / Bain	0	0	0	20.9	22/1009.	4
	1.7	1330	Fine / Bain	0	0	0	20.9	23/1009	4
	×,	1700	Fine / Bain	0	0	0	20.9	7211009.	4
		1979-1974							

Name & Designation

<u>Signature</u>

Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

21/3/2022.

Laboratory Staff:

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

					Monitoring well	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	21/3/2022	0830	Fine / Bain	0	0	0	20.9	21/1010	8.4
		1330	Fine / Batin	0	0	0	20.9	72/1009.	8.4
	C 1	1700	Fine / Bain	0	0	0	20.9	221/010.	8.4
Area 137 Pit B	~/	0830	Fine / Rain	0	0	0	20.9	21/1011	8.6
	~1	1330	Fine / Rain	0	0	0	20.9	22/1012	8.6
	~	1700	Fine / Rain	0	0	0	20.9	22/1012	8.6
Area 137 Pit C	~(	0830	Fine / Bain	0	0	0	20.9	21/1011	10
	41	1330	Fine / Bain	0	0	0	20.9	23/1012	10
	~.	1700	Fine / Rain	0	0	0	20.9	22/1011	10

Name & Designation

<u>Signature</u>

Y

Date

21/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

		a da da ser a constante da const			Monitoring wells	s / Surface G	as Emissio	on	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	22/312022.	0830	Fine / Rain	0	0	0	20.9	22/1009.	5.5
		1330	Fine / Rain	0	0	0	20.9	23/1010	5.5
	- · (	1700	Fine / Bain	0	0	0	20.9	23/10/0.	5.5
Area B		0845	Fine / Raim	0	0	0	20.9	23/1010.	2.5
	V I	1345	Fine / Bain	0	0	0	20.9	24/1010.	2.5
		1645	Fine / Rain	0	0	0	20.9	241/009	2.5
		anne anna anna anna anna anna anna anna							

Name & Designation

<u>Signature</u>

<u>Date</u>

22/3/2002.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	/ Surface Ga	s Emissior	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	22/3/2022	0830	Fine / Rain	0	0	0	20.9	22/1009	4.3
		1330	Fine / Rain	0	0	0	20.9	2371010	4.3
	~ ,	1700	Fine / Bain	0	0	0	20.9	23/10102	4.3
WPRTTA 4	٤,	0830	Fine / Raim	0	0	0	20.9	231/010.	4
	×.	1330	Fine / Bain	0	0	0	20.9	2411009	4
	-1	1700	Fine / Bain	0	0	0	20.9	24/1009	4

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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72/3/2022

Laboratory Staff:

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

					Monitoring wells	s / Surface G	as Emissio	on	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	22/3/2022	0830	Fine / Bain	0	0	0	20.9	22/1010	8.4
		1330	Fine / Raim	0	0	0	20.9	23/1011	8.4
		1700	Fine / Bain	0	0	0	20.9	23/101	8.4
Area 137 Pit B	~	0830	Fine / Bain	0	0	0	20.9	23//011	8.6
	U7	1330	Fine / Rain	0	0	0	20.9	25/10/2	8.6
	()	1700	Fine / Bain	0	0	0	20.9	24/1011	8.6
Area 137 Pit C	5	0830	Fine / Raim	0	0	0	20.9	23/1011	10
	1	1330	Fine / Bain	0	0	0	20.9	24 /1012	10
······································	U/	1700	Fine / Bain	0	0	0	20.9	24/1012.	10

### Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Checked by:

Y

22/3/2022

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

		2.1 <sup>8</sup> 10 - 110 - 110 - 110 - 110 - 110 - 110 - 110			Monitoring wells	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	23/3/2022	0830	Fine / Rain	0	0	0	20.9	17/1011	5.5
		1330	Fine / Rain	0	0	0	20.9	18/1012.	5.5
		1700	Fine /-Rain	0	0	0	20.9	18/1012.	5.5
Area B		0845	Fine / Rain	0	0	0	20.9	16/1011	2.5
		1345	Fine / Bain-	0	0	0	20.9	17/1012.	2.5
		1645	Fine / Bain	0	0	0	20.9	17/1012	2.5
				<u> </u>					

Name & Designation

Signature

Y

Date

23/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

					Monitoring wells	/ Surface Ga	s Emissioi	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	23/2/2022	0830	Eine / Rain	0	0	0	20.9	17/1009	4.3
	~ ,	1330	Fine / Bain	0	0	0	20.9	19/1010	4.3
	×.	1700	Fine / Bain	0	0	0	20.9	19/1010 -	4.3
WPRTTA 4	÷ .	0830	, Fine / Rain	0	0	0	20.9	18:1010	4
	۰.,	1330	Fine / Bain	0	0	0	20.9	20/10/1	4
······································	í,	1700	Fine / Bain	0	0	0	20.9	20//011.	4

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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23/3/2022.

Laboratory Staff:

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

					Monitoring well	s / Surface G	as Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	23/3/2022	0830	Eine / Rain	0	0	0	20.9	17/1011	8.4
		1330	Eine / Rain	0	0	0	20.9	18/1012	8.4
	.,	1700	Fine / Rain-	0	0	0	20.9	18/1012	8.4
Area 137 Pit B	~ (	0830	Fine / Rain	0	0	0	20.9	18/10/0.	8.6
	~ 1	1330	Eine / Rain	0	0	0	20.9	19/1011	8.6
·	٠,	1700	Fine / Rain	0	0	0	20.9	18/1010	8.6
Area 137 Pit C	~ •	0830	Fine / Rain	0	0	0	20.9	17/1009	10
	~ 1	1330	Fine / Rain	0	0	0	20.9	1811010	10
		1700	Fine / Bain	0	0	0	20.9	18/1010.	10

#### Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Y

23/372022

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

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	24/3/2022	0830	Fine / Rain	0	0	0	20.9	17/1010.	5.5		
		1330	Fine / Rain	0	0	0	20.9	18/1011	5.5		
		1700	Fine / Bain	0	0	0	20.9	18/1011	5.5		
Area B		0845	Fine / Rain	0	0	0	20.9	16/1009	2.5		
		1345	Fine / Bain	0	0	0	20.9	17/1010	2.5		
	× .	1645	Fine / Bain	0	0	0	20.9	17/1010.	2.5		

Name & Designation

Signature

Date

241312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

		an a			Monitoring wells	/ Surface Ga	s Emissio	1	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	24/3/2022	0830	Fine / Rain	0	0	0	20.9	16/1009	4.3
	, <i>1 Julie</i>	1330	Fine / Rain	0	0	0	20.9	17/1010	4.3
	-/	1700	Fine / Rain	0	0	0	20.9	17/1010	4.3
WPRTTA 4	C/	0830	Eine / Rain	0	0	0	20.9	16/1008	4
	4	1330	Fine / Bain	0	0	0	20.9	18/1010	4
	~/	1700	Fine / Bain	0	0	0	20.9	177009.	4
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Name & Designation

Signature

<u>Date</u>

241312022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring well	s / Surface G	as Emissic	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	24/3/2022	0830	Eine / Rain	0	0	0	20.9	16/1009	8.4
	- 1	1330	Fine / Bain	0	0	0	20.9	17/1010	8.4
	~ (	1700	Fine / Raim	0	0	0	20.9	17/1010.	8.4
Area 137 Pit B	-(	0830	Fine / Rain	0	0	0	20.9	16/1010	8.6
		1330	Fine / Bain	0	0	0	20.9	17/1002	8.6
	N1	1700	Fine / Bain	0	0	0	20.9	17/1010.	8.6
Area 137 Pit C	×	0830	Eine / Rain	0	0	0	20.9	\$1611010	10
	٠,	1330	Fine / Bain	0	0	0	20.9	18/1011	10
		1700	Fine / Rain-	0	0	0	20.9	17/1010.	10

#### Name & Designation

<u>Signature</u>

Y

<u>Date</u>

2413/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

				Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area A	25/3/2022	0830	Fine / Rain	0	0	0	20.9	19/1010	5.5			
		1330	Fine / Rain	0	0	0	20.9	21/10/1	5.5			
		1700	Fine / Bain	0	0	0	20.9	21/1011	5.5			
Area B		0845	Fine / Rain	0	0	0	20.9	20/1009	2.5			
		1345	Fine / Bain	0	0	0	20.9	2211010	2.5			
		1645	Fine / Rain	0	0	0	20.9	22/1010.	2.5			
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Name & Designation

<u>Signature</u>

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<u>Date</u>

2513/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

					Monitoring wells	/ Surface Ga	s Emissior	า	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	25/3/2022	0830	Fine / Bain	0	0	0	20.9	20/1009.	4.3
		1330	Fine / Bain	0	0	0	20.9	21/1010	4.3
	~/	1700	Fine / Bain	0	0	0	20.9	21/1010	4.3
WPRTTA 4	1	0830	Fine / Rain	<u> </u>	0	0	20.9	21/1010.	4
and the second se	4	1330	Fine / Bain	0	0	0	20.9	23/10/1	4
	<u> </u>	1700	Fine / Rain	0	0	0	20.9	23/1011	4

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

25/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

					Monitoring wells	vells / Surface Gas Emission				
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	25/3/2022.	0830	Eine / Rain	0	0	0	20.9	19/1009.	8.4	
		1330	Fine / Rain	0	0	0	20.9	21/1010	8.4	
	~1	1700	Fine / Bain	0	0	0	20.9	21/1010.	8.4	
Area 137 Pit B	~(	0830	Eine / Rain	0	0	0	20.9	20/1011	8.6	
		1330	Fine / Bain'	0	0	0	20.9	21/1012	8.6	
	× 1	1700	Fine / Rain	0	0	0	20.9	21/1012.	8.6	
Area 137 Pit C	1	0830	Eine / Rain	0	0	0	20.9	20/1010.	10	
	N.	1330	Fine / Bain	0	0	0	20.9	22/1011	10	
	-1	1700	Fine / Raim	0	0	0	20.9	21/1010	10	

Name & Designation

<u>Signature</u>

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<u>Date</u>

25/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

				Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)				
Area A	26/3/2072	0830	Fine / Bain	0	0	0	20.9	25/1010	5.5				
		1330	Fine / Bain	0	0	0	20.9	27/1011	5.5				
	~ r	1700	Fine / Rain	0	0	0	20.9	27/1011	5.5				
Area B	~ ,	0845	Fine / Rain	0	0	0	20.9	25/101	2.5				
	¥7	1345	Fine / Bath	0	0	0	20.9	26/1010	2.5				
	~ <sub>1</sub>	1645	Fine / Rain	0	0	0	20.9	26/1010	2.5				
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### Name & Designation

Signature

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<u>Date</u> 26/3

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
WPRTTA 3	26/3/2077	0830	Fine / Bain	0	0	0	20.9	25//009.	4.3		
		1330	Fine / Rain	0	0	0	20.9	26/1010	4.3		
		1700	Fine / Rain	0	0	0	20.9	26/1010.	4.3		
WPRTTA 4		0830	Fine / Rain	0	0	0	20.9	251/010	4		
		1330	Fine / Rain	0	0	0	20.9	26/1009	4		
		1700	Fine / Raim	0	0	0	20.9	25/1009	4		
	/ /										

Name & Designation

<u>Signature</u>

<u>Date</u>

26/312022.

