

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

Your reference:

Our reference:

HKWSD201/50/107243

Date: 19 Apr

19 April 2021

Attention: Mr Y M Chan

**BY POST** 

Dear Sirs

Quotation No.: WQ/17/A071 Independent Environmental Checker for Water Supplies Department – Proposed Desalination Plant in TKO Area 137 for Contract No. 13/WSD/16 Verification of Monthly EM&A Report No.32

We refer to email of 15 April 2021 attaching Monthly EM&A Report No.32 for the captioned project prepared by the ET.

We have no comment and hereby verify the Monthly EM&A Report No.32 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

amo

James Choi Independent Environmental Checker

CPSJ/KSYL/CYYR/lsmt



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# Contract No. 13/WSD/16

# Mainlaying in Tseung Kwan O

# Monthly EM&A Report No. 32 (Period from 1 to 31 March 2021)

April 2021 (Rev. 0)

	Prepared by:	Certified by:
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Position	EnvironmentalTeam	Environmental Team Leader
Signature	d.	h
Date:	14/04/2021	14/04/2021



# **Revision History**

0	1 <sup>st</sup> Submission	14 Apr 2021
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 32<sup>nd</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 2021 to 31 March 2021.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

#### Summary of Main Works Undertaken & Key Mitigation Measures Implemented

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

Location	Location	Works Conducted in the reporting month
Portion H of the	TKO 137 Fill Bank Desalination Plant & SENTX area	Hydrostatic pressure testing for completed MS1200 pipeline section.
Project Site	TKO 137 Pit B	• Pipe Jacking by TBM was conducted.
	TKO 137 Pit C	<ul> <li>Construction of receiving pit was completed.</li> </ul>
Portion J of the Project Site	Wan Po Rd – Workfront 1	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Workfront 2	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>Trial pit works for Pit 2 was conducted.</li> </ul>
	Wan Po Rd – Workfront 3	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Workfront 4	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Pit A	<ul> <li>Grouting works for trenchless pit was in-progress,</li> <li>Pit excavation and ELS works was in- progress.</li> </ul>



Location	Location	Works Conducted in the reporting month
	Wan Po Rd – Pit B	• Drilling and re-grouting works were conducted.
	Landfill Stage 1 – Area A	<ul> <li>Trench excavation and pipe laying were conducted.</li> <li>Construction works for 900HSV chamber were conducted.</li> </ul>
	Landfill Stage 1 – B	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Cycle Track – Workfront 1	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Cycle Track – Workfront 2	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Velodrome – Pit K	Trenchless hand-shield works were conducted.
	Velodrome – Pit J1A	<ul> <li>Formation of access road and preparation works for jacking pit was conducted.</li> </ul>
	Velodrome – Pit M	Pipe jacking works were conducted.
	Velodrome – Pit O	Pipe jacking works were conducted.
	Mau Wu Tsai – Workfront 1	Trench excavation and pipe laying works were conducted.
	Mau Wu Tsai – Workfront 2	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	Po Lam Road	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	TKO Primary Service Reservoir	<ul> <li>Trial pit works were conducted.</li> <li>Trench excavation and pipe laying works were conducted.</li> </ul>

- A6. The major environmental impacts brought by the above construction works include:
  - Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, sheet and pipe pilling, TBM break through, excavation works and ELS works
  - Waste generation from the construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
  - Reduction of construction dust generation of saw cutting of concrete surface, mainlaying of pipes, sheet piling works, hole-drilling, excavation works and installation works by water spraying and covering dusty materials with screenings
  - Reduction of noise from equipment and machinery on-site
  - Sorting and storage of general refuse and construction waste



#### Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was conducted in the reporting month for NSR4 Creative Secondary School on 5, 11, 18, 24 and 31 March 2021 as construction works were conducted within 300m to the noise sensitive receiver. No projectrelated exceedance of the Action and Limit Level was recorded during the reporting period.
- A9. The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and Academic School Calendar can be found in Appendix O.

#### **Complaint Handling and Prosecution**

- A10. No project-related environmental complaint was received during the reporting period.
- 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 April 2021 (the next reporting month) for the Project will include the followings:

Location	Location	Forecast Works for January 2021
	TKO 137 Fill Bank Desalination Plant & SENTX area	<ul> <li>Hydrostatic pressure testing for completed MS1200 pipeline section will be conducted.</li> </ul>
Portion H of the Project Site	TKO 137 Pit A	<ul> <li>Preparation works for breakthrough of TBM from Pit B will be conducted.</li> </ul>
	TKO 137 Pit B	Pipe jacking works by TBM will be commenced.
Portion J of the Project Site	Wan Po Rd – Workfront 1	<ul> <li>Trench excavation and pipe laying will be conducted.</li> <li>Trial pit works for Pit 1 will be conducted.</li> </ul>
	Wan Po Rd – Workfront 2	Trench excavation and pipe laying



Location	Location	Forecast Works for January 2021
		<ul> <li>works will be conducted.</li> <li>Ground investigation works for Pit 2 will be commenced.</li> </ul>
	Wan Po Rd – Workfront 3	Trench excavation and mainlaying works will be conducted.
	Wan Po Rd – Workfront 4	Trench excavation and mainlaying works will be conducted.
	Wan Po Rd – Pit A	<ul> <li>Excavation and ELS works will be conducted.</li> <li>Grouting of trenchless pit will be conducted.</li> </ul>
	Wan Po Rd – Pit B	Drilling and re-grouting works will be conducted.
	Landfill Stage 1 – Area A	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> <li>900HSV Chamber construction works will be conducted.</li> </ul>
	Landfill Stage 1 – Area B	Trench excavation and pipe laying works will be conducted.
	Cycle Track – Workfront 1	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Cycle Track – Workfront 2	Trench excavation and pipe laying works will be conducted.
	Velodrome – Pit K	• Trenchless pit for hand-shield works will be conducted.
	Velodrome – Pit L	Trenchless pit for hand-shield works     will be conducted.
	Velodrome – Pit J1A	Construction of jacking pit will be commenced.
	Velodrome – Pit M	Pipe jacking works will be continued.
	Velodrome – Pit N	Preparation works for TBM break through will be conducted.
	Velodrome – Pit O	Pipe jacking works will be continued.
	Mau Wu Tsai – Workfront 1	Trench excavation and pipe mainlaying works will be conducted.
	Mau Wu Tsai – Workfront 2	• Trench excavation and pipe mainlaying works will be conducted.
	Po Lam Road	Trench excavation and pipe mainlaying works will be conducted.
	TKO Primary Service Reservoir	Trench excavation and pipe laying works will be conducted.



- A14. The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, sheet and pipe pilling, TBM break through, excavation works and ELS works.
  - Waste generation from construction activities
- A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
  - Reduction of construction dust generation of saw cutting of concrete surface, mainlaying of pipes, sheet piling works, hole-drilling, excavation works and installation works by water spraying and covering dusty materials with screenings
  - Reduction of noise from equipment and machinery on-site
  - Sorting and storage of general refuse and construction waste



### **1. BASIC PROJECT INFORMATION**

#### 1.1 Background

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

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

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

#### 1.2 The Reporting Scope

This is the 32<sup>nd</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 2021 to 31 March 2021.

#### 1.3 Project Organization

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



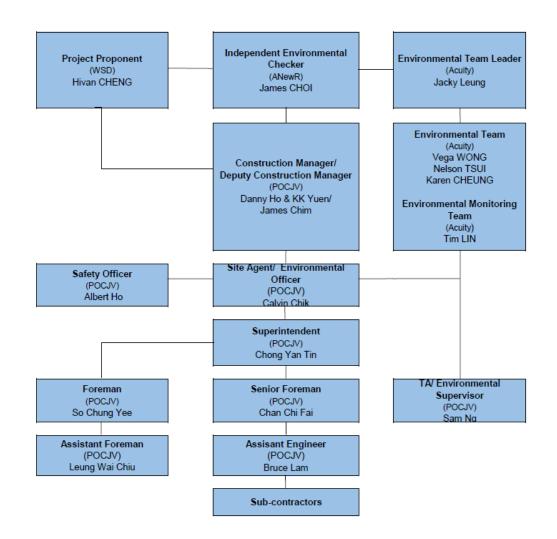


Figure 1.1 Project Organization Chart

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

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



### 1.4 Summary of Construction Works

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

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

Location	Location	Works Conducted in the reporting month	
Portion H of the	TKO 137 Fill Bank Desalination Plant & SENTX area	Hydrostatic pressure testing for completed MS1200 pipeline section.	
Project Site	TKO 137 Pit B	• Pipe Jacking by TBM was conducted.	
	TKO 137 Pit C	Construction of receiving pit was completed.	
	Wan Po Rd – Workfront 1	Pipe trench excavation and pipe laying were in-progress.	
	Wan Po Rd – Workfront 2	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>Trial pit works for Pit 2 was conducted.</li> </ul>	
	Wan Po Rd – Workfront 3	Pipe trench excavation and pipe laying were in-progress.	
	Wan Po Rd – Workfront 4	Pipe trench excavation and pipe laying were in-progress.	
	Wan Po Rd – Pit A	<ul> <li>Grouting works for trenchless pit was in-progress,</li> <li>Pit excavation and ELS works was in- progress.</li> </ul>	
	Wan Po Rd – Pit B	Drilling and re-grouting works were conducted.	
Portion J of the Project Site	Landfill Stage 1 – Area A	<ul> <li>Trench excavation and pipe laying were conducted.</li> <li>Construction works for 900HSV chamber were conducted.</li> </ul>	
	Landfill Stage 1 – B	Trench excavation and pipe laying were in-progress.	
	Cycle Track – Workfront 1	Trench excavation and pipe laying were in-progress.	
	Cycle Track – Workfront 2	Trench excavation and pipe laying were in-progress.	
	Velodrome – Pit K	Trenchless hand-shield works were conducted.	
	Velodrome – Pit J1A	<ul> <li>Formation of access road and preparation works for jacking pit.</li> </ul>	
	Velodrome – Pit M	• Pipe jacking works were conducted.	
	Velodrome – Pit O	Pipe jacking works were conducted.	



Location	Location	Works Conducted in the reporting month
	Mau Wu Tsai – Workfront 1	Trench excavation and pipe laying works were conducted.
	Mau Wu Tsai – Workfront 2	Trench excavation and pipe laying works were conducted.
	Po Lam Road	• Trench excavation and pipe laying works were conducted.
	TKO Primary Service	Trial pit works were conducted.
	Reservoir	• Trench excavation and pipe laying works were conducted.

#### 1.5 Summary of Environmental Status

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

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

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Variation of Environmental Permit	EP no.: EP-503/2015/A	Throughout the Contract	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref no.: 423775	Throughout the Contract	-
Chemical Waste Producer Registration	WPN: 5213-839-P3287-01	Throughout the Contract	-
Billing Account for Disposal of Construction Waste	A/C no.: 7029491	Throughout the Contract	-
Water Discharge Licence	WT00032336-2018	Until 31 Dec 2023	-
Construction Noise Permit	GW-RE0846-20	Until 31 Mar 2021	-
Construction Noise Permit (Hong Kong Velodrome)	GW-RE0961-20	Until May 2021	-

The status for all environmental aspects is presented Table 1.4.



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

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

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

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



# 2. NOISE MONITORING

#### 2.1 Monitoring Requirements

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

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

Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are projectrelated 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 5, 11, 18, 24 and 31 March 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and 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. No construction works were carried out during 1900-0700 in all days or any time on Sundays or general holidays during the reporting period.

Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq <sub>30min</sub> 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	
		Continuously in		
Daytime: 0700-1900	Once per week	L <sub>eq 5min</sub> /L <sub>eq 30min</sub> (average of 6 consecutive L <sub>eq 5min</sub> )	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>	

#### 2.3 Noise Monitoring Locations

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

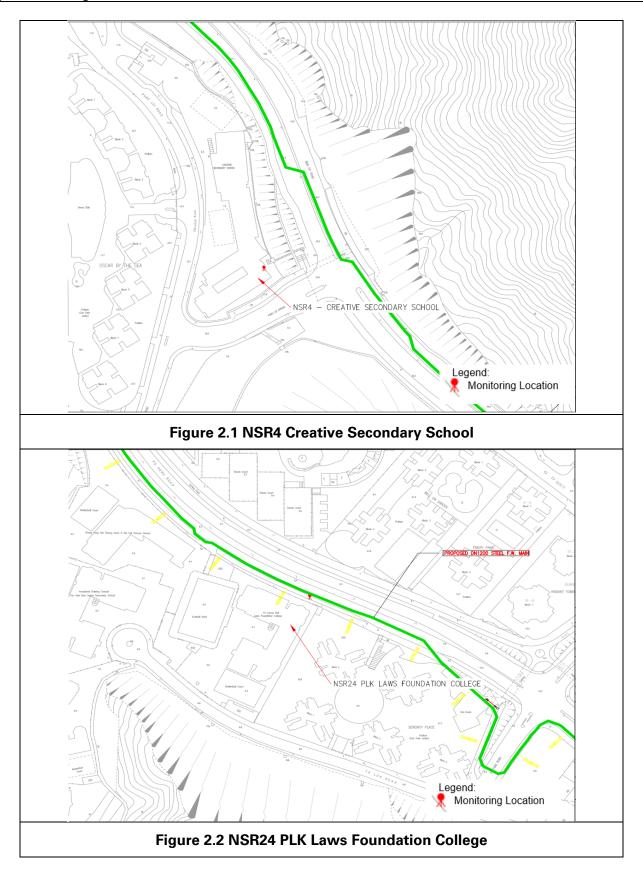
According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

Table 2.2 Noise Monitoring Location

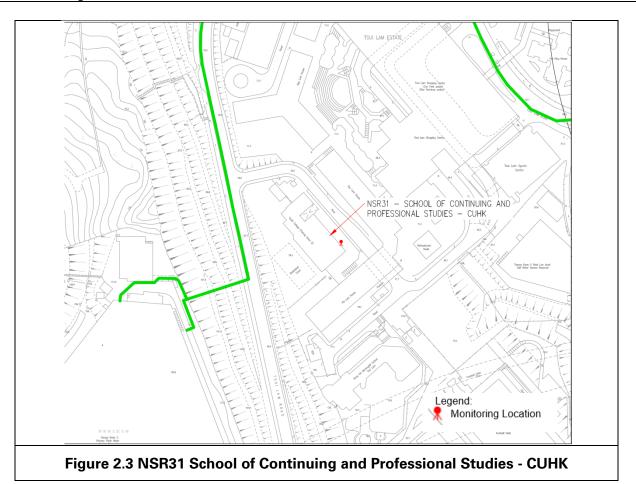
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

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









## 2.4 Impact Monitoring Methodology

Integrated sound level meter shall be used for the noise monitoring. The meter shall be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used are presented in **Appendix E**. Noise measurements shall not be made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.



Equipment	Brand and Model	Serial Number	Date of Calibration	Calibration Certificate Expiry Date	Detection Limit	
Sound Level Meter	Scarlet ST- 11D	820200	18/01/2021	17/01/2022	27-140dB (A)	
Sound Level Meter	NTi XL2	A2A- 13663-E0	09/09/2020	08/09/2021	30-130 dB(A)	
Sound Level Meter	Lutron SL- 4033SD	l.491835	07/12/2020	06/12/2021	30-130 dB(A)	
Sound Level Meter Calibrator	Pulsar 105	63705	06/08/2020	05/08/2021	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

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 GW-TM and IND-TM for construction and operation noise, respectively.					

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

#### 2.6 Monitoring Results and Observations

Referring to EM&A manual Section 4.1.2, impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 5, 11, 18, 24 and 31 March 2021.

The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement



after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and Academic School Calendar can be found in Appendix O.

Detailed monitoring results are presented in Appendix G.

#### **3. WASTE MANAGEMENT**

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

	Quantity					
			Non-inert C&D Materials			
Reporting period	Inert C&D Materials (in	Chemical Waste (in '000kg)	Others, e.g. General Refuse disposed at	Recycled materials		5
	'000m3)	Landfill (in '000m3)	Paper/card board (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)	
March-21	2.780	0.000	0.002	0.055	0.000	0.000

#### Table 3.1 Quantities of waste generated from the Project



### 4. LANDFILL GAS MONITORING

#### 4.1 Monitoring Requirement

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

#### 4.2 Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the consultation Zone. In this reporting period, 758 times of monitoring was recorded.

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

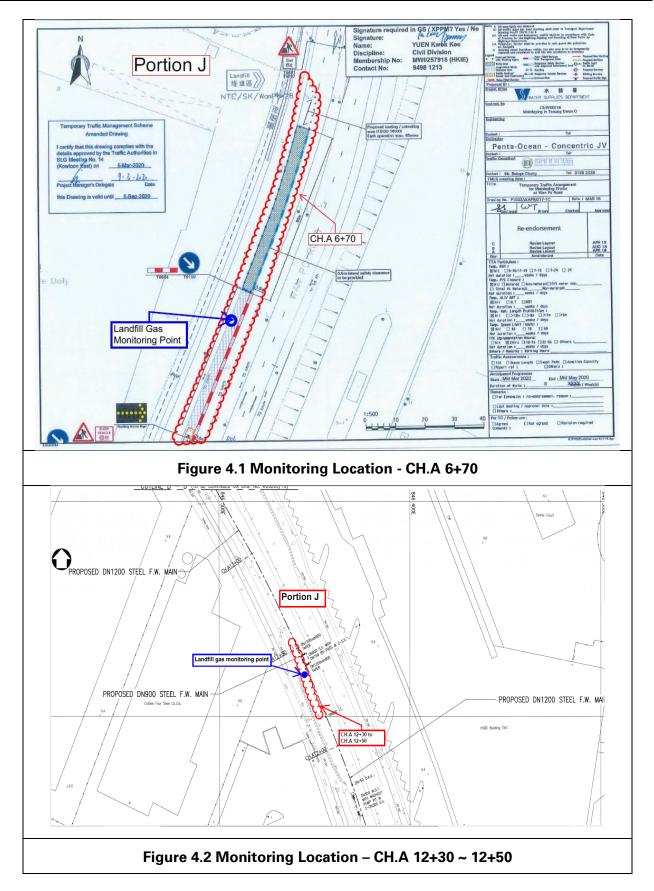
- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

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

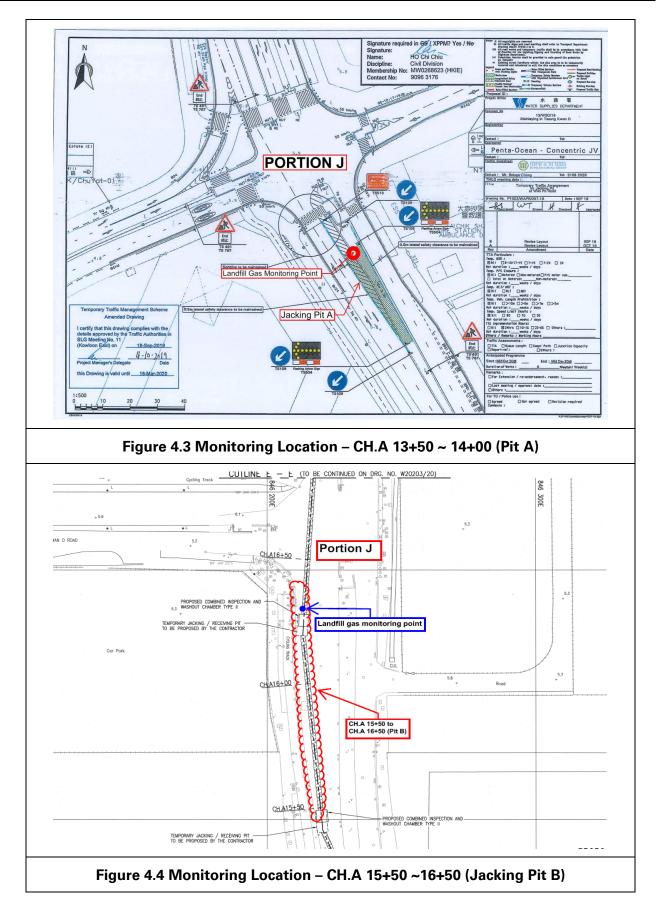
- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

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

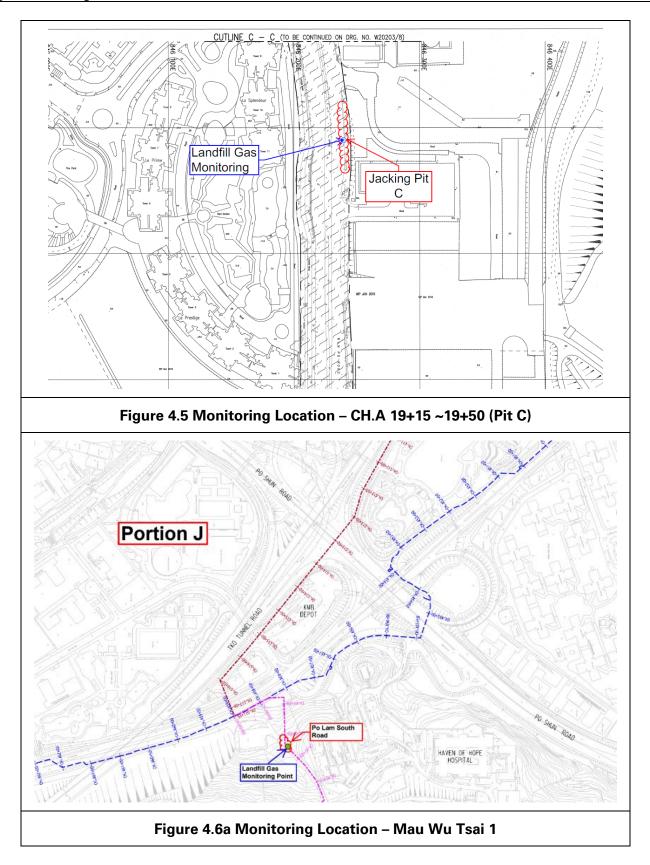




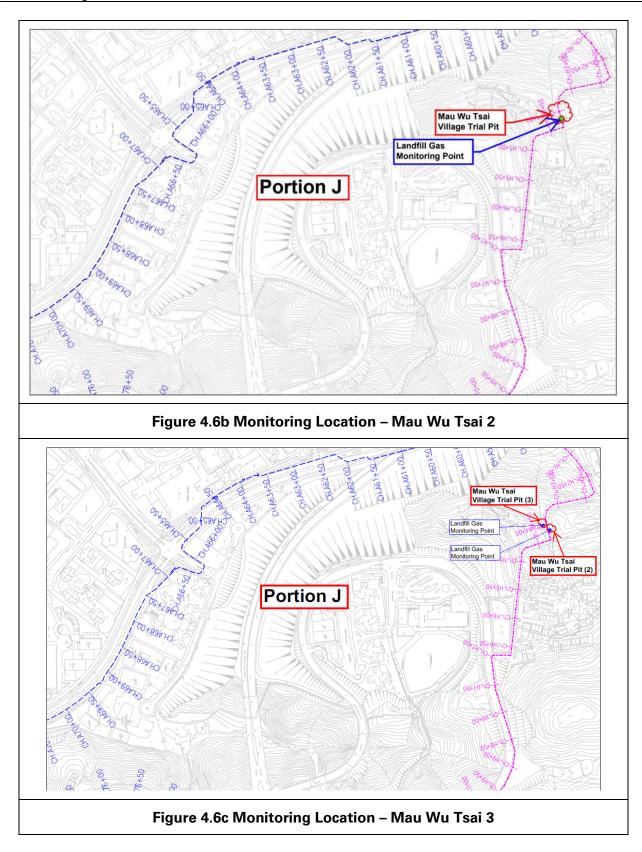














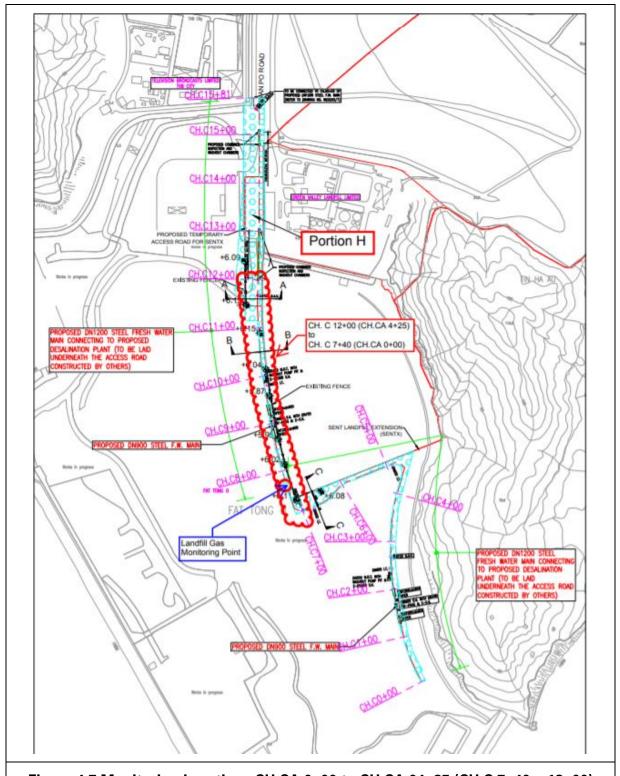
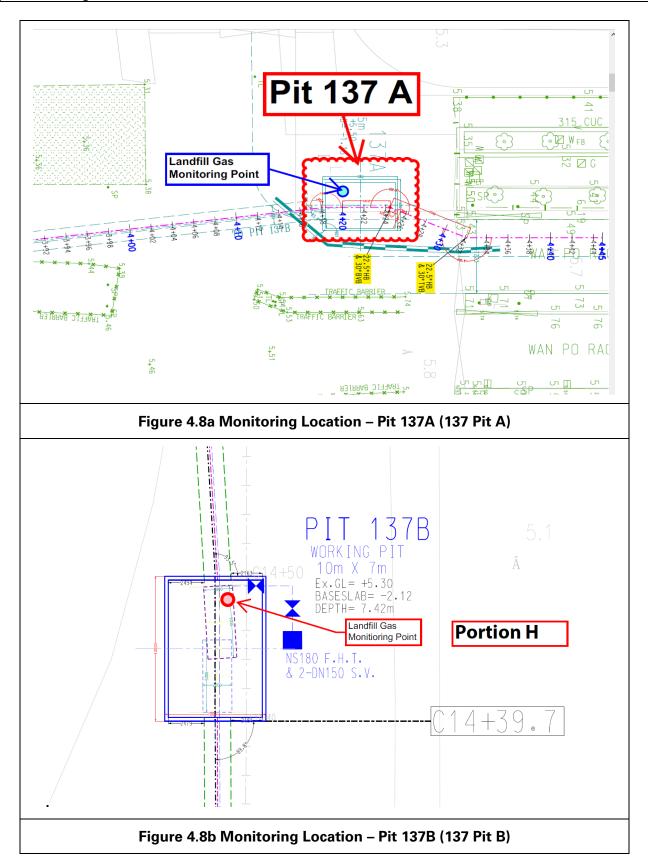
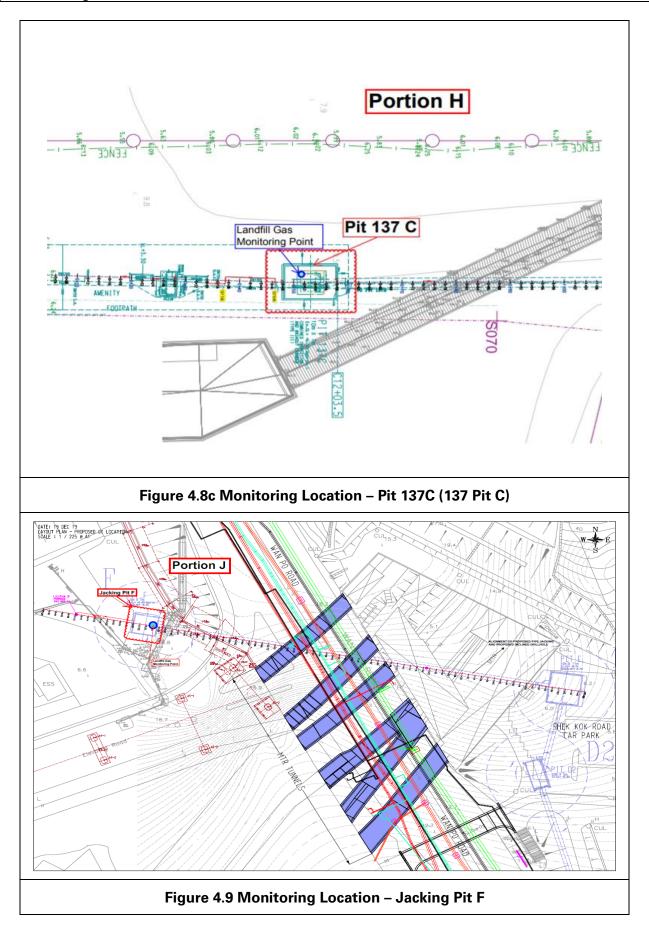


Figure 4.7 Monitoring Location -CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

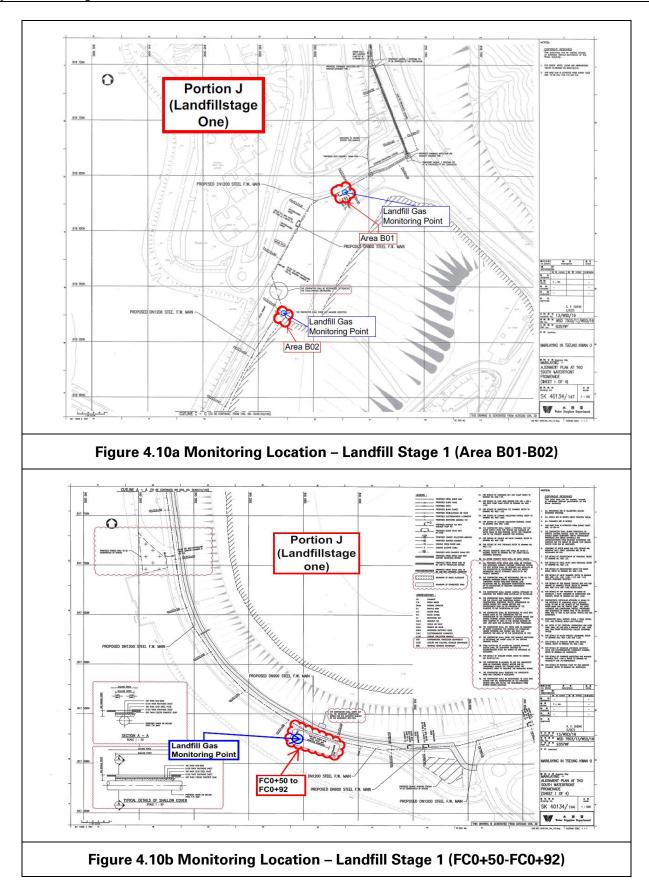




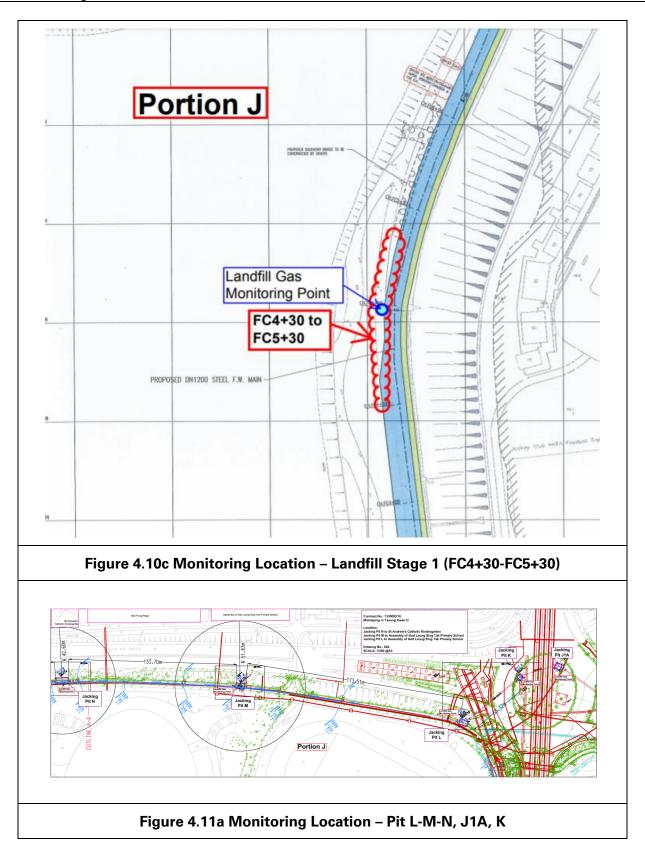




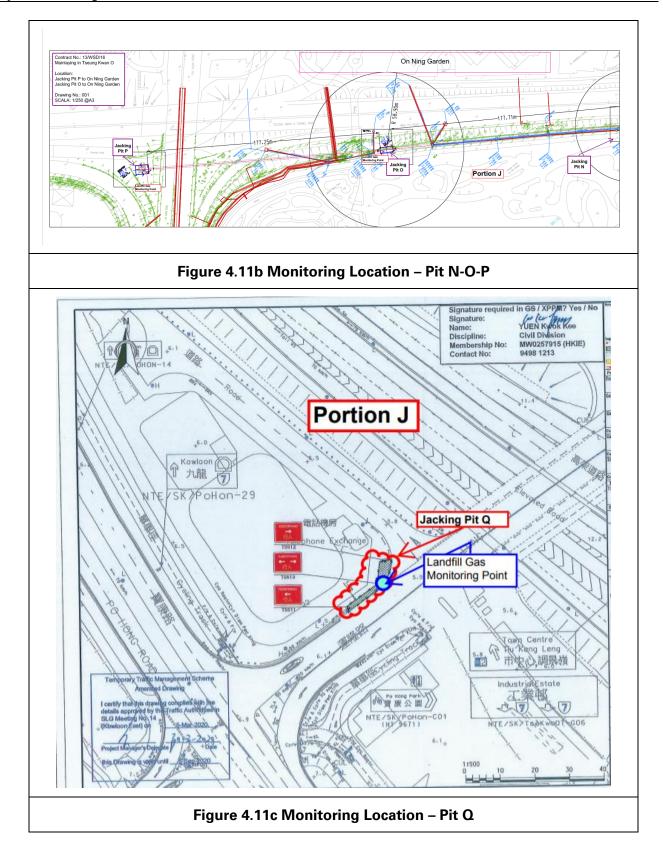




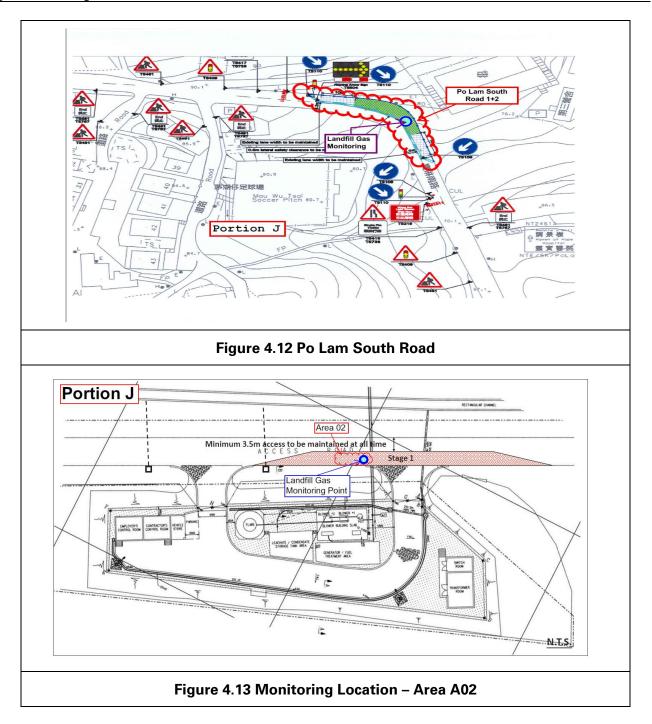




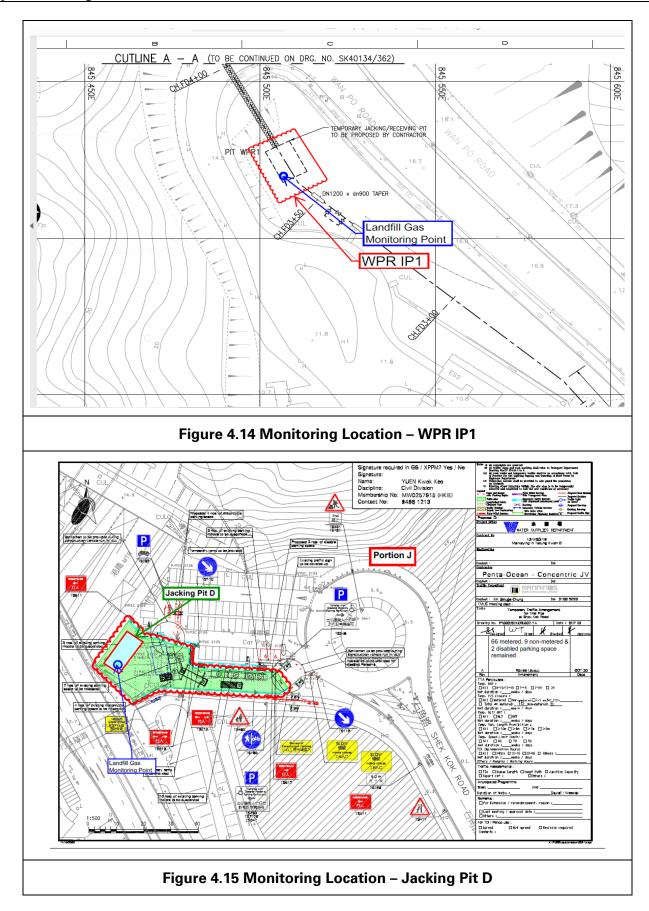




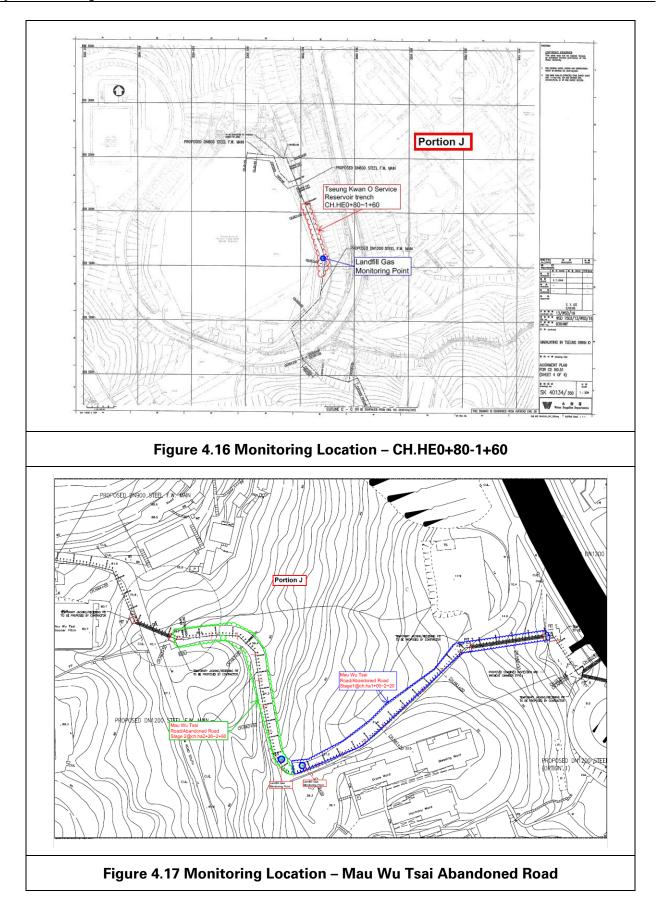




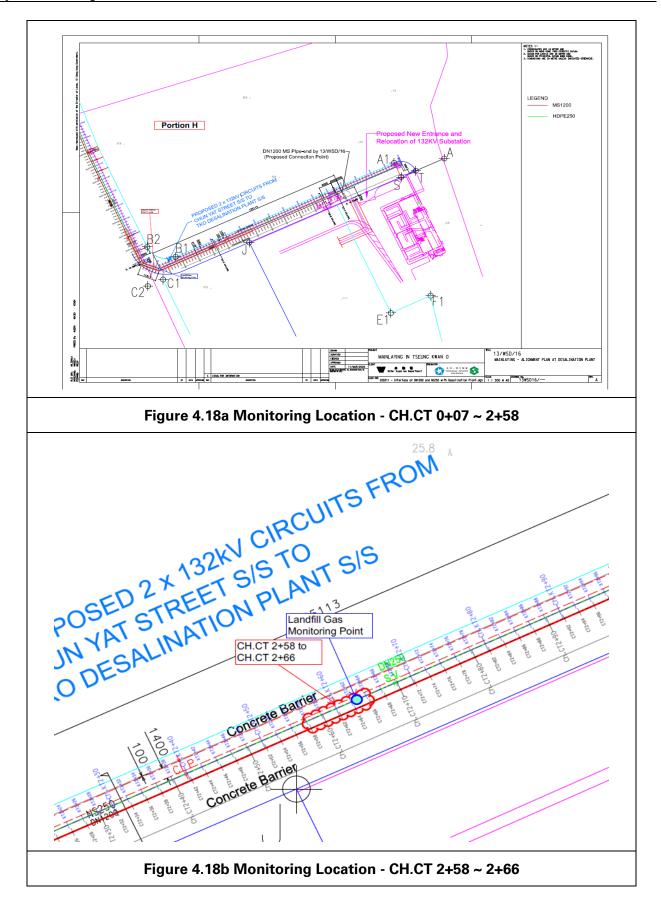




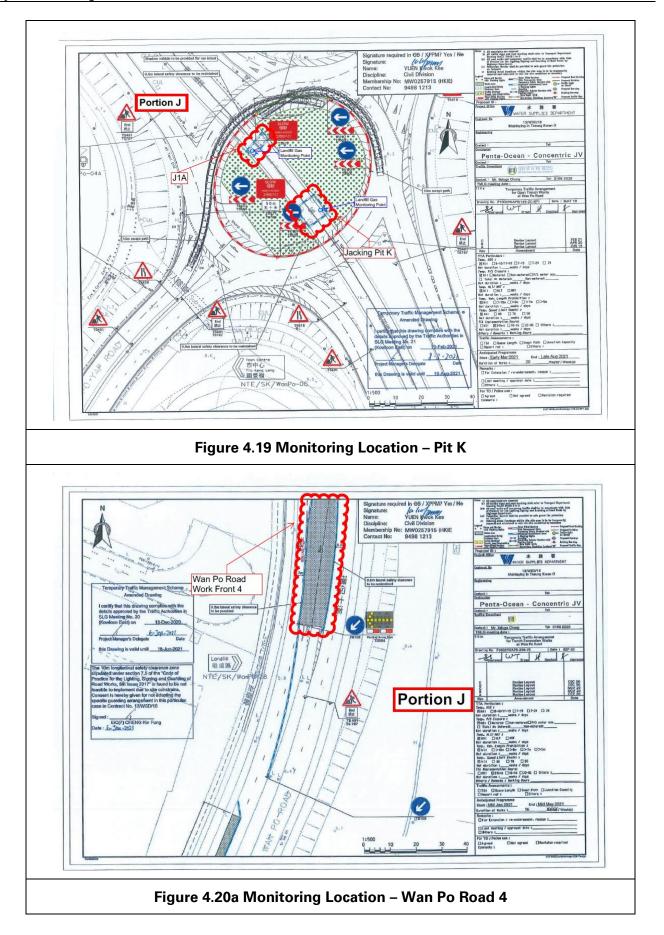




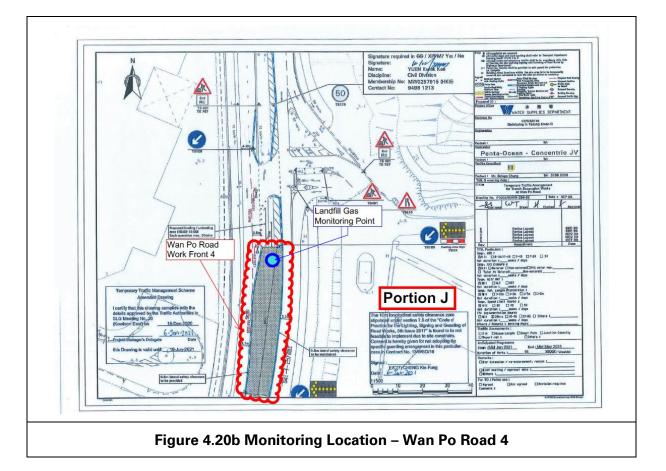












### 4.3 Monitoring Parameters

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

The following parameters were monitored:

- Methane.
- Oxygen.
- Carbon Dioxide.
- Barometric Pressure.



4.4 Action and Limit Level

Action and Limit Level are provided in Table 4.1.

#### Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

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

#### 4.5 Monitoring Equipment

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

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

Measure in the followi	ng ranges:
methane	0-100% Lower Explosion Limit (LEL) and 0
	100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-100% v/v; and
barometric pressure	mBar (absolute)

• Measure in the following ranges:

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

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

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



### Table 4.2 Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector	ORAE III	27 July 2021

#### 4.6 Monitoring Results

In the reporting period, construction works within the consultation zones, excavations of 1m depth or more was monitored. Landfill gas monitoring was carried out by the Registered Safety Officer by the Contractor at the excavation locations for 758 times. All the measured results were presented in **Appendix J** and within the Action and Limit Levels.



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

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

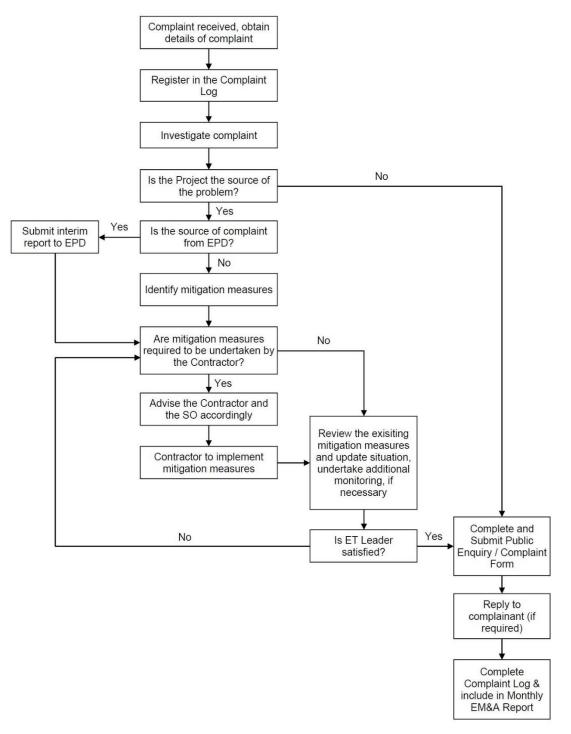


Figure 5.1 Environmental Complaint Handling Procedure



- 5.2 Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 5, 11, 18, 24 and 31 March 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 5.3 The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and Academic School Calendar can be found in Appendix O.
- 5.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 5.5 No project-related complaints that will affect compliances to EM&A manual and environmental permit was received in the reporting month.
- 5.6 No notification of summons and prosecution was received in the reporting period.
- 5.7 Statistics on complaints and regulatory compliance are summarized in **Appendix K**.

# 6. EM&A SITE INSPECTION

6.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 4, 11, 18, 22 and 31 March at the site portions list in **Table 6.1** below.

Date	Inspected Site Portion	Time
04 March 2021	Portion J	9:30am – 11:30am
11 March 2021	Portion J	9:30am – 12:00pm
18 March 2021	Portion J and H	9:30am – 11:30am
22 March 2021	Portion J	9:20am – 12:00pm
31 March 2021	Portion J and H	9:25am – 11:30am

#### Table 6.1 Site Inspection Record

- 6.2 One joint site inspection with IEC was carried out on 22 March 2021.
- 6.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.2**.



#### Table 6.2 Site Observations

Date	<b>Environmental Observations</b>	Follow-up Status
04 March 2021	<ol> <li>NRMM label was not found on the NRMM at CH.HE1+80~2+00.</li> <li>Chemicals were observed not placed on a drip tray at CH.HE1+80~2+00.</li> <li>Environmental permit was not observed at Mau Wu Tsai &amp; Mau Wu Tasi Road Abandoned Road.</li> </ol>	<ol> <li>NRMM label was found on the NRMM.</li> <li>Chemicals were placed on a drip tray.</li> <li>Environmental permit was observed.</li> </ol>
11 March 2021	<ol> <li>Chemicals were not placed in a drip tray at Wan Po Road 1 and Mau Wu Tsai.</li> <li>Construction materials shall not be placed on the plater rack at Wan Po Road 1, Wan Po Road 2 and Mau Wu Tsai.</li> <li>Dusty materials were found next to the water barriers at Wan Po Road 3. It should be cleaned to prevent the escape of construction materials from the construction site.</li> </ol>	<ol> <li>Chemicals were removed.</li> <li>Construction materials were cleaned.</li> <li>Dusty materials were cleaned.</li> </ol>
18 March 2021	<ol> <li>Environmental permit was not observed at 137 Pit A, Jacking Pit K.</li> <li>Construction boundaries should be protected by sandbags at Wan Po Road 1.</li> <li>Dusty materials were found next to the water barriers. The materials should be cleaned to prevent from escape from construction site at Wan Po Road 2.</li> <li>Construction materials shall not be placed on the planter rack to avoid damage to the trees nearby at Wan Po Road 2.</li> </ol>	<ol> <li>Environmental permit was observed.</li> <li>Construction boundaries were protected by sandbags.</li> <li>Dusty materials were cleaned.</li> <li>Construction materials were cleaned.</li> <li>The inlet point of the water sedimentation tank was connected to the water tube.</li> </ol>



Date	Environmental Observations	Follow-up Status
	5. The inlet point of the water sedimentation tank was not properly connected to the water tube to avoid backflow. Remediation actions should be implemented to avoid discharge of wastewater before treatment at Pit A.	
22 March 2021	No observations were recorde	d on the respective day.
31 March 2021	<ol> <li>Environmental permit was not observed at vehicle entrance/exit at 137 Pit B, Jacking Pit K.</li> <li>Wastewater was not treated before discharge and oil leakage was observed at Jacking Pit K.</li> </ol>	<ol> <li>Environmental permit was observed.</li> <li>Oil leakage was cleaned and no water was discharged.</li> </ol>

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



# 7. FUTURE KEY ISSUES

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

Table 7.1.	Key works	for the next	reporting month
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Location	Location	Forecast Works for January 2021
	TKO 137 Fill Bank Desalination Plant & SENTX area	Hydrostatic pressure testing for completed MS1200 pipeline section will be conducted.
Portion H of the Project Site	TKO 137 Pit A	Preparation works for breakthrough of TBM from Pit B will be conducted.
	TKO 137 Pit B	Pipe jacking works by TBM will be commenced.
	Wan Po Rd – Workfront 1	<ul> <li>Trench excavation and pipe laying will be conducted.</li> <li>Trial pit works for Pit 1 will be conducted.</li> </ul>
	Wan Po Rd – Workfront 2	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> <li>Ground investigation works for Pit 2 will be commenced.</li> </ul>
	Wan Po Rd – Workfront 3	Trench excavation and mainlaying     works will be conducted.
	Wan Po Rd – Workfront 4	Trench excavation and mainlaying works will be conducted.
	Wan Po Rd – Pit A	<ul> <li>Excavation and ELS works will be conducted.</li> <li>Grouting of trenchless pit will be conducted.</li> </ul>
Portion J of the Project Site	Wan Po Rd – Pit B	Drilling and re-grouting works will be conducted.
	Landfill Stage 1 – Area A	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> <li>900HSV Chamber construction works will be conducted.</li> </ul>
	Landfill Stage 1 – Area B	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Cycle Track – Workfront 1	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Cycle Track – Workfront 2	Trench excavation and pipe laying works will be conducted.
	Velodrome – Pit K	Trenchless pit for hand-shield works will be conducted.
	Velodrome – Pit L	Trenchless pit for hand-shield works     will be conducted.
	Velodrome – Pit J1A	Construction of jacking pit will be commenced.



Velodrome – Pit M	• Pipe jacking works will be continued.
Velodrome – Pit N	Preparation works for TBM break through will be conducted.
Velodrome – Pit O	Pipe jacking works will be continued.
Mau Wu Tsai – Workfront 1	Trench excavation and pipe mainlaying works will be conducted.
Mau Wu Tsai – Workfront 2	• Trench excavation and pipe mainlaying works will be conducted.
Po Lam Road	• Trench excavation and pipe mainlaying works will be conducted.
TKO Primary Service Reservoir	Trench excavation and pipe laying works will be conducted.

- 7.2 The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, sheet and pipe pilling, TBM break through, excavation works and ELS works.
  - Waste generation from construction activities
- 7.3 The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
  - Dust suppression by regular wetting and water spraying for saw cutting of concrete surface, mainlaying of pipes, pipe pilling, TBM break through, excavation works and ELS works
  - Reduction of noise from equipment and machinery on-site
  - Sorting and storage of general refuse and construction waste
- 7.4 The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.
- 7.5 Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 7.6 The tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.



### 8. CONCLUSION AND RECOMMENDATIONS

- 8.1 This is the 32<sup>st</sup> monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 March 2021 to 31 March 2021, in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 8.2 Impact monitoring for noise impact was conducted in the reporting month for NSR4 Creative Secondary School on 5, 11, 18, 24 and 31 March 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 8.3 The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and Academic School Calendar can be found in Appendix O.
- 8.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 8.5 Weekly environmental site inspection was conducted during the reporting period. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the project was therefore considered satisfactory.
- 8.6 According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, water treatment facilities, dust suppression mitigations and proper materials storage.
- 8.7 No project-related complaints that will affect compliances to the EM&A Manual and Environmental Permit was received in the reporting period.
- 8.8 No notification of summons or prosecution was received since the commencement of the Contract.
- 8.9 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



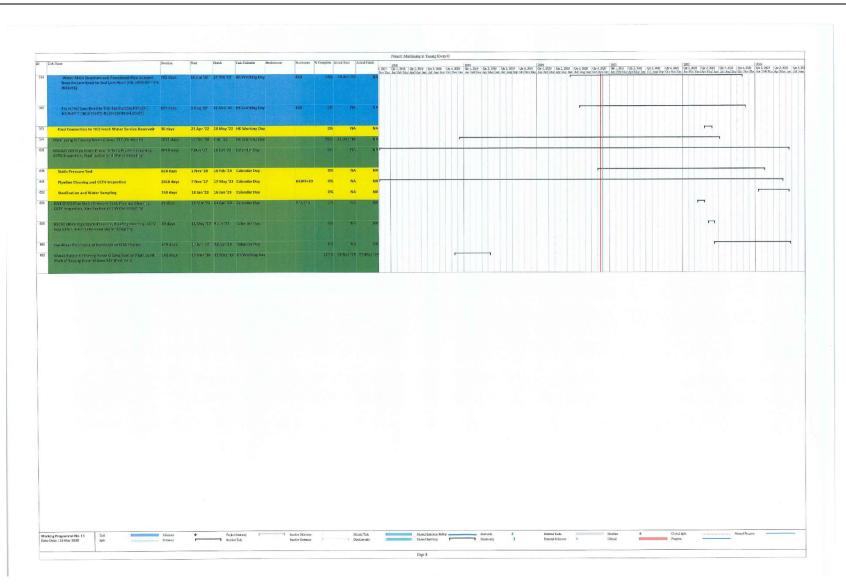
# Appendix A

# **Construction Programme**



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	Starting Date	0 days	16 Nov '17	16 Nov '17	Calendar Day			100% 16 No	17 16 1	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		59,32,40,4	100% 16 No	17 16 1	Nov '17 🕈 16/ 1												
	Access Date of Portion H	0 days	10 Aug '19	10 Aug '19	Calendar Day		582	100% 10 Au	g 19 10/	Aug *19				• 10/8								
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	Revised Completion Date (Including EDT - CE01 & CE23)	0 days	11 Feb '22	11 Feb '22	Calendar Day			103% 11 Fel	b'22 11 I	Feb '22									* 11/	2		
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	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25	0 days	12 Jul '18	12 Jul '18	Calendar Day		37	100% 12 Ju	18 12	: Jul '18	• 1	n										
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freshwater PSR	0 days	23 Aug '18	23 Aug '18	Calendar Day			100% 23 Au	6'18 23 <i>)</i>	Aug '18		• 23.8										
	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Kwan O Stage 1 Landfill	0 days	23 Aug '18	23 Aug '18	Calendar Day			107% 23 Au	gʻ18 23/	Aug '18		* 23.8										
4	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19	28 Feb '19	Calendar Day			100% 28 Fel	5'19 28	Feb '19			• 28/2									
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6	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	0 days	2 Aug '19	2 Aug '19	Calendar Day			100% 2 Au	e '19 Z )	Aug '19				<ul><li>◆ 2/8</li></ul>								
1	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilikies near Wan O Road at CH. A16+00 (Pit B	O days )	8 Aug '19	8 Aug '19	Calendar Day			100% 8 Au	6 °19 8	Aug '19				* 8/8								
8	Issue CE No. 2G - Change in Cathodic Protection System for Mild Steel Pipes	0 days	16 Aug '19	16 Aug '19	Calendar Day		51	100% 16 Au	g'19 16	Aug '19				16/8								
	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	O days	31 Dec '19	31 Dec '19	Calendar Dəy			100% 31 De	c'19 31	Dec '19					<b>*</b> 31/12							
0	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam	0 days	5 May '20	5 May '20	Calendar Day			100% 5 Ma	y'20 S N	viay "20"						* 5/5						
	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Betch No. 2)	0 days	22 May '20	22 May '20	Calendar Day			100% 22 Ma	y'20 22 I	vlay '20						<ul> <li>22/5</li> </ul>						
	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 Ju	n '20 9	Jun 20						\$ 9/6						
13	Issue CE No. 62 - Design of Pipe Support in Tsui Larn (Locatio 8) .	n Ω days	16 Jun '20	16 Jun '20	Calendar Day			100% 16 Ju	n'20 16	Jun 20						♦ 16/5						
14	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3)	0 days	21 Aug '20	21 Aug '20	Calendar Day			100% 21 Au	g'20 21	Aug '20						♦ 21/8						
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Burned Pipe, Exposed Pipe, Trenchless Works From Loi Avenue to Po Yap Road Roundabout	768 days	20 Apr '20 18	Nov 22 HK Work	king Day	641	7% 20 Apr '2	NA					-							-
Trenchinss Werk from Po Yap Road Roundabout to KMB Depot (Pit K to Pit P)	590 days	18 Nov '15 13	Nov 21 HK Worl	king Day	642	37% 18 Nov '1	NA				-								
Trenchlass Work from KMB Depot to Po Hong Road (Pit P to Pit R)	515 days	3 Avg '20 29	Apr 22 HK Worl	king Day	642	25% 3 Aug *2	D NA												
Open Trench from Pit R to Pit S & Trenchless Works from Pit S to Pit T	524 days	3 Aug '20 12	1 May '22 HK Worl	king Day	642	1% 3 Aug '2	0 NA											7	
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	1319 days	7 Nor '17 1	A ART '22 HK WA	taing Day	643	085 8	A INA												
Water Main Granting and American Eles Support					643	19% 5 Miky	9 NA					-					-		
access the Natural Stream Course (CH. HB0+00 ~ (H.H80+94)																			
	an analoue of a fait of a	automate for all for al	Transmenter of balant Material         1016 days         7 April 10         2           Transmenter of balant Material         1016 days         7 April 10         2	Normalization of balance of bal	Number Descention of balance for the form of	Number of the product of the	Numerican definition         Side days $7  Apr 21$ $A  Apr 22$ $A  Apr 22$ $A  Apr 24$ $A  Ap$	Numeration of balant Material         1364 day $7 \mu \mu^{-1}$ $8 A \mu \mu^{-1}$ $6 A \mu \mu^{-1}$ $7 \mu^{-1}$ $8 A \mu^{-1}$ $8 A \mu^{-1} \lambda^{-1}$ $8 A \mu^{-1} \lambda^{-1} \lambda^{-1} \lambda^{-1}$ $8 A \mu^{-1} \lambda^{-1} \lambda^{-1} \lambda^{-1} \lambda^{-1} \lambda^{-1} \lambda^{-1}$ $8 A \mu^{-1} \lambda^{-1} \lambda^{$	Normal control         1014 dyr         7 Apr. 10         104 dyr         104 dyr <th< td=""><td></td><td></td><td></td><td></td><td>Answer Adder Advertige Alson a &lt;</td><td>Name     Name     Nam     Name     Name     Name</td><td>Norm       Norm       Norm</td><td>Name Name Name&lt;</td><td>Name     Name     Nam     Name     Name     Name</td><td>Number     Number     Number</td></th<>					Answer Adder Advertige Alson a <	Name     Nam     Name     Name     Name	Norm       Norm	Name Name<	Name     Nam     Name     Name     Name	Number     Number



	Nate	Deskos	Start Firith Tok Colestar Piedecessons 3	HALESSITS TO CA	ghen Actual Start Actual Fixed	NIK (h 2 3	200x Cr 5, 2008 C Sey has 3.4 Aug Sep C	2010	Dir 2, 2022 1	Dr 1, 2019   Or 1, 20	2820 D Oc 1 2028	0.2.329 003.3	0 01.20	2/21 Qr 1.2021 Qr	2.2021 Qr1.20	Qz1,203	202 Qr1, 302 4	2.302 Qr3.	2422 Qu /, 2472	Qr1,210 Q	212.203 Q:?	1 902) Qr -C 203	Qr1,201	Qr2.22
Ko	y Dates	2470 days	7 Nov'17 22 Jun'24 Celendar Day	-	DN 7 NOV'LT NA	to Ba Ja M	by here had how stop i	a Nov Dec Jan Beb	Mr Apr May Jon	Al Asy Sep Ot No	De: In Feb Ma	Age No. In: In AL	2 80 01 No Do	In Rh. Ha An	r May Jun Jul Au	Sor Oct Nev I	ee fan fit Mar i	p 52.0 Jul 24	ing Sep Oct New 2	He wa He also Je	er Mo. An . M	Aug. Set: OX NOV	Dec on Pet Ma	K AD MO
		0 days	7 Nov'17 7 Nov'17 Celender Day 3	6,28,2961	100% 7 Nov 17 7 Nov 17 # 2011																			
		0 days	16 Nov '17 15 Nov '17 Calendar Day		190% 16 Nav'17 16 Nov'17 * 1671																			
į	Access Date of Portion A, B, C, D, E, F and G	0 days	16 Nov '17 15 Nov '17 Celender Day 5	9,32,40,4	190% 16 Nov'17 16 Nov'17 * 16/11																			
ż	Access Date of Portion H	0 days	10 Aug '19 10 Aug '19 Celeader Day 5	387	100% 10 Aug '19 10 Aug '19					• 10/8														
		0 days	18 May '21 18 May '21 Calendar Day		100% 18 May '21 18 May '21										+ 18/5		+ 11/2							
		0 days	11 Feb '22 11 Feb '22 Calendar Day		100% 11 Feb 22 11 Feb 22												+ 11/2				• 230			
		0 days	23 Jun '23 23 Jun '23 Calendar Day 10		ON NA NA																* 4.54			
		0 deys	22 Jun '24 22 Jun '24 Calendar Day 10F5+365 days		0% NA NA 15% 7.Naz'17 NA												1.1.1.1			_	_			
	al alaying in Tuesang Kwas O	2055 days		əFS+355 d	35% 7 Nov 17 NA 12 Jul 18															-				
;	Issue CE No. 01 - Change In Pressure Bating of Watermain, Valves and Fittings from PN15 to PN25	0 days	12 Jul 18 12 Jul 18 Calendar Day	s/	100% 12101.18 12101.18		+ 101																	
į	Issue CE No. 64 - Feesibility Study of Realignment of Pipeline between Po hung Road and TKO Freshwater P3R	© deys	23 Aug '18 23 Aug '18 Calendar Day		100% 23 Aug '18 23 Aug '18		÷ 23/8																	
1	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Ewan O Stage 1 Landfill	© days	23 Aug 18 23 Aug 18 Calendar Day		300% 23 Aug '18 23 Ang '18		÷ 21/8																	
	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															
1	Issue CE No. 10 - Traffic Count and Prefiminary Traffic Analysis in Po Lam Road and Tsui Lam Road		19 Jun '19 29 Jun '19 Calendar Day		100% 19 Jun '19 19 Jun '19				•															
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (DI: A22+75)	0 days	2 Aug 19 2 Aug 19 Calendar Day		100% 2 Aug '19 2 Aug '19					+ 2/3														
1	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan D Road at CH. A16+00 (Pit B	0 deys	8 Aug '19 8 Aug '19 Calendar Day		100% 3 Aug '19 8 Aug '19					* 88														
2	Issue CE No. 26 - Change in Cathodic Protection System for MIId Steel Pipes	0 days		54	100% 16 Aug '19 16 Aug '19					<ul> <li>16/8</li> </ul>														
3	Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	0 days	31 Dec '19 31 Dec '19 Calendar Day		306% 31 Dec'19 31 Dec'19						* 3¥12													
1	Issue CE Ns. 55 - Dosign of the Water Mains Strutture and Associated Npc Support stross the Notoral Stream Course for Alternetive Alignment in Tsui Lem	0 days	5 May '20 5 Nay '20 Calendar Day		200% S May 20 S May 20							* 55												
1000	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		200% 22 May '20 22 May '20							* 22 <i>1</i> 5												
	Issue CE No. 64 - Tree Survey at Tsul Lam (Location A and Location 8)	0 days	9 Jun '20 9 Jun '20 Calendar Day		100% 9.Jun 20 9.Jun 20							+ 915												
	Issue CE No. 62 - Design of Pipe Support in Tsui I am (Locatio B) .		16 Jun '20 16 Jun '20 Calendar Day		100% 16 Jun '29 16 Jun '20							* 165												
	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Algement (Batch No. 3)	O days	21 Aug '20 21 Aug '20 Calendar Day		105% 21 Aug '20 21 Aug '20								+ 21 <i>1</i> 8											
	Prefix talics	1255 days	7 Hoy 17 14 Apr 14 Calindar Day		81% 7 Nov 17 NG																			
	Subression and Perreit Application	322 days	7 Nov '17 24 Sep '18 Calendar Day 7 Nov '17 11 Der '17 Calendar Day 2		101% 7 Nov '17 24 Sep '18		10 1 10							1.1										
	Submission of Safety Plan	35 days 45 days	7 Nov'17 11 Dec'17 Calendar Day 2 7 Nov'17 21 Dec'17 Calendar Day 2		100% 7 Nev 17 11 Dec 17																			
	Submission of Site Management Plan and Trip Ticket Submission of Key Penale	45 days 14 days	4 Dec '17 17 Dec '17 Calender Day 2 4 Dec '17 17 Dec '17 Calender Day 275+27 days		100% 4 Dec'17 17 Dec'17																			
	Submission of Key Propie Submission of Subroutractor Management Plan	19 days	7 Nov 17 6 Dec 17 Calendar Day 2		100% / Nor'1/ 6 Dec'17																			
	Submission of First Programme	7 days	7 Nov '17 13 Nov '17 Calendar Day 2		100% 7 Nov '17 13 Nov '17																			
	Submission of Pice Material (PN16)	56 days	1 Feb '18 27 Mar '18 Calendar Day 4	33	100% 1 Feb '18 27 Mar '18	-																		
	Approval of Pipe material submission (PN16)	137 days		6155+7 da	100% 28 Mar '18 11 Aug '18	-																		
	Appointment of Environmental Team	10 days	5 May '18 18 May '18 Calendar Day 50	35	100% 9 May '18 18 May '18		•																	
	Environmental Baseline Monitoring	17 days	25 May '18 14 Jun '18 Calendar Day 34		100% 23 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	75 days		65	100% 12 Jul '18 24 Sep '18																			
	Subcontracting	1122 days	16 Nov '17 11 Dec '20 Calendar Day		97% 16 Nov '17 NA																			
	Submission v to Approval	122 days	16 Nov'17 17 Mar 18 Kalendar Day		1000 16 from 17 17 6/81 18	-																		
1	Submission of seb-contractor selection procedure	24 days	Tallow 11 2 pair 11 contrade and 4	41 56.51.52F	100% 16 Nov 17 5 Dec 17																			
	. de la construcción de la constru	42 days	Actes to second a second second second	56,51,52F! 43	100% 10 De: '17 20 km '18																			
	Submission of Sub-contractor Condition	14 days 42 days		43 56,51,52Ft	100% 211an 18 3 Feb 18 100% 4 Feb 18 17 Mar 18	-																		
	Approval of Sub-contractor Condition Submission of Supplier Selection Procedure	42 02ys		45	100% 15 Nov 17 29 Jan 18																			
	Approval of Supplier Selection Procedure	42 days		61	100% 30 Jan '18 12 Mar '18	-											1111							
	Subcontractor Solution and Subcontracting	1110 days	23 New 17 13 Dec 20 Calandar Day	Sector Sector	978 73 Nov 17 NA																			
P	Traffic Consultant for Investigation Warks	30 days	23 Nov '17 22 Dec '17 Calendar Day 4	and the second second	100% 23 Nov '17 22 Dec '17																			
	Consultancy: Landscope 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	-																		
	Eavironmental Team	9 days	16 Apr '18 24 Apr '18 Calandar Day	34	100% 16 Apr 18 24 Apr 18																			
	Temporary site office, hoarding & preject sign board		Active to the to the second of the		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		•															1111		
	Survey Services	23 days	25 Sep '18 18 Oct '38 Calendar Day		100% 26 Sep '18 18 Det '18			• 6 I I I I I I I I I I I I I I I I I I					11.1									4		



	ate	Deutoe	Stat Hish Tak Calmia Performen	SYNDRY	R Congleter Actual Shart Advan Freish
		82 days	30 May '19 19 Ave '19 Calendar Cay 18	68	Congister Actual Start Advantation 2007 100% 30 May '19 19 Actg '19
		82 days	30 May 19 19 Aug 19 Calendar Cay 18 6 Sep 18 17 Oct 18 Calendar Cay 41,43	68	100% 5 Sep '18 1/ Oct '18
	All scalaneous	1000 days	18 Mar '18 11 Dec '20 Calendar Day 43,41		96% 18 Mar '18 NA
-	Site Establishment	220 days	2 Jan '18 9 Aug '18 Calendar Day		100% 2 Jan '18 9 Avg '18
	Setting up PM's and Contractor Accommodation	90 days	12 May '18 9 Aug '18 Calendar Day 51F5+13 days		1005 12 May '18 9 Aug '18
	Initial Survey of the Site	60 days	2 Jan '18 2 Mar '18 Calendar Day 4		100% 2 Jan '18 2 Mar '18
0	Procurement of Major Material	1104 days	7 Apr 18 14 Apr 21 Celeader Day		54% 7 Apr '18 NA
10	Preparation of Purchase Order	7 days	7 Apr '18 13 Apr '18 Celender Dey 3355+7 days,	45 62	160% 7 Apr '18 13 Apr '18
12		65 days	34 Apr 18 17 Jun 18 Calendar Day 61	63	160% 14 Apr'18 17 An'18
6)	1st Batch of Material Delivery on site	0 days	29 Jun 18 29 Jun 18 Calendar Day 62	64	160% 29 Jun '18 29 Jun '18
14	Material Delivery by Batches	1020 days	30 Jun '18 14 Apr '21 Calendar Day 63		30% 30 Jun 18 NA
15	Preparation of CEO1 Purchase Order	7 days	25 Jop '18 1 Oct '18 Calendar Day 37	CG	160% 25 Stp '18 1 Oct '18
16 57		90 days	2 Out '18 30 Dec '18 Celeader Day 65	67	180% 2 Oct '18 30 Dec '18 100% 22 Jan '19 22 Jan '19
	1st Basch of CED1 Material Delivery on site	1 day	22 Jan '19 22 Jan '19 Colendar Day 65		100% 22 Jan 19 22 Jan 19 100% 20 Aug 19 6 May 20
58 22	SCAP Material Submission and Approval	261 days	20 Aug '19 6 May '20 Calendar Day 54	69	100% 20 Aug 19 6 May 20 100% 22 Jan 20 16 Oct 20
	SCAP Purchase Order & Material Othery	115 days	22 Jun '20 14 Oct '20 Calendar Day 63 7 Nev '37 18 Nev '22 HC Working Pay	-	100% 22 Jan 20 14 Oct 20
n	Unity of From Boundary of Feising Reveal O Area 107 to O See 19 Write: Service Reversite (entition)	and any			
.1	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1193 days	30 Aug '18 15 Stp '22 HK Working Day	638	52% 30 Aug 18 NA
2	Op 11 Car 6-1 4/9+02 to Cit 4/2+07 (1981)	982.days	10 Stap '18 St Jan '22 His Work as Day	-	SNG IRSTP 18 NA
3	CH. A0+00 - 0+24 OC	45 days	20 Nov '21 14 Jan '22 HK Working Day 609	and the second second	0% NA NA
4	CI1, A0+14 - 0+50 DC	156 days	23 May '19 26 Nov '29 HK Working Day		100% 23 May '19 26 Nov '19
5	CH, A0+50 - 1+50 DC	42 days	10 Sep '18 31 Oct '18 HK Working Day		100% 10 Sep '18 31 Oct '18
6	CH. A1+50 - 1+60 DC	53 days	1 Nov '18 4 Jan '19 HK Working Day		100% 1 Nev 18 4 Jan 19
7	CHLA1+60 - 2414 OC	107 days	5 Jan '19 20 May '19 HK Working Day		100% 5 Jan '19 20 May '19
15	CH, A2+14 - 2+30 DC	40 days	1 Sep '20 19 Oct '20 HK Working Day		90% 1.5ep 20 NA
79	CH. A2+30 - 2+46 OC	30 days	27 Oct '20 30 Nov '20 HK Working Day		90% 27 Oct '20 NA
80	CH. A2+66 - 2+62 OC	50 days	10 Nov '20 14 Dec '20 HK Working Day	61	5% 10 Nov '20 NA
81	Q1. A2+62 - 2+96 OE	10 days	15 Dac '20 21 Jan '21 HC Working Day 80	82	DIG NA NA
82	OH. A2+98 - 3+62 OC with DN150 DAV	110 days	22 Jan '21 9 Jun '21 HK Working Day 81	8555	DIG NA NA
83	Treadiless Works (FIL1 to Pi12)	ST5.qeAn	22.157 '11 15.525 '22 HN Working Pay		92 <u>8 808 0</u> 10
84	Coastruction of Jacking / Receiving Pits	200 days	22 Jan '21 28 May '21 HK Working Day		675 NA NA
85	CH. A3+62 - Pit 1	50 days	22 Jan '21 24 Mar '21 HK Working Day 8255	88,86	OK NA NA
56	CHL AS+29.5 - Pit 2	50 days	25 Mar 21 28 May 21 HK Working Day 85	\$8	ON NA NA
87	TIVB Pipe facking Pit 1- Fit 2	217 days	29 May 21 18 Feb 22 HK Working Day	99	ON NA NA
81	TBM Establishment	24 days	29 May 21 26 Jun 21 HK Working Day 85,86	89	0% NA NA 0% NA NA
37	international and a state of a st	40 days	28 Jun '21 13 Aug '21 1K Working Day 68	90	0% NA NA
90	Remove Setup including Thrust Wall	6 days	14 Aug '21 20 Aug '21 HK Working Day 89	91	0% NA NA 0% NA NA
91	Sotup Guard Rail	6 days	21 Aug '21 27 Aug '21 HK Working Day 50 28 Aug '21 19 Nov '21 HK Working Day 51	92	0% NA NA 0% NA NA
92 92	Pipe Laying Inside Sleeve Pipe (8m pipe, 3 days pr		28 Aug '21 19 Nov '21 HK Working Day 51 20 Nov '21 23 Nov '21 HK Working Day 52	95	05 NA NA
71	Formwork & Setup for Grouting the Gap between Fipe and Sleave	a cays	autor as cannot at increasing only 32	~	
41	Grouting Works (30m/day)	6 days	24 Nov '21 30 Nov '21 HK Working Day 93	95,96	C% NA NA
58	Construction of Combined Inspection and Washer		1 Dec '21 25 Jan '22 HX Working Day 94	97	05 NA NA
	Chamber Type I at Pit 1				
96	Construction of Combined Impection and Wathor	t 45 days	1 Dec '21 25 Jan '22 FK Working Day 94	97	0% NA NA
	Chamber Type I at Pit 2				
99	Backfill, Remove ELS and Road Reinstatement at	18 days	26 Jan '22 18 Feb '22 HK Working Day 35,36		026 NA NA
	Pit 1 & pit 2				
58	Open Cat 68: 45+29:5 (PD 2) to 06:47+32	1015 days	30,04g 38 S May 22 HK Wolk ag Day		75% 38.6ug/18 NA
56	CHL A5+29.5 - 5+88 OC	60 days	19 Feb '22 5 May '22 HK Working Day 100,87	1.71	8% NA NA
100	CH. A5+88 - 6+12 OC + 0N300 Washout Pump Pit		9 Dec '20 4 May '21 HK Working Day 101	55	0% NA NA
146	CH. A6+12 - 6+20 OC	30 days	4 Nov '20 8 Dec '20 HK Working Day	100,116	10% 4 Nov 20 NA
192	CH. A6+20 - 5+54 OC	191 days	22 Apr '20 8 Dec '20 HK Working Day 103	116	80% 22 Apr 20 NA
183	CH, A6+S4 - 6+70 OC + Handshield	378 days	14 Jan '19 26 Apr '20 HK Working Day	102	100% 14 Jan '19 26 Apr '20
1.64	Issue CE No. 22 - Instruction to Change in Mainlayin Method I: Wan Po Toad between CH.6154 and A610	0 cays	20 Jan '20 Z0 Jan '20 Calendar Day		100% 20 Jan '20 20 Jan '20
	and a second				
18	Issue CE No. 25 - Unforescen Underground Conclutions during Trench Excavation at Wan Po Ree between CH. A6+68 and CH. A6+88	0 days	28 Jun '20 29 Jun '20 Calendar Day		100% 29 Jan '20 29 Jan '23
136	EWN No. 14 (covered by CNE No. 8 & CE No.06)	0 ćays	18 Sep '18 18 Sep '18 Calendar Day		100% 18.5ep '18 18.5ep '18
	Usforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Paritoed Between CM, 46+90 and CH.47+10				
	CR.PO-DU BRE CR.P/TE				
837	C8. A5+70 - 7+12 OC	111 éays	30 Aug '18 12 Jun '19 HE Working Day		100% 30 Aug '18 12 Jan '19