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Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	26/312022	0830	Fine / Bain	0	0	0	20.9	25/1010	8.4			
		1330	Fine / Bain	0	0	0	20.9	26/1011	8.4			
	~,	1700	Fine / Raim	0	0	0	20.9	26/ 1011.	8.4			
Area 137 Pit B	~7	0830	Fine / Rain	0	0	0	20.9	25/ 1009	8.6			
		1330	Fine / Rain	0	0	0	20.9	21/010	8.6			
	~	1700	Fine / Bain	0	0	0	20.9	27/1010.	8.6			
Area 137 Pit C	~1	0830	Fine / Rain	0	0	0	20.9	2611010	10			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	$\sim_{i}$	1330	Fine / Rain-	0	0	0	20.9	27/1011	10			
	ς,	1700	Fine / Rain	0	0	0	20.9	27/1011	10			

Name & Designation

<u>Signature</u>

Date

26/3/2022.

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

				Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)				
Area A	28/3/2022	0830	Fine / Rain	0	0	0	20.9	17/1011	5.5				
		1330	Fine / Bain	0	0	0	20.9	18/1011	5.5				
		1700	Fine / Raim	0	0	0	20.9	18/1011.	5.5				
Area B		0845	Eine / Rain	0	0	0	20.9	17/1010	2.5				
	4	1345	Fine / Bain	0	0	0	20.9	18/1010	2.5				
	· · · ·	1645	Fine / Rain	0	0	0	20.9	171/009	2.5				

Name & Designation

Signature

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<u>Date</u>

28/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

		annan ann a' stàite ann an ann ann ann ann ann ann ann ann			Monitoring wells	/ Surface Ga	s Emissio	ſ	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	28/3/2022	0830	Eine / Rain	0	0	0	20.9	17/1009	4.3
		1330	Fine / Rain	0	0	0	20.9	18/1009	4.3
	L ,	1700	Fine / Rain	0	0	0	20.9	17/1010.	4.3
WPRTTA 4	N/	0830	Fine/Rain	0	0	0	20.9	17/1010	4
	1	1330	Fine / Rain	0	0	0	20.9	17/1010	4
	×,	1700	Fine / Rain	0	0	0	20.9	18/1009	4
							·····	1	
<u> </u>									

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

28/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	28/3/2022	0830	Fine / Rain	0	0	0	20.9	17/1011	8.4	
	~	1330	Fine / Batin	0	0	0	20.9	18/1012	8.4	
	5.7	1700	Fine / Bain	0	0	0	20.9	18/1012.	8.4	
Area 137 Pit B		0830	Eine / Rain	0	0	0	20.9	17/1011	8.6	
	4	1330	Fine / Bain	0	0	0	20.9	17/1011	8.6	
	N/	1700	Fine / Rain	0	0	0	20.9	1811012.	8.6	
Area 137 Pit C	<u>\.</u>	0830	Eine / Rain	0	0	0	20.9	18/1010.	10	
	(,	1330	Fine / Bain	0	0	0	20.9	17/1011	10	
		1700	Fine / Rain	0	0	0	20.9	18/1011	10	

Name & Designation

<u>Signature</u>

<u>Date</u>

28/3/20m

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Y

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

Dates calibrated
28 JUL 2021

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	27/3/2022	0830	Fine / Bain	0	0	0	20.9	18/1010	5.5		
		1330	Fine / Bain	0	0	0	20.9	1911011	5.5		
		1700	Fine / Raim	0	0	0	20.9	19/1011	5.5		
Area B		0845	Fine / Bain	0	0	0	20.9	19/1010	2.5		
		1345	Fine / Batn	0	0	0	20.9	19/1010.	2.5		
	~/	1645	Fine / Rain	0	0	0	20.9	1811009	2.5		

Name & Designation

<u>Signature</u>

Y

<u>Date</u>

29/3/2022

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Field Operator:

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

		erver delation and an			Monitoring wells	/ Surface Ga	s Emissior	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)           //8//00 ?           20 //01 0           20 //01 0           19 //010           19 //010           20 //010	Remark Depth (m)
WPRTTA 3	27/3/2022	0830	Fine / Raim	0	0	0	20.9	18/1009	4.3
	~,	1330	Fine / Rain	0	0	0	20.9	20/1010	4.3
	~ .	1700	Fine / Rain	0	0	0	20.9	20/1010.	4.3
WPRTTA 4	~,	0830	Fine / Rain	0	0	0	20.9		4
	L1	1330	Fine / Bain	0	0	0	20.9	20/1010	4
	~	1700	Fine / Bain	0	0	0	20.9	20/1009	4
				the failth					

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

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29/3/2022

Laboratory Staff:

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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			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	2813/2022	0830	Fine / Bain	0	0	0	20.9	18/1010	8.4		
	~ 1	1330	Fine / Bain	0	0	0	20.9	15/1011	8.4		
	- 1	1700	Fine / Rain	0	0	0	20.9	18/1011	8.4		
Area 137 Pit B	~	0830	Fine / Rain-	0	0	0	20.9	1911010	8.6		
	Ч	1330	Fine / Rain-	0	0	0	20.9	191/010	8.6		
	Y	1700	Fine / Rain	0	0	0	20.9	20/1011	8.6		
Area 137 Pit C	N/	0830	Fine / Rain	0	0	0	20.9	18/1010.	10		
	Σ,	1330	Fine / Raim	0	0	0	20.9	18/1010	10		
	1.	1700	Fine / Rain	0	0	0	20.9	19/1011	10		

Name & Designation

<u>Signature</u>

<u>Date</u>

28/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

Y

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

		Monitoring wells / Surface Gas Emission								
Sample Date of location measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
30/3/2022	0830	Fine / Bain	0	0	0	20.9	21/1011	5.5		
~/	1330	Fine / Rain	0	0	0	20.9	22/ /012	5.5		
4	1700	Fine / Rain	0	0	0	20.9	22/1012.	5.5		
4	0845	Fine / Bain	0	0	0	20.9	22/1011	2.5		
	1345	Fine / Bain	0	0	0	20.9	21/1010.	2.5		
~/	1645	Fine / Rain	0	0	0	20.9	22/1010	2.5		
	measurement	measurement         Sampling time           30/3/2072         0830           1330         1330           1700         1700           1345         1645	measurementSampling timeWeather condition3c/3/2c720830Fine / Bain1330Fine / Bain1700Fine / Bain0845Fine / Bain1345Fine / Bain1645Fine / Bain	measurementSampling timeWeather conditionBalance gas (%)30/3/20710830Fine / Bain01330Fine / Bain01700Fine / Rain01700Fine / Rain01345Fine / Bain01645Fine / Bain0	Date of measurementSampling timeWeather conditionBalance gas (%)Flammable gas (methame %)3c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/3/2c720830Fine / Bain003c/21345Fine / Bain003c/21345Fine / Bain003c/21645Fine / Bain00	Date of measurementSampling timeWeather conditionBalance gas (%)Flammable gas (methame %)Carbon monoxide( (%)2c/3/2c720830Fine / Bain0003c/1330Fine / Bain0003c/1700Fine / Bain0003c/1700Fine / Bain0003c/1345Fine / Bain0003c/1345Fine / Bain0003c/1345Fine / Bain000	Date of measurementSampling timeWeather conditionBalance gas (%)Flammable gas (methame %)Carbon monoxide( (%)Oxygen (%)2c/3/2c720830Fine / Bain00020.9C1330Fine / Bain00020.9C1700Fine / Bain00020.9C1700Fine / Bain00020.9C1345Fine / Bain00020.9C1345Fine / Bain00020.9C1345Fine / Bain00020.9C1645Fine / Bain00020.9	Date of measurementSampling timeWeather conditionBalance gas (%)Flammable gas (methame %)Carbon monoxide( $\%$ )Temp (°C) / Pressure (mbar) $3o/3/2o22$ 0830Fine / Bain00020.9 $2i / /o11$ $3o/3/2o22$ 0830Fine / Bain00020.9 $2i / /o11$ $3o/3/2o22$ 0830Fine / Bain00020.9 $2i / /o12$ $3o/3/2o222$ 1345Fine / Bain00020.9 $2i / /o12$		

Name & Designation

<u>Signature</u>

Y

<u>Date</u>

30/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

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8 JUL 2021

					Monitoring wells	/ Surface Ga	s Emissio	n	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	30/3/2022	0830	Fine / Rain	0	0	0	20.9	21/1009	4.3
		1330	Fine / Raim	0	0	0	20.9	23/1010	4.3
·····	C/	1700	Fine / Raim	0	0	0	20.9	23/1010	4.3
WPRTTA 4		0830	Fine / Bain	0	0	0	20.9	22/1010	4
	4	1330	Fine / Bain	0	0	0	20.9	23/1009	4
	-1	1700	Fine / Pain	0	0	0	20.9	22/1010.	4

Name & Designation

Signature

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

K

30/3/2022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

		and and the second s		Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	307312022	0830	Fine / Bain	0	0	0	20.9	20//011	8.4			
		1330	Fine / Raim	0	0	0	20.9	23/1012	8.4			
	×.	1700	Fine / Bain	0	0	0	20.9	23/10/2.	8.4			
Area 137 Pit B		0830	Fine / Bath	0	0	0	20.9	21/1012	8.6			
ani	Vr.	1330	Fine / Bain	0	0	0	20.9	23//012	8.6			
	4	1700	Fine / Rain	0	0	0	20.9	22/1011	8.6			
Area 137 Pit C	L. L.	0830	Fine / Bain	0	0	0	20.9	22/1012.	10			
		1330	Fine / Batin	0	0	0	20.9	23/1012	10			
	ý –	1700	Fine / Rain	0	0	0	20.9	23/1012.	10			

Name & Designation

**Signature** 

<u>Date</u>

30/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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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

10 10 10 10 10 10 10 10 10 10 10 10 10 1				Monitoring wells / Surface Gas Emission								
Sample Date of location measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)				
Area A	31/3(2022	0830	Fine / Raim	0	0	0	20.9	2B/ 1011	5.5			
		1330	Fine / Raim	0	0	0	20.9	25/1012	5.5			
		1700	Fine / Rain	0	0	0	20.9		5.5			
Area B	4	0845	Fine / Bain	0	0	0	20.9	22/1010.	2.5			
	4	1345	Fine / Bain	0	0	0	20.9	25/10/2	2.5			
	4	1645	Fine / Rain	0	0	0	20.9		2.5			
		an Parallet										
						I			]			

Name & Designation

Signature

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<u>Date</u>

31/3/2022

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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

UL 2021

					Monitoring wells	/ Surface Ga	s Emissio	า	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 3	31/3/2022	0830	Fine / Bain	0	0	0	20.9	22/1009.	4.3
	U7	1330	Fine / Rain	0	0	0	20.9	25/1010	4.3
	٤/	1700	Fine / Rain	0	0	0	20.9		4.3
WPRTTA 4		0830	Fine / Bain	0	0	0	20.9	22/1010	4
	4	1330	Fine / Bain	0	0	0	20.9	14/1011	4
	67	1700	Fine / Rain	0	0	0	20.9		4

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Jock Lee (Competent Person [CO-310218])

31/312022.