de Nave		Duction	Suct Finish Tak Cilcular Pooles	overs Silvaterits II	Complete Actual Start	Actual Finish	Project: Mainlaying in Torong Kor 2019			201		2172			2021	AND (	2021	
	Green Cut Cel 07+17 to CH 013+73.5	1101.days	19 Sep '18 15 Sep '22 HK Working Gay	_	4846 TB San 11	20	18 De 2 2018 Dr 3, 2018 De 4, 2019 De 2, 2017 De 2, 201	2219 Qr 1, 2019 Qr 1, 2019 Qr Mar. Int. J.J. Asr. Sep. Ont. Nov. Dec. Jo	1,200 Qc 2,200 Qc 1,200 Feb Mir Agr Mir An All And Ser 1	Qu (200 Qc 1, NO. Out New Die Jan Jeb Mar	Art Nat Jun Jul Jun Sep	Out Nor Dec Jac He	the Apr No Am M 7	og Sep Oct Ner Dec	In The No. 40.34	10. 1m 20 Am 3m	On Ney Dec Jan Fet Mar	Age h
		D days	25 Feb '20 25 Feb '20 Calendar Day	COLUMN STREET	100% 25 Feb '20	25 Feb '20			* 25/2									
	estrance gate of Green Valley Landfil																	
	EWN No. 108 - TTA Implementation outside the extrance gate of Green Valley Landfil	O days	9 Apr '20 9 Apr '20 Calenda: Day		100% 9 Apr '20	9 Apr '20			o 94									
	Standard Construction Construction State				100% 20 May '20	20.14-110			+ 20/5									
	Algement outside the Entrance Gate of Green Valley	0 days	20 May '20 20 May '20 Celendar Day		10071 20 May 20	20 May 20												
	Landfill EWN No. 173 - Additional Inspection Pit at Wan Po		11 Jun '20 11 Jun '20 Calendar Day		100% 11 Jun 20	11 Jun '20			1.									
	Read Northbound outside the Entrance Gate of Green Valley Lanfill																	
	Batch No. 3 - Inspection Pit Excavation at the footpath of Wan Po Road near Green Valley Landfill	4 days	23 aul '20 Z7 Jul '20 HK Working Day		100% 23 Jul 20	27 Jul '20			1									
	Entrance EWII No. 189 - Inspection Pit on Footpath at Wan Po		29 Jul '20 29 Jul '20 Calendar Day	115	100% 29 Jul '20	29.64120			+ 29 <i>1</i> 1									
	Road Northbound outside the Entrance Gate of	U days	20 Jul 20 25 Jul 20 Calendar Oxy		1000 1000 10													
	Green Valley Lanfill Expected CE No XX - Change to Treachless Method	0 days	30 Nov '20 30 Nov '20 Calcular Day 114		ON N/	NA X				÷ 30/11								
	near the entrance of Green Valley Landill																	
	CH. A7+12 - 7+54 CC with DN600 IT & DN500 Valve Gramber	50 days	9 Dec '20 30 Mar '21 HS Working Day 102,	118,117,1:	0% N/	на на												
	Cil, A7+64 - 8+28 Trenchless (Handshield)	105 days	31 Mar '21 9 Aug '21 HK Working Day 116		DX N/						and the second se							
	CII, A7+64 - 8+28 Trenchless (Handshold) CH, A8+28 - 8+60 CC with DN150 DAV	505 days 64 days	31 Mar 21 9 Aug 21 HK Working Day 116	119	0% NJ													
	CH_A8+62 - 9+24 CC	64 days	22 Jun '21 4 Sep '21 HK Working Day 118	120	075 NJ						-							
	CH. 49+24 - 9+88 OC	64 days	6 Sep '21 22 Nov '21 HK Working Day 119		0% NJ													
	CHL A9+88 - 10+52 CC with DN600 IT	95 days	51 Mar '21 28 Jul '21 HK Working Day 116		0% NJ						Concession of the local division of the loca							
	CH. A10+52 - 11+16 OC	64 days	29 Jul '21 13 Oct '21 HK Working Day 121		0% N	NA 114												
	CH. A11+16 - 11+50 OC with DN300 Washout Pemp		18 Nov '20 15 Mar '21 HK Working Day 124		0% N	ц <i>н</i> а												
	Fit t & DN150 DAV																	
	CH. A11+80 - 12+12 OC with DNG00 IT	64 days	1 Sep '20 17 Nov '20 1K Working Day 125		20% 1 Sep '2													
	CH. A12+12 - 12+50 OC with DN900 Valve Chamber		23 Feb '19 31 Aug '20 HK Working Day	124	100% 23 Feb'1													
	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near CH. A12+40	0 days	22 Aug '19 22 Aug '19 Calendar Day		100% 22 Aug 1	9 22 Aug '19		÷ 22/8										
	EWN No.23 (Covered by CNE No.36 & CE No.16) - Unforeseen Ground Conditions at Open Trench of Manbaring at Wan Po Kold between CH.412+89 an CH.413+04		4 Dec '18 4 Dec '18 Calendar Day		100% 4 Dec '1	8 4 Dec '18	+ 4/12											
					1000000-00000000													
	CH. A12+50 - 12+95 OC	125 days	19 Sep '18 21 Feb '19 HK Working Day 9 Nov '18 21 Feb '19 HK Working Day	130	100% 19 Sep '1 100% 9 Nov '1													
	CH. A12+95 - 13+13 OC CH. A13+13 - 13+40 OC + DN150 DAV	84 days 60 days	7 Jul 22 15 5ep 22 HK Working Day 131.		0% N													
	CH. A13+13 - 13+40 OC + DN150 DAV CH. A13+40 - 13+60 OC & Connection from Open Co		20 Jun 22 6 Jul 22 HK Working Day 151	130	0% N								-					
	Trench to Jacking Pit A	Tecali	TOTAL TO THE DESIGN AND															
Tr	enchless Work at Wan Po Read From Fit A to Fit F	1003 days	7 Nov 17 21 Sep 22 HX Working Day	639	24% 7 Nov'1									-				
	Trendiless Works (P.t.A. to Pit C	BD7 days	L2 Aug 10 BR AP 32 HS Werking Day		17% 12'Aug/1			P										
	Expected CE No. 52 - Relocation of Working pits for Trenchless Works in War Po Road (Pit A to Pit C)	0 days	30 Nov '20 20 Nov '20 Calendar Day		0% N	A NA				* 30/11								
			12 Aug '19 6 Feb '21 HK Working Day		32% 12 Aug '1													
	Construction of Jacking / Receiving Pits Removal of Existing Planter for Jacking Pit A	645 days	15 Jun '20 20 Jun '20 HK Working Day	137	100% 15 Jun 2	100												
	Jacking Fit A	130 days	17 Jul 20 31 Dec 20 HK Working Day 136		14% 17 /ul 2				-									
	Issue CE No. 32 - Additional Ground Treatment	() days	31 Aug '20 31 Aug '20 Calendar Day		100% 31 Avg 7				+ 31	n							2.9	
	Works in Pit B in Wan Po Road near Wan O Road																	
	Jacking / Receiving Fit B with additional ground grouting works	445 days	12 Aug '19 6 Feb '21 HK Working Day	154	21% 12 Ave 1	0 NA									1 10			
	providing works Benetiving Fit C	298 days	29 Nov '19 30 Nov '20 HK Working Day		54% 29 Nov 1	8 NA	이 다이먹기에 가지 않았다.											
	Receiving Pit C TBM Pipe Jacking (Pit A to Pit B)	298 days 293 days	29 Nov '19 30 Nov '20 HK Working Day 15 Jul '21 11 Jul '22 HK Working Day	_	0% N						-							
	Tehn Pipe Jacking (Pit A to Pit B) Establishment at Pit A	24 days	15 Jul 21 11 Aug 21 HK Working Day 156	143,150	0% N		집 마 같이 다 같은 것 같아요.				-							
	Jacking DN1660 Precast Concrete Silvere Pipe (Pi		12 Aug '21 16 Oct '21 HK Working Day 142		0% N						-							
	- P't 8) (L=240m; 4.5m/day)						이 분인한 편집 이 물건.											
	Remove setup including thrust wall at Pit A	6 days	18 Oct '21 23 Oct '21 HK Working Day 143		0% N							•						
	Secup for Pipe Laying inside Jacking Pit B	5 days	18 Oct '21 23 Oct '21 HK Working Day 143		016 1													
	DN1200 MS Pipe Laying incide Jacking pipe (249)	) 120 days	25 Oct '21 19 Mar '22 HK Working Day 145	147	0% N	IA NA	[] [] [] [] [] [] [] [] [] []											
	(2 days per 4m)(Only internat Coating)			148	0% P													
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	21 Mar '22 23 Mar '22 HK Working Day 146	148	0% P	in NA												
	Grouting Works (30 mator/day)	Resys	24 Mar '22 1 Apr '22 HK Working Day 14	162.149	0% M	A NA												
	Grouting Works (30 metar/day) Pipe Laying bends and thrust block construction		2 Apr 22 13 May 22 HK Working Day 148			A NA							and a					
	Inside Jacking Pit A		-															
	Espected CE No. XX - Special Type of Chamber fo	D days	11 Aug '21 11 Aug '21 Calendar Day 14	151	0% 1	-					* 1M							
	interlace between Trentless Works and Open Co Work near Jacking Pit A																	
ng Prov	pretrint No. 11 Toli. 5 Nov 2020 Sylit	Hitsure	Possiluma	7 Institut Kristene	-	Normal Tania	Mand Sunnay Roller Sutorb	C Found1	da Ded Jacker # Ded		Circuit Splat	********	Nasal Ireges		-			
14.1	perrent No. 11 Tali 5 Nov 2020 Split	Summery	institut Tak	Institut Sociality		Descendy .	Mand Senarcy Field and	3 Roomal B	Cris	19	Physics							



									Project Malitajsky in Toway Rose O	
TakNane		Dunim	Stat Finish	Taik Globia Pisdoason	Secons % C	lemplete Actival	Statt Actua	(Pinah	200 10 01200 01201 0120 0120 0120 0120 0120	REJ OF CHES OF LOUT OF 2.2
	Construction of Thrust Block between Trenchless 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		
	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 Pape Jacking (Pit B to Pit C)	422 days	8 Feb '21 16 Jul '22	HK Working Day	C. C. State	ON	NO	NA		
		24 days	8 Feb '21 10 Mer '21		155,161	0%	NA	NA		
	Incking DN1680 Precast Cancrete Sieeve Pipe From Pit B to Pit C (L-326π; 3.5m/dxy)		11 Mar 21 7 Jul 21		156	0%	NA	NA NA		
		6 days	15 Jul 21 21 Jul 21		158	0%	NA	NA		
	DN1200 MS Pice Laving inside lacking pige (326m)	200 days	22 Jul 21 22 Mar '22	HE Working Day 157	159	0%	NA	MA		
,	(2 days per 4m)(Only Internal Coating) Formwork & Setup for Grouting the pap between pape and Steve	3 64/2	23 Mar '22 25 Mar '22	HE Working Day 158	160	0%	NA	NA		
					162,191	0%	NA	10		
0	Growing Works (30 moter/day) Expected CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Jacking/Receiving FR 8	11 days O days	26 Mar '22 8 Apr '22 30 Mar '23 30 Mar '23		162,191	01	104	NA	+ 100	
2	Construction of Special Chamber at Jacking / Receiving Pit B	60 dayı	9 Apr 22 24 Am 22	HIL Working Day 148,160,161,18	6 163	0%	NA	NA		
a	Remove ELS including extracting sheat plus at Pit B & Reinstatement of Road works and planter	18 days	25 Jun '22 16 Jul '22	HK Working Day 162		0%	NA	NA		
1	consing Way Pa Road and Lonar Fark Road	LY89.days	7 Npv 17 81.5ep 22 27 Sep 19 27 Sep 19	Callendar Ray	166	75 7	Nov/17 Sap 19 21	Res P	* 209	
7	Issue CE No. 24 - Ground Investigation for Working Fil E, F and Trenchless Works across MT Tunnel	t o ditys	51 sub.10 11 21 260.10	Cananadr Udy		2005 1	p 15 2			
6	Tender & Subletting	71 days	27 Sep '19 6 Dec '19	Calendar Day 165		100% 22	51p'19 6	5 Dec '19		
57		7 days	17 Feb '20 24 Feb '20	HC Working Day	168		Feb 20 24			
14		33 cays	25 Feb '30 2 Apr '20				Feb 20		+ 102	
8	construction method about MTR's turnels	0 drys	31 Dec '20 31 Dec '20		172.171	0% 27% 12	NA	NA		
	TTA submission and Approval , Suspension of Parking Meters and TTA Implement for Jacking Pit D	114 a ays	12 Aug '20 3 Dec '20	Calification on y	174,171		100 10			
и	frostal of Vaduct Utilities Trough	30 days	4 Dec.'20 11 Jan '21		175	0%	NA	NA		
72		30 days	4 Dec'20 11 Jan '21 12 Jan '21 18 Feb '21		175,173 174	0%	NA	NA		
13 14		30 days	12 Jan 21 18 Feb 21 19 Feb 21 21 Aug 21		1/4	0%	NA	NA		
8	accing into bat can name issue CE Bo, 77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road		21 Oct 20 21 Oct 20		176		Oct 20 2		• 400	
36	Sukmission for CE77	60 days	21 Oct '20 19 Dec '20	Calendar Day 175	177	0%	NA	NO		
77		30 days	20 Dec '20 18 Jan '21		179	605	NA	NA		
75	TPRP Appoval for Tree at Slope Feature	0 days	18 Jan '21 18 Jan '21		195	6%	NA	100	+36	
74	125W-A/FR102 Expected CE No. XX - Relocation of Working pits for Trenchless Works in Wan Po Road juction with Lohas	0 days	18 Jan '21 18 Jan '21	Calendar Day 172,171,177	180	0%	NA	NA	* (an)	
30	Park Road Subjecting works for CE No. XX	60 days	19 Jan '21 39 Mar '91	Columbu Day 170	196,210,7	0%	835	NA		
10		321 days	23 Aug '21 21 Sep '22			0%	NA	NA		
162	Establishment at Pit D	24 days	23 Aug '21 18 5ep '21		183,189,1	0%	NA	NA		
89	DN1600 Precast Concrete Sleeve Pipe (PILD - Pit C (CH A19+26 to CH.A22+80) in Self (254m; 3,5m/day)		20 Stp '21 22 Jee '22		154	es.	NA	NA.		
154	Remove setup including Thrust Wall at Pit D	6 days	24 Jan '22 29 Jan '22		185	0%	NA	NA NA		
165	Setup for Pipe Laying Inside Jacking Pit D IDN1200 MS Pipe Laying Inside Jacking pipe (354m)	5 days	31 Jan '22 9 Feb '22 10 Feb '22 1 Jun '22		185	0%	NA	NA		
	UN3 200 MS Pipe Laying inside Jacking pipe (354m) (say 2 days per 8m)(only Internal Coating)	1 20 643	30 PED 22 1308 22	and restantion of the	-07		-			
187	Formwork & Satup for Grouting the gap between pipe and Steere		2 Jun '22 6 Jun '22		183	0%	NA	NA		
133		12 days	7 Jun '22 20 Jun '22		191,192	0%	NA	NA	+ 199	
189	Issue CE No. XX - Special Type of Chamber for Interface between Trencless Works and Open Cut Work near Receiving Pit C	0 days	18 Sep '21 18 Sep '21	Carenda' Day 182	162,191	9%	NA	NA		
	ammo Ne. 11. Tok.				ettre biblecore		Herd		Violiters Money Annah C Beelfair Date & Ocidige	

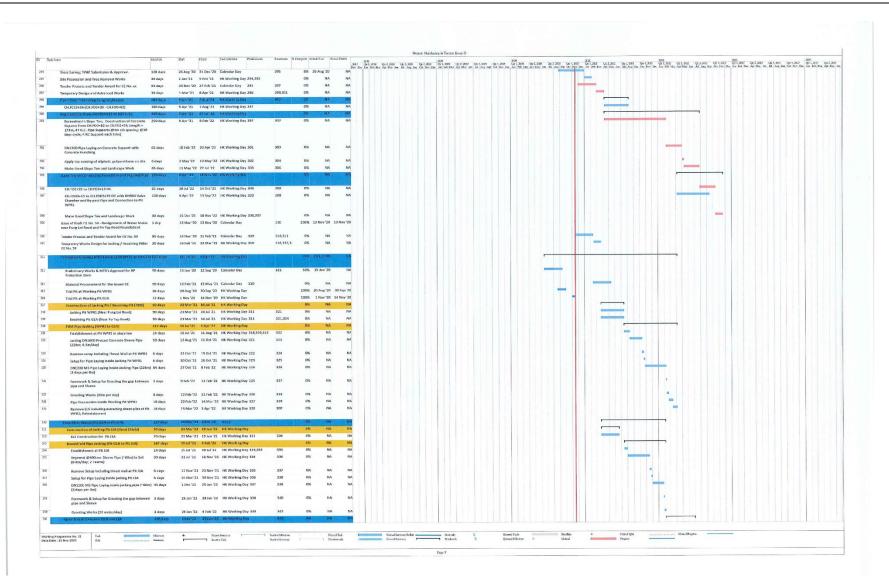


Horizota	Tuk Name		Duration	Stat Finish Tak Gienta Professors	Sourcesons 5	e Conglite Aitua	istat Actua	Fittada
		Interface between Trencless Works and Open Cut	0 days	18 Sep '21 18 Sep '21 Calendar Day 182	162,192	0%	NA	NA
No.       N		Construction of Special Chamber Inside Receiving	60 days	21 Jun '22 30 Aug '22 HK Working Day 188,185,1	10 193	0%	NA	NA
10       10 <th< td=""><td></td><td></td><td>60 days</td><td>21 Jun '22 30 Aug '22 IS Working Day 188,190</td><td></td><td>0%</td><td>NA</td><td>NA</td></th<>			60 days	21 Jun '22 30 Aug '22 IS Working Day 188,190		0%	NA	NA
Answertike Busiker Busi		Pit D Remove ELS including extracting sheet piles at Pit C				0%	NA	NA
			215 days		-	0%	NG	NO
Market       Andream A		CH. FA0+50)						
Image: Instructure Marketing Market		125W-A/FR102						
Natural Market number numbe	6							
Image from the proceeding with the process of the	1							NA
1         Application of the strength of the s	99	Remova establishment	6 days	14 Sep '21 20 Sep '21 HK Working Day 118	200	0%	NA	NA
1 stype i stal         1 stype i stype i stype i stype i stype i stype i stype	0	Setup for Pipe Laying inside jacking	6 days	21 Sep '21 28 Sep '21 HK Working Day 159	201	0%	NA	NA
<ul> <li>             magened Maders for concepts agained as the set of concepts again the set of conce</li></ul>	01	DN900 MS Pipe Leying inside Jacking pipe (35m) (say 3 days per 8m)	15 days	29 Sep '21 18 Oct '21 HK Working Day 200	202	0%	NA	NA
Transformation         Monte Scale         Normalization         Monte Scale	50	Formwork & Setup for Grouting the gap between	3 days	19 Oct '21 21 Oct '21 HK Working Day 201	203	0%	NA	NA
Mithemating	0							
Mitching for Automic Number Number         Number Numb	5				206	0%	NA	NA
1         Non-starting virge		MTR Turnels (CH.FAD+SD to CH.FAD+B5)						
Disput specific projection services 1	0			and the second sec				NA
P         Exceptional-productions devices of the services of t	28 08				2018			NA
Endige & Control Used and Endorm 14         7.4 million of Long 14, 100 million 100 million 17, 100 million 17								NA
Topology         Norway & Conventions Booked (R)         24 or         30 or         Norway & Robin Booked (R)         24 or         Norway & Robin Booked (R)	0	Design & Construction of Receiving Pit F	72 days					
Name	п				213			
4       Math 2 and 2	12		and the second second		314			
Bits: 3 derival         Bits: 3 de	13							
1000000000000000000000000000000000000	13	(40m; 0.4m/day) Mild Steel Sleeve Fipe (Pit F - Pit G) in Soll Mix						NA
Surge-ber Extracting length box content for       64 cm       120 cm 2       80 cm 30 cm 20 cm 20       80 cm 40 cm 40 cm 20       80 cm 40		(20m; 0.4m/day)						
Bit Strate Links Links Links Links       Strate Links       Strat								
Bit Start Structure Lines (Start)         15 dep         742         25 Mar 22         28 Mar 24         38 Mar 24           Concare Mar 10 (Concare Mar 20 Mar 10 Mar 23         18 Mar 12         18 Mar 14 Mar 14         18		DNSCO M.S. Pipe Laying from Pit F to Pit E (40m)						
Bay Stars Service         Star	19	Modify Setup for Pipe Laying inside Jacking Pit F	6 days	28 Peb '22 5 Mar '22 HK Working Day 218				
jee editerer 4 Googen for with SDP metric/byee AD weed SDP metric/byee AD wee	90	(say 3 days per 4m)						
0       Statustics (SANSS) 6 (SANSS) (	9	Fornwork & Satup for Grouting the gap between pipe and Sleave	3 days					
Nature 100 Number 100	122				208,224	0%		NA
B         Specific prive Messense services         Of Meg         No. 21, Meg. 21, Merculan trave 20, Merce 20, Merc	23	Vertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CR.FA1+50 to CH.FA2+17)	335 days	20 Mar 21 31 May 22 None		0%	NA	NA
S         Open of pice link synchronic transmit and synchronis and synchronic transmit and syn	24	Vertical pipes with Concrete Surround	30 days					
Control fue Control								
Thill PR Lazzwardinin for 11: Line P2: 20         442. doys         2016 vir 12:         13: Sep 1/s         300 vir 23:         14: Sep 1/s		Open out pipe leying with concrete surround (CH.FA1+64 to CH.FA2+17)	60 days	20 Mar '21 4 Jun '21 HK Working Day 180	225	CIK.	NA	NA
9     Jiakawa MA JICK Yuwali Kalishi MI Kaliway     300 deys     25 Jian '18     766     25 Jian '18     Na       1     Jiakawa Kalishi Mi Kaliway     200 deys     28 Mey '20     25 Mey '20     25 Mey '20     20 Mey '20       1     Jiakawa Kalishi Mi Kaliway     100 deys     5 Mey '20     25 Mey '20     25 Mey '20     26 Mey '20       2     Jiakawa Kalishi Mi Kaliway     100 deys     5 Mey '20     12 Mey '20     25 Mey '20     26 Mey '20       1     Jiakawa Kalishi Mi Kaliway     100 deys     25 Mey '20     25 Mey '20     26 Mey '20     *20       2     Jiakawa Ma Hing Yuma Kalishi Mi Kaliway     100 deys     5 Ney '10     12 Mey '20     25 Mey '20     *20       3     Jiakawa Mi Kalishi Mi Kaliway     100 deys     5 Ney '10     12 Mey '20     25 Mey '20     *20       4     Jiakawa Mi Kalishi Mi Kaliway     10 Mey '20     12 Mey '20     12 Mey '20     26 Mey '20       5     Jiakawa Mi Kalishi Mi Kaliway     10 Mey '20     12 Mey '20     12 Mey '20     12 Mey '20       6     Jiakawa Mi Kalishi Mi Kaliway     10 Mey '20     12 Mey '20     12 Mey '20     12 Mey '20       7     Jiakawa Mi Kalishi Mi Kaliway     12 Mey '20     12 Mey '20     12 Mey '20     12 Mey '20       8     Jiakawa Mi Kalishi Mi Kaliway		nticellumous	591 days	25 Jan '10 10 Sap '10 Calendar Pay		80%	Bian 18	N/S
Protection bord         Protection								
Procession         Section		Protection Zone			_			
Bitariban Red Aguert (10 (10 At PAR))         Star 1/2	TR	O Landfill Stage 1 and TKO South Waterfront	1283 days	7 Hov 17 & Mar 22 HK Working Day	610	54%	7 Nov 17	NAP
2 touv Cf Ho, 34 - Realignment of Watermalin along 160 0 days 5 los '19 5 los '19 Calendar Day 100% 5 Nas'19 5	e.	Issue CE No. 36 - Realignment of Watermain along the	0 days	22 May '20 22 May '20 Calendar Day		300% 2	2 May '20 22	May '20
		Issue CE No. 34 - Reelignment of Watermain along TKC	0 days	5 Nov'19 5 Nov'19 Calendar Day		100%	5 Nov '19	Nov '19
			45 days	7 Nov '17 30 Dec '17 HK Working Day		0%	NA	NA



kNate		Disation	Start Finals Tail: Calendar Passessens	2010200	S Complete Actual Start Annual Firit-h	
2	TKO Landhii Stazioli Arcaiw (CH. 180409 to CH.185+30	257 dices	15 May/20 23 Mar 21 HKWorking Pay	639	75% 15 May 20 RA	
	CH. F80+80 - 0+38 CC with DN900 Valve Chamber and Wash out Pump Pit	75 days	14 Dec '20 17 Mar '21 HK Workleg Day 236		0% NA NA	
	CH. F80+38 - 0+70 CC	30 days	9 Nov'20 12 Dec'20 HK Working Day	235	0% 9 Nov '20 NA 90% 19 Oct '20 NA	
	CH. F80+70 - 1+02 CC	30 days	19 Oct '20 23 Nov '20 HK Working Day 12 Oct '20 16 Nov '20 HK Working Day		10% 12 Oct '20 NA	
	CHL F81+02 - 1+34 CC	30 days 30 days	12 Oct '20 16 Nov '20 HK Working Day 5 Sep '20 12 Oct '20 HK Working Day		95% 5 Sep '20 NA	
	CH. F81+34 - 1+66 OC CH. F81+66 - 2+06 OC	30 cays 128 days	15 May 20 15 Oct 20 HK Working Day		100% 15 May 20 15 Oct 20	
	CH. F82+06 - 2+38 OC	104 days	12 Jun 20 15 Oct 20 HK Working Day		100% 12 Jun '20 15 Oct '20	
	CH_FB2438 - 2479.0C	83 days	9 Jul '20 15 Oct '20 HK Working Day		100% 9 Jul '20 15 Oct '20	
	CHL FB2+70 - 3+92 OC	30 days	27 Jul 20 29 Aug 20 HK Working Day		95% 27 Jul '20 NA	
	CH. F83+02 - 3+34 OC	30 days	3 Aug '20 5 Sep '20 HK Working Day		95% 3 Aug '20 NA	
	CH. F83+34 - 3+65 OC	30 days	13 Aug '20 16 Sep '20 HK Working Day		95% 13 Aug '20 NA	
	CH. F83+66 - 3+98 OC	30 days	24 Aug '20 26 Sep '20 HK Working Day		95% 24 Aug 20 NA	
	CHL FE3+98 - 4+30 OC	53 days	10 Sep '20 13 Nov '20 HK Working Day		100% 10 Sep '20 13 Nov 20	
	CHL F84+30 - 4+62.0C	4G days	18 Sep '20 13 Nov '20 HK Working Day		100% 38 Sep '20 13 Nov 20	
7	CHL F86+62 - 4+86 OC	28 days	12 Oct '20 13 Nov '20 HK Working Day 14 Nov '20 18 Dec '20 HK Working Day	251	100% 12 Oct '20 13 Nov '20 30% 14 Nov '20 NO	
	CH, F84+86 - 5+18 OC	30 days	14 Nov 20 18 Dec 20 HK Working Day 19 Dec 20 23 Mar 21 HK Working Day 250	251	0% NA NA	
1	CH. F65+18 - 5+34 OC with DN600 IT & DN300 Washout	75 days	19 Oct. 10 23 Inter 21 The Working Day 250	235		
0	TKO South Waterfront Promenania (CH, FCO-00) 448	s 212 days	25 103 '20 19 ag 21 His Working Day	Contraction of the local division of the loc	50% 267ea/20 NA	
53	CHL FC 0+00 - 0+33 DC	30 days	24 Mar 21 3 May 21 HC Working Day 251		0% NA NA	
1	CH. FC 0+33 - 0+65 DC	50 days	12 Jun '21 19 Jul '21 HC Working Day 267		0% NA NA	
	CH. FC 0165 - 0195 DC	34 days	26 Feb '20 G Apr '20 IIE Working Day		100% 26 Feb '23 6 Apr '20	
6	CH. FC 0+05 - 1+27 OC	30 days	6 Apr '20 15 May '20 HE Working Day		100% 6 Apr '20 15 May '20	
2	CH. FC 1+27 - 1+59 DC	31 days	15 May 20 19 Jun '20 HK Working Day		100% 15 May 20 19 Jun 20 100% 19 Jun 20 15 Jul 20	
	CH. FC 1+59 - 1+91 OC	21 days	19 Jun '20 15 Jul '20 HK Working Day 15 Jul '20 17 Aug '20 HK Working Day	260	100% 19 Jun '20 15 Jul '20 100% 15 Jul '20 17 Aug '20	
0	CH. FC 1+91 - 2+23 OC CH. FC 2+23 - 2+55 OC	29 days 25 days	15 Jul 20 17 Aug 20 HE Working Day 259	261	100% 17 Aug '20 14 Sep '20	
	CH. FC 2+23 - 2+35 OC	38 days	14 Sep '20 30 Oct '20 HK Working Day 260	262	100% 14 Sep '20 30 Oct '20	
2	CH. FC 2+87 - 3+19 OC	31 days	30 Oct '20 4 Dec '20 HK Working Day 261	263	50% 30 Oct 20 NA	
3	CH. FC 3+19 - 3+51 OC	30 days	5 Dec '20 12 Jan '21 HC Working Day 262	264	ON NA NA	
14	CH. FC 3+51 - 3+83 OC	30 days	13 Jan '21 19 Feb '21 HC Working Day 263	265	0% NA NA	
5	CIL FC 3+83 - 4+15 OC	30 days	20 Feb '21 26 Mar '21 HK Working Day 264	265	0% NA NA	
66	CH, FC 4+15 - 4+47 DC	30 days	27 Mar '21 6 May '21 HK Working Day 265	267	ON NA NA	
10	CH. FC 4+47 - 4+87 C	30 days	7 May '21 11 Jun '21 HK Working Day 266	254	C% NA NA	
4	TRO Smalls Waterfront Premenade (UH. + 65x87 - 64	ri dor gake	Zärdar 26 Z.Aug 21 HK Working Day		0.895 25 May 20 N/6	
	Ch. EC 4487 - 5419 DC with DN500 IT	72 days	24 Mar '20 22 Jun '20 HK Working Day		100% 24 Mar 20 22 Jun 20	
99 70	CH. FC 4+R7 - 5+19 OC WAS DN60011 CH. FC 5+19 - 5+51 OC	29 days	22. Jun '20 27 Jul '20 HK Working Day	271	100% 22 Jun '20 27 Jul '20	
74	CH, PC 3+19 - 5+51 UC CH, PC 5+51 - 5+83 UC	32 days	27 Jul 20 1 Sep 20 HK Working Day 270	272	100% 27 Jul '20 1 Sep '20	
12	CH, PC 5+83 - 6+15 OC	28 days	1 Sep '20 5 Oct '28 HK Working Dey 271	273	100% 1 Sep '20 5 Oct '20	
	CH. FC 6+15 - 6+47 OC	27 days	5 Oct '20 5 Nov '20 HK Working Day 272	274	100% 5 Oct '20 5 Nov '20	
3	CH. FC 6+47 - 6+79 OC	38 days	5 Nov '20 18 Dec '20 HK Working Day 273	275	505 5 Nov '20 NA	
ō	CH. FC 6+79 - 7+11 OC	SU days	19 Dec '20 26 Jan '21 HK Working Day 274	276	055 NA NA	
6	CH. FC 7+11 - 7+43 OC	30 days	27 Jan '21 S Mar '21 HK Working Day 275	277	055 NA NA	
17	CH. FC 7+43 - 7+75 OC	30 days	6 Mar '21 14 Apr '21 HK Working Day 276	278	055 NA NA 025 NA NA	
6	CH. FC 7+75 - 8+07 OC	30 days	15 Apr 21 21 May 21 HK Working Day 277 22 May 21 26 Jun 21 HK Working Day 278	279	0% NA NA 0% NA NA	
N) ID	CH. FC 8+07 - 8+39 OC CH. FC 8+39 - 8+71 OC	30 days 30 days	22 May 21 26 Jun 21 HK Working Day 278 28 Jun 21 2 Aug 21 HK Working Day 279	280	0% NA NA	
2	CH. HC 81-33 - 81-71 OC	Sec days	16 day 20 8 Diar 12 HK Working Day	and here the	34% 14 Apr 78 NA	
2	CH, FC 8471 - 9455 CC	90 days	17 Nov '21 8 Mar '22 HK Working Day 283		0% NA NA	
3	CH. FC 9+55 - 11+90 OC with DN150 DAV	300 days	12 Nov '20 16 Nev '21 HK Working Day 284	282	0% NA NA	
4	CH. FC 11+90 - 12+05 CC	30 days	7 Ctt '20 11 Nov 20 HK Working Day	283	82% 7 Oct '20 NA	
\$5	CH. FC 12+06 - 12+30 OC	68 days	15 Jul '20 3 Oct '20 HK Working Day		95% 15 Jul '20 NA	
6	CH. FC 12+30 - 12+62 OC with Mositoring Chambe		15 Jun '20 13 Aug '20 HK Working Day		95% 15 Jun '20 NA	
87	CHL FC 12+62 - 13+02 OC	50 days	15 May 20 14 Jul 20 HK Working Day		95% 15 May 20 NA	
38	CH. FC 13+02 - 13+26 OC	28 days	16 Apr '20 18 May '20 HK Working Day		95% 14 Apr '20 NA	
89	Barned Pipe, Exposed Pipe, Trenchless Works From Lo Avenue to Po Tap Road Roundsboot	768 days	20 Apr '20 16 Nov'22 HK Working Day	641	7% 20 Apr '20 NA	
20		1.04	17 Jun '20 17 Jun '20 Calendar Day		100% 17 Jun '20 17 Jun '20	♦ 136
	Issue CE No. 65 - Landscaping Survey near Po Yep an Pung Loi Road					• 301
91	Expected CE No. XX - Realignment of Water Mains r Fung Loi Road		30 Nov '20 30 Nov '20 Calendar Day	295	05 HA NA	V ARL
92	XP Application: DLC/LandsD Approval	240 days	20 Apr'20 15 Dec'20 Calendar Day	295	21% 20 Apr '20 NA	
293	TTA preparation, SLG meetings and obtain RA	60 days	12 Aug '20 10 Oct '20 Calendar Day		10% 12 Aug '20 NA	
		Mene	BustSinning	I Inche Miletor	Manu/Tak	Had Scon Mar - Robol C Javella Debe - Contype - Had Nys