Laboratory Staff:

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

Dates calibrated
28 JUL 2021

					Monitoring wells	s / Surface G	as Emissic	on	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide( %)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	3(13/2022	. 0830	Fine / Bain	0	0	0	20.9	22/1011	8.4
	×1	1330	Fine / Rain	0	0	0	20.9	25/1012.	8.4
	<b>`</b> .	1700	Fine / Rain	0	0	0	20.9		8.4
Area 137 Pit B		0830	Fine / Bain	0	0	0	20.9	21/1010	8.6
	NY	1330	Fine / Bain	0	0	0	20.9	24/10/2	8.6
	14 N	1700	Fine / Rain	0	0	0	20.9		8.6
Area 137 Pit C	×7	0830	Fine / Rain	0	0	0	20.9	20/1010.	10
	×4	1330	Fine / Rain	0	0	0	20.9	23/1011	10
	ς,	1700	Fine / Rain	0	0	0	20.9		10

Name & Designation

<u>Signature</u>

Y

<u>Date</u>

3113/2002,

Field Operator:

Jock Lee (Competent Person [CO-310218])

Laboratory Staff:

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	6/4/2021
M01C031772	

Compling Logotion	Date of	Sompling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0413	
Area A	1/3/2022	13:30	0.0416	
		15:30	0.0413	
		8:45	0.0419	
Area B	1/3/2022	13:45	0.042	
		15:45	0.0416	
		9:15		
137 Pit C	1/3/2022	14:15		
		16:15		
		9:00		
137 Pit B	1/3/2022	14:00		
		16:00		
		9:20		
137 Pit A	1/3/2022	14:20		
		16:20		
		9:45	0.0416	
WPR WF3	1/3/2022	14:45	0.0412	
		16:45	0.042	

Name & Designation

<u>Signature</u>

<u>Date</u> 1/3/2022

Field Operator: Laboratory Staff:

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 Carbon Dioxide (%)	Remark
		9:30	0.0418	
WRP WF4	1/3/2022	14:30	0.0415	
		16:30	0.041	
		10:00		
Pit A	1/3/2022	15:00		
		17:00		
	· · · · · · · · · · · · · · · · · · ·	10:15		
Pit B	1/3/2022	15:15		
		17:15		
		10:15		
Pit D	1/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by: 1/3/2022

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	6/4/2021
M01C031772	0/1/2021

Sampling Location Date of Measurement		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
		Sampling une	Carbon Dioxide (%)	Remark
		8:30	0.042	
Area A	2/3/2022	13:30	0.0417	
		15:30	0.0414	
		8:45	0.0418	
Area B	2/3/2022	13:45	0.0415	
		15:45	0.0419	
		9:15		
137 Pit C	2/3/2022	14:15		
		16:15		
-		9:00		
137 Pit B	2/3/2022	14:00		
		16:00		
		9:20		
137 Pit A	2/3/2022	14:20		
	16:20			
		9:45	0.0416	
WPR WF3 2/3/2022	2/3/2022	14:45	0.0415	
	16:45	0.041		

Name & Designation

<u>Signature</u>

<u>Date</u> 2/3/2022

Field Operator: Laboratory Staff: Checked by: 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	6/4/2021	
M01C031772	0/4/2021	

Sampling Location Date of		Ind Location I Sampling time	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Measurement	Sampling time	Carbon Dioxide (%)	Remark		
	9:30	0.041			
2/3/2022	14:30	0.042			
	16:30	0.0418			
	10:00				
2/3/2022	15:00				
	17:00				
a an <u>a</u> ana ana	10:15				
Pit B 2/3/2022	15:15				
	17:15				
	10:15				
2/3/2022	15:15				
	17:15				
	Measurement 2/3/2022 2/3/2022 2/3/2022	Measurement         Sampling time           2/3/2022         9:30           2/3/2022         14:30           16:30         16:30           2/3/2022         15:00           2/3/2022         15:10           2/3/2022         15:15           2/3/2022         15:15           2/3/2022         15:15           2/3/2022         15:15	Measurement         Sampling time         Carbon Dioxide (%)           2/3/2022         9:30         0.041           2/3/2022         14:30         0.042           16:30         0.0418           2/3/2022         15:00           10:00         17:00           2/3/2022         15:15           2/3/2022         15:15           2/3/2022         15:15           2/3/2022         15:15           2/3/2022         15:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

2/3/2022

Field Operator: Laboratory Staff: Checked by: 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	6/4/2021	
M01C031772	0/1/2021	

O l'automation	Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement		Sampling time	Carbon Dioxide (%)	Kentark
		8:30	0.041	
Area A	3/3/2022	13:30	0.0413	
		15:30	0.0418	
		8:45	0.0411	
Area B	3/3/2022	13:45	0.0414	
		15:45	0.0416	
		9:15	0.0414	
137 Pit C	3/3/2022	14:15	0.0414	
		16:15	0.0419	
		9:00	0.0411	
137 Pit B	3/3/2022	14:00	0.0412	
		16:00	0.0418	
		9:20	0.0412	
137 Pit A	3/3/2022	14:20	0.0411	
	16:20	0.0419		
		9:45	0.0418	
WPR WF3	3/3/2022	14:45	0.0414	
	16:45	0.0415		

Name & Designation

<u>Signature</u>

<u>Date</u> 3/3/2022

Field Operator:

Laboratory Staff:

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	6/4/2021
M01C031772	0/4/2021

Sampling Location	Date of Measurement	Sampling time	Monitoring wells/ Surface Gas Emission Carbon Dioxide (%)	Remark
		9:30	0.0417	
WRP WF4	3/3/2022	14:30	0.0413	
		16:30	0.0418	
		10:00		
Pit A	3/3/2022	15:00		
		17:00		
	· · · · · · · · · · · · · · · · · · ·	10:15		
Pit B	3/3/2022	15:15		
		17:15		
		10:15		
Pit D	3/3/2022	15:15		
		17:15		

Name & Designation

Signature

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

3/3/2022

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	6/4/2021
M01C031772	0/ 1/2021

Sampling Location Date of Measurement		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
		Sampling ume	Carbon Dioxide (%)	Remark
		8:30	0.0416	
Area A	4/3/2022	13:30	0.0419	
		15:30	0.0417	
		8:45	0.0411	
Area B	4/3/2022	13:45	0.0418	
		15:45	0.0413	
		9:15	0.0418	
137 Pit C	4/3/2022	14:15	0.0413	
		16:15	0.041	
		9:00	0.0418	
137 Pit B	4/3/2022	14:00	0.0412	
		16:00	0.0418	
		9:20	0.0415	
137 Pit A	4/3/2022	14:20	0.0419	
	16:20	0.0418		
		9:45	0.042	
WPR WF3	4/3/2022	14:45	0.0415	
	16:45	0.0417		

Name & Designation

<u>Signature</u>

<u>Date</u> 4/3/2022

Field Operator: Laboratory Staff: Checked by:

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

Sampling Location	Sampling Location Date of Sampling Location Measurement		Monitoring wells/ Surface Gas Emission	Densede
			Carbon Dioxide (%)	Remark
		9:30	0.0416	
WRP WF4	4/3/2022	14:30	0.0416	
		16:30	0.0418	
		10:00		
Pit A	4/3/2022	15:00		
		17:00		
	· · · · · · · · · · · · · · · · · · ·	10:15		
Pit B	4/3/2022	15:15		
		17:15		
		10:15		
Pit D	4/3/2022	15:15		
		17:15	-	

Name & Designation

<u>Signature</u>

<u>Date</u>

4/3/2022

Field Operator: Laboratory Staff:

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	6/4/2021
M01C031772	0/4/2021

O and line Leasting	Compling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	Sampling time	Carbon Dioxide (%)	Roman	
		8:30	0.0411	
Area A	5/3/2022	13:30	0.0419	
		15:30	0.0413	
		8:45	0.0413	
Area B	5/3/2022	13:45	0.042	
		15:45	0.0419	
		9:15	0.0416	
137 Pit C	5/3/2022	14:15	0.0415	
		16:15	0.0412	
		9:00	0.0413	
137 Pit B	5/3/2022	14:00	0.0414	
		16:00	0.0415	
		9:20	0.0416	
137 Pit A	5/3/2022	14:20	0.0419	
	16:20	0.0418		
		9:45	0.0412	
WPR WF3	5/3/2022	14:45	0.0412	
	16:45	0.0418		

Name & Designation

<u>Signature</u>

<u>Date</u> 5/3/2022

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location Date of		na Location I Sampling time	Monitoring wells/ Surface Gas Emission	Deveed
	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.041	
WRP WF4	5/3/2022	14:30	0.0411	
		16:30	0.041	
		10:00		
Pit A	5/3/2022	15:00		
-		17:00		
		10:15		
Pit B	5/3/2022	15:15		
		17:15		
	10000-10 <b>0</b> 0	10:15		
Pit D	5/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

O a man l'a a l'a a ati - r	Date of		Date of Some	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	t Samping une	Carbon Dioxide (%)	Roman			
		8:30	0.0419			
Area A	7/3/2022	13:30	0.0417			
		15:30	0.0414			
		8:45	0.0412			
Area B	7/3/2022	13:45	0.0415			
		15:45	0.0415			
		9:15	0.0419			
137 Pit C	7/3/2022	14:15	0.042			
		16:15	0.041			
		9:00	0.0416			
137 Pit B	7/3/2022	14:00	0.0418			
		16:00	0.0414			
		9:20	0.0415			
137 Pit A	7/3/2022	14:20	0.0411			
	16:20	0.0413				
		9:45	0.041			
WPR WF3	7/3/2022	14:45	0.0413			
		16:45	0.0412			

Name & Designation

<u>Signature</u>

<u>Date</u> 7/3/2022

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/4/2021

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.042	• • • • • • • • • • • • • • • • • • •
WRP WF4	7/3/2022	14:30	0.0411	
		16:30	0.0416	
		10:00		
Pit A	7/3/2022	15:00		
		17:00		
		10:15		
Pit B	Pit B 7/3/2022	15:15		
		17:15		
	anna an an anna an Anna ann Anna	10:15		
Pit D	7/3/2022	15:15		
	·····	17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/ 1/2021

O The location	ampling Location Date of Measurement		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location			Carbon Dioxide (%)	Remaix
		8:30	0.0414	
Area A	8/3/2022	13:30	0.041	
		15:30	0.0411	
		8:45	0.0415	
Area B	8/3/2022	13:45	0.0417	
		15:45	0.0419	
		9:15	0.041	
137 Pit C	137 Pit C 8/3/2022	14:15	0.041	
		16:15	0.0416	
	······································	9:00	0.0414	
137 Pit B	8/3/2022	14:00	0.0413	
		16:00	0.0418	
		9:20	0.042	
137 Pit A	8/3/2022	14:20	0.0416	
	16:20	0.0417		
		9:45	0.0415	
WPR WF3	8/3/2022	14:45	0.0416	
		16:45	0.0414	

Name & Designation

<u>Signature</u>

<u>Date</u> 8/3/2022

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/4/2021

Sampling Location	Date of Sampling time	Sompling time	Monitoring wells/ Surface Gas Emission	Dement
Camping Location	Measurement		Carbon Dioxide (%)	Remark
		9:30	0.0415	
WRP WF4	8/3/2022	14:30	0.0418	
		16:30	0.0414	
		10:00		
Pit A	8/3/2022	15:00		
		17:00		
	The second se	10:15		
Pit B	Pit B 8/3/2022	15:15		
		17:15		
		10:15		
Pit D	8/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021	
M01C031772	0/ 1/2021	

Operational apotion	Date of	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement		Sampling une	Carbon Dioxide (%)	Remark
		8:30	0.041	
Area A	9/3/2022	13:30	0.0414	
		15:30	0.0417	
		8:45	0.0413	
Area B	9/3/2022	13:45	0.0415	
		15:45	0.0418	
		9:15	0.0416	
137 Pit C	137 Pit C 9/3/2022	14:15	0.0418	
		16:15	0.0411	
		9:00	0.0419	
137 Pit B	9/3/2022	14:00	0.041	
		16:00	0.0411	
		9:20	0.0419	
137 Pit A	9/3/2022	14:20	0.0419	
	16:20	0.0412		
		9:45	0.041	
WPR WF3	9/3/2022	14:45	0.0418	
	16:45	0.0414		

Name & Designation

<u>Signature</u>

<u>Date</u> 9/3/2022

Field Operator: Laboratory Staff:

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

Sampling Location	Sampling Location Date of Measurement		TIDUDD L COMPLIAN L Sompling time	Sompling time	Monitoring wells/ Surface Gas Emission	Demails
Camping Location			Carbon Dioxide (%)	Remark		
		9:30	0.0414			
WRP WF4	9/3/2022	14:30	0.0415			
		16:30	0.0412			
		10:00				
Pit A	9/3/2022	15:00				
		17:00				
		10:15				
Pit B	9/3/2022	15:15				
		17:15				
		10:15				
Pit D	9/3/2022	15:15				
		17:15				

Name & Designation

Signature

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021	
M01C031772	0/ 1/2021	

	Date of	Compling fires	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement		Sampling time	Carbon Dioxide (%)	Kemark
		8:30	0.041	
Area A	10/3/2022	13:30	0.0415	
		15:30	0.0414	
		8:45	0.0416	
Area B	10/3/2022	13:45	0.0411	
		15:45	0.0419	
		9:15	0.0417	
137 Pit C	137 Pit C 10/3/2022	14:15	0.041	
		16:15	0.0416	
		9:00	0.0411	
137 Pit B	10/3/2022	14:00	0.0415	
		16:00	0.0411	
		9:20	0.041	
137 Pit A	10/3/2022	14:20	0.042	
	16:20	0.0415		
		9:45	0.0413	
WPR WF3	10/3/2022	14:45	0.0418	
		16:45	0.041	

Name & Designation

<u>Signature</u>

<u>Date</u> 10/3/2022

Field Operator: Laboratory Staff:

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	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
	Measurement	Sampling time	Carbon Dioxide (%)	Kenlark
		9:30	0.0415	
WRP WF4	10/3/2022	14:30	0.0411	
		16:30	0.0415	
		10:00		
Pit A	10/3/2022	15:00		
		17:00		
		10:15		
Pit B	10/3/2022	15:15		
		17:15		
		10:15		
Pit D	10/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

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		Compling time	Monitoring wells/ Surface Gas Emission	Remark
		Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0413	
Area A	11/3/2022	13:30	0.0418	
		15:30	0.042	
		8:45	0.041	
Area B	11/3/2022	13:45	0.0412	
		15:45	0.0414	
		9:15	0.0417	
137 Pit C	11/3/2022	14:15	0.0415	
		16:15	0.0412	
		9:00	0.0418	
137 Pit B	11/3/2022	14:00	0.0419	
		16:00	0.0411	
		9:20	0.0419	
137 Pit A	11/3/2022	14:20	0.042	
	16:20	16:20	0.0418	
		9:45	0.0414	
WPR WF3	11/3/2022	14:45	0.0418	
		16:45	0.0415	

Name & Designation

<u>Signature</u>

<u>Date</u> 11/3/2022

Field Operator:

Laboratory Staff:

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

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Domorik
Sampling Escation	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.042	
WRP WF4	11/3/2022	14:30	0.0412	
		16:30	0.0416	
		10:00		
Pit A	11/3/2022	15:00		
		17:00		
		10:15		
Pit B	11/3/2022	15:15		
		17:15		
		10:15		
Pit D	11/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

11/3/2022

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	6/4/2021
M01C031772	

	Sampling Location         Date of Measurement         Sampling time         Monitoring wells/ Surface Gas Emiss           Carbon Dioxide (%)         Carbon Dioxide (%)         Carbon Dioxide (%)		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location			Carbon Dioxide (%)	Remark
		8:30	0.0418	
Area A	12/3/2022	13:30	0.0411	
		15:30	0.0412	
		8:45	0.0414	
Area B	12/3/2022	13:45	0.0418	
		15:45	0.0414	
		9:15	0.0416	
137 Pit C	12/3/2022	14:15	0.0417	
		16:15	0.0413	
		9:00	0.0412	
137 Pit B	12/3/2022	14:00	0.0411	
		16:00	0.0412	
		9:20	0.0411	
137 Pit A	12/3/2022	14:20	0.041	
	16:20	0.0413		
		9:45	0.041	
WPR WF3	12/3/2022	14:45	0.0416	
		16:45	0.042	

Name & Designation

<u>Signature</u>

<u>Date</u> 12/3/2022

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Domorte
Camping Location	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.041	
WRP WF4	12/3/2022	14:30	0.0415	
		16:30	0.0417	
		10:00		
Pit A	12/3/2022	15:00		
		17:00		
		10:15		
Pit B	12/3/2022	15:15		
		17:15		
		10:15		
Pit D	12/3/2022	15:15		
		17:15		
				······

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021
M01C031772	

	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0419	
Area A	14/3/2022	13:30	0.0418	
		15:30	0.0413	
		8:45	0.0416	
Area B	14/3/2022	13:45	0.0412	
		15:45	0.042	
		9:15	0.0416	
137 Pit C	137 Pit C 14/3/2022	14:15	0.0413	
		16:15	0.0413	
		9:00	0.0412	
137 Pit B	14/3/2022	14:00	0.0414	
		16:00	0.0415	
		9:20	0.0414	
137 Pit A	14/3/2022	14:20	0.042	
	16:20	0.0411		
		9:45	0.0418	
WPR WF3	14/3/2022	14:45	0.0419	
		16:45	0.0419	

Name & Designation

<u>Signature</u>

<u>Date</u> 14/3/2022

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/4/2021

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Domork
Sampling Location	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.041	
WRP WF4	14/3/2022	14:30	0.041	
		16:30	0.0413	
		10:00		
Pit A	14/3/2022	15:00		
		17:00		
		10:15		
Pit B	14/3/2022	15:15		
		17:15		
		10:15		
Pit D	14/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

14/3/2022

Field Operator: Laboratory Staff:

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

Compliant Location	pling Location L Sampling time		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location			Carbon Dioxide (%)	Kennark
		8:30	0.0412	
Area A	15/3/2022	13:30	0.0413	
		15:30	0.0419	
		8:45	0.0417	
Area B	15/3/2022	13:45	0.0418	
		15:45	0.0417	
		9:15	0.042	
137 Pit C	137 Pit C 15/3/2022	14:15	0.0418	
		16:15	0.0411	
		9:00	0.0416	
137 Pit B	15/3/2022	14:00	0.0411	
		16:00	0.0415	
		9:20	0.041	
137 Pit A	15/3/2022	14:20	0.0415	
	16:20	0.0415		
		9:45	0.0415	
WPR WF3	15/3/2022	14:45	0.0415	
		16:45	0.0412	•

Name & Designation

<u>Signature</u>

<u>Date</u> 15/3/2022

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/ 1/2021

Sampling Location Date of		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Camping Location	Measurement		Carbon Dioxide (%)	Remark
		9:30	0.0417	
WRP WF4	15/3/2022	14:30	0.041	
		16:30	0.041	
		10:00		
Pit A	15/3/2022	15:00		
		17:00		
		10:15		
Pit B	Pit B 15/3/2022	15:15		
		17:15		
	·	10:15		
Pit D	15/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

15/3/2022

Field Operator: Laboratory Staff:

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		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	Measurement		Carbon Dioxide (%)	Remark
		8:30	0.0417	
Area A	16/3/2022	13:30	0.0411	
		15:30	0.0416	
		8:45	0.042	
Area B	16/3/2022	13:45	0.0415	
		15:45	0.0413	
		9:15	0.041	
137 Pit C	137 Pit C 16/3/2022	14:15	0.0418	
		16:15	0.042	
		9:00	0.042	
137 Pit B	16/3/2022	14:00	0.0414	
		16:00	0.0418	
	-	9:20	0.0412	
137 Pit A	16/3/2022	14:20	0.042	
	16:20	0.0411		
		9:45	0.0413	
WPR WF3	16/3/2022	14:45	0.0414	
		16:45	0.041	

Name & Designation

<u>Signature</u>

<u>Date</u> 16/3/2022

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Sampling Location Date of		niing Location I Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Camping Location	Measurement	Sampling time	Carbon Dioxide (%)	Remark	
		9:30	0.0415	· · ·	
WRP WF4	16/3/2022	14:30	0.041		
		16:30	0.0417		
		10:00			
Pit A	16/3/2022	15:00			
		17:00			
		10:15			
Pit B	Pit B 16/3/2022	15:15			
		17:15			
		10:15			
Pit D	16/3/2022	15:15			
		17:15			

Name & Designation

<u>Signature</u>

<u>Date</u>

16/3/2022

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	6/4/2021
M01C031772	

Sempling Location Date of		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	ng Location Measurement		Carbon Dioxide (%)	Remark
		8:30	0.0414	
Area A	17/3/2022	13:30	0.041	
		15:30	0.0417	
		8:45	0.0412	
Area B	17/3/2022	13:45	0.0411	
		15:45	0.041	
		9:15	0.042	
137 Pit C	17/3/2022	14:15	0.0414	
		16:15	0.0418	
		9:00	0.042	
137 Pit B	17/3/2022	14:00	0.0418	
		16:00	0.041	
		9:20	0.0414	
137 Pit A	17/3/2022	14:20	0.042	
	16:20	0.042		
		9:45	0.0418	
WPR WF3	17/3/2022	14:45	0.0416	
		16:45	0.041	

Name & Designation

<u>Signature</u>

<u>Date</u> 17/3/2022

Field Operator: Laboratory Staff:

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

Sampling Location	Date of Measurement	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
	Measurement		Carbon Dioxide (%)	
		9:30	0.042	
WRP WF4	17/3/2022	14:30	0.0413	
		16:30	0.0417	
		10:00		
Pit A	17/3/2022	15:00		
		17:00		
		10:15		
Pit B	17/3/2022	15:15		
		17:15		
		10:15		
Pit D	17/3/2022	15:15		
		17:15		
	· · · ·			

Name & Designation

<u>Signature</u>

<u>Date</u>

17/3/2022

Field Operator: Laboratory Staff:

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	Remark
		Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0411	
Area A	18/3/2022	13:30	0.0419	
		15:30	0.0415	
		8:45	0.0416	
Area B	18/3/2022	13:45	0.0413	
		15:45	0.0415	
		9:15	0.0412	
137 Pit C	18/3/2022	14:15	0.041	
		16:15	0.0412	
	9:00	0.0419		
137 Pit B	18/3/2022	14:00	0.041	
		16:00	0.0414	
		9:20	0.0419	
137 Pit A	18/3/2022	14:20	0.0412	
		16:20	0.0415	
		9:45	0.0416	
WPR WF3 18/3/202	18/3/2022	14:45	0.0417	
		16:45	0.0411	

Name & Designation

<u>Signature</u>

<u>Date</u> 18/3/2022

Field Operator: Laboratory Staff:

Sampling equipment used:	Dates calibrated
MultiRAE Lite, PGM-6208	6/4/2021
M01C031772	0/ 1/2021

Sampling Location Date of		nnung Location Lessonnung timo	Monitoring wells/ Surface Gas Emission	Demerk
Sampling Location	Measurement		Carbon Dioxide (%)	Remark
		9:30	0.0416	
WRP WF4	18/3/2022	14:30	0.0419	
		16:30	0.0419	
		10:00		
Pit A	18/3/2022	15:00		
		17:00		
		10:15		
Pit B	18/3/2022	15:15		
		17:15		
	· · · · · · · · · · · · · · · · · · ·	10:15		
Pit D	18/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

18/3/2022

Field Operator: Laboratory Staff:

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
M01C031772	

Date of		npling Location Date of Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	Carbon Dioxide (%)			
		8:30	0.0415	
Area A	19/3/2022	13:30	0.0414	
		15:30	0.0412	
		8:45	0.041	
Area B	19/3/2022	13:45	. 0.0419	
		15:45	0.0415	
		9:15	0.0415	
137 Pit C	19/3/2022	14:15	0.041	
		16:15	0.042	
		9:00	0.0413	
137 Pit B	19/3/2022	14:00	0.042	
		16:00	0.0412	
		9:20	0.0416	
137 Pit A	19/3/2022	14:20	0.0416	
		16:20	0.0416	
		9:45	0.0411	
WPR WF3	19/3/2022	14:45	0.0411	
		16:45	0.0414	