		Stat Frist Lak Cientiz Projection	Stotteen S Corpete Actual Start Actual Fit	
	Excavation and ELS Installation from Fit K to PR J1A 62 days (62m)	5 Feb '22 22 Apr '22 HK Working Day 340	343 0% NA	
	Pipe Laying From Pit K to Pit J1A 9 days	23 Apr '22 4 May '22 HK Working Day 342	344 0% NA	
	Construction of Thrust Block from Pit K to Pit JIA 15 days	5 May '22 23 May '22 HK Working Day 343	345 0% NA	
	Backfill Trench and Remove ELS 18 days	24 May 22 14 Jun 22 HK Working Day 344	346 0% NA	un 📖 🖬 🖬 🖬
	Reinstatement of Plant and Shrubs in Roundabout 24 days	15 Jun 22 30 Jun 22 HK Working Day 345	0% NA	on
Te	reschless Work from Po Yap Road Roundabout to KMB 59D days epot (Pit K to Pit P)	38 Nov '39 13 Nov '21 HK Working Day	642 37% 18 Nov '19	
	Issue CE No. 28 - Realignment of Water Mains along Po 0 days	13 Jan '20 13 Jan '20 Calendar Day	351,359 100% 13 Jan '20 13 Jan	* 159
	Yap Read and Po Hong Road	19 Million 19 Million Carendar Cuty		
	Issue CE No. 50 - Realignment of Watermain at the 0 days Junction of Wan Po Road and Po Yap Road and the Junction of Po Hong Road and Po Shan Road.	11 Jun '20 11 Jun '20 Calendar Day	100% 11 Aan '20 11 Aa	* 116
	Issue CE No. 28A - Affected Trens along Cycle Track next 0 days to Horg Kong Velodrome and Tseung Kwan O Sport. Ground	30 Jun '20 30 Jun '20 Calendar Day	365 100% 30 Aun 120 30 Au	ao + 586
	Tender and Subletting for CE No. 28 99 days	18 Nov '19 24 Feb '20 Calendar Day 348	100% 18 Nov '19 24 Fel	a ana ana ana ana ana ana ana ana ana a
-	trandities Weike (PITE to Http) 595 days	15 /en '23 13 Nov'21. He Working Oxy	34% 13.0% 20	
	Inspection Pit Excernation at Pit K 16 days	28 Feb '20 17 Mar '23 HK Working Day	100% 28 Feb 20 17 Ma	
	Inspection Pit Excevation at Pit P 3 days	29 Jun '20 2 Jul '20 HK Working Day 3 Jul '20 14 Jul '20 Calendar Day 354	355 100% 29 Jun '20 2 Ju 100% 3 Jul '20 14 Ju	
	Review and change the pipe jacking from PR P to PR R 12 days	a Jui zu 14 Jui zu Calendar Day 354	100% 310/20 141.	
	Forming temporary Vehicle Access for Pit P 10 days	16 Jul '20 27 Jul '20 HE Working Day	372 100% 16 Jul '20 27 J	no en la construcción de la constru
	MTR's Approval for Trenchless Works from Pit 1 to Pit 75 days	11 Jun '20 8 Sep '20 HK Working Day	358 50% 11 Jun '20	σ
	•		367 0% NA	∞
	TTA Implement for Po Yap Load Roundabout 16 days TTA preparation, SLG meetings, obtain RA and TPRP 128 days	9 Sep '20 22 Sep '20 Caleadar Day 357	267 0% NA	
	Approval for Temporary Yelicular Access at HK Voladrome	and a arrive a creation of		
	Coundination with LCSD and Notification to District 14 days Counditors	20 May '20 2 Jun '20 Colonder Day 359	361 100% 20 May '20 2 Ju	
	Form Temporary Vehicle Access at TKO Sport Ground 5 days	1 Jun 20 8 Jun 20 HK Working Day 350 9 Jun 20 19 Jun 20 HK Working Day 351	363 100% 1100°20 19Ju	
	TKO Sport Ground (CE No. 28)			
	Tree Fruning Working for driving Sheetpile at Pit M, 3 days Fit N & Pit O	20 Jun '20 23 Jun '20 HK Working Day 362	364 100% 20 Jun '20 23 Ju 371.369 100% 24 Jun '20 3 J	
4	Mobilization of Sheet-piles and Driving Marhines 7 days Tree Survey along Cycle Track; TPRP Approval; Tree 120 days	24 Jun '20 3 Jul '20 HK Working Day 363 30 Jun '20 20 Nov '20 HK Working Day 350	90% 30 Jun 20	
	Removal Works along Cycle Tracks (Ce No. 28A)	Solution 20 Solution 20 His Working Day 550	2010 20100 20	
-	Construction of Jacking Fit & Receiving Fit 181 days	4 Jul 20 6 Feb 21 HC Working Day	52% 4 Jul 20	A Contraction of the second seco
	Receiving Pit K 70 days	14 Nov '20 6 Feb '21 HK Working Day 358	374 15% 14 Nov '20	MA CONTRACTOR CON
	Jacking Pit L 70 days	24 Oct '20 18 Jan '21 HK Working Day 369	374,382 39% 24 Oct '20	
	Jacking Pit M 88 days Remaining Pit M 77 days	111ul 20 23 Oct 20 HK Working Day 364 301ul 20 30 Oct 23 HK Working Day	368,386,3: 100% 11 Jul 20 23 C	
	Receiving Fit N 77 days Jacking / Receiving Fit O + additional Grouting 130 days	30 Jul 20 30 Oct 23 HK Working Day 4 Jul 20 5 Dec 20 HK Working Day 364	378,390 40% 4Jul 20	30 74
	Jacking Fit P + additional Grouting 130 days	3 Aug '20 7 Jan '21 HK Working Day 356	378 30% 3 Aug '23	
	Hand Shield Jacking (Fit K to Fit L) 90 days	8 Feb '21 2 Jun '21 HK Working Day	394 0% NA	
-	Establishment at Pit L 14 days	8 Feb '21 26 Feb '21 HK Working Day 367,368	375 0% NA	NA CALLER C
	Segment (§400mm Steve Pipe (Pit L to Pit K)[~ 70 days Sem) in Soll (0.8m/day)	27 Feb '21 26 May '21 HK Working Day 374	376 0% NA	
-	Remove setup including thrust wall at Pit L 6 days TBMS Pipe Jacking (Pit P to Pit O) 75 days	27 May '21 2 Jan '21 HK Working Day 375 8 Apr '21 8 Jal '21 HK Working Day	0% NA 424,443 0% NA	
	TBM Pipe Jacking (PicP to PicO) 75 days Establishment at Pic P 24 days	8 Apr 21 8 Jal 21 HK Working Day 8 Apr 21 6 May 21 HK Working Day 372,371,385		
	DN1600 Precast Concrete Sieeve Pipe (Pit P - Pit O) 45 days (250m) in Soll (4.5m/day)	7 May '21 30 Jun '21 HK Working Day 378	380 C% NA	
0	Remove setup including thrust wall at Pit P 6 days	2 Jul 21 8 Jul 21 HK Working Day 375	C% NA	и.
	TBYN Pige Jacking (Pit M to Pit L) (5 Days a week, 4 – 68 days Tsia por days)	19 Jan '21 15 Apr '21 HK Working Day	400 0% NA	
2	Establishment at Pit M 24 days	15 Jan '21 18 Feb '21 HK Working Day 385,398,397 15 Feb '21 8 Apr '21 HK Working Day 382	9 383 0% NA 381 0% NA	NA INTERNATIONALISTICATION CONTRACTOR C
	DN1600 Precast Concrete Sleeve Pige (Pi: M - Pit L) 38 days (CH.GACH09 to CH.GAL+80[ in Soil (171m; 4.5m/day)	15 Feb '21 8 Apr '23 FK Working Day 382	384 05 NA	й А
	Remove setup including thrust wall at Pit M 6 days	9 Apr '21 15 Apr '21 HK Working Day 383	0% NA	NA
15	TERM Pipe Jacking (Pit N to Pit N) (5 Days a week, 4 57 days trip pur days)	24 Oct 20 2 Jan 21 HK Working Day	382,407,3 0% NA	
	Establishment at Pit M 24 days	24 Det 20 21 Nov 20 HK Working Day 369,3/US-	14 da 387 0% NA	
	estacement at Pit M 24 days	24 OCT 50 STHOP 20 HE HORNIGUEV SOS STUS-	V/8 NA	™ :
a Ning Proj ca Date : 1	græmme No. 11 Tul. Milestere 15 Nor 2029 Jyls - Studiet	PostSeenn 1 1     IndexTeh	Incorditione Manufak Incordinance I Destinant	HautSence Min Savah E Seval Enis Dudar 4 Orcidige



											Project: Mair	lasiae in Terute I	ivan O															
TekNane	Data	Siat	Sad	Tak Cicular Professore	Sacoso 20	vagete Actual	Siat Actual	rus	2017 2017 Qr 1, 2018 Nov Dec Jul Hel Ma	Qr2.002 (913	COUR  Qr-COU	2159 Qn 1.20.9	Qr 2.209 Qr 3.	289 (E-4, 389	200 Qi L 200	52.300 Qrz.	200 Qs-1.20	218 Q: 1.302. 0	7.301 Qr 3.30	Qv C305	201	2,342 97.5.7	02 QE 4, 240	302 Qr ), 2025	Q(1,222	Q13.303 Q1	4,202 Qr L	30° (qr.), 3
	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit 27 days N) (CH.GA1+46 to CH.GA3+20) in Soil (134m; Sm(day)	a Z3 Nov '	10 23 Dec 20	HK Working Day 386	368	0%	NA	NA	Nor Die Ja Hel Ma	Agr Ma Jun Jul .	Aug Sep Ot Nov.	Dec Jan Ne Ma	an Ma Im M -	wa jep cia inin d	s' All (99 Mai )	ige state and half of	top Sep Cla Box	Dec. Jan Pele Mai 2	the In In des	Stp. Oct. Nov. Do.	, Am , Deb, Mar , Ag	t Ney Jun Jul A	ig bige (vil Bies	De las per s	e aprese sa	All hag say to	NOV DE LAS IN	48 952, AP 950
	Remove setup including thrust wall at Pit M 6 days			HK Working Day 367		0%	NA	NA																				
4	TBM Pipe Jacking (Pit O to Fit N) (5 Days a week, 4 74 day trip per days)	a (1) an (2)	7 Apr '21	HK Working Day	415,378	05	NA	NA																				
	Fistablishesent at Fit O 24 days DN1508 Precast Concrete Sierve Pipe (Pit O - Pit N) 44 days			HK Working Day 370,371,385 HK Working Day 390	391 392	0% 0%	NA NA	NA										-										
	(CH.GA3+13 to CH.GA5-08) in Soil (195m; 4 Sm/day)																											
	Remove setup including thrust wall at Pit M G days			HK Working Day 391		0%	NA	NA																				
	DN1200 Pipelaying (Pit K to Pit L) 86 day Setup for Pice Laving Indide Jacking Pit K 6 days			HK Working Day HK Working Day 373	305	0%	NA	NA																				
	DN1200 MS Pipe Loving include Jacking pipe (56m) 30 day			HK Working Day 394	396	05	NA	NA											-					6				
	(2 days per 4m) (Only internal Coating) Formwork & Setup for Grouting the gap between 3 days			HK Working Day 395	397	0%	NA	NA																				
	pipe and Sleeve																											
	Grouting Works (10 meter/dwy) 2 days Construction of DN900 Valve Chember and DN150 45 days			HK Working Day 396 HK Working Day 397	398	0%	NA	NA NA																				
	By-pass Pipe & Valves Near FILK																											
	CN1200 Pipelaying (Pit Mite Pit 1) 145 da			HK Working Day	401	0% 0%	NA NA	NA												-								
	Satup for Pipe Laying inside jacking Pit M 10 day DN1200 MS Pipe Laying inside jacking pipe (171m) 90 day (2 days per 4m)(Only Internal Coating)			HK Working Day 381 HK Working Day 400	401	0%	NA	NA																				
	Formwork & Setup for Grouting the gap between — 3 days pipe and Sleave	16 Aug	21 18 Aug'21	HK Werking Day 401	403	ON.	NA	RA.																				
	Grouting Works (10 meter/day) 6 days	19 Aug	21 25 Aug '21	HK Working Day 402	404,411	0%	NA	RA.																				
	Hpe Connection Inside Fit L 12 day	rs 26 Aug		HK Working Day 443	405	0%	NA	NA												•								
	Remove ELS including extracting sheet piles at Pit 24 day 1; Reinstatessmit of Cycle Track and planter			HK Working Day 404		0%	NA	NA												-								
	DN1200 Pipelaying (Pit M to Pit N) 256 da Setup for Pipe Laying Inside Jacking Pit N Gulera			HK Working Day HK Working Day 385	408	0%	NA NA	NA																				
	DN120D MS Pipe Laying Inside Jacking pipe (134m) 35 day			HK Working Day 407	403	0%	NA	NA										-			1.00							
	(2 days per 8m)(Only Internal Coating)			HK Working Day 408	410	0%	NA	NA																				
	Formwork & Satup for Grouting the gap between 3 days pipe and Sleeve																											
	Growting Works (30 meter/day) S rlays Fipe Connection Inside Pit M 12 day			HK Working Day 409 HK Working Day 403,410	411,419 412	0%	NA	NA																				
	Construction of IT Chamber at Pit M 30 day			HK Working Day 411	613	0%	NA	NA												-								
	Remove ELS Including extracting sheet piles at Pit 24 day M & P.t.N; Reinstatement of Cycle Track and			18K Working Day 412		0%	NA	NA	•											-								
	planter DN1240 Pipelaying (Pit Ci to Pit N) 182 da			HK Working Day		0%	NA	NA											-	-								
	Setup for Plac Laying Inside Jacking Pit N & G days			HK Working Day 389	416	016 015	NA	NA																				
	DH1200 MS Pipe Laying inside jacking sipe (195m) 50 day (2 days per 8m)(Only Internal Coating)			HK Working Day 415																								
	Formwork & Setup for Grouting the gap between 3 days pipe and Siteve			HK Working Day 416	418	0%	NA	MA																				
	Growting Works (30 meter/day) 7 days			HK Working Day 417	419,421	0%	NA	NA NA																				
	Pipe Connection Inside Pit N 12 day Remove ELS including extracting sheet piles at Pit 24 day			HK Working Day 410,418 HK Working Day 419	420	0%	NA	NA NA											-									
	N; Reinstatement of Cycle Track and planter				422	015	NA	N																				
	Pipe Connection in side Pit 0 12 da Romoro F15 including extracting sheet piles at Pit 24 de			HK Working Day 427,418 HK Working Day 421	422	0%	NA	N/												-								
	O; Reinstatement of Cycla Track and planter					0K	845	_																				
	UN 1200 Pipelaying (Fit O to Fit P) 71 de Setup for Pipe Laying inside jacking Fit O 6 day			HK Working Day HK Working Day 377	425	0%	NA	NA																				
	Setup for Pipe Laying inside Joking NEO 6 03y DN1200 MS Pipe Laying inside jacking pipe (200m) 55 da (2 days per 8m)[Only Internal Conting)			HK Working Day 424	426	0%	NA	N											-	-								
	(2 days per Bind(Chily Internal Conting) Formwork & Setup for Grosting the gap between 3 day pipe and Sherie	s 185tp	21 21 Sep 21	HK Working Day 425	427	0%	NA	N												1								
	Grouting Works (30 meter/day) 7 day	rs 23 Sep	21 30 Sep 21	HE Working Day 426	421	0%	NA	N	•																			
Tre	anchiess Work from HMB Depot to Po Heng Road (Pit P. 515 d Pit B)	lays 3 Aug	29 29 Apr 122	HK Working Day	642	2.5%	5 Aug '20	N	1							1						1						
1	Issue CE No. 51 - Roolignment of Water Main in Tsui 8 day Lem Section	rs 3 Aug	20 3 Aug '20	Calendar Day	435,431,9	100%	3 Aug '20 3	3 Aug '21	0								5/1											
																					• · · · · · ·			and the strends				
ang Progra	rrme Nu. 11 Tak Nitesan Sor 2270 Egiz		Print	Series 1 1	Incide Nileston Incide Nationa		Renal To	iak.	10	Manual Suttains i Manual Suttains	244	Statenly Faishead	t	Ed	ral Tala mil 15 later	-	Deuffice Gasul	+	Circai Spl			inal Poges						

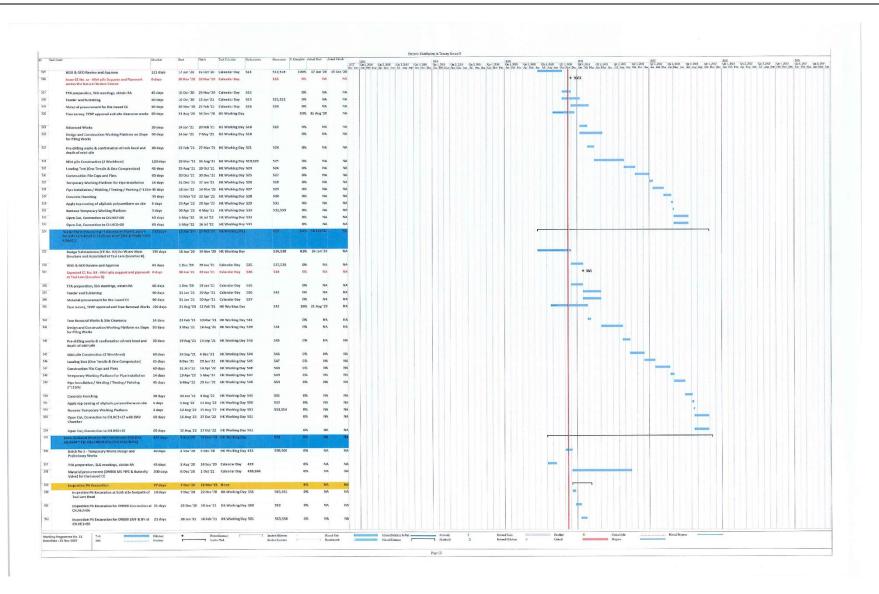


												Project: Mainlaying in Torum Kwan O					
				TakNat		Duration	Suri Finica Task Calendar Prodecessors	Samos 94	Suger Acad	Sint Actual I	2	200 0 0 1.201 0 2 200 0 2 300 0 1.209 0 1.209 0	2109 Qi 6, 2015 Qi 1, 2020	Qr 2.220 Qr 7.238 Qr 1.1	2011 2019 Qi L 2021 Qi 2 2011 Qi 3 2011	Qe (2011 Qr (2012 Qr 2012 Qr 2	Q2 (201) Q81, 2015 Q51, 2019 Q5
					WSD/M/7503/13/WSD/16/M15/300/51 for additional	0 days	3 Sep 20 3 Sep 20 Calendar Day	538	100% 33	5ep 20 35	eb .70	ин, <u>на трании уп</u> она на на на на на за на		+ 3/9			
					Tendering Process, Tender Award for Ct. No. 51 (Batch No. 1)	82 days	3 Aug '20 23 Oct '20 Colendar Day 429	438,453,4:	100% 3/	Aug 20 23 C	hct '20						
					Tendering Process, Tender Award for CE No. 51 (Botch No. 2)	102 days	3 Aug '20 12 Nov '20 Celendar Day 429	454	100% 3/	Avg 20 12 N	ov "20						
					Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	\$0 days	3 Aug 20 31 Oct 20 Calenda: Day 429	437,556	5% 37	Avg '20	NA						
			Numerican         Numerican <t< td=""><td></td><td>Tendering Process, Tender Award for CE No. 51 (Location A Mini-pTe Works)</td><td>90 days</td><td>26 Aug '20 23 Nov '20 Calendar Day</td><td>435</td><td>50% 264</td><td>Aug '20</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></t<>		Tendering Process, Tender Award for CE No. 51 (Location A Mini-pTe Works)	90 days	26 Aug '20 23 Nov '20 Calendar Day	435	50% 264	Aug '20	NA						
					Tendering Process, Tender Award for CE No. 51 (Location & Mini-pile Works)	60 days	24 Nov '20 22 Jan '21 Calendar Day 434		0%	NA	NA				-		
Hardward and Part Part Park Park Park Park Park Park Park Park	Approx         Approx         Approx         Approx         Approx         Approx           Non-Marchellen Markellen         Approx	Processor         Processor <t< td=""><td></td><td></td><td>TTA preparation, SLG meetings, obtain RA and implement Advanced Works</td><td>100 days</td><td>3 Aug '20 10 Nov '20 Calendar Day 429</td><td>438</td><td>50% 37</td><td>Aug '20</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></t<>			TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days	3 Aug '20 10 Nov '20 Calendar Day 429	438	50% 37	Aug '20	NA						
Hander Honder Witz Variant Witz Varia Varia Varia Variant Witz Varia Variant Witz Variant Witz Vari		Description         Note 3         No	construction         standard         Mark         Mark <td></td> <td>Material Submission, Procurement of top ceat of alignatic polyurethance for exposed pipes</td> <td>120 days</td> <td>1 Nov '20 28 Feb '21 Calendar Day 433</td> <td></td> <td>0%</td> <td>NA</td> <td>NA</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>		Material Submission, Procurement of top ceat of alignatic polyurethance for exposed pipes	120 days	1 Nov '20 28 Feb '21 Calendar Day 433		0%	NA	NA						
Name         Name <th< td=""><td>Norm         Norm         <th< td=""><td>Normal Networks         Normal Net</td><td>matrix         matrix         matrix         matrix         matrix         matrix         matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix<!--</td--><td></td><td>Forming New Vehicle Access at Pc Hung Road for Construction of Pit R &amp; Pit S and Trenchless Works</td><td>128 days</td><td>11 Nov '20 20 Apr '21 HK Working Day 436,431</td><td></td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></td></th<></td></th<>	Norm         Norm <th< td=""><td>Normal Networks         Normal Net</td><td>matrix         matrix         matrix         matrix         matrix         matrix         matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix<!--</td--><td></td><td>Forming New Vehicle Access at Pc Hung Road for Construction of Pit R &amp; Pit S and Trenchless Works</td><td>128 days</td><td>11 Nov '20 20 Apr '21 HK Working Day 436,431</td><td></td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></td></th<>	Normal Networks         Normal Net	matrix         matrix         matrix         matrix         matrix         matrix         matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Concordency         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix         Matrix           Matrix </td <td></td> <td>Forming New Vehicle Access at Pc Hung Road for Construction of Pit R &amp; Pit S and Trenchless Works</td> <td>128 days</td> <td>11 Nov '20 20 Apr '21 HK Working Day 436,431</td> <td></td> <td>0%</td> <td>NA</td> <td>NA</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>		Forming New Vehicle Access at Pc Hung Road for Construction of Pit R & Pit S and Trenchless Works	128 days	11 Nov '20 20 Apr '21 HK Working Day 436,431		0%	NA	NA						
International Antional Point Po	Over operation         Over op	Bit Markov Mar	control         000         0.001         0.001         0.001         0.001         0.001         0.001           Control         0001         0.		Inspection Fit Excavation at Pit II	20 3 1 4 M		441	0%	NA	NA				-		
Bit Markow Mar	Display         Display <t< td=""><td>Notice         Notice         Notice         Notice         Notice         Notice           Notice</td><td>Non-state         Non-state         <t< td=""><td></td><td></td><td></td><td></td><td>463</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></t<></td></t<>	Notice         Notice         Notice         Notice         Notice         Notice           Notice	Non-state         Non-state <t< td=""><td></td><td></td><td></td><td></td><td>463</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></t<>					463	0%	NA	NA						
Bit Description         Bit Descri	Bits All Concent stands layer by and with all concent stands l		Bits		TEM Pipe Acking (Pit Pite Pit E) accrossing EMB Orgon & Po Hung Read	240 days	9 Jul 23 Zinder 27. HN Working Day		0%	790	004						
Harman Marka Mark	Harrier Alexis United Wald Name       Harrier	Horizon Markania         Horizon	base decision de								NA						
And Part Andrea Andr	Impact Analysis with one of any angle o	Image: Processes and states of a state of a	Image       Image <th< td=""><td></td><td>DN1600 Precast Concrete Sleave Pipe (Pit P - Pit R) (say 248m) in Soll (4m/day)</td><td>62 days</td><td>27 Jul '21 8 Oct '21 HK Working Day 443</td><td>445</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></th<>		DN1600 Precast Concrete Sleave Pipe (Pit P - Pit R) (say 248m) in Soll (4m/day)	62 days	27 Jul '21 8 Oct '21 HK Working Day 443	445	0%	NA	NA						
Bit Not Price Single get Hubble 2014       Price 2014 <td>Baseling Marken burger game game game game game game game game</td> <td>Bit Market Standing Works Lingtong Andread Standing S</td> <td>Bits     Bits     Bits</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td> <td></td> <td>•</td> <td></td>	Baseling Marken burger game game game game game game game game	Bit Market Standing Works Lingtong Andread Standing S	Bits													•	
			Bit Market Arbon         Bit Market Arbon<														
pice states	investion	invertibuling       invertibuling<	Horizonto       1		DN1200 MS Pipe Laying inside jacking pipe (248m) (2 days per 8m)(Only Internal Coating)	70 days	25 Oct '21 17 Jan '22 HK Working Day 446	448	0%	NA	NA						
Products Distribution	Processor         Processor <t< td=""><td>Production buffer buffer         Production buffer buf</td><td>Procession       Procession       Procession</td></t<> <td></td> <td>Formwork &amp; Satup for Grouting the gap between pipe and Skewe</td> <td>3 days</td> <td>18.ian '22 23.Jan '22 HK Working Day 447</td> <td>449</td> <td>0%</td> <td>NA</td> <td>NA</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>	Production buffer buffer         Production buffer buf	Procession		Formwork & Satup for Grouting the gap between pipe and Skewe	3 days	18.ian '22 23.Jan '22 HK Working Day 447	449	0%	NA	NA						
Autor of a devised in general and Works       0 degit       10 degit	Backbool	Ansatz         And Served	Base Set Set Vis Set		Grouting Works (30 meter/clay)												
Back Type 2 with With With With With With With With W	Board register Artific       B	Build register with the With State	Dubbing and PB       Description of the Second Descripti					451									
Part Print         Print Pri	Priority       Prior       Prior       Prior	Protect	Name of the second provide background weeking w		Construction of Combined Impection and Washout Chamber Type II at Pit P	60 days	15 Feb '22 29 Apr '22 HK Working Day 450		0%	NA	NA						
With         Bach 8:       Restrict Work Guide and Work Work Work Work Work Work Work Work	With         Barbie - Company Watch Statigkand Predering Vatch Statigkand Vatch V	Wet           Bandy Address yr Walch Cupped For Yould Cuppe	With         Status         Status         Band	P	pen Trench from Pit R to Pit S & Trenchless Works from It S to Pit T	524 days	3 Aug 20 32 May 22 HK Working Day	642	1% 3.	Vn8.59	NA			-			
Non-         Non-           Model Stream (1976) Model (1976) Mod	Note:         Note:           Stard Marca Marca Marka Ma	Note         Note           Marca Towards Not Subset 7         36 day 30 1 36 xr 23 16 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 5 1 K Mail or 94 30 40 7 1 K Mail or 94 40 7 1 K Mail or 94 40 40 7	Non-         Non-         Non-         Start Price         Start Price <td></td> <td>Batch No 1 - Temporary Works Design and Proliminary Works</td> <td>30 days</td> <td>24 Oct '20 28 Nov '20 HK Working Day 431</td> <td>456,473</td> <td>0%</td> <td>NA</td> <td>NA</td> <th></th> <td></td> <td></td> <td>*</td> <td></td> <td></td>		Batch No 1 - Temporary Works Design and Proliminary Works	30 days	24 Oct '20 28 Nov '20 HK Working Day 431	456,473	0%	NA	NA				*		
Matrial Processential fract Matrial Sector         Matrial Processential Matrial Sector         Matrial Matrial Sector         Matresector         Matrial Sector         Matrial	Marcial Processment Int It Shaned Chi       95 digit       9. Aug       9.	Matrial Procurement for Name 2012         Status 2012         Status 2013         Status 2014         Status 2014 <ths< td=""><td>Matrial Programme       Space       Space       Space       Space       Space       Space         Space       APPC Share Proceeding and Proce</td><td></td><td>Batch No 2 - Temporary Works Design and Preliminary Works</td><td>30 days</td><td>13 Nov '20 17 Dec '20 HK Working Day 432</td><td>474,479,4</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td>-</td><td></td><td></td></ths<>	Matrial Programme       Space       Space       Space       Space       Space       Space         Space       APPC Share Proceeding and Proce		Batch No 2 - Temporary Works Design and Preliminary Works	30 days	13 Nov '20 17 Dec '20 HK Working Day 432	474,479,4	0%	NA	NA				-		
Image         Image <th< td=""><td>Projection RE Locardia A BAS 124 T         Partial BA</td><td>b         counting starting from diagnee         diagnee         line         diagnee         diagnee</td><td>Import Instruction IRTE Suffer         Import Instructin IRTE Suffer         Import I</td><td>ŕ.</td><td></td><td>S0 days</td><td>3 Aug '20 12 Jan '21 Calendar Day 431</td><td></td><td>10% 3</td><td>Aug '20</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></th<>	Projection RE Locardia A BAS 124 T         Partial BA	b         counting starting from diagnee         diagnee         line         diagnee	Import Instruction IRTE Suffer         Import Instructin IRTE Suffer         Import I	ŕ.		S0 days	3 Aug '20 12 Jan '21 Calendar Day 431		10% 3	Aug '20	NA						
N1 C1 C1 0000000000000000000000000000000	Name         Opposite         Opposite <th< td=""><td>1         Abs 28 05 1100-00         610 reg 30         100 reg 10         100 reg 1</td><td>N1 CutoNbi       Option       Option       N1 with an expension       N</td><td></td><td></td><td></td><td>30 Nov '20 15 Dec '23 HK Working Day 453</td><td>458,459,4</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td>•</td><td></td><td></td></th<>	1         Abs 28 05 1100-00         610 reg 30         100 reg 10         100 reg 1	N1 CutoNbi       Option       Option       N1 with an expension       N				30 Nov '20 15 Dec '23 HK Working Day 453	458,459,4	0%	NA	NA				•		
N1 C1 C1 0000000000000000000000000000000	Name         Opposite         Opposite <th< td=""><td>No. 2010         Solution         Solution</td><td>N1 CutoNbi       Option       Option       N1 with an expension       N</td><td></td><td>Construction of Faching 2015</td><td>CO days</td><td>16 Dec '20 2 Mar '21 HK Working Osy</td><td>461</td><td>0K</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></th<>	No. 2010         Solution	N1 CutoNbi       Option       Option       N1 with an expension       N		Construction of Faching 2015	CO days	16 Dec '20 2 Mar '21 HK Working Osy	461	0K	NA	NA						
Headphalter (Analy Constant)         Baddy         Baddy <th< td=""><td>Headpholing Party Park Park Park Park Park Park Park Park</td><td>P         Description         <thdescription< th=""> <thdescr< td=""><td>Instrume         Instrume         Instrum         Instrume         Instrume</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><th></th><td></td><td></td><td></td><td></td><td></td></thdescr<></thdescription<></td></th<>	Headpholing Party Park Park Park Park Park Park Park Park	P         Description         Description <thdescription< th=""> <thdescr< td=""><td>Instrume         Instrume         Instrum         Instrume         Instrume</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><th></th><td></td><td></td><td></td><td></td><td></td></thdescr<></thdescription<>	Instrume         Instrum         Instrume         Instrume														
Bit Start	Hard Name (HY) Sur (H)	No.         Stability Result (1975)         Marcing (	Ball for User (1974)       1984 (1) <td></td> <td>Handsteeld Bire Jerking (Bits to Bit 3)</td> <td>352 days</td> <td></td> <td>10000</td> <td>.035</td> <td>nu A</td> <td>NA</td> <th></th> <td></td> <td></td> <td></td> <td>1</td> <td></td>		Handsteeld Bire Jerking (Bits to Bit 3)	352 days		10000	.035	nu A	NA					1	
bits       frage       18/2       1/2       <	Approx       Bases       Lage 11       Zage 11       Sage 12       Zage 11       Sage 12	Big the terms           0         Report fee index [M is 174 S.         6.0 g.         2.0 4g.1 J.         27.0 g. 20.0 g	Anote Service (Bit Num Wall Service)       6 vs.       2 Aleg 2 1       7 Aleg 2 1								NA NA						
Status         Transit         Status	Statupe frees tuning models (statupe)         Analy         Example         Analy	Status for far tanker status Status (SN )         Sing 3	State Pire Landau grande March (M1)       Arg       Arg <td></td> <td>day; two teams)</td> <td></td> <td></td> <td></td> <td></td> <td>104</td> <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>		day; two teams)					104							
Display Try Long Long Long Long Long Long Long Long	Bit SDD M Microphysical State (Mire	Instruct for target product schere (Fred Pars)         20 start         4 (app 2)         1 (bn 2)         1 KW wing (bl pars)         Ns         Ns           Instruct & Schere (Gred person (brain (br	DADA They Lugber (Del L														
pre-specify strated control       pre-specify strated contro       pre-specify strated control	pre-specific writering versioning       1 down 12       1 20x121       1 50x121       <	Prior Priore Prior Prior Prior Prior Prior Prior Prior Prior	part of Strand       Stran		DN1200 M3 Pipe Laying inside Jacking Pipe (2 days												
per ed Newr         Chr.Str. 19 10:121         10:01:12	part Start       Service       1 Service       1 KW Miking Day Adds       K KW Adds       K K       M A <td< td=""><td>Image: Instant State         Space and State         Space</td><td>part Strever       2 4 yrs       15 4 0:1; 12       15 0:1; 12<!--</td--><td></td><td>per 4m pipe)(Only internal Coating)</td><td></td><td></td><td>467</td><td>0%</td><td>NA</td><td>NA</td><th></th><td></td><td></td><td></td><td></td><td></td></td></td<>	Image: Instant State         Space and State         Space	part Strever       2 4 yrs       15 4 0:1; 12       15 0:1; 12 </td <td></td> <td>per 4m pipe)(Only internal Coating)</td> <td></td> <td></td> <td>467</td> <td>0%</td> <td>NA</td> <td>NA</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>		per 4m pipe)(Only internal Coating)			467	0%	NA	NA						
Consistent of Conflict Spaces and Walking, Bold ap.         80 dap.         19 0ct 71         25 0ct 71         0ct 71 <td>Consistent of combined sectors and (Visibus, 6 and gis)         100.171         259:121         HX WAYE (D v 447         478         0%         M         M           Consistent Yeys (a HYS)         Consistent Yeys (a HYS)         Solary         100.171         Solary         100.171         Solary         N         M         M           Dealer         Dealer         Solary         300:121         110.1171         Solary         100.1171         Solary         N         M           Operation         Dealer         Solary         300:121         110.1171         Solary         N         M         M</td> <td>8         Converter Vigs 11 AP 35         19 Oct 71         29 Set 72         14 Winking Ony 407         470         05         NA         NA           7         System Fright 11 AP 35         19 Oct 71         29 Set 72         16         NA         NA           70         System Fright 11 AP 35         19 Oct 71         29 Set 72         16         NA         NA           70         Operator Vigs 11 AP 35         19 Oct 71         20 Set 71         10 No         10 Oct 71         10 Oct 71         10 No         10 Oct 71         10 Oct 71         10 No         10 Oct 71         10</td> <td>Construction of Construct Granting and Walshing, Kind All, Day 427, Link Waching Day 447, OK, MA, NA,           Construction of Construct Granting and Walshing Cong 447, Day 447, OK, MA, NA,           Construction of Construction of Construction of the day 130 or 71, 1906; 21, 1916; 2019; 447, OK, MA, NA,           Construction of Construction of Construction of the day 130 or 71, 1906; 21, 1916; 2019; 447, OK, MA, NA,           Construction of Construction of the day 112 on 72, 1916; 21, 1916; 2019; 448           Oper Gal, Instruction Tex. (Construction of the day 112 Subservice) (Construction of the day 112 Subse</td> <td></td> <td>pips and Sleave</td> <td></td> <td></td> <td>400.400</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td>	Consistent of combined sectors and (Visibus, 6 and gis)         100.171         259:121         HX WAYE (D v 447         478         0%         M         M           Consistent Yeys (a HYS)         Consistent Yeys (a HYS)         Solary         100.171         Solary         100.171         Solary         N         M         M           Dealer         Dealer         Solary         300:121         110.1171         Solary         100.1171         Solary         N         M           Operation         Dealer         Solary         300:121         110.1171         Solary         N         M         M	8         Converter Vigs 11 AP 35         19 Oct 71         29 Set 72         14 Winking Ony 407         470         05         NA         NA           7         System Fright 11 AP 35         19 Oct 71         29 Set 72         16         NA         NA           70         System Fright 11 AP 35         19 Oct 71         29 Set 72         16         NA         NA           70         Operator Vigs 11 AP 35         19 Oct 71         20 Set 71         10 No         10 Oct 71         10 Oct 71         10 No         10 Oct 71         10 Oct 71         10 No         10 Oct 71         10	Construction of Construct Granting and Walshing, Kind All, Day 427, Link Waching Day 447, OK, MA, NA,           Construction of Construct Granting and Walshing Cong 447, Day 447, OK, MA, NA,           Construction of Construction of Construction of the day 130 or 71, 1906; 21, 1916; 2019; 447, OK, MA, NA,           Construction of Construction of Construction of the day 130 or 71, 1906; 21, 1916; 2019; 447, OK, MA, NA,           Construction of Construction of the day 112 on 72, 1916; 21, 1916; 2019; 448           Oper Gal, Instruction Tex. (Construction of the day 112 Subservice) (Construction of the day 112 Subse		pips and Sleave			400.400									
Outlew Tright 14 Ph5         100 tright 24 Ph5         150 tright 24 Ph5         150 tright 24 Ph5         160 tright 24 Ph5	Onester Type 14 78 5         Interview         1004 17 10 4000 110 400 11 10000 11 1000 110000 11 10000 11000 11000 11000 11000 11000 110000 110000 11000 110	Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Onester Vps 11 PS 1           Mark V														
Owners/ Owners/Laboration 19 and P15 with insection 1/2 10/2 21 XW 1/2 XW Withing Oly 488 OS NA NA	Duelor Operative Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de frageres H 3 and H15 spik regerestes Tel 10 de fragerestes Tel 10 de	Operator         Source 1         Source 1         Source 2	Ouwher Open Grit, Jost York / Higher Class Unit / Higher Class Uni		Chamber Type I at Pit S												
			Up and a set of the advert at			45 days				NA	NA						
and Washout Chamber at RP.R				6	Open Cut, between Pit R and Pit 5 with inspection Te and Washout Chamber at Pit R	e 105 days	30 Dec '21 12 May '22 HK Working Day 468		0%	NA.	NA						