Name & Designation

<u>Signature</u>

<u>Date</u> 19/3/2022

Field Operator:

Laboratory Staff:

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

Sampling Location	Date of	L Sompling time	Monitoring wells/ Surface Gas Emission	Remark
Camping Eccation	Measurement	Sampling time	Carbon Dioxide (%)	
		9:30	0.0411	
WRP WF4	19/3/2022	14:30	0.0414	
		16:30	0.0411	
		10:00		
Pit A	19/3/2022	15:00		
		17:00		
		10:15		
Pit B	19/3/2022	15:15		
		17:15		
		10:15		
Pit D	19/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

19/3/2022

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		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	Sampling une	Carbon Dioxide (%)	Remark	
		8:30	0.0414	
Area A	21/3/2022	13:30	0.0417	
		15:30	0.0418	
		8:45	0.0414	
Area B	21/3/2022	13:45	0.041	
		15:45	0.0412	
		9:15	0.0419	
137 Pit C	21/3/2022	14:15	0.0414	
		16:15	0.0414	
		9:00	0.0419	
137 Pit B	21/3/2022	14:00	0.042	
		16:00	0.0417	
		9:20	0.0414	
137 Pit A	21/3/2022	14:20	0.0411	
		16:20	0.0416	
		9:45	0.0416	
WPR WF3	21/3/2022	14:45	0.0419	
		16:45	0.0411	

Name & Designation

<u>Signature</u>

<u>Date</u> 21/3/2022

Field Operator:

Laboratory Staff:

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Date of	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
edinping zoodion	Measurement	oumpling ame	Carbon Dioxide (%)	
		9:30	0.0414	
WRP WF4	21/3/2022	14:30	0.042	
		16:30	0.0417	
		10:00		
Pit A	21/3/2022	15:00		
		17:00		
		10:15		
Pit B	Pit B 21/3/2022	15:15		
		17:15		
	a ann an Anna a	10:15		
Pit D	21/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

21/3/2022

Field Operator: Laboratory Staff:

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	6/4/2021	
M01C031772	0/4/2021	

Sampling Location Date of Measurement		Compling time	Monitoring wells/ Surface Gas Emission	Remark
		Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0419	
Area A	22/3/2022	13:30	0.0411	
		15:30	0.0414	
		8:45	0.0419	
Area B	22/3/2022	13:45	0.041	
		15:45	0.0412	
		9:15	0.042	
137 Pit C	22/3/2022	14:15	0.0415	
		16:15	0.0417	
		9:00	0.0412	
137 Pit B	22/3/2022	14:00	0.0417	
		16:00	0.0414	
		9:20	0.0412	
137 Pit A	22/3/2022	14:20	0.0414	
	16:20	0.0417		
		9:45	0.0415	
WPR WF3	22/3/2022 14:45	14:45	0.0417	
		16:45	0.0415	

Name & Designation

Signature

<u>Date</u> 22/3/2022

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Date of	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	Measurement		Carbon Dioxide (%)	Remark
		9:30	0.0418	
WRP WF4	22/3/2022	14:30	0.0417	
		16:30	0.0417	
		10:00		
Pit A	22/3/2022	15:00		
		17:00		
		10:15		
Pit B	22/3/2022	15:15		
		17:15		
		10:15		
Pit D	22/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

Date

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021	
M01C031772		

O	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	Sampling time	Carbon Dioxide (%)	Коталк	
		8:30	0.0414	
Area A	23/3/2022	13:30	0.0418	
		15:30	0.0411	
		8:45	0.0412	
Area B	23/3/2022	13:45	0.0411	
		15:45	0.0412	
		9:15	0.0414	
137 Pit C	23/3/2022	14:15	0.0413	
		16:15	0.0414	
		9:00	0.042	
137 Pit B	23/3/2022	14:00	0.0412	
		16:00	0.0413	
		9:20	0.0418	
137 Pit A	23/3/2022	14:20	0.0415	
	16:20	0.0417		
		9:45	0.0413	
WPR WF3 23/3/2022	23/3/2022	14:45	0.0416	
		16:45	0.0413	

Name & Designation

<u>Signature</u>

<u>Date</u> 23/3/2022

Field Operator: Laboratory Staff:

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Date of Measurement	Sampling time	Monitoring wells/ Surface Gas Emission Carbon Dioxide (%)	Remark
	Medbarement	9:30	0.0419	
WRP WF4	23/3/2022	14:30	0.0413	
		16:30	0.0413	
		10:00		
Pit A	23/3/2022	15:00		
		17:00		
		10:15		
Pit B	23/3/2022	15:15		
		17:15		
		10:15		
Pit D	23/3/2022	15:15		
		17:15		
	·····			

Name & Designation

<u>Signature</u>

Date

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021
M01C031772	0, 11202,

	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement		Sampling time	Carbon Dioxide (%)	Kemark
		8:30	0.042	
Area A	24/3/2022	13:30	0.0415	
		15:30	0.0415	
		8:45	0.0412	
Area B	24/3/2022	13:45	0.0419	
, ,		15:45	0.0414	
		9:15	0.0417	
137 Pit C	24/3/2022	14:15	0.0417	
		16:15	0.042	
		9:00	0.0411	
137 Pit B	24/3/2022	14:00	0.0412	
		16:00	0.0414	
		9:20	0.0411	
137 Pit A	24/3/2022	14:20	0.0416	
	16:20	0.0417		
		9:45	0.0415	
WPR WF3	24/3/2022	14:45	0.0418	
	16:45	0.0415		

Name & Designation

<u>Signature</u>

<u>Date</u> 24/3/2022

Field Operator: Laboratory Staff:

Sampling equipment used:	Dates calibrated	
MultiRAE Lite, PGM-6208	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Measurement		Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.0413	
WRP WF4	24/3/2022	14:30	0.0419	
		16:30	0.0413	
		10:00		
Pit A	24/3/2022	15:00		
		17:00		
		10:15		
Pit B	Pit B 24/3/2022	15:15		
		17:15		
	an contration and the second	10:15		
Pit D	24/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

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	6/4/2021
M01C031772	

	Date of		Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement		Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0417	
Area A	25/3/2022	13:30	0.042	
		15:30	0.0411	
		8:45	0.042	
Area B	25/3/2022	13:45	0.0417	
		15:45	0.0411	
		9:15	0.0417	
137 Pit C	137 Pit C 25/3/2022	14:15	0.0418	
		16:15	0.0414	
		9:00	0.0419	
137 Pit B	25/3/2022	14:00	0.0418	
		16:00	0.0417	
		9:20	0.0411	
137 Pit A	25/3/2022	14:20	0.0419	
	16:20	0.0414		
		9:45	0.0419	
WPR WF3	25/3/2022	14:45	0.0416	
		16:45	0.0413	

Name & Designation

<u>Signature</u>

<u>Date</u> 25/3/2022

Field Operator:

Laboratory Staff:

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	6/4/2021	
M01C031772	0/4/2021	

Sampling Location Date of		Sampling time	Monitoring wells/ Surface Gas Emission	Demeric
	Measurement	Sampling time	Carbon Dioxide (%)	Remark
		9:30	0.0414	
WRP WF4	25/3/2022	14:30	0.0419	
		16:30	0.0416	
		10:00		
Pit A	25/3/2022	15:00		
		17:00		
	· · · · · · · · · · · · · · · · · · ·	10:15		
Pit B	25/3/2022	15:15		
		17:15		
		10:15		
Pit D	25/3/2022	15:15		
		17:15		
	····			

Name & Designation

<u>Signature</u>

<u>Date</u>

25/3/2022

Field Operator: Laboratory Staff: Checked by: 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

Date of		Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	ampling Location Measurement		Carbon Dioxide (%)	Remark
		8:30	0.0413	
Area A	26/3/2022	13:30	0.041	
		15:30	0.042	
		8:45	0.0417	
Area B	26/3/2022	13:45	0.042	
		15:45	0.0416	
		9:15	0.0417	
137 Pit C	137 Pit C 26/3/2022	14:15	0.0414	
		16:15	0.0411	
		9:00	0.0416	
137 Pit B	26/3/2022	14:00	0.0415	
		16:00	0.0411	
		9:20	0.0415	
137 Pit A	26/3/2022	14:20	0.0415	
	16:20	0.0413		
		9:45	0.0413	
WPR WF3	26/3/2022	14:45	0.042	
		16:45	0.041	

Name & Designation

Signature

<u>Date</u> 26/3/2022

Field Operator:

Laboratory Staff:

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	6/4/2021
M01C031772	0/4/2021

Sampling Location	Date of	Sampling time	Monitoring wells/ Surface Gas Emission	Domosła
Camping Location	Measurement		Carbon Dioxide (%)	Remark
		9:30	0.0416	
WRP WF4	26/3/2022	14:30	0.0416	
		16:30	0.041	
		10:00		
Pit A	26/3/2022	15:00		
		17:00		
		10:15		
Pit B	26/3/2022	15:15		
		17:15		
		10:15		
Pit D	26/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

26/3/2022

Field Operator: Laboratory Staff: Checked by: 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	6/4/2021
M01C031772	0/ 1/2021

Date of		Sampling time Monitoring wells/ Surface Gas Emission	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location	Measurement		Carbon Dioxide (%)	
		8:30	0.0411	
Area A	28/3/2022	13:30	0.042	
		15:30	0.041	
		8:45	0.0414	
Area B	28/3/2022	13:45	0.0412	
		15:45	0.042	
		9:15	0.0417	
137 Pit C	137 Pit C 28/3/2022	14:15	0.0413	
		16:15	0.0411	
		9:00	0.0414	
137 Pit B	28/3/2022	14:00	0.0416	
		16:00	0.0418	
		9:20	0.0416	
137 Pit A	28/3/2022	14:20	0.0413	
		16:20	0.0412	
		9:45	0.0413	
WPR WF3 28/3	28/3/2022	14:45	0.0419	
		16:45	0.0412	

Name & Designation

<u>Signature</u>

<u>Date</u> 28/3/2022

Field Operator:

Laboratory Staff:

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	6/4/2021	
M01C031772		

Sampling Location	on Date of Sampling time	Monitoring wells/ Surface Gas Emission	Remark	
	Measurement Sam			Carbon Dioxide (%)
		9:30	0.0417	
WRP WF4	28/3/2022	14:30	0.041	
		16:30	0.041	
		10:00		
Pit A	28/3/2022	15:00		
		17:00		
		10:15		
Pit B	Pit B 28/3/2022	15:15		
	_	17:15		
		10:15		
Pit D	28/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

28/3/2022

Field Operator: Laboratory Staff:

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		Compling time	Monitoring wells/ Surface Gas Emission	Remark
		Sampling time	Carbon Dioxide (%)	Remark
		8:30	0.0418	
Area A	29/3/2022	13:30	0.0414	
		15:30	0.0419	
		8:45	0.0414	
Area B	29/3/2022	13:45	0.0416	
		15:45	0.0412	
		9:15	0.0419	
137 Pit C	137 Pit C 29/3/2022	14:15	0.0417	
		16:15	0.0412	
		9:00	0.0412	
137 Pit B	29/3/2022	14:00	0.0417	
		16:00	0.0417	
		9:20	0.0417	
137 Pit A	29/3/2022	14:20	0.0418	
	16:20	0.041		
		9:45	0.0412	
WPR WF3	29/3/2022	14:45	0.0414	
		16:45	0.0411	