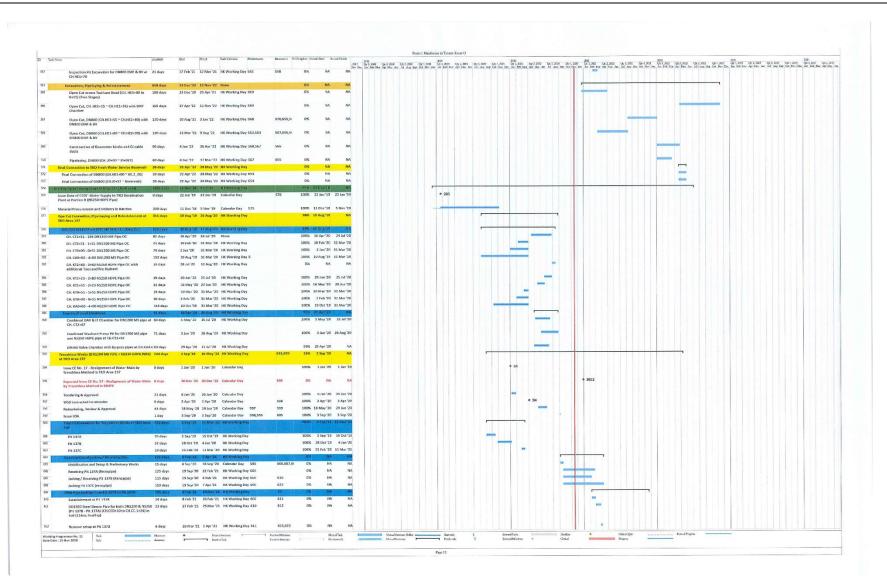


		Provide Researcher, New Locker and Relationship at 1995 date					
	2	Abandoned Road / Max We Tsal Village / Po Lam Road	7 Nov '17 12 Nov '22. HK Working Day		6% 7 M	kov '17	No Te
		Open Trends Flanlaying at Abrindianad Read & Mau 513 days Worther Offers	10 Nov '10 25 Aug '22 HK Working Day	692	0%	196	-
1         Description 1         Berling         Berling <t< td=""><td>7</td><td>CH.H00+80 to H03+45 (Depth &lt; 2.5m, each TTA 30m 513 days</td><td>30 Nov '20 25 Aug '22 HK Working Day 453</td><td>68 (1998)</td><td>0%</td><td>NA</td><td>NA</td></t<>	7	CH.H00+80 to H03+45 (Depth < 2.5m, each TTA 30m 513 days	30 Nov '20 25 Aug '22 HK Working Day 453	68 (1998)	0%	NA	NA
	24		18 Jan 10 17 Nov 21 HE Working Day 454	511	0%	NA	NA
Image: Market All and A		24-30m langth) (Option G) with Construction of DAV	16 05, 10 TO NOT 21 THE MONTH OF STATE	5.			
Impaire Monomenta W         Mode         Mode </td <td></td> <td></td> <td></td> <td>685</td> <td>0%</td> <td>663</td> <td>004</td>				685	0%	663	004
Image: Margine Margina Margine Margine Margine Margine Margine						NA	NA
Image: Section Sectin Section Sectin Section Section Section Section Section Section Se	478			482,483	0%	NA	NA
Image: Second Adverse A	479			484	0%		NA
Image of the second s				485	016		NA
Image: Section of the sectin of the section of the	4\$1				0%		NA
iii Align N	181						NA
Image of manage         Image of m							
Disk         Disk <thdisk< th="">         Disk         Disk         <thd< td=""><td>145</td><td></td><td></td><td>499</td><td>OK.</td><td></td><td>NA</td></thd<></thdisk<>	145			499	OK.		NA
Image: An and And Lingsong Angling Angl	126						NA
Model         Model production Mutatifier Mark (Mark	487						NA
Model Angland Partange Units Market							
Gigs May Per very werk subsiding for gen May       Airy       Hay       <							
Prior Barbon         Prio Barbon         Prior Barbon </td <td>π.</td> <td>DN1200 MS Pipe Laying inside Jacking Pipe (3 days 45 days</td> <td></td> <td></td> <td></td> <td></td> <td>NA</td>	π.	DN1200 MS Pipe Laying inside Jacking Pipe (3 days 45 days					NA
C         Construction of Workson Order leads FM         Sinter Part of Sinter Part Part Part Part Part Part Part Par	¢.	Formwork & Setup for Growting the gap between 3 days pipe and Sleeve	15 Sep '21 17 Sep '21 PK Working Day 491	493	016	NA	NA
66       Space AC, concentry of Mache Bar, South See Bar	99						
Index PL	634			495			
Advance         Advance <t< td=""><td>20</td><td>end at Pit U with Inspection Tee at Pit U</td><td></td><td></td><td></td><td></td><td></td></t<>	20	end at Pit U with Inspection Tee at Pit U					
Hard Hard Mark Sample Mark Sample Mark Sample Mark Mark Sample Mark Mark Sample Mark Sample Mark Mark Mark Mark Mark Mark Mark Mark	05	chamber		497			
Image: Serie Seri	897	Open Cut, cornecting CH. MA3+75 to DN1200 pipe 35 days end at Pit V				NA	NA
8         Max back have frequencies halow of Subject (Subject)         96         Max         Max         Max           8         Max back have frequencies halow of Subject (Subject)         91         1.44 <td>68</td> <td></td> <td></td> <td></td> <td></td> <td>NA</td> <td>NA</td>	68					NA	NA
Mile State State Field Lingth State S	199						NA
90       Max Bar Jang Lang Lang Lang Lang Lang Lang Lang L	100						
98         0x000 (by five (injuing laide galage fields and galage fiel	502						
ipper set Sever       ipper sever<	503	DN900 MS Pipe Laying inside Jacking Pipe (2 days 25 days		504	675	NA	NA
Me       Iood purplicitor of MAX & Group MAX       Scotp       101 (2)	-04	Formwork & Setup for Grouting the gap between 3 days pipe and Sleeve	24 Sep '21 27 Sep '21 HK Warking Day 503	505	0%	NA	NA
Model specified and Mark       6 opp       6 opp       707       64       NA       NA         Model specified and Mark       6 opp       10171       710070       710070       67       64       NA       NA         Model specified and Mark       6 opp       10171       710070       710070       67       64       NA       NA         Model specified and Mark       10171       710070       710070       67       64       NA       NA         Model specified and Mark       101717       710070       710070       67       64       NA       NA         Model specified and Mark       101717       710070       100000       65       NA       NA       NA       NA         Model specified and Mark       100000 per (100000 per (10000 per	505	Grouting Works (30m per day) 2 days	26 Stp '21 29 Sep '21 HK Working Day 504	505,508	0%	NA	NA
Mark         Mark <th< td=""><td>506</td><td></td><td></td><td></td><td>0%</td><td></td><td></td></th<>	506				0%		
38       Initial injection for H, H, A, Generation of H,	507	Open Cut, connecting Cit. HAS+SS to DN903 pipe 75 days	8 Det '21 7 Jan '22 NK Working Day 506		0%	NA	NA
39 <ul> <li></li></ul>	563	Instell inspection tee at Pit X & Construction of 40 days	30 Sep 21 17 Nov 21 HK Working Day 505	509	0%	NA	NA
und at IX with Conduct Analy and analy and at A with Conduct Analy and a with a start of the start of th							
Image 1         Option Ga         Option Ga         Theory 1         Theory 2	599	end at Pit X with DN900 Valve Chamber & DAV	18 Nov 21 33 May 22 HK Working Day 508		0%	RA.	NA
Start         Start <th< td=""><td></td><td>an excitation of the stand of the stand stand stands - 1994 - 1994</td><td>2 Mar 17 36 Avr 22 Bit Working free</td><td>603</td><td>95</td><td>NA</td><td>No</td></th<>		an excitation of the stand of the stand stand stands - 1994 - 1994	2 Mar 17 36 Avr 22 Bit Working free	603	95	NA	No
Bight [Bigter G]         Bight [Bigter G]<	511	CH.FA6+63 to HA7+45 (Depth < 2.5m, each TTA 30m 120 days	18 Nov 21 14 Apr 22 HK Working Day 474,512		0%	NA	NA
Number         Num         Num         Num		length ] (Option G)					
35         Waierfeas Weierfeas Weierfeas Weierfeas         618 #Wei         618 #Weierfeas	\$12	CH.I-CC+D0 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	695	NA	NA
October         Operative State         Operative State <td>513</td> <td>Manual Addition of the second data and the sec</td> <td>5 May 20 36 Jul 22 NK Working Day</td> <td>643</td> <td>1916 9</td> <td>May 20</td> <td>NA</td>	513	Manual Addition of the second data and the sec	5 May 20 36 Jul 22 NK Working Day	643	1916 9	May 20	NA
Structure and Associated Pipe Support across the		acuess the Natural Streem Course (GV, N80+00 * CH H90+64)					
Structure and Associated area support acress the resture Structure Canada	514	Design Submission (CE No. 55) for Water Main 37 days	5 Miły 20 16 Jun 20 HK Working Day	515	100% 5	May '20 16.	n '20
		Structure and Associated Pipe Support across the Natural Stream Caurse					











										eet: Mainkoving in Totang	Kwin O									
udi Natie		Dustan	Stat Firish	Tak Cácola Pedecoros	Success 9	Complete Actual	Stat Acted Fe	ah 2018				222		201	101 (6-2 SH (6-1 SH	2022	Celland Leila	2028	912,303 Quit,303 Quit	AUS 041 501 06 2 30
	Setup for Pipe Laying inside jacking Pits B	6 days	8 Jul 21 14 Jul	21 HK Working Day 612,623	615	0%	NA	. 2017 Or 1, 202 Nov. Doc. July Pric. NA	Ser Att No. Im Jul An. Sc	OL NOT DEC AN Feb Not	Apr Ma ha hi hag be	Or No Do. An Id	Mar Apr Man Jun Jul	ay Sep. Oct. New Dec. Jan. 2	to Ma Air Me ha M Air	top Ox Nor Dec Jan Feb	he der Mar Jan Jal da	Sop Cet N= Der Jan Feb Me	Apr May Jun Jul Aug Sep Oct	Nev Dec Jan Feb Mar Apr Mar
	DN1200 M5 Pipe Laying inside jacking pipe (114m)			9 '21 IIK Working Day 615	616	on.	NA	NA							-					
	(êm pir 3 day)	10.00	kanan saa																	
	NS250 HDPE Pipe Laying isside jacking pipe (114m) (8m per day)	15 days	15 Jul 21 31 Jul	'21 HK Working Day 613	614	0%	NA	NA												
	Formwork & Sotup for Grouting the gap between	3 days	24 Sep '21 27 Sep	p '21 HK Working Day 614	617	0%	NA	NA												
	pipe and Sleeve				618	0%	NA	NA												
	Grouting Works (20 meter/day) Pipe Laying (HB, BVB, Short Pipe), Thrust Block &	6 days 24 slavi		21 HK Working Day 616 21 HK Working Day 617	618	035	NA	NA												
	backfilling inside Pit 137A																			
	Remove ELS and Extract Sheetpile at Pit 137A			"21 HK Working Day 618 v "21 HK Working Day 619	620	0%	NA	NA												
	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 & XC1+38	12 days	6 Nov 21 19 No	A.51 HE MOUNTED BA PTA		0%	04	NA												
1000	Bid Pipe Jacking From Pit 1377 to Pit 137A	S2Z days	8 Apr 22 10 Min	ry '22 HK-Working Day		0)6	NA	100							-					
	Establishment at Pit 137C OD1920 Steel Sleeve Pipe for both DN1200 & NS250			*21 HK Working Day 612,608 21 HK Working Day 622	623 624,613	0%	NA	NA												
	OD1920 Steel Sleeve Pipe for both DN1200 & NS230 (Pit 137C - Pit 1378) (CH.CB0+00 to CH.CB.2+46) in Soll (246m; Sm/day)	20 0373	2 may 21 / Jul 2	at the working bay 622	000,013	100														
	Remove setup including thrust wall at Pit 137C Setup for Pipe Laying inside jacking Pit C	6 days 6 days		21 HK Working Day 623 21 HK Working Day 624	625 627	0%	NA	NA												
	DN1200 MS Pipe Leying inside jacking pipe (246m) (3			c'21 HK Working Day 627	628	0%	NA	NA				6								
	days per 8m)				1.00															
	NS250 HDPE Pipe Laying inside Jacking pipe (24Em) (8m per day)	31 days	22 Jul 21 26 Aug	g'21 HK Working Day 625	626	0%	NA	NA												
	Formwork & Setup for Grouting the gap between	3 days	17 Dec '21 20 De	c'21 HK Working Day 626	629	0%	NA	NA								1				
	pipe and Sleeve	11.6		'22 HK Working Day 628	630	0%	NA	***												
	Construction of Combined Inspection and Weshowt			'22 HK Working Day 628 ar '22 HK Working Day 629	630,631	0%	NA	NA NA								1				
	Chamber (Type II) at Pit 137C				a subsed															
		6 days		ar '22 HK Working Day 630	633	0%	NA	NA									1			
	Pipe Laying (H8, 8V8, Short Pipe), Thrust Block & backfilling inside Pit 137C	26 days	25 Mar 22 23 Ap	r '22 HK Working Cay 630	633	0%	he	nes.									T			
	Remove ELS and Remove ELS and Extract Sheetpile at Pit 1370	12 days	25 Apr '22 10 Ma	ay '22 HK Working Day 632		0%	NA	NA									-			
	al Connection of NS250 HDPE Pipe to Existing at Ware P	11 day	17 km 172 . 4 km <sup>2</sup>	22 HK Working Day 552		ox.	NA	NA									-			
DINI		2048 deys		n'23 Cilensor Day		0%	NA	NG												
CETY		838 days	1.0000000 10000	b '23 Calendar Day		0%	NA								1					
	DN1200 MS Pipe - Static Pressure Test Frum DN300			av '20 Calendar Day		0%	NA	NA						-						
	Valve Chamber at CH.CAVI+24 to CH.CT.2+65																			
	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)	30 days	16 Sep '22 15 Cc	t 22 Calendar Day 71,593	646	0%	NA	NA												
								NA												
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chember at Wan Po Road (CH. A12+50) to DN900 Valve Chember at TKO LandFil Stage I Area A (CH.	30 days	22 Sep '22 21 Oc	ct '22 Calendar Day 132,234	647	0%	NA	NA												
	Valve Chambar at TKO Land-III Stage I Area A (OI. F81+66)																			
	DN1200 MS Pine - Static Pressure Test From DN000	30 days	9 Mar '22 7 Ave	'72 Calendar Day 230,298	648	0%	NA	NA												
	DN1200 MS Pipe - Static Pressure Test From DN900 Velve Chember at TKO Landfil Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at TKO Landfil Stage	1			5175	1000														
	Area B (CH. FC 13+26)																			
	DN1200 MS Pipe - Static Pressure Test From DN900	30 days	19 Nov '22 18 De	ec '22 Calendar Day 289	642,649	0%	NA	NA										-		
	Velve Chamber at TKO Landfill Stage I Area 8 (CH. FC13+26) to DN900 Valve Chamber at CH. FD3+43																			
	ON1200 MS Hipe - Static Pressure Test From DN900	30 days	19 Dec '22 17 Jan	n 23 Celender Day 341,347,	28,452650,643	0%	NA	NA										+		
	Valve Chamber at CH.FD 3+43 to DN900 Valve Chambe at Mau Wu Tsai (CH. HA6+45)																			
el -	DN1200 MS Pipe - Static Pressure Test From DN900	30 days	18 Jan '23 16 Fe	25 '23 Calendar Day 510,513,	34,555 651	0%	NA	NA										-		
	Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R. (CH. HE1+70)	(		contraction of the second				A												
		2018 days	7 Nov'27 17 44	tay '23 Calendar Day	65357+30	c%	NA	NA												
	DE 1300 MS Bins - Binaline Classing and CCTV	90 days		a '18 Calendar Day	3541-30	0%	NA	NA												
	Inspection From DN900 Valve Chamber at CH.OA4+24 t CH.CT.2+65	0																		
0	DN1200 MS Pipe - Pipeline Cleaning and CCTV	90 days	16 Oct '22 13 Ja	in '23 Calendar Day 638		0%	NA	NA												
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 t DN900 Valve Chamber at Wan Po Road (CH. A12+50)	0																		
ling Bear	errora Ro. 11 Tol	Micourse		Presist Surreyay 1	Inci-t Mietze		Mend Lok		Menal Screway Rollop -	Station	c	Elernd Tala	and the second second	Dealine 4	Critical Split		MaulPoges			
Date : 15	amma No. 11 Tol	Semana	·	Inchie Lek	Incore Designary		Distant	and the second second	Manal Samman	- Fisher	5 3	Second Spinster	0 P.	Cencil	Penpen	-	-			



	N Duator	Stat Fixed 1	ud Cilmita Siedersson	Saunoira 1	te Complete Actual St	att. Actual Parish	Pagest Maloking Enhang Keng O (24) 299 (24) 201 (24) 201 (25) 201
	DN1200 MS Pipe - Pipeline Cleaning and CCTV 99 days Especialor From DN800 Velve Chamber at War Po Road (CH. A12450) to DN800 Velve Chamber at War Po Road Stage I Arza A (CH. F121-66)	22 Oct '22 19 Jan '23 C	alendar Day 639		0%	NA N	
13	DN1200 MS Pipe - Pipeline Creaning and CCTV 98 Jays Hapeston From DN900 Valve Chamber at TXO Lendfill Stape IArea A (CH. FB)-46) to MM90 Valve Chamber at TXO Landfill Stage I Area B (OH.FC 13+25)	8 Ayr '22 6 Jul '22 C	alendas Day 640		0%	NA N	
	DN1200 MS Pipe - Pipeline Ceaning and CCTV 98 days Inspections From DN200 Valve Chember at TKO LandBI Sage HAras B (Ln C13+26) to DN900 Valve Chember 20 CH203+43	19 Dec '22 18 Mar '23 0	alendar Day 641		0%	NA N	
50	DN1200 MS Pipe - Pipeline Cleaning and CCTV 90 days Inspection From DN900 Valve Chamber at CHFD3+43 to DN900 Valve Chamber at Max Wu Tsai (CH, HA6+45)	18 Jan '23 17 Apr '23 0	alendar Day 642		0%	NA N	·
	DN1200 MS Pipe - Pipeline Ceaning and CCTV 39 days Inspection From DN800 Valve at Mau Wu Tsal (CH1M6445) to DN800 EMF 8, BV Chamber at TKO F.W.S.R.(CII, IHCL+70)	17 Feb '23 17 May '23 0	alendar Day 643		0%	NA N	• • • • • • • • • • • • • • • • • • •
52 58	terilitation and Water Sampling 150 days	18 Jan '23 16 Jun '23 0				NA N	
	DN1202 MS Pipe - Portion I & Purtion H (Total Water = 150 days 9700 curs) 40 fb F Pipe Vialitic Pressure Test) Elections Cleaning, 35 days Unspectice, Scrift surfax, and Water Sumpling	18 Jan '23 16 Jun '23 0		661 572,573	0%	NA N	
55 DI	N800 MS Fipe - Static Pressure Test From DN800 EMF & 14 days Y Chamber at TKO F.W.S.R. (CH. HE1+70) to CH. J0+57	18 Mar '22 31 Mar '22 0		570 656	0%	NA N	
ar 156 Di Fr	nd to DN800 EMF & BV Chember (CH. HE1+99) N800 MS Fipe - Pipeline Clearing and CCIV Inspection 14 days rom DN800 EMF & BV Chember at TKO F.W.S.F.(CH. E1+73) to CH. J0-57 and to DN800 EMF & BV Chember T.H. HE1=90)	1 Apr '22 14 Apr '22 0	alendar Day 655	657	0%	NA N	
157 DI DI to	NRICE MS Fige - Sterification and Water Sampling From 7 days NRICE MS Fige - Sterification and Water Sampling From 7 days OF (1, 20-57 and to ONEOO EMF & BY Chamber 111112400]	15 Apr '22 21 Apr '22 C	alendar Day 656		0%	NA N	•
108 (195,2) (173)	20 HDPC Hips Static Ressisce: Papeling Chanley, CCTV - 31 days action, Sterilization and Walter Screpting	11 h1xy'22 9 Jun'22 0	allen der Dev		0);	NA B	-
1	5250 HDPE Pipe - Static Pressure Test - Portion H (Area 30 days 37)	11 May '22 9 Jun '22 C	ələndər Dəy 598	642	0%	NA N	
ioi Di	dover Periton Land Periton (Eto WSP Region 379 days N1200 MS Pipe - Portion ( & Fortion H (Area 137) 7 days	10 Jun '22 23 Jun '23 C	alendar Day Galendar Day 653		0%	NA N	
	5250 HDPE Piper - Portion H (Ares 137) 7 days too Supply to Teering Keving to Develoption Plant at Fel 141 days k of Teering Kevin O Areo 137 (Portion J)	10 Jun '22 16 Jun '22 0 36 Nov '18 11 May '19 1		634		NA N V 18 11 MFY 1	
164 B	sue of CE No. 02 O days	16 Mov '18 16 Mov '18 )		635		W'18 15 Nov'1	
166 10	rouvernest of Major Materia 48 days statilitation of N3250 HDPE Pipe from A to B in eccordance 89 days (th the Drawing No. 13/WSD/16/SK13 to 5K15 and 20203/44	17 Nov '18 3 Jan '19 0 4 Jan '19 25 Apr '19 1		656		w '18 3 Jan '1 n '19 25 Apr '1	
67 <u>5</u> 1	r Groupen terilitation and Flushing NS250 HDPE Pipe (From TO+00 to 4 days 23+601	24 Apr '19 28 Apr '19 )	IK Working Day	658	100% 24 /4	or "19 28 Apr "1	
	zərəni alıs Water Sampling 1 day	29 Apr '19 29 Apr '19 H	IK Working Day 667	659	100% 29 A	or '19 29 Apr '1	
647 B	addfl1 at 128+64 after completion of Water Sampling Test 1 day landover Portion J to WID Region O days	11 May '19 11 May '19 1 11 May '19 11 May '19 1		67017		ry'19 11 May'1	



# Appendix B

# Overview of Mainlaying in Tseung Kwan O



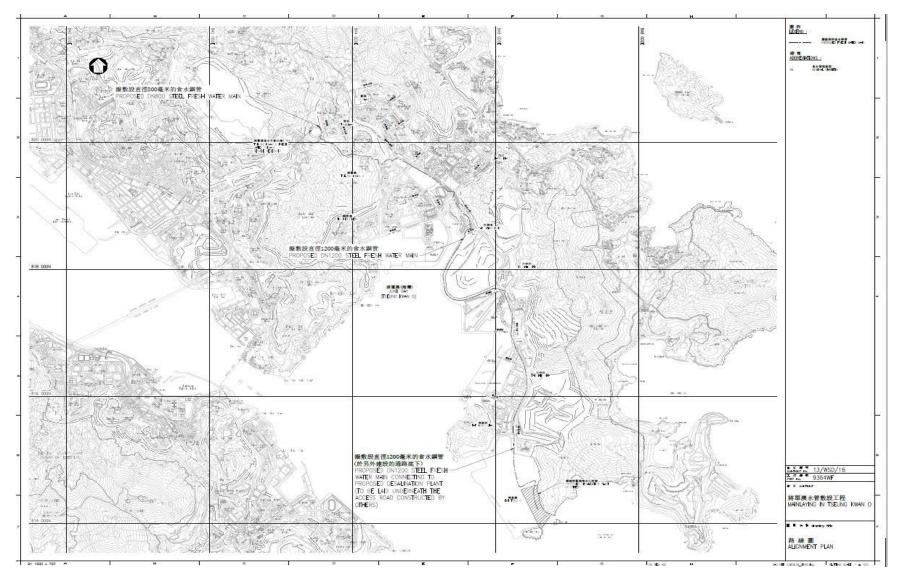


Figure B1. Overview of Mainlaying in TKO



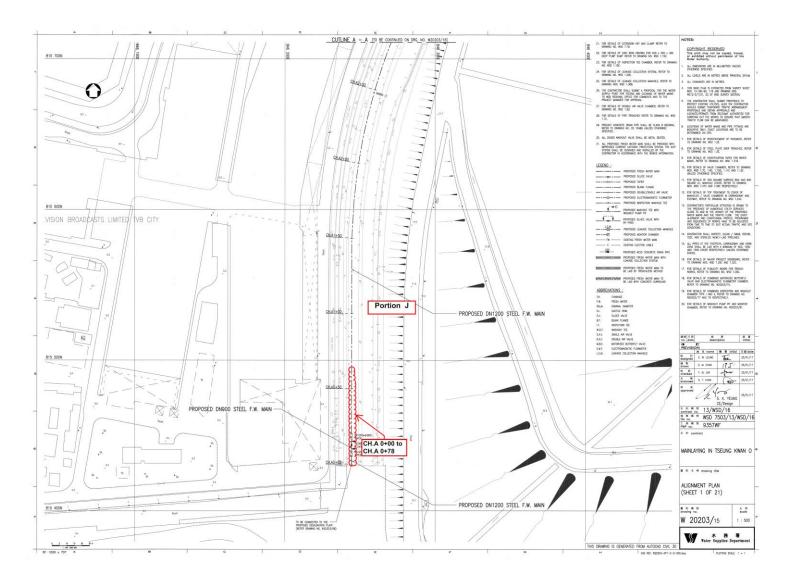


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78



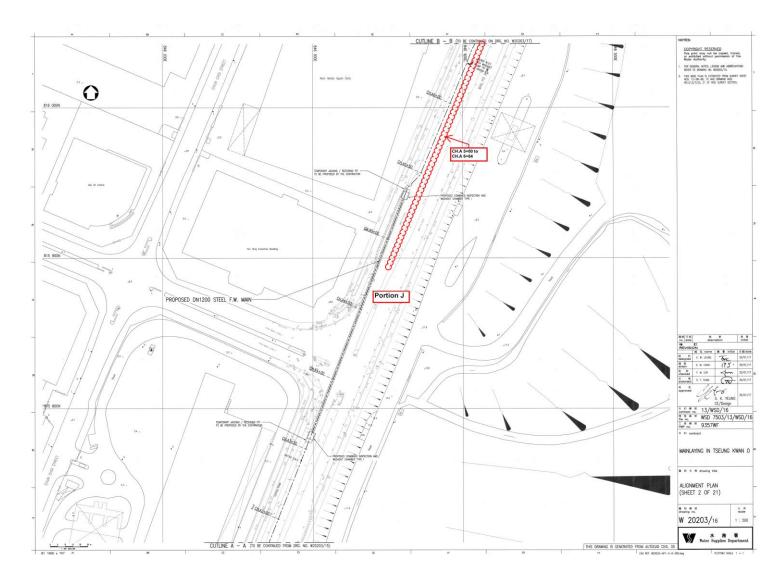


Figure B3a. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64



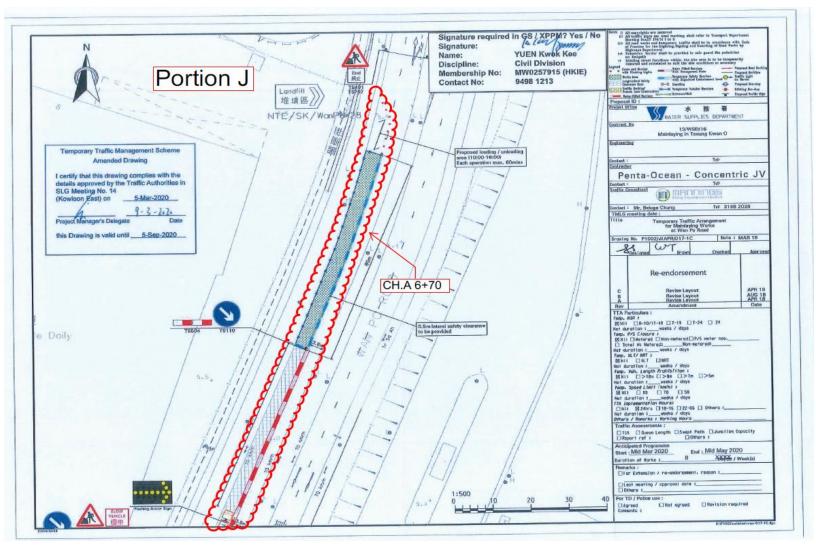


Figure B3b(i). Location Plan for Portion J - CH.A 6+70



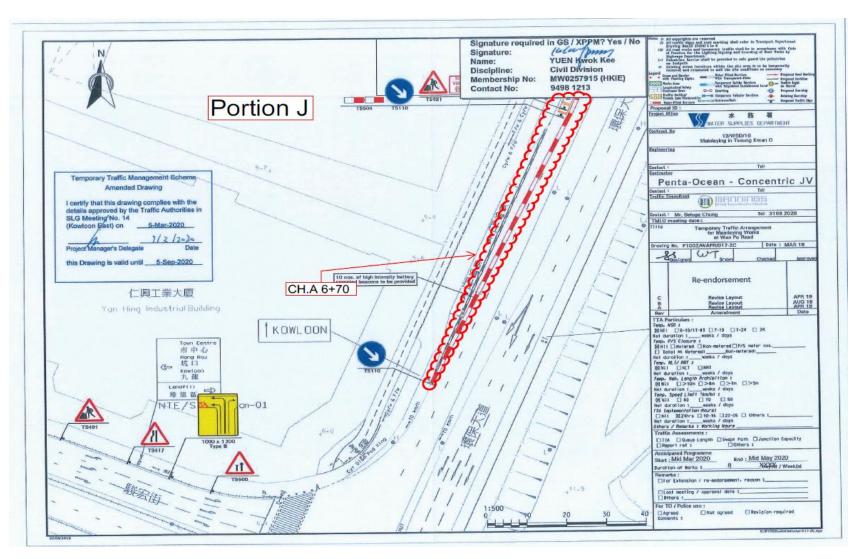


Figure B3b(ii). Location Plan for Portion J - CH.A 6+70



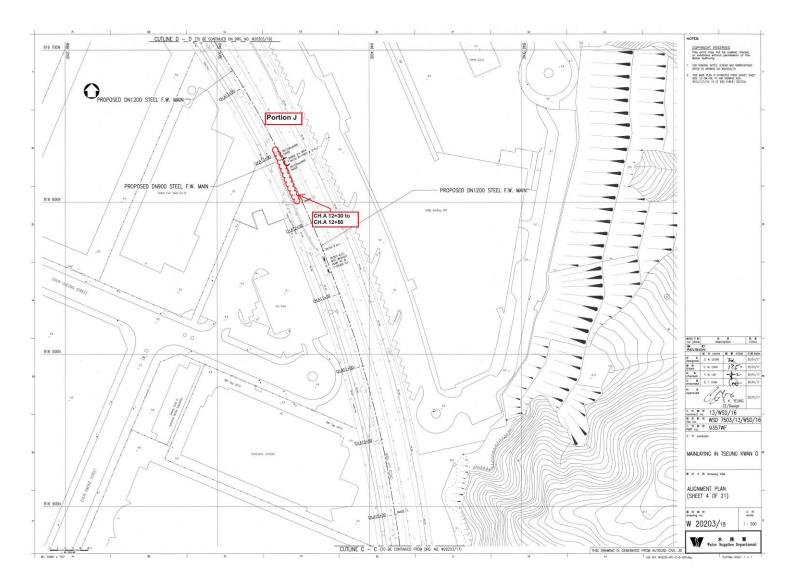


Figure B4. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50



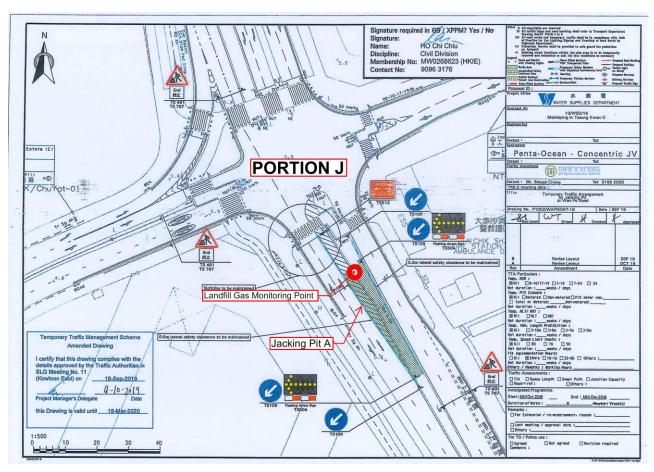


Figure B5. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)



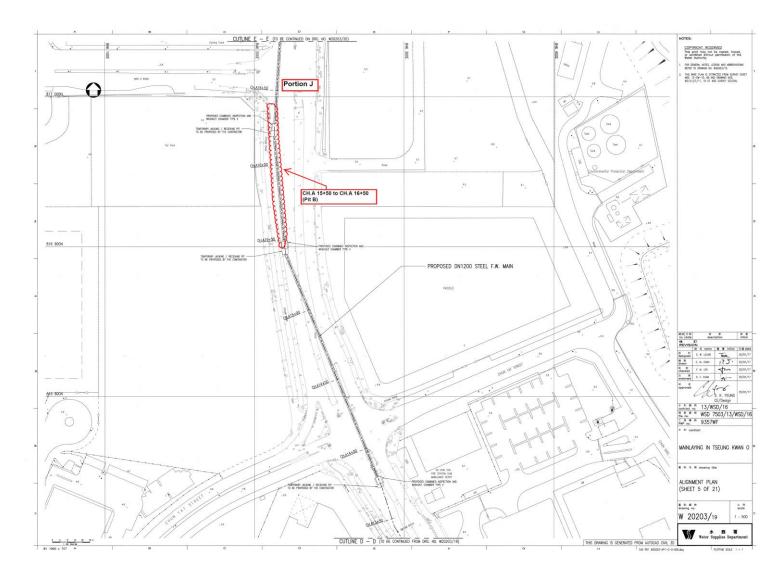


Figure B6. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)





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



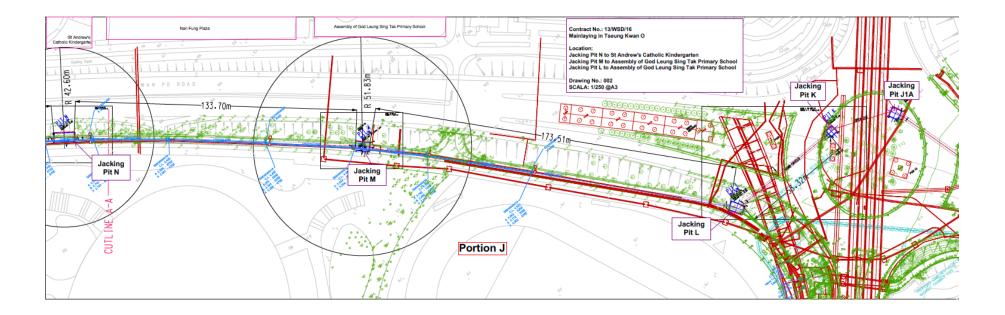


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



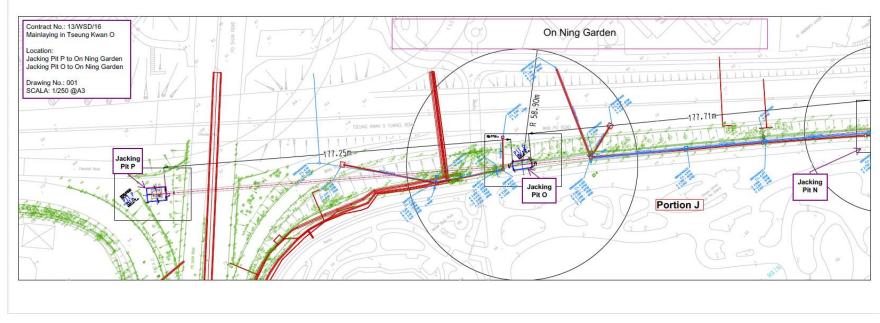


Figure B8b. Location Plan for Portion J – Pit N-O-P



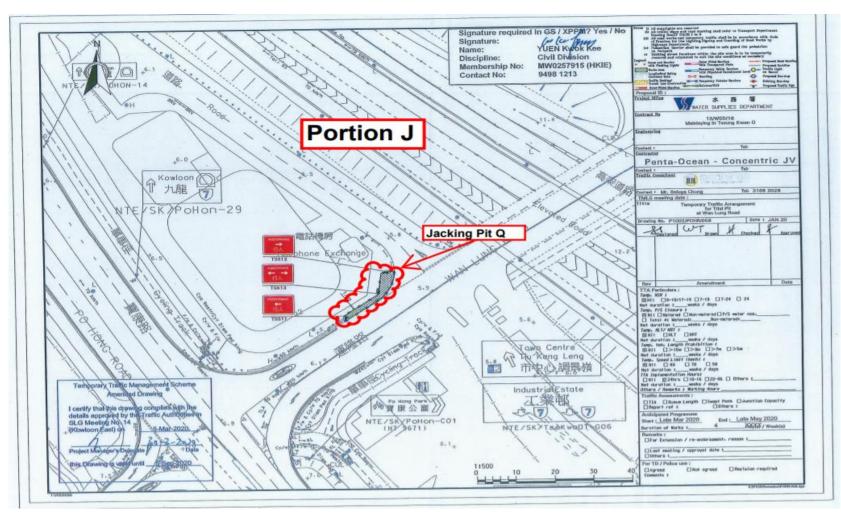


Figure B8c. Location Plan for Portion J – Pit Q



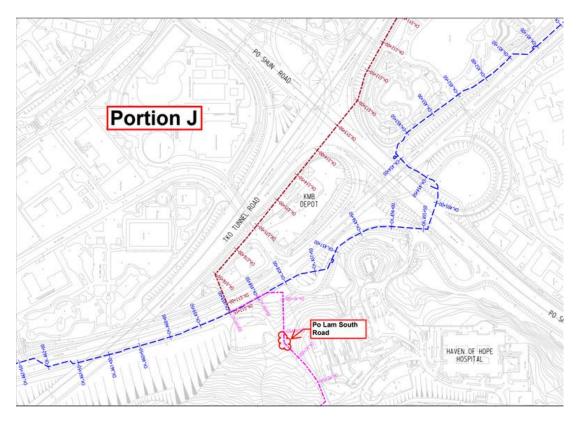


Figure B9a. Location Plan for Mau Wu Tsai 1

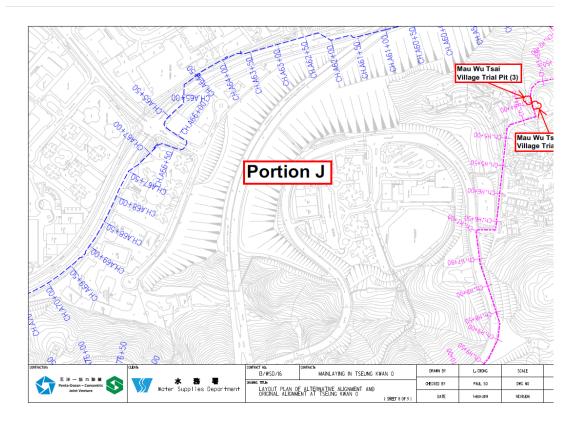


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3



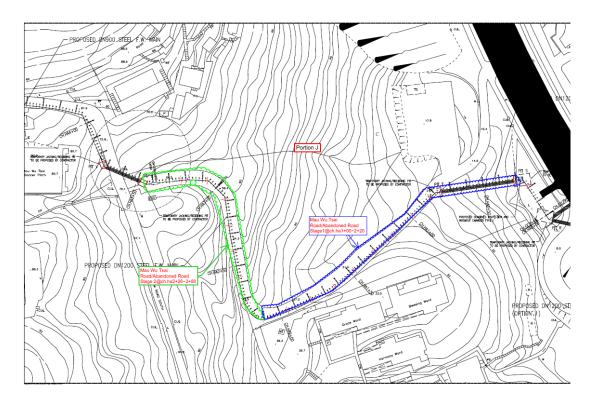


Figure B9c. Abandoned Mau Wu Tsai Road

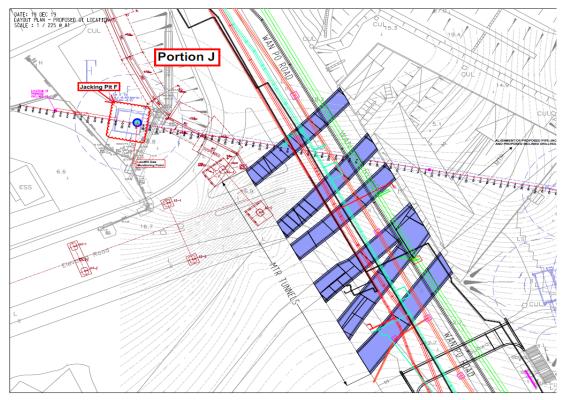


Figure B10. Location Plan for Jacking Pit F



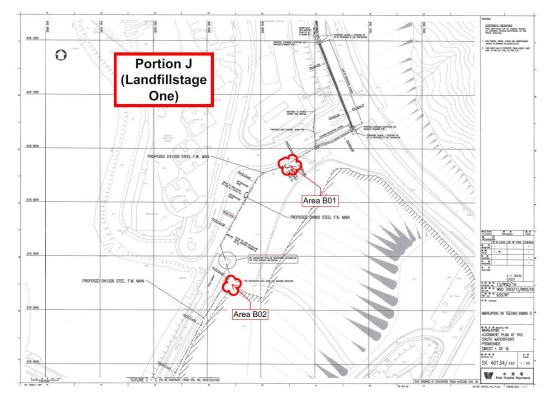


Figure B11a. Location Plan – Landfill Stage 1 (Area B01-B02)

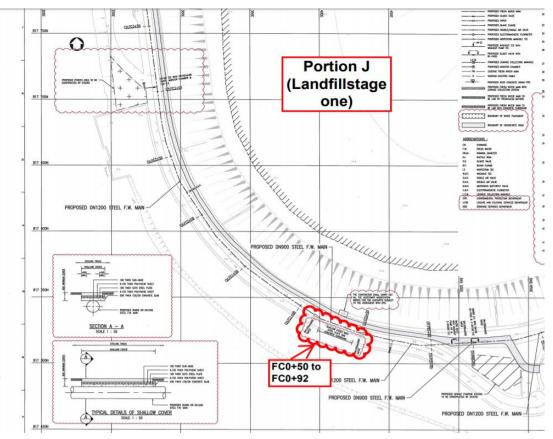


Figure B11b. Location Plan – Landfill Stage 1 (Area FC0+50 -FC0+92)