Name & Designation

<u>Signature</u>

<u>Date</u> 29/3/2022

Field Operator: Laboratory Staff:

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	6/4/2021	
M01C031772	0/4/2021	

Sampling Location	Sampling Location Date of		Monitoring wells/ Surface Gas Emission	Remark
Measurement	Sampling time	Carbon Dioxide (%)	Remark	
		9:30	0.0417	
WRP WF4	29/3/2022	14:30	0.042	
		16:30	0.0413	
		10:00		
Pit A	29/3/2022	15:00		
		17:00		
		10:15		
Pit B	29/3/2022	15:15		
		17:15		
		10:15		
Pit D	29/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

29/3/2022

Field Operator: Laboratory Staff:

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	6/4/2021
M01C031772	

Date of		Compling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	ampling Location Measurement Sampling time Carbon Dioxide	Carbon Dioxide (%)	Kemark	
		8:30	0.041	
Area A	30/3/2022	13:30	0.0413	
		15:30	0.041	
		8:45	0.0415	
Area B	30/3/2022	13:45	0.042	
		15:45	0.042	
		9:15	0.0419	
137 Pit C 30/3/2022	14:15	0.0414		
		16:15	0.0413	
		9:00	0.0413	
137 Pit B	30/3/2022	14:00	0.041	
	-	16:00	0.041	
		9:20	0.0416	
137 Pit A	30/3/2022	14:20	0.0419	
	16:20	0.0411		
		9:45	0.0416	
WPR WF3 30/3/2022	14:45	0.0412		
	16:45	0.042		

Name & Designation

<u>Signature</u>

<u>Date</u> 30/3/2022

Field Operator: Laboratory Staff: Checked by: 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	6/4/2021
M01C031772	0/4/2021

Sampling Location	Sampling Location Date of	Sampling time	Monitoring wells/ Surface Gas Emission	Remark
Measurement	Sampling time	Carbon Dioxide (%)	Remark	
	o na annaichte	9:30	0.042	
WRP WF4	30/3/2022	14:30	0.0416	
		16:30	0.0411	
		10:00		······
Pit A	30/3/2022	15:00		
		17:00		
		10:15		
Pit B	30/3/2022	15:15		
		17:15		
		10:15		
Pit D	30/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

30/3/2022

Field Operator: Laboratory Staff:

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		Campling time	Monitoring wells/ Surface Gas Emission	Remark
Sampling Location Measurement	Sampling time	Carbon Dioxide (%)	Remark	
		8:30	0.0419	
Area A	31/3/2022	13:30	0.0416	
		15:30	0.0418	
		8:45	0.0419	
Area B	31/3/2022	13:45	0.0415	
		15:45	0.0417	
		9:15	0.0414	
137 Pit C	31/3/2022	14:15	0.0411	
		16:15	0.0418	
		9:00	0.0416	
137 Pit B	31/3/2022	14:00	0.0413	
		16:00	0.0418	
		9:20	0.0415	
137 Pit A	31/3/2022	14:20	0.0419	
	16:20	0.0415		
		9:45	0.041	
WPR WF3 31/3/2022	31/3/2022	14:45	0.042	
	16:45	0.0414		

Name & Designation

<u>Signature</u>

<u>Date</u> 31/3/2022

Field Operator: Laboratory Staff:

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 Carbon Dioxide (%)	Remark
		9:30	0.041	
WRP WF4	31/3/2022	14:30	0.0412	
		16:30	0.042	
		10:00		
Pit A	31/3/2022	15:00		
		17:00		
		10:15		
Pit B	31/3/2022	15:15		
		17:15		
		10:15		
Pit D	31/3/2022	15:15		
		17:15		

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator: Laboratory Staff: Checked by:

31/3/2022



# Appendix K

# Complaint Log and Regulatory Compliance Proforma



#### Table K-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
Reporting I thou	Frequency	Cumulative	<b>Complaint Nature</b>
1 – 31 March 2022	0	3	N/A

#### Table K-2 Statistical Summary of Environmental Summons

Departing Devied	<b>Environmental Summons Statistics</b>		
Reporting Period	Frequency	Cumulative	Details
1 – 31 March 2022	0	0	N/A

## Table K-3 Statistical Summary of Environmental Prosecution

Poporting Davied	<b>Environmental Prosecution Statistics</b>						
Reporting Period	Frequency	Cumulative	Details				
1 – 31 March 2022	0	0	N/A				



# Appendix L

# Site Inspection Proforma



Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. D: 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:	1		Inspected by:	ET: <u>H</u> Contractor: M	Sam Ng	wsd: My	Eric Ise
Weather	/						
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy
Temperature	20 C		Humidity	High	Moderate	Low	
Wind	Calm		Breeze	Strong			

		N/A	Yes	No	Photo/Remarks
	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		$\square$		
0.02	Is ET Leader's log-book kept readily available for inspections?		$\square$		
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?		$\square$		
	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	$\square$			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?	$\square$			
	Are road section near the site exit free from dusty material?		Ń		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		$\square$		
	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	$\square$			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	$\square$			
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?	$\square$			
1.11	Is exposed earth properly treated within six months after the last construction activity on site?				
1.12	Does the operation of plants on site free form dark smoke emission?		$\checkmark$		



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

		N/A	Yes	No	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	Ń			
	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	$\Box$			
	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	$\checkmark$			
	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	$\square$			
1.17	Is open burning prohibited?		$\checkmark$		
2.00	Construction Noise (Airborne)				
	Are quiet plants adopted on site?		$\square$		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		$\checkmark$		
2.03	Are plants throttled down or turned off when not in use?		$\square$		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?	$\square$			
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	$\square$			
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		$\square$		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		$\checkmark$		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	$\checkmark$			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?		$\overline{\mathbf{A}}$		
2.12	Are all construction noise permit(s) applied for percussive piling work?	$\square$			
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		$\square$		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?		$\square$		
3.0	2 Is effluent discharged according to the effluent discharge license?		$\square$		
3.0	3 Is wastewater discharge from site properly treated prior to discharge?		$\square$		



Unit 1908, Nos. 301.305 Castle Reak Road, Kwai Chung, N.T. O. 2333 6823 [ F. 2333-1316 ] F. prineral@acuitytik.com ] www.acuitytik.com

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



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

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



Unit 1908, Nos. 301.365 Castle Prak Poad. Kwai Chung. N.T. O. 2333 6823 [ F. 2333-1316 ] E. general@acutyhk.com [ www.acutyhk.com

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



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Keminder: Proper maintain the impervious materials at: slop surface to reduse dust generational generation. (Pit X) 2. House keeping should be improved on site (Po law road location A) 3. Storm chainge near the excavation area should be covered properly (Po law south road) Observation: 1. Clear the oil stain on ground, and avoid oil leakage from excavator. (Po Lam south road) Signatures: WSD's IEC's ET Contractor's Representative Representative Representative Representative (Name: Gre (Natue: Howard Chan (Name: Sam Na (Name: )



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: _//	13/2622		Inspected by:		sward Chan	+ - (J >	Eac le
Inspection Time: 09	=30- 11=3	20		Contractor: Mr	Sam Ng	IEC:	
Weather							
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy
Temperature	25 c		Humidity	High	Moderate	Low	
Wind	Calm	Light	Breeze	Strong			

		N/A	Yes	No	Photo/Remarks
	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site				-
0.02	entrances/exits for public's information at any time?				
0.02	Is ET Leader's log-book kept readily available for inspections?		$\square$		
1.00					
1.00	Construction Dust				1
1.01	Are dusty materials, such as excavated materials, building debris and construction				obs 2
1.00	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty				
	construction works for dust suppression?			$\square$	
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
1.05					
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust				
	emission during vehicle movement?		$\mathbf{V}$		
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?	$\checkmark$			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and				
	leaving the site?				
	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?	V			
	Is exposed earth properly treated within six months after the last construction activity on		$\Box$		
	site?				
1.12	Does the operation of plants on site free form dark smoke emission?				



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		0			
		N/A	Yes	No	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	$\checkmark$			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	$\checkmark$			
1.17	Is open burning prohibited?		$\checkmark$		
2.00	Construction Noise (Airborne)				
	Are quiet plants adopted on site?		$\square$		Reminder
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?				
2.03	Are plants throttled down or turned off when not in use?		$\checkmark$		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		$\checkmark$		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	$\checkmark$			
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		$\checkmark$		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11			$\checkmark$		
	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		$\checkmark$		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		
3.02	Is effluent discharged according to the effluent discharge license?		$\checkmark$		
3.03	Is wastewater discharge from site properly treated prior to discharge?				



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	
--------------	---------------------------------------	--

		1			
		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
	remove sand/silt particles from runoff?		$\checkmark$		
3.06	Is surface runoff diverted to sedimentation facilities?			$\Box$	
3.07	Is the drainage system properly maintained?				
0.07	is the dramage system property maintained?		$\checkmark$		
3.08	Are construction works carefully programmed to minimize soil excavation works during		<b>—</b> 7		
	rainy seasons?		1		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
0.40	soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				
3 11	Are exposed slope surface properly protected?				<i>n</i>
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
0.44	during construction?				
3.14	Is runoff from wheel-washing facilities avoided?				
			5		
3.15	Is oil leakage or spillage prevented?				1 1
2.40					ODS 1
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to				
	avoid them entering the streams?		$\checkmark$		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas,				
	within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		$\checkmark$		
	Are sufficient chemical toilets provided on site to handle sewage from construction work				
	force?		$\checkmark$		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?		$\checkmark$		
3.23	Is concrete washing water properly collected and treated prior to discharge?	$\checkmark$			
4.00	Waste Management	the later			
	is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public				
	filling facilities and landfills?		V		



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



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		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual	-			
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?				
	get a set of a contract y due construction works avoided.				
5.06	le exception works corried out monully instead of which is a state of the state of				
0.00	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07					
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?		$\square$		Decilia
			$\mathbf{\nabla}$		reminder 2
5.08	Are surgery works carried out for damaged trees?				
		$\mathbf{\nabla}$			
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?		<b></b>		
6.02	Are silt trap installed and well-maintained?				
		$\checkmark$			
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00	Overall				
7.01	is the EM&A properly implemented in general?		<b>F</b>		
			$\bigvee$		
1000		the second s			



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: RED Observation: Arena 1. Drip tray should be provided for chemical storage (up Arena Po road workfront 4) Moderne 2. Stockpile of dusty materials should be covered properly with improvious materials at Area A. Reminder: 1. NRIAM Label was observed faded. Contractor was reminded to replace & the NRIAIA Label. 2. To avoid stockpile of construction methy materials inside the tree protection zone at velodrome M. Signatures: WSD's IEC's ET Contractor's Representative Representative Representative Representative (Name: (Name: Ho word Char (Name: Som No (Name:



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

## WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date:			Inspected by:	ET: Contractor:	awgod Chan	WSD: IEC:		
Inspection Time:	9:30 - 11-30	<u>)</u>		Contractor, <u>r p</u>	- our rug	iEC		
Weather						-		
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	25 C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

		N/A	Yes	No	Photo/Remarks
	General		-		
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
0.02	Is ET Leader's log-book kept readily available for inspections?				
			$\checkmark$		
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?				
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty	1			
	construction works for dust suppression?				
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?			$\square$	
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?				
1.07			44		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?				
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?	1			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and				
	leaving the site?	1			
	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?	$\checkmark$			
1.11	Is exposed earth properly treated within six months after the last construction activity on				
1 1 2	site?				
1.12	Does the operation of plants on site free form dark smoke emission?		$\square$	$\square$	
			ليكف		