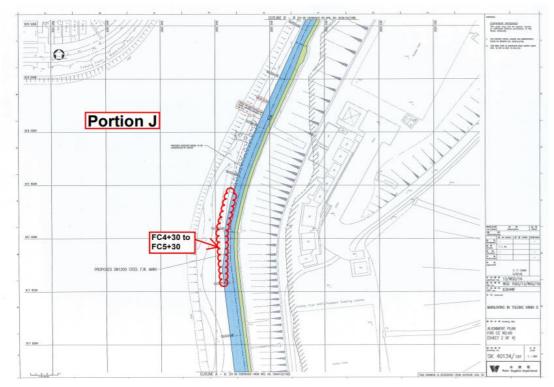


Figure B11c. Location Plan – Landfill Stage 1 (Area FC4+30 -FC5+30)

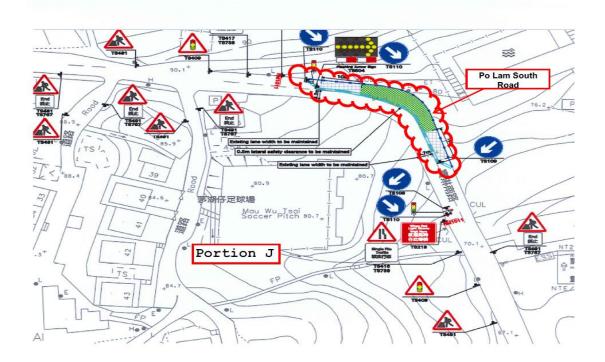


Figure B12. Monitoring Location – Po Lam South Road



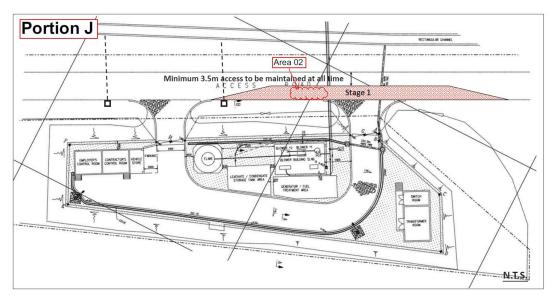
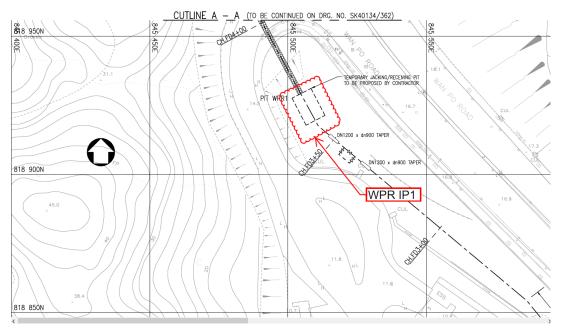


Figure B13. Monitoring Location – Area A02







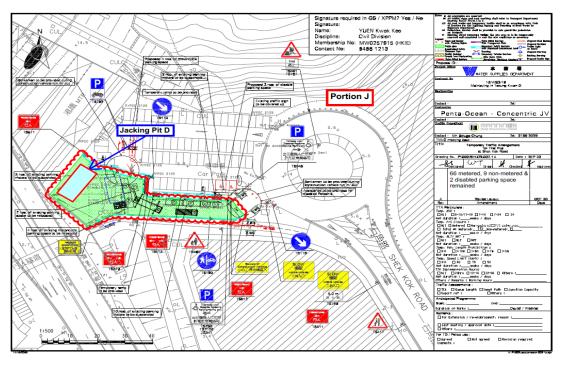


Figure B15. Location Plan for Jacking Pit D

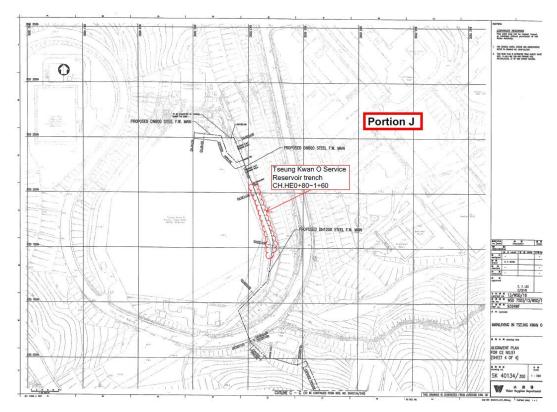


Figure B16. Location Plan for CH.HE0+80-1+60



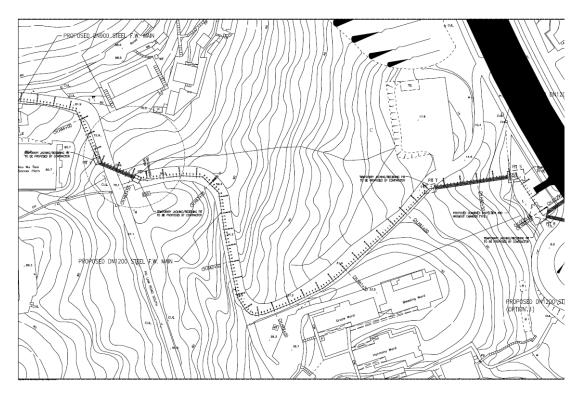


Figure B17. Location Plan for Mau Wu Tsai Abandoned Road

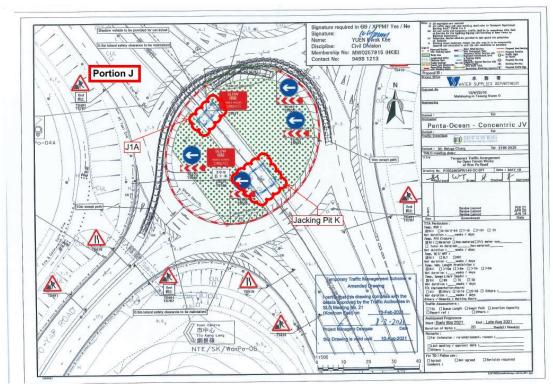


Figure B18. Location Plan for Pit K



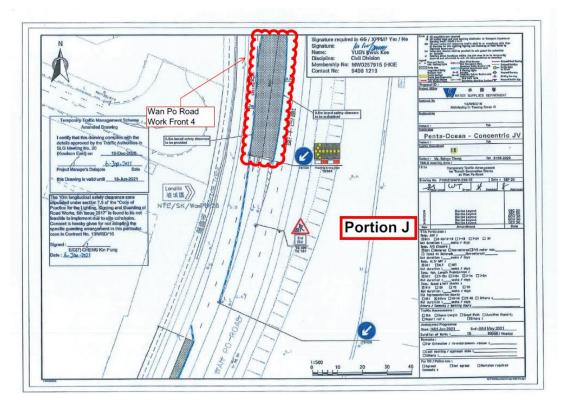


Figure B19a. Location Plan for Wan Po Road 4

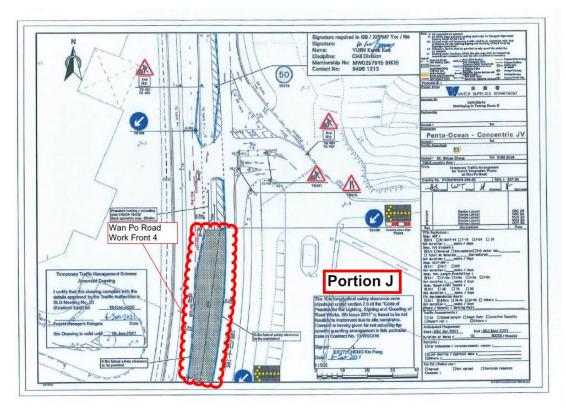


Figure B19b. Location Plan for Wan Po Road 4



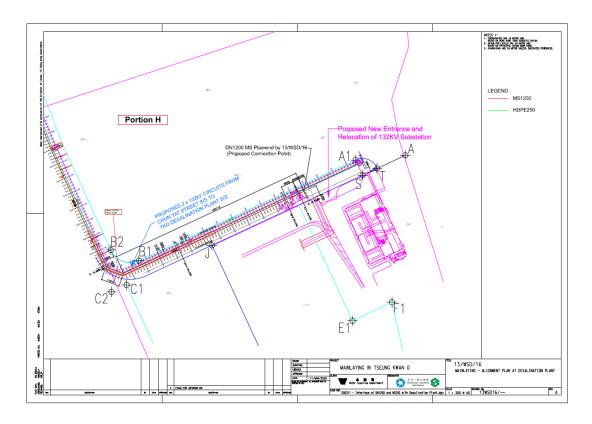


Figure B20a. Location Plan for CH.CT 0+07 – 2+58

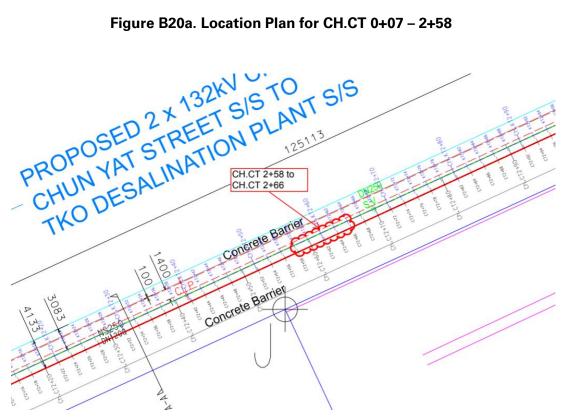


Figure B20b. Location Plan for CH.CT 2+58 – 2+66



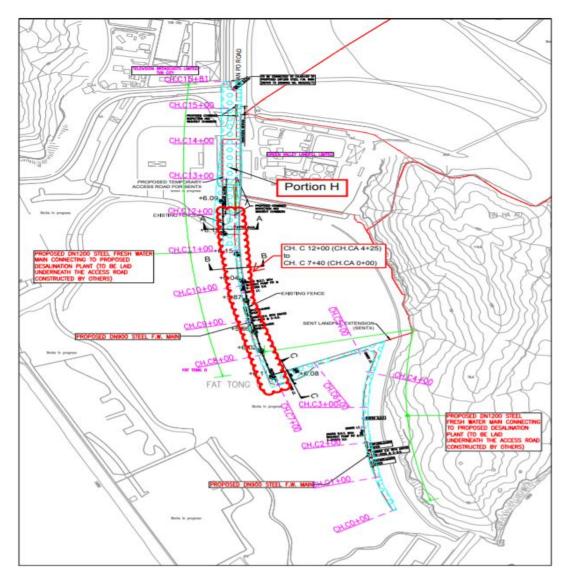


Figure B21. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)



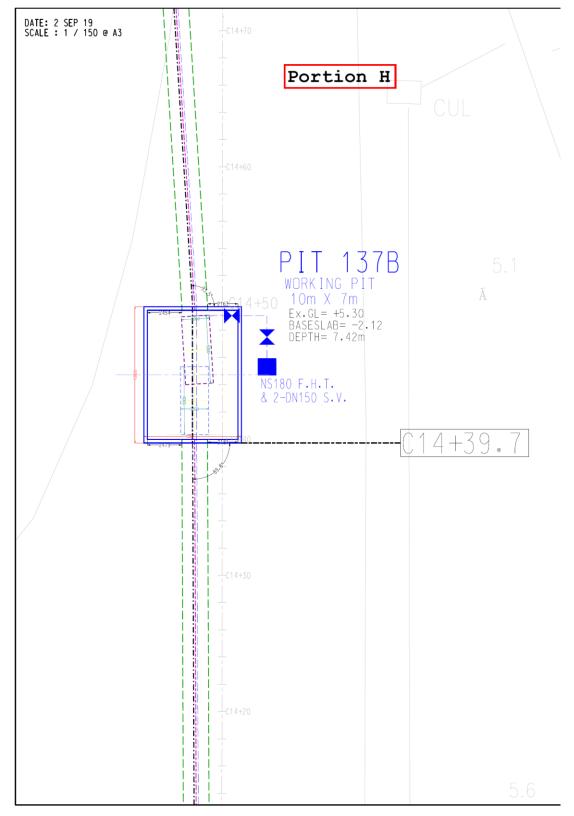


Figure B22a. Location Plan for Portion H– Pit 137B



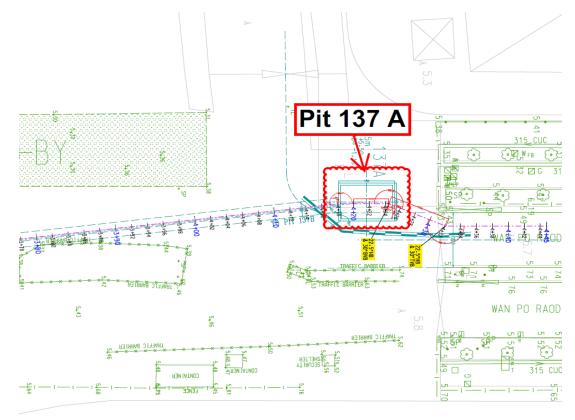


Figure B22b. Location Plan for Portion H– Pit 137A

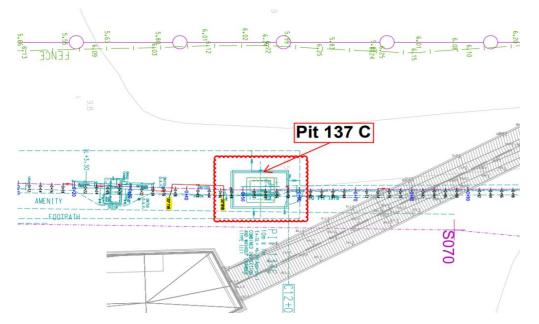


Figure B22c. Location Plan for Portion H– Pit 137C



## Appendix C

# Mitigation

# Summary of Implementation Status of Environmental



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Impler Stage		ion	Implementation	Relevant Legislation & Guidelines
LIA Nelelence	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
Air Quality			•	•				
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		✓		N/A	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		~		NA	
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		-		Implemented	
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	



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Impleı Stage	nentat	ion	Implementation	Relevant Legislation & Guidelines
EIA Reference	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		~		N/A	
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	~	-		N/A	
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		-		Implemented	
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)		<b>~</b>		Implemented, rectified after observation.	
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3- sides.	Land site/ During construction	Contractor(s)		-		N/A	
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		1		Implemented	
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		*	*	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB TC(W)) No 19/2005 on Environmental Management on Construction Sites



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Implementation Stage		Implementation	Relevant Legislation & Guidelines Guidance Note on a Bes	
LIA Melerence	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		1		Implemented	
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be	Land site/ During construction	Contractor(s)		•		N/A	Guidance Note on a Best
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ Environmenta I Team (ET) & Independent Environmenta I Checker (IEC)		*		Implemented	

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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imple Stage	mentat	ion	Implementation status	the Reduction of Noi from Construction Works, A Practical Guide f the Reduction of Noi from Construction Works, A Practical Guide for the Reduction of Noise from Construction Works, A Practical Guide f the Reduction of Noi from Construction Works, A Practical Guide f the Reduction of Noi from Construction Works, A Practical Guide f
	Weasures/ Willigation Weasures	main concerns to address	Agent	D	С	0		Guideimes
Noise			1	T	1		1	
S5.7	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		✓		Implemented	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	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		•		Implemented	
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)		<b>√</b>		Implemented	Works,
S5.7	Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Noise control/ During construction	Contractor(s)		•		Implemented	
S5.7	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor(s)		•		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		•		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater	Noise control/ During construction	Contractor(s)		~		N/A	A Practical Guide for the Reduction of Noise from Construction Works,



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Impleı Stage	mentat	ion	Implementation status	Relevant Legislation & Guidelines
	Weasures/ Willigation Weasures	main concerns to address	Agent	D	С	0		Guidennes
	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.							
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)		<b>√</b>		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)		✓		Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (ie the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	Noise control / During construction	Contractor(s)		✓		Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators. Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m <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)	<b>·</b>	•		N/A	
S5.9	Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	-	•		Implemented	



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impler Stage		ion	Implementation status	Relevant Legislation &
	Weasures/ Willigation Weasures	main concerns to address	Agent	D	С	0		Relevant Legislation &         Guidelines
S5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (eg summer holiday, Easter holiday or Christmas holiday, etc) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)	×	•		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)/ Environment al Team (ET) & Independent Environment al Checker (IEC)		•		Implemented	-

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



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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati on Agent	Stage	nentat		Implementation status	Relevant Legislation & Guidelines
	Measures/ Millyalion Measures	main concerns to address	on Agent	D	С	0		
S6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms.	Land site & drainage/ During construction	Contractor(s)		-		Implemented, rectified after observation	ProPECC PN 1/94 TM Standard under the WPCC
S6.9	Deposited silt and grit will be removed regularly. Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		•		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		1		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)		×		Implemented	ProPECC PN 1/94
S6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-
S6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati on Agent	Impler Stage	nentat	ion	Implementation status	Relevant Legislation & Guidelines
	weasures/ willigation weasures	main concerns to address	on Agent	D	С	0		Guidennes
S6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		•		Implemented	-
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		-	•	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		•	-	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	Site drainage should be well maintained and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		•	<b>v</b>	Implemented, rectified after observation	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati	Implen Stage	nentati	on	Implementation status	Relevant Legislation & Guidelines
	weasures/ willigation weasures	main concerns to address	on Agent	D	С	0		Guidennes
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ Environment al Team (ET) & Independent Environment al Checker (IEC)		~		Implemented	-

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



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
Waste Manage	ement							
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilisation/ During construction	Contractor(s)				Implemented	-
S8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilisation/ During construction	Contractor(s)		<b>·</b>		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		•	✓	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		~		Implemented, rectified after reminder.	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
\$8.5	A waste management plan (WMP) as stated in the " <i>ETWB TC(W) No. 19/2005, Environmental</i> <i>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)		-		Rectified after reminder.	Chapters 2 & 3 Code of Practice on the Packagin Labelling & Storage of

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

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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	С	0	]	Guidelines
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)		<b>√</b>		Implemented	-
\$8.5	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		•		N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No.</i> <i>34/2002</i> will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		<b>√</b>		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		✓		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.	Contract mobilisation/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s )/ Environmen tal Team (ET) & Independent Environmen tal Checker (IEC)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
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S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		~		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		<b>√</b>		N/A	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		•		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		-		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		-		Implemented, rectified after observation.	Air Pollution Control (Construction Dust) Regulation (Cap 311R)
\$8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>•</b>	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	<b>v</b>	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes



IA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	С	0		Guidennes
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		-	<b>√</b>	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		✓	<b>√</b>	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		•	<b>√</b>	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
\$8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		-	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		•	~	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be	All area/ During	Contractor(s)/		✓	✓	Implemented	Waste Disposal

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EIA Reference	Recommended Environmental Protection		Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation &
				D	С	0		Guidelines
	arranged so that incompatible materials are appropriately separated.	construction/ During operation	WSD					(Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	<b>√</b>	Implemented, rectified after reminder.	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		<b>√</b>	✓	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	~	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		•		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		•		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit	All facilities/ During construction	ET/ IEC		•		Implemented	-

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FIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implen Stage	nentati	on	Implementation Status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
	programme will be implemented throughout							
	the construction phase.							

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



IA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impleı Stage	nentat	ion	Implementation Status	Relevant Legislation & Guidelines	
	Measures/ Mitigation Measures	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)	*	-		Implemented	-	
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		~		Implemented		
S9.7	The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	•	*		N/A	-	
S9.7 and 9.10	At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	•		Implemented		
S9.7	Temporary fencing will be installed to fence off	Slope mitigation works	Contractor(s)		✓		N/A	-	

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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	recommended measures &	Implementation Agent	Stage			Implementation Status	Relevant Legislation & Guidelines
		main concerns to address	Agent	D	С	0		Guidennes
	the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.	area/ During construction						
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		<b>√</b>		N/A	-
S9.7	Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		~		N/A	-
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		~		N/A	-
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		•		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ Environmental Team (ET)		•		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		~		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	recommended measures o	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
	incasures/ initigation measures	main concerns to address	Agent	D	С	0		Guideinies
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	-

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



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation Agent	Implei Stage	nentat	ion		Relevant Legislation & Guidelines
		main concerns to address	Agent	D	С	0		Guideilnes
	Landscape & Visual			1 .	1 .	<b>.</b> .	-	
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	-		Implemented	-
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	-		Implemented	-
S11.10 & 11.11	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (ie without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, - to reduce their visual impact and blend them into the surrounding landscape. (MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	•	Implemented	-
S11.10 & 11.11	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	✓	Implemented, rectified after observation	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•		Implemented	DEVB TC(W) No. 10/2013

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-14 Keterence	Recommended Environmental Protection	recommended measures &	Implementation	Imple Stage	mentat	ion		Relevant Legislation & Guidelines
	Measures/ Mitigation Measures		Agent	D	С	0		Guidennes
	departments.							
	A compensatory tree planting proposal							
	including locations of tree compensation will							
	be submitted to seek relevant government							
	department's approval, in accordance with							
	DEVB TC(W) No. 10/2013. (MM5)							
S11.10 & 11.11	Any slope mitigation works necessary to address	All area/ Detailed design/	WSD/	✓	✓	✓	N/A	
	natural terrain hazards, will be minimized to	During construction/	Contractor(s)					
	minimize any potential environmental impact to	During operation						
	the Country Park e.g. soil nailing and rock							
	stabilization will aim to avoid existing trees e.g.							
	should any restoration of vegetation be							
	necessary, the best planting matrix with native							
	species will be established, with the aim of							
	resembling the existing vegetation. (MM6)							
S11.10 & 11.11	Dredging works for the installation of intake	All area/ Detailed design/	WSD/	<ul><li>✓</li></ul>	✓	✓	N/A	
	structures and outfall diffusers should be	During construction/	Contractor(s)					
	minimized to avoid or reduce any potential	During operation						
	environmental impacts to as low as reasonably							
	practicable (ALARP). The intake and outfall							
	structures (e.g. intake openings and diffuser							
	heads) will be prefabricated and transferred to							
	site for installation. (MM7)							
S11.10 & 11.11	All night-time lighting will be reduced to a	All area/ Detailed design/	WSD/	<ul><li>✓</li></ul>	✓	✓	Implemented	-
	practical minimum both in terms of number	During construction/	Contractor(s)					
	of level and will be hooded and directional.	During operation						
	(MM8)units and lux level and will be hooded							
	and directional. (MM8)							

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



IA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impleı Stage	mentat	ion	Status	Relevant Legislation &
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
	Landfill Gas Hazard							
S12.7	During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/ During operation	Contractor(s)		×	*	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 metre.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	-	<b>~</b>	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	

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IA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Impleı Stage				Relevant Legislation & Guidelines
			Agent	D	С	0		Guidennes
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.	All area/ Detailed design/ During construction/ During operation	Contractor(s)		•	<b>·</b>	Implemented	
S12.7	carbon dioxide and 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>v</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)	<b>√</b>	-	•	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)	×	Ý		Implemented	
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the	All area/ Detailed design/ During construction/ During operation	Contractor(s)	-	•	<b>~</b>	N/A	

Acuity Sustainability Consulting Limited



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

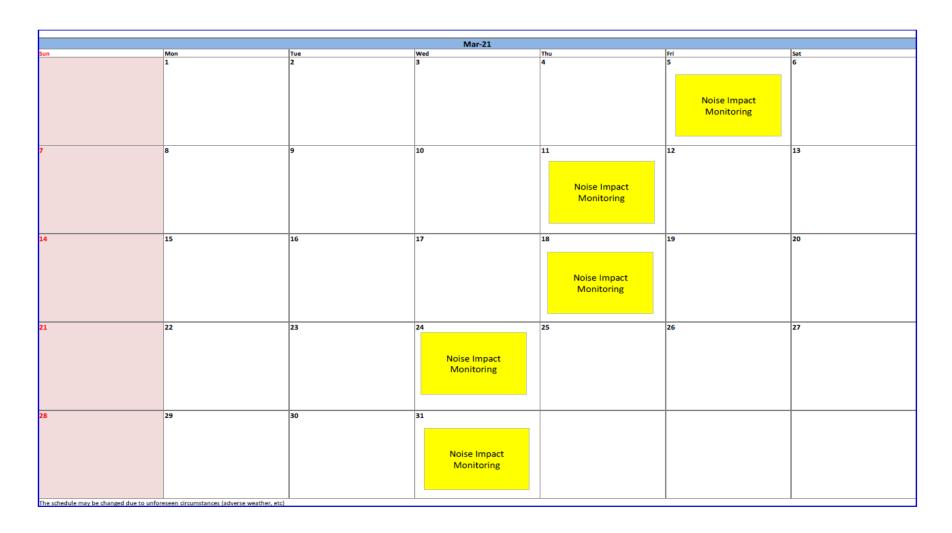
Note: D – Design stage C – Construction O – Operation



# Appendix D

# Impact Monitoring Schedule of the Reporting Month







# Appendix E

# Noise Monitoring Equipment Calibration Certificate





### **CERTIFICATE OF CALIBRATION**

Certificate No.:	20CA0803 01		Page:	1 of 2
Item tested				
Description:	Acoustical Calibra	tor (Class 1)		
Manufacturer:	Pulsar Instrument			
Type/Model No.:	105	5 LIU.		
Serial/Equipment No.:	63705			
Adaptors used:	-			
tem submitted by				
Curstomer:	A	the Communitient Line the d		
Address of Customer:	Acuity Sustainabil	ity Consulting Limited.		
Request No.:				
Date of receipt:	03-Aug-2020			
Date of test:	06-Aug-2020			
Reference equipment	used in the calib	oration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
ab standard microphone	B&K 4180	2341427	11-May-2021	SCL
Preamplifier	B&K 2673	2743150	03-Jun-2021	CEPREI
Measuring amplifier	B&K 2610	2346941	03-Jun-2021	CEPREI
Signal generator	DS 360	33873	19-May-2021	CEPREI
Digital multi-meter	34401A	US36087050	19-May-2021	CEPREI
Audio analyzer	8903B	GB41300350	18-May-2021	CEPREI
Universal counter	53132A	MY40003662	18-May-2021	CEPREI
Femperature: Relative humidity: Air pressure:	22 ± 1 °C 55 ± 10 % 1005 ± 5 hPa			
Test specifications		10-20-1-0		
			requirements as specifi	ed in IEC 60942 1997 Annex E
	on procedure SMTP0		at the specific frequency	using insert voltage technique
				for variations from a reference nt is insensitive to pressure
lest results				
This is to certify that the sound of				
est was performed. This do	es not imply that the :	sound calibrator meets I	EC 60942 under any ot	her conditions.
Details of the performed me	asurements are pres	ented on page 2 of this	certificate.	SIS ENGINE
	1			13 BORN
Approved Signatory:	ad	Date: 07-Aug-:	2020 Company Cl	hop:
Comments: The results rep	Feng Junqi	e refer to the conditon o	f the instrument on the	date of calibration and
carry no implication regardin	ig the long-term stabi	lity of the instrument.	r and motionnenit off (the t	and or calibration and

© Soils & Materials Engineering Co., Ltd.

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

HKAS has accredited this laboratory (Reg. No. HOKLAS 028) under HOKLAS for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. The results relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without approval of the laboratory.

v



	SOILS & MATERIAL 香港新界葵涌永 The Whole Block of YLK G	<b>有限公司</b> SENGINEERING CO., LTC <sup>素路22-24</sup> 號椰林閣 roup Building, Nos. 22-24 Wing Ku x: (852) 2555 7533 E-mail: smc	集團大廈全幢 ei Road, Kwai Chung, New Terri		Iac-MRA	HALAS 028 CAL
			E OF CALIBRA			
Cert	ificate No.:	20CA0803 01		Page: 2	of 2	
1,	Measured Sound P	ressure Level				
		ressure Level in the calibrato ry standard microphone and ainties.		The results are given the results are given by		
	Frequency Shown Hz	Output Sound Pressur Level Setting dB	re Measured Ou Sound Pressure dB	tput Estim	nated Expanded Uncertainty dB	
	1000	94.00	93.78		0.10	
3,	Actual Output Freq	uency				
	preamplifier connect counter which was u	f actual output frequency was ed to a B&K 2610 measuring sed to determine the frequer l output frequency at 1 KHz v	amplifier. The AC output ncy averaged over 20 seco vas:	of the B&K 2610	was taken to an	universal
	Estimated expanded		quency = 1000.3 Hz 0.1 Hz	Coverage fact	for $k = 2.2$	
4,		stortion and Distortion measurement, lent Type 8903 B distortion a			neasuring amplifi	er was
	At 1000 Hz		TND = 0.6 %			
	Estimated expanded	uncertainty	0.7 %			
	of uncertainty in mea	tainties have been calculate asurement", and gives an int ad unless explicitly stated.				
	Calibrated by:	1-1	- End - Checked by:	at	- 14 T	
	The second second second	6-Aug-2020	Date:	Feng Junqi 07-Aug-2020		
	standard(s) and equipm	ent used in the calibration a		international recog	gnised standards	and are
	standard(s) and equipm	ent used in the calibration a maintain the required accura		international reco	gnised standards	and are







#### 6. Self-generated noise

7.

Microphone replaced by electrical input signal device

Rate of the F weighting de	rease (dB/s)
. F&S Weighting	
8.9 dB(A)	16.6 dB(C)

Rate of the S weighting decrease (dB/s)

8. Level Linearity (A-weighting at frequency 1 kHz)

Reference sound level 90.0 dB

Max error at 10dB steps upper reference sound level -0.1 JB

Max error at 1dB steps within 5dB of the upper limit line;  $^{\circ}$  op  $^{\circ}$  rating range 0.0 dB

Deviation of F&S

Max error at 10dB steps below reference sound level  $\underline{0.1}~\mathrm{dB}$ 

Max error at 1dB steps within 5dB upper the lower limit linear operating range 0.2 dB 9. Tone burst response (A Weighting) :

Single Toneburst duration /r	ms	Toneb. rst response /dB							
	Larmax-LA	Lasmex=La	LAE-LA	-negT-LA					
500	0.5	-4.0	-2.9	7.0					
200	-1.0	-7.4	-6.9	-7.0					
50	-18.0	-26.9	-26.9	-7.0					
10	-27.2	1	-36.0	-7.0					

19.8 dBi."

35.2

4.4

0.0

10. Peak C sound level (500Hz)

Cycle	One cycle	nominal value	Positive half	nomina' value	Negative half	nominal value
LCpeak-LC(dB)	3.5	3.5	2.3	2	2.3	2.4

11. Overload indication: Pass

12 Statistical analysis function

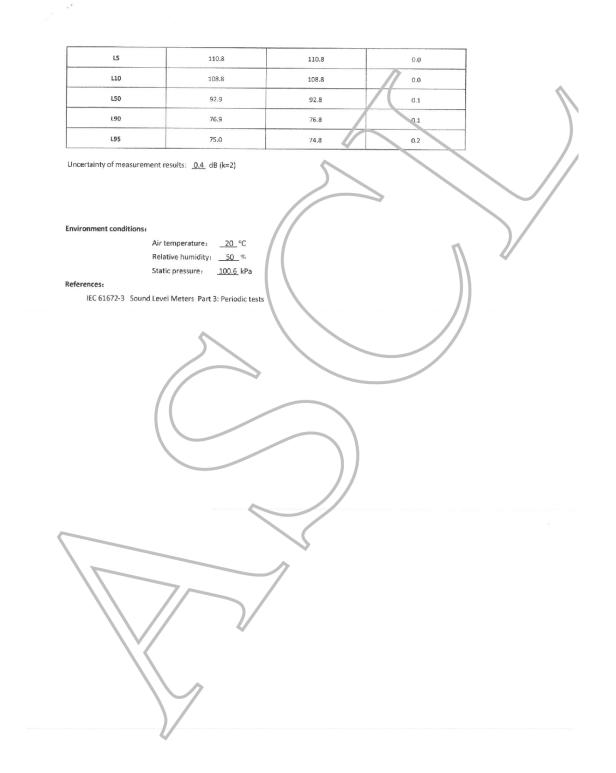
Sweep sig at maximum indicated sound level: 112.0 40

Sweep a mpl. ude: 40 dB

Scan cycle ime 60 S: Measu em int period: 180 S.

Itens	Measured value/dB	Theoretical calculated value/dB	Error/dB
LAeq,T	103.2	103.2	0.0







## (A+A)\*L Accusics and All festing Laboratory Could 警學及空氣測試實驗室有限公司

### Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTIAudio
Type No.:	XL2 (Serial No.: A2A-13663-E0)
Microphone:	ACO 7052 (Serial No.: 73912)
Preamplifier:	NTi Audio MA220 (Serial No.: 5735)
	Submitted by:

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

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

Within 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: 08 September 2020

Date of calibration: 09 September 2020

Calibrated by: -Con Calibration Technician

Certified by: Mr. Ng Yan Wa Laboratory Manager

Date of issue: 09 September 2020

Certificate No.: APJ20-104-CC001

Page 1 of 4

Room 422.Leader Industrial Centre,57-59 Au Pui Wan Street .Fc Tan. Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946



### (A+A)\*L Acousties and Air Testing Laboratory Co. Ltd. 登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:	23.8°C
Air Pressure:	1008 hPs
Relative Humidity:	62.5 %

#### 3. Calibration Equipment:

	Type	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)			Аррі	licd value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	ighting	Time Weighting	Level, dB Frequency, Hz d		dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	Setting of Unit-under-test (UUT)			Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	Veighting	Time Weighting	Level, dB	Frequency, Hz	ав	Specification, dB
				94		94.0	Ref
30-130	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 I	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	d B.	Specification, dB
30-130	ďB∆	SPL	Fast Slow	91	1000	94.0 94.0	Re." =0.3
					(S)	Course Carling	

((A+A) \*L

Page 2 of 4

Cartificate No.: APJ20-104-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatir, N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homosona Hamilton Wantur as Joh com



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

#### Frequency Response

Linear Response

Setting of Unit-under-test (LUT)					ied value	CUT Reading,	HCC 61672 Class	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
					31.5	94.3	±2.0	
					63	94.3	±1.5	
					125	94.3	±1.5	
					250	94.2	±1.4	
30-130	dB.	SPL	Fast	94	500	94.1	+1.4	
					1000	94.0	Ref	
					2000	93.8	11.6	
					4000	\$3.6	±1.6	
					80:10	93.4	-2.1; -3.1	

A-weighting

Setting of Unit-under-test (UUT)			Арр	Applied value		HCC 61672 Class )	
Range, dB	Freq. W	eighting/	Lime Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 22.0
					63	68.0	-26.2 _1.5
					12.5	78.1	-16.1 =1.5
					250	85.5	-8.5_1.4
30-130	dBA	SPL	Fast	94	500	90.8	-3.2=1.4
					1000	94.Ú	Ref`
					2000	95.0	+1.2 :: 1.6
					4000	94.6	±1.0 ±1.5
			1		8000	92,3	-1.1-2.1; -3.1

C-weighting

Setting of Unit-under-test (LUT)			App	Applied value		IEC 61672 Class 1	
Range, dB	Freq. W	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.012.0
					63	93.4	$-0.8 \pm 1.5$
					125	94.1	-0.2±1.5
					250	94.1	-0.0 ±1.4
30-130	dBC	SPL	Fast	94	:500	94.1	$-0.0 \pm 1.4$
					1000	94.0	Rel
					2000	93.6	-0.2.51,6
					4000	92.8	-0.8±1.6
1780 Aug 10					8000	90.4	-3.0+2.1;-3.1

Certificate No.: APJ20-104-CC001



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

### 5. Culibration 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 cB	31.5 Hz	$\pm 0.05$
	63 Hz	± 0.05
	125 Hz	<u>1</u> 0.05
	250 Hz	上 0.05
	500.Hz	+ 0.05
	1000 Hz	± 0.05
	2000 Hz	⊖ 0.05
	4000 11z	+ 0.05
	8000 Hz	1 0.10
104 dB	1000 Etz	± 0.05
114 dB	1000 Hz	<u>1</u> 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.  $(A+A)^*I$ , shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ20-104-CC001



Page 4 of 4

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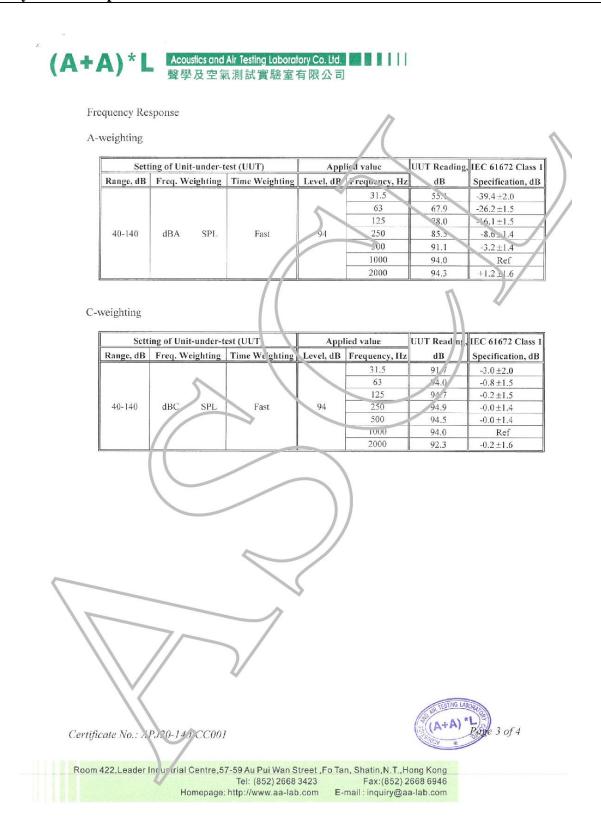


(A+A)*L Acoustics and Air Testing Laboratory Co.Ltd. ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Certificate of Calibration	1
for	
Description: Sound Level Meter	
Manufacturer: Lutron	
<i>Type No.:</i> SL-4033SD (Seria: No.: 1491835)	
Submitted by:	
Customer: Acuity Sustainability Consulting Limited	
Address: Unit 1'08, Nos. 301-305 Castle Peak Road, Ky vi Chung, V.T.	
Upon receipt for calibration, the instrument was found to be:	
☑ Within	
□ Outside	
the allowable tolerance.	
The test equipment used for calibration are traceable to National Standards da: - The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory	
Date of receipt: 0.2 December 2020	
Date of calibration: 97 December 2020	
Date of canoration: Of December 1320	
Calibrated by: bp. Crtified by: h/ 4/1/2	
Culibration Technician // Mr. Ng Yan Wa /Laboratory Manager	
Date of issue: 07 December 2020	
Certificate No.: XP520-14 7 CC001	
Room 422,Leader In ur trial 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)Testing Laboratory Co. Ltd. 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:** 23.5 °C Air Temperature: 1006 hPa Air Pressure: **Relative Humidity:** 62.5 % 3. Calibration Equipment: Calibration Туре Serial No. Traceable to Report Number 2288467 AV200041 HOKI AS Multifunction Calibrator B&K 4225 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 F eq. Weighting Time weighting Level, dB Frequency, Hz dB Specification, dB +0.4 40-140 SPL Fast 1000 94.0 a3A Linearity UUT Reading, IEC 61672 Class 1 spr fied value Setting of Unit-under-test (UUT) Specification, dB Level, .B Frequency, Hz Range, dB Freq. Weighting Time Weighting dB 94 94.0 Ref dBA SPL 104 1000 104.0 ±0.3 40-140 Fas 114.0 +0.3 114 Time Weighting Setting of Unit-under test (UU".) UUT Reading, IEC 61672 Class 1 Applied value Range, dB Freq. Weighting Time Weighting Level, dB Frequency, Hz dB Specification, dB Fast 94.0 Ref 40-140 dBA SPL 94 1000 Slow 94.0 ±0.3 (A+A) \*Lp 2 of 4 Certificate No.: APJ20-140-CC001 Room 422, Leader In Justrial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 E-mail: inquiry@aa-lab.com Homepage: http://www.aa-lab.com











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

#### Methods Used in Calibration and Testing

#### Wind Speed:

The Kestrel Weather & Environmental Meter impeller installed in this unit was individually tested in a subsonic wind tunnel operating at approximately 300 fpm (1.5 m/s) and 1200 fpm (6.1 m/s) monitored by a Gill Instruments Model 1350 ultrasoric time-of-flight anemometer. The Standard's maximum combined uncertainty is +/-1.04% within the airspeed range 706.6 to 3023.9 fpm (3.59 to 19.93 m/s), and +/-1.66% within the airspeed range 166.6 to 706.6 fpm (0.86 to 3.59 m/s).