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		N/A	Yes	No	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	$\checkmark$			
	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	$\overline{\mathbf{A}}$			
1.17	Is open burning prohibited?				
2.00	Construction Noise (Airborne)		1	10 M	
	Are quiet plants adopted on site?				
	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		1		
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		$\bigvee$		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		$\checkmark$		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
	Are valid noise emission label(s) affixed to all air compressors operating on site?				
	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		1		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		$\Box$		
3.00	Water Quality			/	
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
3.02	Is effluent discharged according to the effluent discharge license?				Gbs )
3.03	Is wastewater discharge from site properly treated prior to discharge?				0552



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		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?		$\checkmark$		
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		$\checkmark$		
3.06	Is surface runoff diverted to sedimentation facilities?		$\checkmark$		
3.07	Is the drainage system properly maintained?		$\checkmark$		
	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?		$\checkmark$		
	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		$\checkmark$		
3.10	Are temporary access roads protected by crushed gravel?		$\checkmark$		
3.11	Are exposed slope surface properly protected?		$\checkmark$		
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		V		
1	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	Is runoff from wheel-washing facilities avoided?		r l		
3.15	ls oil leakage or spillage prevented?				obs
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				Reminder 3
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?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?				
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		$\checkmark$		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		$\checkmark$		
3.23	Is concrete washing water properly collected and treated prior to discharge?				
	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				



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		N/A	Yes	No	Photo/Remarks
4.02	disposed of?		$\overline{\mathbf{N}}$		
	Is the Contractor registered as a chemical waste producer?		$\checkmark$		
	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.05	Are trip tickets for chemical waste disposal available for inspection?				
4.06	Is chemical waste reused and recycled on site as far as practicable?				
4.07	Are all containers for chemical waste properly labelled?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
4.09	Are incompatible chemical wastes stored in different areas?	1/			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
	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?		$\checkmark$		
	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				Remarker 3
	Are sufficient general refuse disposal/collection points provided on site?				
	Is general refuse disposed of properly and regularly?		Ń		Reminder 2
	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		$\checkmark$		
	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		$\checkmark$		
	Are C&D wastes sorted on site?				
	Are C&D waste disposed of properly?				
	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
	Are the construction materials stored properly to minimize the potential for damage or contamination?		$\checkmark$		
4.22	is a dumping license obtained to deliver public fill to public filling areas?				



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Contract no.	13/WSD/	16 Mainlaying	in Tseung Kwan O
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		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	Is construction light oriented away from the sensitive receivers?				
	Is grass hydroseeding provided to slopes as soon as the completion of works?	$\square$			
	Are damages to trees outside site boundary due construction works avoided?		$\square$		
	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
	Are the retained and transplanted tree(s) properly protected and in good conditions?		$\checkmark$		Reminderty
5.08	Are surgery works carried out for damaged trees?	$\checkmark$			
	Ecology				
	Is site runoff properly treated to prevent any silly runoff?				
	Are silt trap installed and well-maintained?	$\square$			
5.03	Are stockpiles properly covered to avoid generating silty runoff?		$\checkmark$		
	Are construction works restricted to works area which are clearly defined?		$\checkmark$		
7.00	Overall		/		
7.01	Is the EM&A properly implemented in general?		$\checkmark$		



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: 1. Drip tray should be provided for chemical storage. (Pit P/velochome 2. Adequate capacity of sedimentation tank divided be provided to 12.) Autocal untreated muddy water at velod rorse L. pervent overflow of Reminder: 1. To exect the protection zone at velochrome N. 2. House Keeping chould be improved at velochrome M. 3. Debris should be collected properly to avoid entering the stream. (Po Low each road) Signatures: IEC's WSD's Contractor's ΕT Representative Representative Representative Represențative mound (Name: Sam N. (Name: An War Tak) (Name: )



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

#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: <u>24/3(20)2</u> Inspection Time: <u>945 - 10 - 15</u>	Inspected by:	ET: <u>HOWON</u> Contractor: <u>Mr. So</u>	rd. Chan m. Ag	wsd: <u>Mr.</u> iec: <u>Mr.</u>	1. 130 wis Kusa
Weather			,		
Condition Summy Fine	Overcast	Drizzle	Rain	Storm	Hazy
Temperature	Humidity	High	Moderate	Low	
Wind Calm Light	Breeze	Strong			

		N/A	Yes	No	Photo/Remarks
0.01	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		$\square$		
	Is ET Leader's log-book kept readily available for inspections?		Ń		
1.01	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		$\square$		
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	Ø			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	$\square$			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		$\square$		
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	Is exposed earth properly treated within six months after the last construction activity on site?		$\int$		
1.12	Does the operation of plants on site free form dark smoke emission?				



Contribute No. 201 (2017) of element karsething N.T. Of J.R.C.K.S.T. (2017) (2018) f. generalise of Contribute com

		N: A	Yes	No	Photo/Remarks
1 13	Are volucles travelling at speed not exceeding 15km hr within the site?		$\checkmark$		
	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	$\square$			
	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	$\square$			
	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				
1.17	ls open burning prohibited?				
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?		$\checkmark$		
	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		$\checkmark$		Remarder
2.03	Are plants throttled down or turned off when not in use?		$\mathbf{N}$		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?	$\square$			
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	$\checkmark$			
2.06	Are silencers, mufflers and enclosures provided to plants?	$\Box$			
	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		ť		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		$\checkmark$		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
	Are valid noise emission label(s) affixed to all air compressors operating on site?				
	Are all construction noise permit(s) applied for percussive piling work?				
	Are construction noise permit(s) applied for general construction works during restricted hours?		$\checkmark$		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
	is effluent discharged according to the effluent discharge license?		$\checkmark$		
3.03	Is wastewater discharge from site properly treated prior to discharge?		$\checkmark$		



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		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
			$\checkmark$		
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to		$\Box$		
3.06	remove sand/silt particles from runoff? Is surface runoff diverted to sedimentation facilities?				
			$\checkmark$		
3.07	Is the drainage system properly maintained?				obs 2
3.08	Are construction works carefully programmed to minimize soil excavation works during		r/i		
	rainy seasons?		$\sim$		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		$\square$		
3.10	Are temporary access roads protected by crushed gravel?				
			$\checkmark$		
3.11	Are exposed slope surface properly protected?	$\overline{\checkmark}$			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?		$\checkmark$		
	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
	during construction?	Lγ			
	Is runoff from wheel-washing facilities avoided?		$\checkmark$		
3.15	ls oil leakage or spillage prevented?	$\Box$			
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?		$\checkmark$		
3.17	Are the oil interceptors/ grease traps properly maintained?	$\checkmark$		$\square$	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to			_	
	avoid them entering the streams?				0052
	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?		$\checkmark$		
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from				
	the sensitive watercourse and stornwater drains?				
	Are sufficient chemical toilets provided on site to handle sewage from construction work force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?		$\checkmark$		
3.23	Is concrete washing water properly collected and treated prior to discharge?	$\checkmark$			
	Waste Management				
	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		$\checkmark$		



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ontract no.	13/WSC	/16 Mainlaying	in	Tseung	Kwan	0
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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 tisposed of?		$\checkmark$					
4.03	Is the Contractor registered as a chemical waste producer?		$\checkmark$					
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\square$						
4.05	Are trip tickets for chemical waste disposal available for inspection?	$\square$						
4.06	Is chemical waste reused and recycled on site as far as practicable?	$\checkmark$						
4.07	Are all containers for chemical waste properly labelled?		Í					
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		$\square$					
4.09	Are incompatible chemical wastes stored in different areas?	$\checkmark$						
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				obs l			
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?		$\checkmark$					
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		XXXX		0682			
4.13	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$					
4.14	ls general refuse disposed of properly and regularly?		$\checkmark$		Reminder 32			
	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		$\Box$					
	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		$\checkmark$					
4.17	Are C&D wastes sorted on site?		$\checkmark$					
	Are C&D waste disposed of properly?		$\checkmark$					
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	$\checkmark$						
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		$\checkmark$					
	Are the construction materials stored properly to minimize the potential for damage or contamination?		$\square$					
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		Ţ					



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



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation: 1. Chemical waste should be stored at a designated area before disposed (Creative school) 2. Excavated material (rubbish should be disposed of properly and priventes any soil entering the stream. (Creavitive school) Reminder 2 To replace the Gaded NRMM Label. (Creathe school ) P.K. WPRI V.
 General refuse shall be disposed of properly. (<u>Creative school</u>)
 Contractor was reminded to clear the stagnant water in drip tray after raining. (Creative school) Signatures: WSD's ET Contractor's IEC's Representative Representative Representative Representative (Nome: Junis Kinam (Name: Howad Chan) (Name: Son Ny (Name: 7/2 KA) (HUN)



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

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### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 30		Inspected by:	ET: H	0 11	WSD: Mr IEC:	K.C. Tre	
Inspection Time:	30-11-15		Contractor: <u>r</u>	Som Ng	IEC:		
Weather							
Condition	Sunny Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	21 C	Humidity	High	Moderate	Low		
Wind	Calm Light	Breeze	Strong				

		N/A	Yes	No	Photo/Remarks
	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		$\checkmark$		
0.02	Is ET Leader's log-book kept readily available for inspections?				
1.00	Construction Dust		1		
1.01	Are dusty materials, such as excavated materials, building debris and construction				
4.00	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	$\square$			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?	$\checkmark$			
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		$\checkmark$		
	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	$\overline{\mathbf{V}}$			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	$\checkmark$			
1.11	Is exposed earth properly treated within six months after the last construction activity on site?		$\square$		
1.12	Does the operation of plants on site free form dark smoke emission?				



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



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		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?		$\checkmark$		
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?		$\checkmark$		Reminder 4
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Are exposed slope surface properly protected?				
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	$\checkmark$			
3.14	Is runoff from wheel-washing facilities avoided?	$\checkmark$			
3.15	Is oil leakage or spillage prevented?				obs
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	$\overline{\checkmark}$			
3.17	Are the oil interceptors/ grease traps properly maintained?	$\checkmark$			
	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				Reminder 4
	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?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		$\checkmark$		
	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		$\checkmark$		
	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?				
	Is concrete washing water properly collected and treated prior to discharge?			<u>~</u>	
4.01	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		$\checkmark$		



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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?		1		
4.03	Is the Contractor registered as a chemical waste producer?		$\checkmark$		
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\checkmark$			
4.05	Are trip tickets for chemical waste disposal available for inspection?	$\square$			
4.06	Is chemical waste reused and recycled on site as far as practicable?				
4.07	Are all containers for chemical waste properly labelled?	$\checkmark$			
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
4.09	Are incompatible chemical wastes stored in different areas?	$\checkmark$			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?	$\checkmark$			
1	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?				
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				obs2, remidely
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?		$\checkmark$		Reminder (
	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?				
	Are C&D wastes sorted on site?		$\square$		
4.18	Are C&D waste disposed of properly?		$\checkmark$		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
	Are the construction materials stored properly to minimize the potential for damage or contamination?				Reminder )
4.22	is a dumping license obtained to deliver public fill to public filling areas?		$\checkmark$		



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		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				Reminda 3
5.03	Is construction light oriented away from the sensitive receivers?		V		
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?		$\checkmark$		
5.05	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
5.06	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	$\Box$			
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?		$\checkmark$		Remindler3
5.08	Are surgery works carried out for damaged trees?	$\checkmark$	at 2	L	
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?				
6.02	Are silt trap installed and well-maintained?	$\checkmark$			
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00	Overall		/		
7.01	Is the EM&A properly implemented in general?		$\checkmark$		



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation 2 1. Drip tray should be provided for chemical storage. (Velodrome 2. To clear the stagnort water in drip tray & (velod come L. W. M.) Reminder: 1. General refuse charled be disposed of regular and properly. 2. Housekeeping shalled be improved on site. (Velodrome L.M.N) 3. To estimate establish tree protection zone and avoid stockpile of contraction materials insole the tree protection zene (velodrome 1) 4. Strom draim and channels shalled be cleaned regularly. and B (Veladrome ]. 1 Signatures: ET Contractor's WSD's IEC's Representative Representative Representative Representative (Name: C ) TSE KA CHU (Name: (Name: (Name: ) Som Nh



# Appendix M

## Proactive Environmental Protection Proforma



## **Proactive Environmental Protection for the Next Reporting Month**

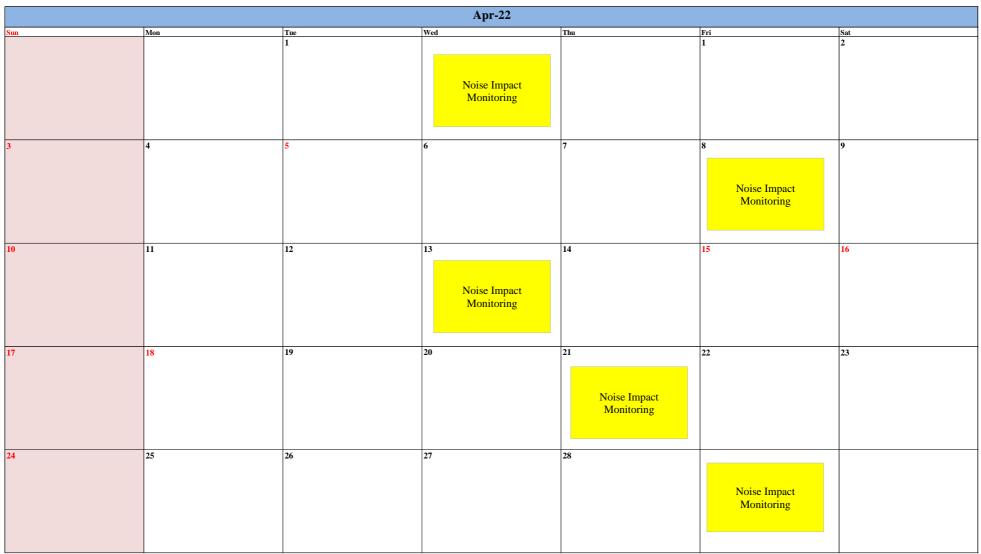
Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1 – 30 April 2022	<ul> <li>Excavation of trench</li> <li>Mainlaying of pipe</li> <li>Backfilling of the trench</li> <li>Work fronts for open trench</li> <li>Work fronts for pipe jacking</li> </ul>	Construction dust and noise generation; construction wastes; impact of water quality	



# Appendix N

## Impact Monitoring Schedule of Next Reporting Month (Tentative)

#### Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Tentative Environmental Monitoring Schedule



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



# Appendix O

## Academic Calendar(s)

Start         Store         Wo         Th         Fr         Start           August         15         16         17         18         19         20         21         19-20         Orientation Day           22         23         24         25         26         27         28         23/08         First School Day           September         1         1         2         3         4         1         2         3         4           September         1         1         2         3         4         1 <t< th=""><th></th></t<>	
22         23         24         25         26         27         28         23/08 First School Day           September         0         1         2         3         3         1         1           September         5         6         7         8         9         10         11           12         13         14         15         16         17         18         17/9 Swimming Gala           26         27         28         29         30         2         25/9 School Open Day 30/9 1st PD day           October         10         11         12         13         6         7         8         9           10         11         12         13         6         7         8         9           November         1         12         3         4         5         6         4/11 University Fair           14         15         17         18         9         10         11         12         13           14         15         16         17         18         19         20         15/11 2nd PD Day, 19/11 Sports Day           14         15         17         18         9	
29         30         31         1         2         3         4           September         5         6         7         8         9         10         11           12         13         14         15         16         17         18         179 Swimming Gala           19         20         21         16         17         18         179 Swimming Gala           26         27         28         29         30         259 School Open Day 30/9 1st PD day           October         10         11         12         13         15         16         14/10 Chung Yeung Festival           10         11         12         3         15         16         14/10 Chung Yeung Festival           117         18         19         20         21         15/11 2nd PD Day, 19/11 Sports Day           117         18         17         18         19         20         15/11 2nd PD Day, 19/11 Sports Day           12         13         14         15         16         17         18         19           14         15         16         17         18         19/11 Sports Day         21           28         29         3	
September         Image: second system	
5         6         7         8         9         10         11           12         13         14         15         16         17         18         17/9 Swimming Gala           19         20         21         18         17/9 Swimming Gala         25/9 School Open Day 30/9 1st PD day           26         27         28         29         30         21         170 Swimming Gala           0         11         12         13         14         15         16         1/10 Chung Yeung Festival           10         11         12         13         14         15         16         1/10 Chung Yeung Festival           31         -         -         -         -         -         -         -           31         -         -         -         -         -         -         -           14         15         17         18         19         20         15/11 2nd PD Day, 19/11 Sports Day           21         22         23         4         5         6         4/1         11           112         13         14         15         16         17         18         17/2 Creative Christmas Festival <tr< td=""><td></td></tr<>	
12       13       14       15       16       17       18       179 Swimming Gala         19       20       21       12       23       24       25       22/9 The following Day of Mid-Autum Festival         260       3       4       5       6       7       8       9         10       11       12       13       12       15       16       14/10 Chung Yeung Festival         21       10       11       12       13       12       12       22       15-23/10 Term break         24       25       26       27       28       29       30       14       10       11       12       13       14       15       16       4/11 University Fair         7       8       9       10       11       12       13       4       5       6       4/11 University Fair         22       12       23       24       25       26       27       28       29       30       14       15       16       17       18       17/12 Creative Christmas Festival         28       29       30       1       2       3       4       25       26       27       28       29 </td <td></td>	
19       20       21       21       23       24       25       22/9 The following Day of Mid-Autumn Festival         260       27       28       29       30       25/9 School Open Day       30/9 fst PD day         October       3       4       5       6       7       8       9       1/10 National Day of the People's Republic of China         10       11       12       13       02       21       22       15-23/10 Term break         24       25       26       27       28       29       30       1         11       12       3       4       5       6       4/11 University Fair         7       8       9       10       11       12       13       14       15       6       4/11 University Fair         7       8       9       10       11       12       13       14       15       16       17/1 18       19       20       15/11 2nd PD Day, 19/11 Sports Day         21       22       23       24       25       26       27       28       29       30       11       11/1 12       11/1 2nusical Performance         22       23       24       25       26	
26       27       28       29       30       25/9 School Open Day 30/9 1st PD day         October       3       4       5       6       7       8       9         10       11       12       13       11       15       16       1/1 0 National Day of the People's Republic of China         24       25       26       27       28       29       30         November       1       1       2       3       4       5       6       4/10 Chung Yeung Festival         14       15       16       17       18       19       20       21       22       30         November       1       2       3       4       5       6       4/11 University Fair         28       29       30       1       12       13       14       15       16       17       18       19/2       30       4       10       11       11/12 Musical Performance         12       13       14       15       16       17       18       17/12 Creative Christmas Festival         19       20       21       22       32       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas Day         J	
October         Image: style	
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10       11       12       13       15       16       14/10 Chung Yeung Festival         17       18       19       20       21       22       23       15-3/10 Term break         31       1       1       22       28       29       30         November       1       1       2       3       4       5       6       4/11 University Fair         14       15       16       17       18       19       20       15/11 2nd PD Day, 19/11 Sports Day         21       22       23       24       25       26       27         28       29       30	
17       18       19       20       21       22       23       15-23/10 Term break         24       25       26       27       28       29       30         November       1       1       2       34       5       6       4/11 University Fair         November       1       1       2       34       4       5       6       4/11 University Fair         14       15       16       17       18       19       20       15/11 2nd PD Day, 19/11 Sports Day         21       22       23       24       25       26       27         28       29       30       1       1       1       11/12 Musical Performance         12       13       14       15       16       17       18       17/12 Creative Christmas Fostival         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas A Nev         26       28       29       30       31       4       15       16       17       18         9       10       11       12       13       14       15       16       17       14       11/14       1	
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November       31       1       2       3       4       5       6       4/11 University Fair         November       1       1       2       3       4       5       6       4/11 University Fair         14       15       16       17       18       19       20       15/11 2nd PD Day, 19/11 Sports Day         21       22       23       24       25       26       27         28       29       30       -       -       -       -         28       29       30       -       -       -       -         28       29       30       -       -       -       -       -         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas & Nev         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas & Nev         January       -       -       -       -       11/11 New Year's Day         January       -       -       -       -       -       -         10       11       12       13       14       15       -       -	
November         1         2         3         4         5         6         4/11 University Fair           7         8         9         10         11         12         13           14         15         16         17         18         19         20         15/11 2nd PD Day, 19/11 Sports Day           21         22         23         24         25         26         27           20         28         29         30         -         -         -           20         5         6         7         8         9         10         11         11/12 Creative Christmas Festival           19         20         21         22         23         24         25         25/12 Christmas Holiday. 20/12-3/1 Christmas & Nev           21         20         21         22         32         4         5         6         7         8           21         20         21         22         3         4         5         6         7         8           226         21         22         2         2/12         2         1/1 New Year's Day           January         10         11         12         13 </td <td></td>	
7       8       9       10       11       12       13         14       15       16       17       18       19       20       15/11 2nd PD Day, 19/11 Sports Day         21       22       23       24       25       26       27         28       29       30       1       2       3       4         December       5       6       7       8       9       10       11       11/12 Musical Performance         12       13       14       15       16       17       18       17/12 Creative Christmas Festival         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas & Nev         January       11       12       13       14       15       16       17       18         9       10       11       12       13       14       15       17/12 The first weekday after Christmas Day         January       2       3       4       5       6       7       8       1/1       18         10       11       12       13       14       15       16       17       18       19	
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21       22       23       24       25       26       27         28       29       30       1       2       3       4         5       6       7       8       9       10       11       11/12 Musical Performance         12       13       14       15       16       17       18       17/12 Creative Christmas Festival         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas & New         26       87       28       29       30       31       27/12 The first weekday after Christmas Day         January       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       28/1 Creative Christmas Festival         30       31       11       12       13/14       15       16       17       18       19         February       6       7       8       9       10       11	
28       29       30       20       20       3       4         December       5       6       7       8       9       10       11       11/12 Musical Performance         12       13       14       15       16       17       18       17/12 Creative Christmas Festival         19       20       21       22       23       24       25       25/12 Christmas Holiday. 20/12-3/1 Christmas & Nev         26       87       28       29       30       31       27/12 The first weekday after Christmas Day         January       2       3       4       5       6       7       8         January       2       3       4       5       6       7       8         January       2       3       4       5       6       7       8         January       10       11       12       13       14       15         January       2       3       4       5       6       7       8         20       21       22       26       27       28       29       28/1 Creative Christmase Festival         30       31       1       12       11 <td< td=""><td></td></td<>	
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15 16 17 18 19 20 21	
22         23         24         25         26         27         28         25/5 School Self-Evaluation Day.	
29 <b>30 31</b>	
1 2 3 4 3/6 Tuen Ng Festival. 2/6 Graduation	
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12 <b>13 14 15 16 17</b> 18	
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2 01/07 HKSAR Establishment Day	
July <u>3 <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> 4/7-14/8 Summer Holiday</u>	
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7 8 9 10 11 12 13 12/08 New Staff Meeting	
14 15 16 17 18 19 20 16-17/08 Staff Meeting	
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School Holiday Public Holiday	
Staff Development Day	