#### Temperature:

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

#### **Direction / Heading**

The sensitivity of the magnetic directional sensor is verified at the component level by applying a magnetic field to the sensor and measuring the signal output at 4 points, as well as after assembly by orienting the unit to the cardinal directions and measuring the magnetic field output. In both cases, the compass output must be accurate to within +/- 6 degrees.

#### Relative Humidity:

Relative humidity receives a two-point calibration in humidity and temperature controlled chambers at 75.3% RH and 32.8% RH at 25° C. The calibration tanks are monitored with an Edgetech Model 2002 DewPrime II Standard Chilled Mirror Hygrometer. Following calibration, performance is further verified at an RH of approximately 43.2% against the Edgetech Hygrometer. The Edgetech Hygrometer is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of 4/– 0.2% RH.

#### **Barometric Pressure:**

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

#### Approved By:

12

The enclosed Kestrel Weather & Environmental Meter was manufactured by Nielsen-Kellerman Go, at its facilities located at 21 Greek Circle, Boothwyn, PA 19061 USA

Michael Naughton, Engineering Manager



999956	030050	980289 980289	0.5544	3500	NINGS			638366	Contraction of the		SENSO	ROLIDON	SPECIFICATION	OPERATIONAL	KOTES
2000	2500	3668	3608	OT	4000	4200	4260	4300	4500	Boll Istics	ACCURACY (+!.)"	RESOLUTION	RANGE 0.6 to 40.0 m/s	RANCE 0.6 to 50 C m/s	NOTES 1 inch[25 mm diameter impelier with precision axis and inventition Zytel® beerings, State
											Larger of 3% of	\$ Itimun 0.1 kravih	118 to 7,874 R/min 2,2 to 146 D 2 mm	118 to 11,611 f/min 2,2 in 216.0 km/b	spage state as lower limit, readings may be taken down to 0.4 mis   79 f/min   1.5 km/h mph   .5 kt after impetier statup, Of anis accuracy -1% @ 5º off-adia: -2% @ 10°; -3% @
٠	\$	٥		ø	۵	۵		a	6	0	reading, least sign\$1cant digit or 20	0.1 mah 0.1 knots	1.3 to 89.5 mph 1.2 to 77.8 knots	1.3 le 134.2 mph 1.2 to 116,6 knote	Calibration drift = 1% effect 100 hours use at 15 MPH [ 7 mio. Reptacement impolier (NK i 0601) field installe without bools (US Patent 5,783,703). Wind speed calibration and testin
											Rimia	18' 9176'	9 to 12 B* 2-131.2*	0 to 12 8* 2-196.9 F/S*	should be done with blangle on imperier located at the lop front face of the Kestrel. *FIS only in Ballistics units, Bezulo I not available in Ballistics units.
							:								Hereatically sealed, meridian themistor mounted externally and thermally isolated IUS
			_		_	-				_	0.9.7	0.1 17	-20.0 to 156.0 ° P	14.9.9 to 131.0 °F	Patent 5,020,840) for rapid response. Airflew of 2.2 mphil m/s or greater prevides testas response and valuebon of inscision affect. Calibration entrinegligible. The mission agriat be used to measure temperature or water ar smore by submerging thermistion proton site.
•	٩	,	•	•	· *	•	•	•	•		0.6 10	0.5 °C	-29.0 to 70.0 °C	-10,0 to 55,0 °C	be used to mesouria (angletaura of water at same by submission) proton has metanist renove impetent prior to taking submenged mesourcements and nove hundlis sensor membrano is free of iquid water prior to taking hundlity-based measurements off
															submersion.
											:				Polymer capacitive humidity senser mounted in thin-walled chamber attential to case for replit, accurate response (US Patent 6.257.074). To achieve stated ecouracy, unit must b
		ø	8	ø			-8	a			3.0 %RH	0.1 % RH	S to 95% non-condensing	0 to 100%	permitted to equilibrate to external temperature when exposed to longe, repid temperature changes and be kept out of direct sunight. Calibration drift 41-2% over 24 ments. Humi
															sansor may be recalibrated at factory or in field using Kestrel Humidity Calibration Kik (Ni 0802)
											C.		5.56 to 32.49 InH g 300.0 to 1100.0 hPoimber	10.0 to 1654.7	More little slicon piezorosistive pressure senser with second-order temperature conective Pressure sensor may be recalibrated at factory or in Reid. Adjustable reference a bludo a
	۰.		•	۹		3			a	•	: 03 InHig 1.0 bPalimbar	0.91 inHg 0.1 hPojmbar 0.01 PSI	4.35 to 15.95 PS1 and	0,64 to 24.00 PSt antri	display of station prossure or bencmetric pressure connected to MSL. Kestrel 4200 display station preceive on a dedicated section. Kestrel 2500 and 3500 display convinuency upd
											0.01 PSI	ULCH PS	32.0 to 185.0 °F 0.0 to 85.0 °C	and 14,9 to 131,0 °F -10,9 to 55,0 °C	Broad-hour baronotic pressure trans indicator: ning rapidly, ning, steady, falling, fallin septily. Kestrel 4000 series dischars pressure trend through graphing function. P3I clipte Kestrel 4000 sories only.
														1000 33.5 0	2-axis solid-state magnetoresistive sensor mounted perpendicular to unit plane. Accurac
									•		5*	17 1/16th Cardinal	0 to 360*	C to 360*	sensor dependent upon units vertical position. Solf-calibration routine eliminates magnel error from baltarise or unit and must be run offer every fue power-deven (optery remaval
												Scale			change). Readout indicates direction to which the back of the unk is pointed when held in vertical orientation. Declination/variation adjustable for True North readout.
									C	ALCU	LATED MEA	SUREME			
2000	2590	3000	3500	3500	4000	4200	4250	4300	4500	Ballistics	ACCURACY (++-)*	RESOLUTION	SPECIFICATION RANGE	SENSORS EMPLOYED Temperature	NOTES
											0.0002 IU/It <sup>3</sup> 0.0033 kg/m <sup>3</sup>	0.001 (bs/f)* 0.904 kg/m <sup>2</sup>	Refer to Ranges for Sonsers Employed	Relative Humidity Pressure	Moss of sit per unit volume
	•											t des			Male and a standard strands and a standard strands and a standard strands and the standard strands and the stand
						۰					0,0671	ริกษณี 1 การักษ การ์การการการการการการการการการการการการการก	Refer to Ranges for Sensors Employed	Air Flow User Input (Ouet Shape & Size)	Volume of air flowing through an opening. Automatically calculated from Air Volocity measurement and user-specifical start shape (birds or rectangle) and dimensions (unles: it, cmorem). Maximum duct dimension (page): 258-261 (21.5 et § 652.0 m) (6.5 m).
											- Australia Chief	0.1mi/s 14/s	typical: 750 k (100		m, emior m), waximum duct dimension input: 2004 01 § 21.5 % § 660.2 OF [ 6.05 %. Height above Mean Soa Lovel (*NSL*). Temperature compensated pressure (perometric
			•	•	•	•		٠	•		typical: 23,6 R 7.2 m mex: 46,2 t	s n: 1 m	typical: 750 ki (100 mDar	Prossure User input (Reference	"Women's service and a set of a service because the second to be determined as a set of the set of the second seco
	÷										14,7 m 0.07 luHg	0.01 km/g	max: 360 to 750 mBar	Pressure)	accuracy been accuracy append corresponds to a superior present anywhere need accuracy anywhere need accuracy and a superior accuracy and a superior accuracy accurac
	•		٠	ą		•		٠	۰		0.07 loHg 2.4 hPol/mbor 0.03 PSI	0.01 kHg 0.1 hPalmbar 0.01 PSi	Roler to Rangos for Sensors Employed	Pressure User Input (Reference Atthute)	Air pressure that would be present in identical scholibon at MBL. Station proceure e compensated for ideal elevation provided by raferance attitude. Requires accurate refert a titude to produce maximum absolute accuracy.
												t mph		(minute)	a case to produce mere rail through a case may
									8	•	0.071	1 EVenin; D.1 km/lh D.1 en/ls	Releato Ranges for Sensors Employed	Wind Speed Compase	Effective wind relative to a larget or travel direction: Auto-switching headwind/toiwind indication.
												0.1 knots		Temporalum	Difference between dry built terrosciature and wat built temperature. When spraying, ind
				٩							3.2 °F 1.9 °C	0.1 °F 0.1 °C	Refer to Ranges for Sensors Employed	Reistive Humidity Prossure	evaporation rate and droplet lifetime. Sate range for pesticide spraying is 4 $\%$ 16 $\%$ I 2 $\%$ *G.
							8	•	•		2215 m	1 fe E m	Refer to Ranges for Senaura Émpleyad	Temperature Relative Humidity	Local air deneity converted to equivalent alevation abovo soa favol in a uniform fayou consisting of itse international Standard Atmosphere.
											3.4 °F	D.1 TF	15 to 95 % FH	Pressure	Temperature that a volume of air must be cooled to at constant pressure for the water ve
			۰	œ	9		8	•	8	•	1.9 °C	0.1 10	Rofer to Range for Temperature Sensor	Relative Humidity	present to condense into detv and form on a colid parface. Can also be considered to be trader-to-air exturation temperature.
														Wind Speed Temperature	The rate at which moisture is test from the surface of curing concrete. Requires usor measurement and entry of concrete termensture obtained with an assurate IR or probe
								٠			0.01 35353hr 0.05 kg/m2/hr	0.01 brit <sup>3</sup> /m 0.01 kg/m <sup>3</sup> /hr	Refer is Ranges for Genaurs Employed	Relative Humidity Pressure	thermometer ("Fior "C, not included). Readings should be taken 20 inches above pour surface with the thermister checked and exercised for 6-10 seconds using hull-in average
														User leput (Conorda Temperature)	function.
		8	•		9	۰		3	ø	*	7.1°F 4.0°D	0.1 TF	Refer to Ranges for Sensors Employed	Temporaluié Relative Humidity	Perceived temperature resetting from the combined offect of temperature and relative humptify, Calculated based on NVB Heat indisc (HI) tables. Measurement range limited extend a published radio.
	•										.3 upp	0.1 gpp	Refer to Ranges for	Temperature Relative Humidity	Mass of water vaper in a mass of set.
						-	-				.04 g/kg	0.01 g/kg	Senaora Employed	Pressure Temporaturo	
							٥				0.0020	0.004	Refer to Ranges for Sensors Employed	Relative Humidity Pressure	The ratio, expressed as a percentage, of measured air density to the sir density of a step atmosphere as defined by the ICAO.
								•						Temperature	Temparature indicated by a sting psychrometer. Due to nature of the paymentmetric rate
			٠	٠	۰		٠	٠	٠	•	1.8 'C	0.1 11	Relar to Ranges for Geneors Employed	Relative Humidity Pressure	water-sit system, this approximates the thermodynamic well-cub temperature. The thermodynamic work bub temperature is the temperature a parcel of air would have if one which there is the temperature of the temperature a parcel.
															adis balically to saturation temperature via water evaporating into $m x$ .
											1.6 °F	0.1 76	Refer to Ranges for	Wind Speed	Paroxived temperature resulting from combined effect of wind speed and temperature. Celosialed based on the NWS Wind Chill Temperature (WCT) index, revised 2001, with:
•			•		•	•	•	•	•	•	0.9 %	0.1 °C	Sensors Employed	Temperature	speed adjusted by a factor of 1.5 is yield equivalent results to wind speed measured at " shove ground, Measurement range limited by extent of published tables.
ies:	sinen	an an		(997) (997)	192622	-	6988S				ONAL SPE	CIEICATIC	INS		
•	periodal :	300000 8		5653155	020256	SPARK.	994539	(AREBS)	sterrativ		Rofloctive 3 1/2 digit L	OD. Digit height 0.3	5 in / 5 mm Aviation graen	electroluminescent bar	cklght. Menual octivation with auto-off.
			•								Rolloctive 5 digit LCD	. Digit height 0,36 in	9 mm. Cheise of aviation	grean or visible red (N	V modele only) electroluminescont backlight. Manual activation with auto-off,
						٥	•		•	•	Mutilfunction, multi-dig	ii menetisene datu	matrix display. Choica et a	viaben green er visible	red (NV models only) electroluminescent becklight. Automatic or manual activation.
•		•						•	a		Al measurements axo	opt likese based on fully newSilarate to a	relative humidity respond a Jacon shaces in 194 magaz	counstely within 1 seco remark environment, (	nd. Relative humidity and all enacestrements which include RH is their ealculation may req Display apticlas every 1 second.
											-		Gust and everage Wind ms		
Ť	5	•	•	5		• •					Max and average wind	i calculation may be	staried and stopped indep	andenily of stata loggin	g of other values, along with all other wind-related functions: air valueity, crooswind,
					· • •						headwind/tallwind, wir Minimum, meximum, s			d for every measured (	value. Large capacity data logger with grophical display. Manual and auto data storage.
					4000	3700 octats	3200	3854 points	2900	2500 points	Mini Max/Avg history r intervals (cade version	nay be reset indepor	idon Ry, Auto-store interval :	settable from 2 second	ts to 12 hours, overwrite on or off. Logs even when display off except for 2 and 5 second
											Requires optional PC	interface (USB or RS	S-232) or Bluetooth data to	ansfar option and prov	ided software. to 38 ft ( 5 meters, individual unt; ID and 4-digit Pill code preprogrammed for easy identifi
	_	_			•	a		•			and data security who Real time hours minut	n pairing and transm	liting. Employs Divolooih S	Inital Post Protocol for	data transmission.
	*		ŝ	•	٠		٠	٠	•			pe:saconde elació, ca	alandar, automatic loap-yea	r adjustmont.	
•		. •	•		:	•	à			3		or 60 minutes with m	o key presses or disabled .		
	. • ;	<b>o</b>	٠	•	6		9	•			CE certified, RoHS an	d WEEE compliant.	ind Mdually tested to NIST-	traiceatile standards (v	xtitan corificate of teats available at accitional charge). Regional Value Content and Teriff Code Transformation recultements for NAFTA Professo
•	•	4	•	•	۵	٩		٠	۰	•	Orterior 8.		om US and Imported comp hours. Bottary Life reduced		
4	۰.	8	.• .		-		-		~						ill te 3500 medele. y backlight ar Bluckoth /zdile Izanzmizalen use.
,		,				*	-	•	•				sjuded, Avenage (Re, 400 ho 6.5 Procedure IV: wait only:		
										•	Waterproof (1907 and	NEMA-5).			rational temperature range of the display and batteries by maintaining, the unit within the
	9	9	a	a			10	8		4	operational range and	exposing it to the m	mante may be taken bayor Iore exilicine envêlennent fi		
					ų.	4	-	•	•	•	22.0 "File 140.0 "File		cz / 102 g (including silp-s	n covar).	
8 3 8	å			a											
8 9 8		٠		a	•	в		•	a		50 x 1.8 x 1.1 in / 12. 66 x 23 x 1.1 in / 10.	7 y 4.5 x 2.8 cm, 3.6	oz/102g.		

Acuity Sustainability Consulting Limited



# Appendix F

# Event/Action Plan for Noise Exceedance





### Event and Action Plan for Construction Noise Monitoring

Event	Ac	tion						
	ET		IEC		ER		Co	ntractor
Action Level	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required	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	1. 2.	Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation proposals.
mit 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>	z s	<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. 1 3. 1 4. 1	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



					Leq-5min	, dB(A)			T	120	120	Limit	Noise
Date	Time	Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	L <sub>eq-30min</sub> , dB(A)	L <sub>10</sub> 30 <sub>mins</sub> , dB(A)	dB(A)	Level, dB(A)	Meter
05/03/2021	12:05 - 12:35	cloudy	67.8	67.9	70.8	68	68.8	69.4	68.9	72.1	57.1	70.0	NTi XL2 13663
11/03/2021	12:14 - 12:44	sunny	67.8	68.1	65.7	65.2	66.3	64.0	66.4	69.8	56.7	70.0	NTi XL2 13663
18/03/2021	15:16 - 15:46	Fine	68.7	68.1	69.1	69.1	70.6	70.6	69.5	72.9	61.3	70.0	NTi XL2 13663; Lutron SL- 4033SD
24/03/2021	15:20 - 15:50	cloudy	70.5	70.1	68.2	70.5	66.6	67.8	69.2	72.6	62.4	70.0	NTi XL2 13663
31/03/2021	11:50 - 12:20	sunny	68.3	68.3	68.0	65.6	68.8	66.9	67.8	70.8	60.7	70.0	NTi XL2 13663

Remarks: The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering nonlocal curriculum) would be allowed to arrange students to return to campuses on a half-day basis in accordance with school-based arrangement after the schools' Chinese New Year's holiday, with the number of students capped at one-third of the total number of students. No examinations were scheduled between 01<sup>st</sup> to 31<sup>st</sup> March 2021. Hence the noise limit level will be 70.0 dB(A). Further information and Academic School Calendar can be found in Appendix O.



# Appendix H

## Waste Flow Table



# Monthly Summary Waste Flow TableName of Department:WSDContract No. / Works Order No.:13/WSD/16Monthly Summary Waste Flow Table for March 2021

		Actual Quantities o	f <u>Inert</u> Construction Wa	ste Generated Mo	onthly	
Month	Total Quantity Generated (see Note 4)	Hard Rock and Large Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Imported Fill (see Note 1)
	(in '000m <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> )
2018	1.157	0.063	0.000	0.000	1.157	0.518
2019	5.178	0.043	2.211	0.000	2.520	3.200
2020	13.173	1.506	0.291	0.000	12.878	1.323
Jan 2021	2.438	0.120	0.000	0.000	2.438	0.127
Feb-2021	1.702	0.224	0.000	0.000	1.702	0.537
Mar-2021	2.780	0.163	0.000	0.000	2.780	1.361
Sub-Total	6.920	0.507	0.000	0.000	6.920	2.025
Total for 2021	6.920	0.507	0.000	0.000	6.920	2.025



		Actual Quantities of	<u>Non-inert</u> Construction	n Waste Generated Mo	nthly
Month	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. General Refuse disposed at Landfill
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
2018	0.000	0.417	0.000	0.000	0.139
2019	0.000	0.062	0.000	0.000	0.102
2020	0.000	0.606	0.000	0.000	0.043
Jan 2021	0.000	0.065	0.000	0.000	0.006
Feb-2021	0.000	0.058	0.000	0.000	0.012
Mar-2021	0.000	0.055	0.000	0.000	0.002
Sub-Total	0.000	0.178	0.000	0.000	0.020
Total for 2021	0.000	0.178	0.000	0.000	0.020

Notes:

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

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

3. Broken concrete for recycling into aggregate.



- 4. "Total Quantity Generated" only refers to the actual quantities of inert C&D materials generated monthly excluding those that will be recycled (Hard Rock and Large Broken Concrete, Reused in the Contract, Reused in other Projects). Imported fill will not be included in "Total Quantity Generated" as those C&D materials are not generated from this project.
- 5. C&D materials in tonnes are converted to meter cube  $(m^3)$  on a scale of 0.5.
- 6. Source and types of Imported Fill in the reporting month
  - i. K. Wah Quarry Company Limited: (Soil) 1165.49m<sup>3</sup> (2330.98 tonnes/45 cars)
  - ii. K. Wah Quarry Company Limited: (Sub-base) 195.87m<sup>3</sup> (391.73 tonnes/9 cars)

	7.	The amount of Hard Rock and Larg	ge Broken Concrete are dis	sposed to public fill.	the breakdown of C&D mater	rials disposed to	public fill is shown as below:
--	----	----------------------------------	----------------------------	------------------------	----------------------------	-------------------	--------------------------------

		C&D Waste Disp osed
Type of C&D Materials	Description of C&D Materials	(Volume)
		(m <sup>3</sup> )
	Bentonite	4.35
	Broken Concrete	72.60
	Broken Rock	90.70
	Mixed Construction Waste (>50% inert)	
In a set	Building Debris	5.15
Inert	Mixed Rock and Soil	1618.7
	Reclaimed Asphalt Pavement	419.05
	Slurry	109.60
	Soil	459.85
	TOTAL =	2780.00
Non-inert	TOTAL =	2.10



# Appendix I

# Landfill Gas Equipment Certificate

Monitoring Calibration





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

#### **Calibration Report - Gas Detector**

#### PGM-2500 (QRAE III) --- LEL/O2/CO/H2S **UNIT INFORMATION :** Model : QRAE III Customer: Penta Ocean Construction Co Ltd Serial # : M02A016735 Firmware V2.14 Sensor : LEL/O2/CO/H2S Cal date 28-Jul-2020 Inspected: Teddy SENSOR DATA : H2S sensor (Tox2) LEL sensor (ME) O2 sensor CO sensor (Tox1) Calibration dates: 28-Jul-2020 28-Jul-2020 28-Jul-2020 28-Jul-2020 After Calibration level 50% 18.00% 50 ppm 10.1 ppm Alarm levels (Low): 10.00% 19.50% 35 ppm 10 ppm Alarm levels (High): 20.00% 23.50% 200 ppm 20 ppm TWA Level : 35 ppm 10 ppm STEL Level : ----100 ppm 15 ppm Status: Pump Speed Back Light Manual Low Clock Measure Average Yes **LEL Gas Selection** LEL Calibration Gas Methane LEL measurement Gas Methane LEL Custom Gas LEL\_custom\_gas LEL Custom Factor 1.0 Gas types used : 4-Gas Mix: (18% O2, 50ppm CO, 10ppm H2S, 50% LEL CH4, BAL N2) Gas lot #13333090 Cyl# 18 \*\*\* Fresh Air Calibration is highly recommended to proceed prior for measurement each time.

Replaced Parts:

Notes:

The unit was calibrated and checked under good working condition

\*\*Next calibration date on or before 27 July 2021

14:14 Serviced by <u>Teddy work</u> Rotter International Ltd



# 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-2500 (QRAE 11)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	1-3-2021	0870	Fire	D .	C	Ð	20.4	20/1017	72	
	1-3-2021	1340	Fine	0	0	0	20.9	24/ 515	5.5	
	1-3-2021	1789	Fine	Ø	Ø	0	20.9	27/ 1007	7.5	
ASLA &	1-3-2021	0847	FILE	0	Ø	0	70.9	20 / 1017	2.7	
<u> </u>	1-3-2021	1340	Fine	0	ŷ	ú	20.9	24/ 1516	2.5	
	1-3-2021	1645	Fine	0	6	<u> </u>	20.9	23/ 125	2.5	
								1	······································	
								/		

Name & Designation <u>Signature</u> Date Ð -3-2021 Ting Wai Kin (Safety Officer [RenoPipe]) Field Operator: Laboratory Staff: (.7. chan (Foreman) fot. Checked by: 1-3-2021

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ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
(4.Fc4+>>		0855	Fine	Э	0	3	20.9	$\begin{array}{c c} \operatorname{en}(\%) & \operatorname{Temp}(\circ \mathbb{C}) / \\ & \operatorname{Pressure}(\operatorname{mbar}) \\ \hline \\ \hline \\ & 2 \\ \hline \\ & 3 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ & 2 \\ \hline \\ & 4 \\ \hline \\ \\ & 4 \\ \hline \\ \\ \\ & 4 \\ \hline \\ \\ & 4 \\ \hline \\ \\ & 4 \\ \hline \\ \\ \\ \\ \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \hline \\$	2.5	
	1 7 1200	(35)3	Fine	5	C	0	20.3	24/1016	2.8	
CH.FC 0490	1/ 3/2021	0400	Fine	0	0	0	223	20 / 21	2.5	
	1/3/2001	1400	Fine	Э	0	0	20.9	24/1216	2.5	
Pit C	1/ 3/2021	ুশীস	Fire	0	0	0	20.9	21/1013	2	
	1/7 Por	1475	Fine	0	Ð	0	20.4	24/1016	£	
137 P.7 C	1/3/2024	oh4r	Fre	2	e	C	205	21/1918	7	
<u> </u>	1/7/24	1445	File	D	J	0	20.9	24/1016	7	
137 17 13	1/3/2021	475	File	0	9	0	200	21/1018	8.6	
	1/3/2021	(475	File	0	0	C	20.4	24/1016	6.2	
137 RH A	117/2024	100 %	Fine	¢	0	0	229	21/1018	2.3	
	1/3/204	1202	Fire	Ó	0	Ø	20.9	24/1016	8.7	
WIF2	1/3/204	1025	Fine	÷.	0	0	20.9	22/101]	7.3	
-	1/3/2021	1525	Fine	0	0	0	20.9	24/1015	2.\$	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

1/3/204

Date

Laboratory Staff:

Checked by:

ÉNVIRONMENTAL RESOURCES MANAGEMENT

13

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Prossure (mbar)	Remark Depth (m)	
WOR 3	1/3/2021	1045	Five	ρ	٥	0	20.9	22/1018	2.8	
	1/7/2021	1543	Fine	0	0	0	20.9	24/1015	Z. X	
Piz A	1/3,204	655	Fire	0	0	a	20.9	22/1018	Ś	
	1/ 7/024	122	File	9	ρ	0	2.0.9	22/ 1018	Y	
Pit B	1/3/2011	1105	Fixe	0	٥	D	20-9	22/1018	ß	
	1/ 7/2021	<u>  605</u>	Five_	<u> </u>	9	<u>a</u>	2.0.9	25/ 1015	<u> </u>	
	1							/		
								<u> </u>	<u> </u>	
				-				1		
		<u> </u>						/		
					·		[			

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 1/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
-	

Sample location	Date of measurement	Sampling time	Monitering wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	2-3-2021	0850	Fine	9	0	U	Oxygen (%) Temp (°C) / F	3.8	
	2 - 3 - 2021	1330	Fine	c	0	0		24/1018	3.5
	2-3-202	1 100	Fine	0	0	S	201	22/1077	7.5
Acra 3	2-3-2521	08495	Fine	0	Ģ	0	22.4	14/1019	2.5
	2-3-22	1348	Fire	0	3	9	20.9	24/ 1018	25
	2-3-204	1647	Fine	0	0	0	20.3	22/ 1017	2.5
								1	
								1	
1								1	
	1							<u> </u>	
	1	†						+ - /,	<u> </u>

Name & Designation Signature Ting Wai Kin (Safety Officer [RenoPipe])

C-Fichan (Foreman)

Date ß 2-3-2021

Laboratory Staff:

Checked by:

Field Operator:

ENVIRONMENTAL RESOURCES MANAGEMENT

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2-3-2021.

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ENVIRONMENTAL PROTECTION DEPARTMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	,

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather concition	Balance gas (%)	Flammable gas (methane %)		Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.Fc4+30	2/3/2011	Telu	Fine	0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2.5				
	2/3/2021	1755	Five	о	0	0	2.0.4	24/1017	Z. 5	
CH.FCOTAP	2/3/2011	2900	Fine	9	1 2	0	20.4	19/1519	2.5	
	2/3/2021	1410	File	0	0		20.4	24/ 1017	2.5	
Pitc	2/3/2021	0915	Fine	0	0	0	204	14/1019	R	
	2/3/2021	1417	Fine	0	0	0	20.9	24/ 1017	8	
177 P.X C	2/ 3/2021	0247	Fige	Ø	٥	0	20.9	19/1020	7	
ļ	2/ 3/2021	1443	Fire	Ø	P	Ð	Zaq	23/ 1017	7	
197 87 8	2/ 3/2021	29.22	Fine	D	0	0	20.9	19/1020	3.6	
	2/3/2021	1415	Fire	0	0	0	20.5	27/ 1017	\$6	
127 P.7 A	2/3/2021	1005	Fire	0	0	9	p.0.3	20/1020	8.3	
	2/3/2001	1505	Five	Q	0	0	20.9	27/ 1017	S-3	
WPR Z	2/2/2021	1023	Ene	9	ð	0	2019	20/1020	2.4	
	213/2021	1523	FIRE	0	0	0	20.9	27/1017	Z. §	

Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 21312021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Ju! 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WRR 3	2/3/2011	1045	Five	۵	0	D D	219	20 / 1620	2.5	
	2/3/204	1745	Fine	0	3	0	2.0.9	24/1017	2.8	
27 A	1 3/2011	1055	Fire	0	0	3	20.4	21/1000	X	
	2/3/2041	$(\gamma\gamma\gamma)$	File	¢	0	0	22.4	24/1017	4	
Rit B	2/7/2021	105	Fine	Q	0	0	209	21/1020	ł	
	2/3/204	16.5	Fire	0	0	G	2-0+3	23/1017	X	
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		''AT					[	/,		
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 2/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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RNVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
AreaA	3-3-2021	0830	Fine	D	2	0	20.3	17/1021	7.8	
	3-3-2021	1330	Fire	6	Û	0	25.9	18/1019	28	
	3-3-204	1790	Fire	Ũ	2	2	20.9	17/1018	5.5	
Areas	3-3-2021	0347	Fre	а а	a	0	2.5-4	17/104	2.5	
	3-3-224	34)	Fire	5	J	a	2.5.9	13/1019	2.5	
	3-3-204	1648	Fire	0	0	3	20.4	17/1018	2.5	
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<u>Name & Designation</u> Signature Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 3-3-2021 4

Field Operator: Laboratory Staff:

Checked by: C.F. chan (Foreman)

-5f. 3-3-2021.

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
:	•		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
(H.FC4+>b	3/3/2021	2253	Fine	0	0	0	204	18/ 1022	7.×	
	3/3/2021	1355	Fine	0	0	0	20.3	17/ 1019	25	
CH.FLOTAP	3/3/2021	0400	Five	0	0	2	20.9	18/ 1000	7.5	
	3/3/2021	400	Fine	0	0	N	ZCA	17/ 1019	€.5	
Pit C	3/3/2021	ORIN	Fine	0	a	0	20.9	18/ 1022	g	
	3/3/204	1417	File	0	0	0	20.9	17/ 10:0	8	
131 8.20	3/3/2021	2943	Fire	D	\$	0	25.5	18/ 1522	7	
	3/3/2021	144)	Fire	٥	0	0	20.9	17/ 1013	7	
137 8:7 3	3/3/2021	2955	Fine	0	đ	0	20.4	18/ 1022	2.1	
	3/3/2024	1455	Fire	0	9	0	20,4	17/ 1013	24	
I'm Pit A	5/3/204	1005	Fine	1	0	0	20.3	18/1022	2.3	
	3/3/2024	505	Fine	0	c	0	204	1/ 1018	3-7	
WIC2	3/7/204	1015	Fine	a	C	0	20,3	18/1022	2.8	
	7/7/2021	1225	Fine	Ø	Q	0	20.9	17/ 1018	2.6	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Office: [RenoPipe])

<u>Date</u> 3131 2024

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample Date of Sampling location measurement time			Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
WPR 3	3/2/2041	1041	Fine	2	ð	0	20.9	18/ 1000	2- 3	
	3/3/2521	1545	Finz	0	0	0	20.9	17/ 1418	28	
Pix A	3/7/294	1055	File	0	0	0	20.9	15/ 10:2	X	
	3/ 3/2021	i <b>viv</b>	Five	ρ	0	0	20.9	17/1018	r	
Pit 3	3/7/2011	1107	File	O	0	0	ZOG	18/ :022	Ł	
	7/ 7/204	1607	Fire	D	Э	2	20.5	1/ 10/8	ł	
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					1			1		
	!	1						1		

Name & Designation Signature

Field Operator:

Date 314/2021

Ting Wai Kin: (Safety Officer [Reno.Pipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	4-3-2021	0870	Fine	Ú	0	0	2.0.4	17/1019	22	
	4-3-2021	1530	Fine	0	C	Û	20-9	18/ 1918	5.5	
	4-3-2021	1700	Fire	C	0	0	22.9	18/ 1016	2.2	
Area B	4-3-2021	0845	Fire	Û	Ð	g	20.9	17/1019	2.5	
	4-3-2021	1341	Fire	0	G	0	2.2 · Å	18/1018	2.5	
	4-3-2021	1645	Fire	0	0	J	20. G	18/ 1016	2.5	
								/		

	Name & Designation	Signature	Datc
Field Operator:	Ting Wai Kin (Safety Officer [RenoPip	e]) (	4-3-2021
Laboratory Staff:			
Checked by:	(Freman)	If.	4-3-2021

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Acuity Sustainability Consulting Limited

ENVIRONMENTAL RESOURCES MANAGEMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
(H.FC 4+50	4/3/2021	0335	Fire	е	Q	0	209	17/1019	2.3	
	4/3/2021	1355	Fine	i o	0	0	204	18/1018	25	
CH.FC 0+90	4/3/2021	0900	tine	0	0	0	20.9	17/1019	2,5	
	4/3/2021	400	Fire	0	0	0	20.9	18/1017	2.5	
9.7 c	4/3/2011	6915	Fire	0	٥	0	20.9	17/1019	8	
	4/3/2041	1415	Fine	0	0	0	20.9	18/ 111	8	
147 8.4 C	4/3/2021	0945	Fire	0	2	0	20,6	17/1019	7	
	413/2021	1445	Fine	0	0	9	20.9	118/1017	7	
137 8:7 5	4/3/20-1	0455	Fine	Ċ	0	0	20.4	17/1019	¥.6	
	4/3/204	1475	Fine	0	0	0	209	18/1017	8-6	
137 8:X A	4/3/2021	001	Fine	0	0	0	20.3	17/1014	8.3	
	4/3/204	1-505	Fin2	0	0	Ø	20.9	18/12:7	8.7	
W1R2	4/3/2021	1065	Fire	0	C	C	20.9	18 / 120	Z. <u>5</u>	
	4/3/2041	1525	Fin	0	0	0	20.9	18/1017	2. 3	

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Office: [RenoPipe])

4/3/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
W84 7	4/7/201	1045	Fire	0	0	0	2.0.9	18/1020	2.8
_	4/ 7/2021	1745	Fire	0	¢	0	20.9	18/ 1017	2.3
Pit A	4/7/2021	1055	Fine	0	C	0	20.2	18/ 1020	-5
	4/3/2011	1555	Flax	D	0	0	Z.0.9	18 / 1017	5
Rit B	4/3/2021	((27	Fire	0	0	¢	20.9	13/1020	£
	4/ 7/2021	16=7	Fine	0	0	0	20.9	18/1017	Ŷ
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<u>.</u>			;					1	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

413/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Aru A	5-3-2021	0830	Fire	Û	0	0	20.5	8/018	5.5	
	5-3-2021	133.0	Fine	0	0	c	20.3	14/1011	3.5	
	5-3-2021	1710	Fire	Ű	0	G	20.9	14/1016	2.7	
Area B	5-3-2021	9 <u>8</u> 63	Fire	J	0	0	20.9	18/1018	2.5	
	5-4-2021	1545	Fine	0	Ĵ	0	20.3	19/ lon	1.7	
	5-3-204	1645	Fine	0	0	0	20.9	19/1016	Z.Y	
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		<u> </u>				<u> </u>		- /		

	Name & Des	ignation	Signature	Date	
Field Operator:	Ting Wai Kin (Safe	ty Officer [RenoPipe	D A	5-3-2021	
Laboratory Staff:					
Checked by:	C-7. chan	(Foreman)	109.	5-3-2021.	
ENVIRONMENTAL RESOURCES MAN	AGZMENT			<u></u>	ENVIRONMENTAL PROTECTION DEPARIMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(11. FC4+30	5/7/2021	\$22	Fine	ρ	0	0	209	13/1018	25
-	×17/2001	1355	Fine	0	3	. 0	209	14/1017	2.5
CH.FC0740	\$13/2021	5420	F.ne	0	0	0	200	13/10+8	2.3
	\$13/2041	(400	Fire	ø	c	0	206	14/1017	2.5
Pitc	>/3/2001	2915	Fine	D	0	0	20.9	15/ 1018	8
	5/3/2001	1415	Eve	0	. c	0	20g	19/1017	L L
137 127 C	X1,7/2021	orier	Fire	Ø	3	0	20.9	18/1018	7
	5/3/2021	1447	Fine	0	0	0	2.0.4	14/1017	7
197 177 17	5/7/2001	29>>>	Fine	: 0	0	N	20.G	13/1013	8.6
	3/3/204	1475	Fink	0	0	0	20.9	19 / 017	8.6
131 Pit A	5/3/2021	295	Fire	0	0	0	20.9	13/1018	8.3
	513/2021	1507	Fine	o	Q	D	20.9	14/1011	8.7
WIL2	5/3/2021	1023	Fine	a	0	0	203	13/1018	2.3
1	513/204	1523	Fial	Ø	0	0	20.9	19/1017	2.3

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Cfficer [RenoPipe])

<u>Date</u> 3/7/2521

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Dates calibrated
28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPR 3	3/3/2021	043	Five	C	0	0	208	18/1018	2.8	
	×/7/2041	1747	Fine	0	3	0	20.9	14 / 1011	ZŠ	
P.7 A	3/7/2021	1075	Fine	ø	0	Û	2.0.9	18/1018	*	
	5/3/2021	(553	Figu	0	0	0	20.5	19/1017	5	
VA B	5/3/2011	[[0]	Fine	0	9	C	2.0.9	18/1018	5	
	5/ 5/24	1605	Fire	0	0	0	ZOG	19/101	Ł	
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Name & Designation Signature

Ting Wai Kin (Safety Officer [RenoPipe])

Field Operator:

<u>mature Date</u> H <sup>S</sup>/3/2011

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	6-7-2021	0830	Kain	0	0	0	20.9	19/1017	7.2	
	6-3-204	1320	Zain	0	0	0	225	20/1016	2.5	
	6-3-2021	1709	Rain	i î	0	0	20.9	21/ 1015	3.5	
Area B	6-3-2024	0847	Ruin	C	0	0	20.3	19/101	2.5	
	6-3-2021	1345	Rain	0	Û	0	20.9	20/1010	25	
	6-3-2021	1647	Kain	0	C	c	22.9	21/1015	2.5	
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 Name & Designation
 Signature
 Date

 Field Operator:
 Ting Wai Kin (Safety Officer [RenoPipe])
 f 6 - 3 - 202 - 1 

 Laboratory Staff:
 Checked by:
  $C - \overline{f} - chan (\overline{f} = 202 k d_{R})$   $\overline{f} f$  

 Environmental Resources Management
 Environmental Permentance

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Dates calibrated
28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(HJC 47)	6/3/2021	0257	Rain	D	0	0	20.5	14/1017	2.5
	6/3/2021	1355	Zain	0	0	0	209	20 /1015	25
CH. FC 0490	6/3/2021	0909	200	0	9	0	20.4	19/1017	25
	6/3/2021	1420	Lein	.0	0	C	20.9	20/1915	2.5
Pitc	6/3/2021	2417	Fain	l o	0	0	20.9	19/19:1	8
	6/3/2021	1417	Fain	ρ	0	0	209	21/1018	\$
137 Pit C	6/3/2021	2993	Rain	D	o	0	20.9	19/101	7
	6/3/2021	(447	Kain	0	9	0	20.9	21/1015	7
131 Pit B	6/3/1021	0433	Lan	D	D	0	20.9	14/1017	8-6
	6/3/2021	1475	Rain	0	9	0	20.9	21/1015	5.1
131 Rit A	6/3/24	1505	Fain	ô	0	0	20.3	20/1018	8.7
	6/7/2021	1202	Pain	0	ð	0	205	21/1917	8.2
WPR 2	6/3/2021	1015	Fain	0	0	٥	20.9	20 / 1018	2.8
	6/7/2021	ISZY	Vain	0	0	o	20.9	21/1015	2.8

Name & Designation Signature Date

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

6/3/2021

ENVIRONMENT AL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time									
l			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
WPR 7	6/3/2021	1045	Rain	0	0		20.9	21/1018	2.8		
	613/2021	1747	200n	ð	0	- D	20-9	21/1214	Z.\$		
PYA	6/7/2021	1057	RAIN	0	2	0	20.9	21/1015	r		
	6/3/2021	1777	Fain	0	0	Q	20.9	21 / 1914	5		
R:} B	6/2/2021	1109	Rain Rain	9	0	2	20.3	21/1018	£		
	6/ 7/2041	1605	Rain	0	0	¢	20.9	21/1014	8		
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Office: [RenoPipe])

<u>Date</u> 6/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
8-3-2021	085.0	Fine	3	D	٥	20.6	18/1022	2.2	
8-3-2021	1330	Fish	C	c	c	20-5	20/1020	<u>2.2</u>	
8-3-2021	1700	Fine	6	0	Q	20.9	21 / 1018	×.×	
8-3-221	0345	FLAR	9	5	0	20.4	18/1022	2.5	
8-3-2021	174r	- ne	ů	Q	0	26.9	20/ 1020	2 X	
8-3-2021	1645	Fine	\$	đ	0	20.9	20/1018	Z. X	
							1		
	measurement $\frac{3}{5} - \frac{5}{7} - 2021$ $\frac{3}{7} - 2021$ $\frac{3}{7} - 2021$ $\frac{3}{7} - 7021$ $\frac{3}{5} - \frac{7}{7} - 2021$ $\frac{3}{5} - \frac{7}{7} - 2021$	measurement     time $3/7 - 2021$ $0.850$ $3/7 - 2021$ $1350$ $3/7 - 2021$ $1700$ $3/7 - 2021$ $1700$ $3/7 - 2021$ $0.347$ $3/7 - 7.221$ $1740$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	measurementtime $3^{3}$ - 7 - 20-1 $0$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $0$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 35.0 $f_{122}$ $g_{33}$ $3^{3}$ - 7 - 20-1 $1$ 34.7 $f_{122}$ $g_{34}$ $3^{3}$ - 7 - 20-1 $1$ 34.7 $f_{122}$ $g_{34}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

8-3-2021

<u>Date</u>

8-3-2021

Laboratory Staff:

Checked by:

C.F. Chan (Frieman) ·61.

ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.FC 4+50	8/3/2021	255	Fine	0	0	ð	20.9	8/1022	2.5	
	8/3/2021	1355	Fire	0	0	0	20.9	20/1014	2.5	
CH.FC 0490	8/3/2021	3920	Fine	Q	0	9	200	18/1922	Z. 7	
	8/3/204	1400	Fire	0	0	c	20.9	20 / 1019	2.5	
()가 C.	817/2021	0915	Fine	a	0	0	20.9	18/1022	8	
	\$17/2021	1412	tive	2	0	0	20.9	20/ 1018	3	
137 R.7 C	3/3/2021	0440	Fiv	0	0	0	20.9	18/1022	7	
	8/3/2021	1497	Fine	0	0	0	224	20 / 1913	1	
157 Vit B	8/3/2021	0455	Fine	э	0	0	20.9	12/1022	3.6	
h	8/3/2001	<u>[477</u>	Fac	0	0	0	20.9	20 / 1018	\$.6	
151 RA A	813/2041	1005	Fine	9	0	0	22.54	10/ 1022	8.7	
	817/20-1	1707	Fine	0	0	0	20.2	20/ 108	8.7	
WPE 2	8/3/2021	1027	Fine	0	D	0	20.9	18/1022	2.5	
	813/2021	1525	Fine	2	0	\$	20.5	20 / 1013	2.2	

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 8/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

**ENVIRONMENTAL PROTECTION DEPARTMENT** 



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WRRZ	8/7/204	041	File	0	0	0	203	19/1022	Z. 3	
	\$13/2024	1545	File	0	0	Ø	20.4	20/1018	z. 3	
Pir A	\$/3/204	1055	Fint	2	0	0	20.9	13/1022	Ŷ	
	8 13/200	1777	Fire	0	0	0	20.3	20 / 1018	5	
P.7 B	\$ 14/2021	1103	Fine	\$	0	0	Z.0.3	19/102	8	
	8/7/2021	16=5		2	0	0	20.3	20/1018	2	
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Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> &/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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INVIRONMENTAL PROTECTION DEPARTMENT



Contract no. 13/WSD/16 Second Second

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	9-3-2024	0\$70	Fire	G	e	0	20.5	19/1021	7.2	
	9-3-204	1339	Fine	0	G	G	22.9	21/1020	2.3	
	9-5-2011	17,2	Fine	J	3	Û	20.9	21/1013	2.5	
ATER &	9-3-24	0847	Fire	5	0	ũ	22.5	19/1021	2.×	
	9-3-2821	1345	Fine	3	C	G	۲. ب	21/1020	<u>2</u> .5	
	9-3-321	1645	Fine	0	0	0	20-4	21/1013	2.3	
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Name & Designation Signature

Field Operator:

Signature Date A = 3 - 20 - 1

Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

C.T. chan (Foreman)

ENVIRONMENTAL RESOURCES MANAGEMENT

13

9-3-2021

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CHF2 4+50	9/3/2021	al IT	Fac	0	C	0	243	19/104	2.5
	9/7/2041	1377	Fine	ii	0	0	20.9	21/1019	2:5
CH.Fe 2496	9/3/2024	540	Fire	0	9	9	20,4	14/1521	2.5
	9/3/2011	1400	File .	0	0	. a	20.4	21/1019	2.5
Ritc	913/204	0417	Fine	0	0	0	70.9	19/1024	8
	9/3/2021	1412	Fine	0	0	0	2-29	4/1819	2
137 17:7 C	9/3/2041	0443	Fire	0	0	0	20.9	19/1022	7
	9/3/2021	1447	Fine	0	0	0	209	21/1018	7
177 Pit B	9/3/2021	0155	Fine	0	9	0	20.9	19/1022	8.6
<u>`</u>	G17/201	(195	Fire	0	0	9	20.9	21/1012	8.6
157 Sit A	9/3/2021	1005	Fine	o	0	0	20.9	14/1022	8.7
	4/3/1021	1505	Fine	C	3	0	20.5	4/1013	3.3
WPE 2	9/3/2021	1017	Fias	0	¢	0	20.4	20/1022	2.4
	9/3/204	515	Fine	0	8	Э	20-9	21/1018	2.4

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 9*1312*021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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1	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPR3	9/7/2011	1045	Fire	0	0	P	209	20/1022	2.8	
	9/3/202	1745	Fire	Ĵ	0	Ð	2.0.8	21/1013	23	
PH A	913/204	1057	Fine	0	3	0	20.9	20/1022	~	
	913/2021	157	Five	0	ø	0	20.9	21/1018	*	
Pit B	9/3/2021	107	File	D	Û	Э	205	20/1022	8	
	4/3/2021	1605	F:12	9	0	3	203	21/ 1018	3	
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Name & Designation Signature

<u>Date</u> Ting Wai Kin (Safety Officer [RenoPipe])

Field Operator:

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT

13

9/3/2021

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Acea A	10-3-2021	0830	Fire	0	0	0	20.9	13/1022	2.5	
	0-3-2121	1330	Fine	a	0	G	20.9	20/1019	X. Y	
	0-3-2021	1700	Fire	0	3	5	20.9	20/1018	3.5	
Area 3	10 - 3 - 2021	2845	FIRE	C	G	Q	20-9	18/1022	2.5	
	10-3-204	1345	Fine	0	0	3	20.1	20/1019	2.5	
	10-3-2021	itts	Fire	0		٥	20.9	20/ 1018	2.5	
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 Name & Designation
 Signature
 Date

 Field Operator:
 Ting Wai Kin (Safety Officer [RenoPipe])
 I
 10-7-2021

 Laboratory Staff:
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C.F. chan (Foremon). Not 10-3-2021 Checked by: ENVIRONMENTAL RESOURCES MANAGEMENT ENVIRONMENTAL PROTECTION DEPARTMENT 13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	<u> </u>

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbor. monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.FC 4150	10 13/2021	0355	Five.	R	0	C	20.9	19/1000	2.5
	10/3/2021	1375	Fine	0	0	0	20.9	20/1013	2.7
(H.FC OHAN	10/ 3/2001	0400	Fire	0	0	0	2.0.9	19/1122	2.1
	10/2/2021	1400	Fine	0	ø	c	20.9	V / jaik	2.5
Pitc	10/3/2021	0915	Fire	0	0	0	20.9	19/1022	\$
	10/7/2021	(4)5	Fire	0	0	0	20.9	28 / 1011	8
131 Pit C	10/ 7/2021	0945	Fine	0	0	0	20.9	19/1002	7
	10/3/2021	1447	Fire	2	0	0	2_0.9	26 / 1018	7
137 87 13	10/ 3/2041	0957	Fire	0	ð	0	20.9	14/1022	8.6
	10/7/2021	1455	Fire	٥	0	0	22.9	20 / 101%	8.6
171 Pit A	10/3/2021	1005	Ene	0	0	0	20.9	19/1022	8.7
	10/ = 12024	505	Fine	0	ø	0	20.4	20/1018	8.3
WPR 1	10/9/2021	1015	Eve	o	0	0	20-9	19/10LL	Z. \$
	10/ 3/20ci	1515	E Fire	v	3	J	20.5	20/ 1018	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 1014/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	: 28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WP2 2	10/3/2021	1025	tine	P	ρ	0	20.9	14/1000	2.2	
	10/3/2021	1525	Fine	3	a	D	20-9	20/ 1018	23	
WPK 3	10/3/204	1045	Fire	0	0	0	2.9	19/1022	2.8	
	10/3/2041	1545	Fire	p	0	0	229	20/ 1018	2.8	
P.t A	10/3/2024	1055	File	0	0	Э	20.4	19/101-	x	
	10/3/204	1222	Fire	9	0	g	20.4	20/1018	5	
Rit B	10/7/2021	แด้	FILE	a	э	0	2.0-4	19/1000	8	
	10/7/2021	16:5	File	Ð	0	9	20-3	20/1018	8	
			\$							
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Name & Designation Signature

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ð Ting Wai Kir. (Safety Officer [Reno.Pipe])

Field Operator: Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

<u>Date</u>

10/3/2021

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-25C0 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
AreaA	11-3-204	0350	Fire	G	0	0	20.9	14/1022	23	
	11-3-2021	1330	Fire	e	0	2	20.9	22/1014	2.2	
	11-3-204	(700	Fire	2	C	U	20.9	22/ 1018	2.2	
Area 8	11-3-204	0845	Fiak	C	с - С	G	20.4	19/1022	2.5	
	1!-3-2021	1541	Fire	0	Ð	C	20.9	22/1014	2.5	
	11-3-2021	1695	Fine	G	0	ţ	20.9	22/1018	Z. S	
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	1							<u> </u>		

Name & Designation Signature Ŧ

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 11-3-2021

11-3-2021

Laboratory Staff:

Checked by:

c. Tichan (Foreman) Sof.

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 11)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.F.47	11/3/2021	0855	Fire	. 0	1	0	208	20/1012	2.5
	11/3/2021	1355	Fire	0	0	0	2.0.9	22/1019	2.5
CH.FCOtao	11/3/2021	0{27	Fine	D	2	0	20.9	20/1122	2.5
	11/3/2061	(400	Fine	D	0	0	20.3	22/1019	2.5
Pitc	11/ 3/2021	AIY	Fire	0	0	Ĵ.	29.9	20/1022	e e
	11/3/2021	14W	Fine	0	0	0	20.5	22/1018	8
M PY C	11/3/2021	2 1445	Fire	0	9	0	20.9	20/102-	7
	11/3/204	14443	Fire	0	0	0	20,4	22/19/2	7
137 Pir B	11/3/201	0453	Fine	9	0	0	20.9	21/1022	8.6
	1 7 12021	1455	Fine	p	0	0	20.4	22/1013	8.6
137 Pit A	11/3/204	1005	Fine	2	0	0	20.9	21/1021	8.7
	11/3/204	1507	Fire	Û	3	3	20/1	23/1218	5.7
W(F )	1 13/2021	1015	Fine	0	2	0	20.9	21/1001	2.8
	11/ 3/2021	1715	Fine	D	٥	3	20.9	24/1018	2. 3

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 1[/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location		Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
				Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPR-	2	11/3/2001	iotr	Fine	C	0	0	22.5	22/1021	2.8	
		11/2/24	1728	Fin	0	D	0	20.9	23/1018	2.8	
Wit	3	11/7/20	1.247	Fire	0	2	J	20.9	11/11/	2.3	
		11/3/204	1547	Fire	P		2	20-4	23/1018	2.8	
P:}	A	11/3/2024	1000	Fire	0	0	0	20.9	22/1001	×	
		11/3/204	122	FIM	э	2	0	2.9.3	23/1018	۲	
的十	8	11/3/204	llor	Fire	3	0	2	20.3	22/104	2	
<u> </u>		11/3/204	lber	Fin	C	6	0	20-8	23/1015	8	
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		<u> </u>				<u> </u>			/		

Name & Designation Signature

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 11/3/2021 ð

Field Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DUPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARIMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
ARCAA	12-5-2021	0350	Fine	a	C	0	22.9	21/1020	2.2	
	12-3-221	1330	Fire	0	o	0	20-9	26/1017	2.5	
	12-3-2021	1700	Fine	0	c	9	20.9	25/1016	7.2	
Area B	12 - 3 - 2021	0 847	Fine	G	Q	J	20.9	21/1020	2.5	
	12-3-221	1341	Fine	• •	Q	0	20.9	26/1017	2.5	
	12-2-221	1145	Fine	e	0	C	20.9	25/ 1016	2.5	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 12-3-2021

12-3-2024.

Laboratory Staff:

Checked by:

afriction (Josephan) Top

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/18 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
CHEC 4750	12/7/2061	0377	Ein-	0	a	: 0	20.9	21/1920	2.8		
	12/3/204	1355	Fire	ρ	Ø	0	20.9	26/1017	2.5		
CHI.FLOMO	12/3/2021	0207	Filv-	۵	ð	0	20.9	22/1620	2.5		
-	12/3/2041	1400	Fin	P	0	0	20.9	26/1217	2.5		
Pitc	12/3/2041	0415	Fine	P	a	g	20.9	22/1020	8		
	12/3/2041	1415	Fire	0	0	0	209	26/1017	8		
137 12 6	12/7/204	og4r	FIRE	1	0	0	20.9	23/1020	7		
	12/3/2024	14447	Fine	o	0	β	2.09	2.6/1016	1		
137 Pit B	12/3/2001	0455	Fine	ø	a	0	20.9	23/1010	8.1		
	12/3/2021	14755	Fine	0	0	8	20-9	26/1016	6.6		
137 Pit A	12/3/2021	1025	Fine	ð	0	0	20.9	23/1020	8.3		
	12 3 2001	2021	Fine	Ģ	0	0	20.9	26/1016	8.3		
WIFI	12/7/2011	1015	Fine	0	0	0	20.9	23/1020	2.8		
	12/3/2021	1212	Fire	3	6	2	20.9	26/1016	2.8		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 12/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Ju! 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
	-	-	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
W18-2	12 13/201	1011	Five	0	0	0	209	24/1000	2.8
	12/3/2021	1523	Fine	a	0	e e	20.9	25/1016	2.8
W12 3	12/3/201	1045	Fire	÷	0	0	20.4	24/1000	2.5
	12/3/2021	1547	Fire	G	0	0	2.9	28/1010	2.3
9:7 A	12/3/2011	1075	Fire	D	0	0	20.9	28/1020	Y
_	12/3/2011	1 1555	1 Fine	D	D	0	20.9	25/1016	Ŷ
$P \neq \phi$	12/3/204	1107	Fine	٥	0	0	20.9	28/1020	3
	(21 3/2041	i (. M	Fire	6	2	3	2.0.9	25/10/6	\$
								<u> </u>	
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Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

A 12/3/2021

<u>Date</u>

Laboratory Staff:

Checked by:

ÉNVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROYECTION DEPARTMENT



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

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
· · · · · · · · · · · · · · · · · · ·	

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)		
Arcea A	13-3-2021	0830	Fil	0	0	D	20,2	20/1021	2.2	
	13-3-2021	1330	Fine	0	c	J	20.2	23/1015	X.X	
	15-3-2041	1-170	FINE	Ú	0	â	20.9	21/1016	2.2	
Areas	13-3-2021	0847	Fine	0	0	3	20.4	20 / 221	2.5	
	13-3-04	1347	Fire	Ū	3	σ	20.9	23/1013	Z. 5	
	13-3-2021	164r	Fine	9	n U	C	2a.g	21/1016	2.5	
			-					1 /		
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					1			1 /		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 13-3-2021

Laboratory Staff:

Checked by:

(Ficher (Foreman) by 13-3-2021

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time									
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
(H.FC. Star	13/3/2021	277	Fire	ρ	0	0	209	21/1021	2.7		
	17/7/2021	1777	Fire	0	D	0	209	23/ (118	2.5		
(H.FCOLQS	14/7/24	0905	Fine	3	0	0	20.9	21/1021	Z.Y		
	13/3/2024	4:2	Fire	٥	0	0	20.9	23/1018	2.5		
P.M C	13/ 3/221	ofly	Fire	0	J	0	2.0.4	21/104	8		
	13/3 12021	1417	Fin	0	0	0	20.3	23/ 1013	2		
IM Rit C	17/3/2021	0947	Fine	Ø	0	9	20.9	21/1021	1 7		
	17/3/2041	Krigg	Eine	2	0	0	20.9	23/1017	7		
131 Pit B	13/3.12021	21se	Fine	: 0	0	0	20.4	21/1021	8.6		
	19/3/2021	1417	Fine	. j	0	0	2.9.8	23/1011	ab		
137 Pit A	13/3/2021	1005	Eine	0	0	0	20.9	21/1061	8.7		
	13/3/2001	100	Fige	0	0	0	20.9	23/1017	8-7		
WPRI	19 13 1204	1217	Fire	9	0	0	20.9	21/1021	2.8		
	13/3/2011	1515	Fiv-	0	0	0	204	23/1017	2.3		

Name & Designation Signature

.

Ting Wal Kin (Safety Officer [RenoPipe])

The Date Date 13/3/2021

Field Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample Jocation	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxice(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
W122	13/3/200	1028	Five	0	D	o	20.9	21/104	2.§
	14 17/ 224	1505	Fine	0	o	ō	203	23/1016	Z. 3
WRF 3	17/7/2021	1145	File	ō	0	0	20.9	21/102	Z. S
	17/3/2021	1545	Fire	0	Ð	2	20.9	25/1016	2.8
Kit A	17/3/2021	1055	File	D	0	0	20.9	21/124	Ŷ
	13/3/2024	im	Fine	a	0	2	20.9	23/ 1016	۲
Vir B	13/3/200	llor	Fire	Q	٥	0	22-5	21/104	8
	17/3/2021	1605	Fine	0	Q	2	Zeq	23/1016	<u></u>
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								/	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

re <u>Date</u> 13/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample Iocation	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	15-3-2021	0830	i Fire	0	0	0	20.3	23/1017	2.2	
	15-3-2021	1330	Fine	0	0	0	20.9	13/194	7.5	
	15-3-2021	1700	Fire	0	0	0	20.9	20/1014	Y.Y	
Area B	15-5-2021	0845	Fin	C	0	0	20.9	23/1017	2.5	
	15-3-2021	(34)	Fine	0	0	J	20-4	19/1014	2.5	
	15-3-2021	1645	Fine	0	0	0	20,9	20/1014 /	2.5	
	 							/		
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								/		

Name & Designation Si	<u>nature</u> <u>Date</u>
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Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

15-3-2021 (orleanon) Checked by: CC T. CL

ENVIRONMENTAL RESOURCES MANAGEMENT

13

15-7-2021



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CHAR 445	15/3/2021	0555	Fire	0	0	0	2.9.5	21/1017	Z. ×
	15/3/2021	1375	Five	ũ	0	Ø	29.9	24/1113	25
(H.F. otho	18/3/2001	2909	fine-	: 0	0	0	2.0.9	21/1017	2.3
	15/3/2021	1409	Fine	ø	0	0	22.9	24/1013	25
2:ት ር	15/7/20=1	3915	Fire	a	0	0	20.9	21/1017	2
	15/3/2021	1415	Fire	Ů	9	Ű.	20.4	24/1013	8
IM PAT C	15/ 3/2041	2995	Fire	0	0	0	21.9	21/1017	7
	15/3/2021	(445	Fire	0	0	D	20.5	24/1013	7
197 137 13	15/4/221	0955	Fine	0	G	0	20.5	21/1017	8.6
	18/2/2021	475	Fine	0	Ð	3	20.5	24/1013	8.6
(37) Sit A	1517/2021	1005	Five	0	0	0	عه.م	22/1217	\$.7
	15/7/2041	1505	Fire	0	0	Ð	20.5	24/1013	8.7
WRXI	15/7/2041	1015	Fine	0	0	0	20.5	22/1017	2.8
<u>``</u>	15/3/2021	MT	Fire	σ	5	0	20.	24/1015	2.2

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> [517/204

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission					mithist ci	
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon menoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPR 2	15/3/2021	027	Fire	ð	Û	9	20.9	23/10:7	2.8
Į	15/7/2021	1525	F.h.Z	p	¢	0	20.9	24/1013	2.8
WPL 3	15/3/2021	104r	Fine	3	0	2	20-3	23/1017	2.8
	15/3/204	1541	File	û	0	σ	20.9	24/1013	2.1
Pix A	13/3/2001	່ວກ	F!~e	٥	3	3	20.5	23/1011	<u>ک</u>
	15/ 3/204	1555	F:~e	2	0	0	l Zorh	24/1013	5
PXB	15/ 3/20L1	1105	Fire	2	v	0	20.9	23/ 1017	3
` <u>`</u>	151 7/2021	1605	Fire	3	ଚ	0	2.9	24/1013	8
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								/	
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	l					<u> </u>		/	l
[- <u>-</u>		ļ				.l			
<u> </u>	-	1							

Name & Designation Signature A

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 15/3/2021

Laboratory Staff:

Checked by:

ENVERONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 11)	28 Jul 2020
	I

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
AreaA	16-3-2021	0870	Fire	0	0	C	2.2	22/1015	7,2	
1	16-7-204	1340	tive	0	0	3	22.9	27/1012	7,7	
	16-3-2021	1750	Fire	Ş	, c	0	20.9	26/1011	5,5	
Areas	16-7-2021	0847	Fine	p	0	0	20.Q	22/1015	2.5	
	16-3-2021	1347	Fine	g	J	0	20.9	27/10/2	25	
1	16-3-2021	1643	Fire	0	U	0	20.9	26/1011	2.5	
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								/		
		<u> </u>	1		-			/		
L	1	1					<u> </u>			
						<u> </u>	1	/	!	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 16-3-2021

Laboratory Staff:

C-Jechon (Jorena). 201. 16-3-2021. Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 111)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.FC 47)0	16/7/2001	2720	Fire	0	ρ	0	20.9	23/ 1015	2.5
_	16/3/204	1355	Fine	0	0	. 0	20.9	27/1012	2.5
CH-FC otto	16/3/204	ore	Fire	0	<u> </u>	0	209	23/1015	2.5
	16/3/2021	14490	Fire	2	. 0	D	2.0.9	27/1012	25
P.7 C	16/7/2021	2415	Fiv	Û	0	0	2_0.9	23/ 1015	8
	16/3/2021	1415	E've	0	0	0	20.9	26/ 1512	Ł
137 pt C	16/3/2021	2945	Fire	P	ð	0	20.9	24/1015	7
	16/3/2021	1494475	Fine	2	D	9	20-9	26/ 1012	7
151 Pit B	10 1 7/2001	677	F. al	Ś	0	0	20.4	24/1915	8.6
	16/7/24	475	Fire	0	v	0	20.9	26/1912	8.6
137 Pit A	1617124	(20%	Fine	0	0	0	200	24/1015	8.7
	16/3/224	1705	Fine	J	0	2	222	26/1012	8-3
WPRI	16 17 12001	1915	Fire	0	0	0	20.9	24/1015	2.8
\$ •	16/3/2021	1212	Fre	0	0	0	20.9	26/1011	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Office: [RenoPipe])

<u>Date</u> 16/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
, , , ,			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPF Z	16 13 1204	1025	Fine	0	0	2	22-5	24/1015	2.8	
	16/3/200,	1323	F.N.C.	0	0	0	2.2.9	21/10/1	2.8	
W2 3	16/7/204	1045	tini	C	2	0	20.9	25/1015	Z.8	
	16/3/2021	1545	File	0	2	2	2.5	27/10/1	2.3	
Pit A	16/7/2021	1055	F122	0	0	0	20.6	28/1015	5	
Ì	16/3/204	1755	Fire	0	0	0	20.9	27/ 011	У	
Pit B	16/3/204	کو	Fire	a	0	0	20.5	25/1015	ž	
· · ··	16/ 3/2021	1605	Fire	a	0	0	20.2	27/1011	8	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

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16/3/2021

<u>Date</u>

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	<u></u>	Monitoring wells / Surface Gas Emission					
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	17-3-2021	c\$30	Fire	D	0	0	20.9	24/1014	27
	11-7-2021	1330	Fire	0	0	0	20.9	28/101-	72
	11-7-2021	1790	Fine	D	0	0	2.2.9	26/ 1011	5,5
ARAB	17-3-2021	०४५४	Fire	0.	Û	l c	20.9	24/1014	2.5
	17-3-2021	1345	Fire	0	G	C	20.9	28/192	2.5
	17-3-2021	1647	Finz	0	0	0	20.9	26/ 1011	2.5
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								/	
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Name & Designation Signature

Field Operator:

Ting Wai Kir: (Safety Officer [RenoPipe])

<u>Date</u> 17-3-2021

Laboratory Staff:

C.Jehan (Tereman) lof. 17-3-2021. Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.FC4170	17/3/204	0255	Fine	0	0	0	20.3	24/1944	2.>
	17/3/204	1355	Fias	<i>•</i>	0	Q	20.9	28/102	2 5
CH.FCOHAR	17/7/2001	3400	Tine	0	0	Ø	20.9	24/1314	2.7
	11/3/200	1400	Fine	2	0	0	209	28 / 1212	2.5
VitC	11/3/2024	9418	Fire	3	g	0	20.9	24 / 1014	8
	17/3/204	1415	1-19-	0	0	3	20.9	28 / 1011	8
137 Pit C	1/3/2001	2447	Fine	C	e	3	20.9	28/1014	7
<u> </u>	17/ 3/204	1445	Fire	9	0	0	20.9	27/1011	-7
177 P.7 B	11/3/200	2455	Fine	0	0	0	204	28/1014	8.6
	17/3/2001	1473	Fire	0	0	0	209	27/101	2.6
137 pt A	11/7/2021	(00)	F.22	0	0	0	20,9	28/124	83
· · · · · · · · · · · · · · · · · · ·	17/3/2001	202	F.N.	0	0	0	۹ میر	27 / 1011	8-7
WPRI	17/3/2021	1215	Fire	0	0	D	20.4	26/1014	2.8
	17/7/204	(71)	Fir-	C	Ĵ	0	20.9	27 / 1011	2,8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 17/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time			Monitoring w	ells / Surface G	as Emission		
		-	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPE 2	17/3/2021	1025	Five	Û	0	ρ	20-9	2.6/1014	2.8
	17/3/204	1525	File	0	. 0	0	20-9	27/1011	28
WE 3	17/3/204	1045	, Fine	0	0	0	20.4	26/1014	2.8
	17/ 3/204	1775	をれや	0	0	0	20-4	27/1011	2-8
Pir A	17/3/204	1055	Fize	0	0	0	204	26 / 1014	Ý
	17/3/2041	1557	Fire	0	0	D	20.5	27/ 10/1	5
RY B	17/ 7/204	1105	Five	0	0	D	20.2	26/104	3
	17/ 3/204	16-5	Five	0	0	0	20-9	27/101	8
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

17/3/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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i.

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

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
18 - 3 - 2021	083#	Fire	D	0	2	20.9	21/10[5	2.2
18-7-2021	1330	Fine	0	0	3	22.9	23/ 1014	Υ.Υ
		Fine	э	3	9	22.3	24/ 10/1	7.2
	0845		Ð	0	0	22-9	21/1018	2.5
	1247	Fine	J	0	0	20-9	23/ 1014	2.5
18-3-2021	1647	Fire	0	0	0	20.9	24/ lot1	2.5
							/	
							/	i
				· · · · · · · · · · · · · · · · · · ·			1,	
	measurement 18 - 7 - 2014 18 - 7 - 2024 18 - 7 - 2024	measurement     time $18 - 7 - 2024$ $\circ 87.9^{-1}$ $18 - 7 - 2024$ $17390$ $18 - 7 - 2024$ $17390$ $18 - 7 - 2024$ $1700$ $18 - 7 - 2024$ $1700$ $18 - 7 - 2024$ $1700$ $18 - 7 - 2024$ $1700$ $18 - 7 - 2024$ $1700$ $18 - 7 - 2024$ $1700$	measurement     time $18 - 7 - 20c_1$ $083^{20}$ $18 - 7 - 20c_1$ $083^{20}$ $18 - 7 - 20c_1$ $1730$ $18 - 7 - 20c_1$ $1730$ $18 - 7 - 20c_1$ $1700$ $18 - 7 - 20c_1$ $1700$ $18 - 7 - 20c_1$ $1700$ $18 - 7 - 20c_1$ $0.845$ $F_{13}c_2$ $18 - 7 - 20c_1$ $0.845$ $F_{13}c_2$ $18 - 7 - 20c_1$ $0.845$ $F_{13}c_2$ $18 - 7 - 20c_1$ $18 - 7 - 20c_1$ $18 - 7 - 20c_1$	measurement     time       Weather     Balance gas $(\%)$ (%)       18 - 7 - 2024     1370       18 - 7 - 2024     1370       First     0       18 - 7 - 2024     1700       First     0	measurement         time         Weather condition         Balance gas (%)         Flammable gas (methane %) $18 - 7 - 2024$ $0879$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1770$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0 $18 - 7 - 2024$ $1700$ $F_{108}$ 0         0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Field Operator: 7

Ting Wai Kin (Safety Officer [RenoPipe])

Name & Designation

<u>Date</u> 18-3-221

Laboratory Staff:

C-Techan (Fareman) bf. 18-3-2021. Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Signature



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC 4470	13/3 (201	02 33	Fire	2	0	0	20.9	21/10/3	2.5
	18/3/2041	1373	Film	0	0	0	2-2.9	23/1013	2.5
CH.FL 049	18/3/2021	0909	Frine	0	0	0	20.9	<1/101X	2.7
	18/3/2021	1490	Fire	0	s	0	20,9	25/1015	25
PHC	18/3/2021	2915	Fine	0	0	0	20.9	21/1018	£
<u>.</u> , .	18/3/2021	44/5	Fixe	0	0	0	20.9	23 / 1013	8
137 RA C	18/3/2021	<u>9941</u>	Fine	0	0	0	20.9	21/1015	7
	\$13/204	1448	tine	0	0	0	20.9	24/1012	7
137 Pit B	18/3/204	91XX	Fine	0	0	0	20.9	21/1015	8.6
	18/7/201	1475	Fine	0	0	0	22.9	24/1012	8.6
131 Pit A	18/3/2001	[20]	Fire	0	0	0	20.9	21/10/5	3.7
1	1817/2024	1505	Fire	0	Э	0	20,9	24 / 01L	8.3
WPFI	1813/2011	1015	Fire	O	0	D	20.3	21/1015	2.8
	18/ 7/2021	I INIY	Fire	0	0	D	20.9	24/1012	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> | \$13/2001

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 11!)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Liff 2	18/7/204	1025	E'nz		ß	0	20.9	21/1015	2-1	
	18/3/204	1325	Fine	D	2	0	2.0.3	24/ 1012	2.8	
WPF 7	18/3/294	1045	File	Ø	0	0	209	21/1015	1 28	
	\$/7/204	1545	File	D	2 2	3	20.5	24/101	2.8	
PitA	18/3/2021	1075	Five	0	<u>)</u> 0	a	20.8	21/ 1015	5	
	18/3/2041	222	Fire	0	2	0	20.9	24/ 1011	Y	
Pir B	13/3/2041	1105	Fine	. 0	0	0	20-9	21/1015	8	
	18/ 7/204	1607	Fire	0	0	0	20-9	24/1011	8	
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<u>.</u>								1		
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								. /		
		1	_ <u>i</u>					1		

Name & Designation Signature Date

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

INV:RONMENTAL RESOURCES MANAGEMENT

13

1817/2024

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
<u>}</u>	
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Sample location	Date of measurement	Sampling time									
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Aroa A	19-3-2021	0330	Filme	0	0	0	20.9	23/ 1015	X.X		
	19-3-2021	1330	Fire	0	2	0	20.4	26/ 1011	<u> </u>		
	19 - 3-2021	1703	Fire	0	0	0	20.3	25/ 1010	2.2		
Area B	9-3-2021	2847	Fine	0	0	0	20.9	23/ 19/5	2.7		
	19-3-2021	1345	Fine	2	0	0	2.0.3	26/ 1011	2.7		
	19-3-2021	1645	F:15	0	0	0	2.2.9	25/ 1010	2.7		
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<u>.</u>					1			1			

Name & Designation Date Signature A 19-3-2021 Ting Wai Kin (Safety Officer [RencPipe])

Field Operator: Laboratory Staff:

C-Jehan Foreman) H 19-3-2021. Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	į]

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						<u> </u>
		4 4 4	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(14.80 97)	19/3/2001	0722	Fine	· 0	0	0	20.9	27/1015	2.5
	19/3/201	1355	Fine	0	0	0	20.9	26/1011	EN
(11 FC 2149	19/7/2021	0700	Fire	0	0	0	20.9	27/1213	2.5
	19/3/2041	(409	Fire	0	0	î	20.9	25/1011	2,5
Pit C	19/3/2021	0415	F. Re	0	0	G	Zosi	25/tois	8
	19/7/204	413	Fine	Q	0	C	20A	26/1011	8
131 Pit C	6/3/2021	0997	Fine	v	e	0	20.5	24/1017	7
	19/7/2021	1447	Fire	0	¢	D	Z.0.4	26/ 1010	7
in pit B	16/3/204	29,32	Fine	Q	P	2	20.9	24/1017	8.6
ļ	19/7/2021	475	Fire	0	0	0	20.9	26 / 1010	8-6
131 Pit 17	19/7/2021	1005	Fire	0	0	0	20.9	24/1015	8.3
	19/3/2021	(50)	File	0	0	0	20.9	26/1012	\$.3
WPKI	19/7/204	1015	Fine	0	0	0	2_0.4	24/1015	2.8
	19/3/2001	()))	Fire	0	0	0	20.9	26 / 1010	2.3

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 1913*j 2*021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WRF 2	19/3/2021	025	File	0	٥	0	20.9	24/ 1015	2.8	
_	19/3/2021	1525	Fine	C	0	0	2.2.9	25/ 1010	28	
WRF 3	14/7/202	1045	Files	0	2	0	22.5	24/1015	Z.§	
	19/7/2021	1945	File	0	0	2	20.3	28/ 10/0	28	
Pit A	19/3/2021	1055	Fire	0	0	0	20.5	24/10/5	Y	
	14/3/2021	1555	Fine	c	0	đ	229	28/ 1010	5	
Pir B	19/7/22	1105	Fire	0	0	0	20.9	24/1015	3	
	19/3/2021	160%	Fine	0	0	e	209	25/ 1010	3	
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L								/		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 1917/201

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	20-3-2021	0850	Fine	D	Q	0	20.3	24/ 1013	7.7	
	20-3-2021	1330	Fine	0	0	0	20.9	28/ 1010	3.5	
1	20 - 3-2024	1700	Fine	e	0	0	20.9	27/1003	7.7	
Area B	20 - 3-2021	0845	Fire	0	0	0	20. 4	24/ 1013	2.5	
	20-3-2021	1547	Fre	J	2	э	20.9	28/ 1010	2.5	
	20-3-2021	1647	Fire	G	0	0	20.4	27/ 1008	2.5	
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Name & Designation Signature

Field Operator:

Date

Ting Wal Kin (Safety Officer [RencPipe])

20-3-2021

Laboratory Staff:

20-3-2021. Ъf. C.F. chan Foreman) Checked by:

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ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	i

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH. Fc. 9970		0655	Fire.	0	i î	0	20.9	24/1013	2. <b>y</b>
	2013/2001	1355	Fire	Ø	0	Q	2.9.9	27/1005	2.5
CH.FCOtho	2017/2021	0900	F:V-	0	0	D	20.9	24/1013	2.3
	20/3/2021	14,90	F:02	ų	0	0	20.9	27/309	2.5
1;70	20/3/2011	0912	Fire	ø	0	0	20.9	24/1013	8
	20/3/2021	1417	Fine	· •	0	D	20.9	27/ 1009	5
137 Pite	2/3/2021	0945	Fire	: 0	0	2	20.9	24/1013	٦
	20/ 7/204	(44)	Fire	O	C	0	209	27/1009	7
137 F.F B	20/3/2021	0955	Fine	0	0	0	20.3	24/ 1013	8.1
L.	20/3/2001	1975	Five	o	0	0	2.0.5	27/1092	8.6
137 Pir A	217/2021	1005	Fine	0	0	0	29.5	24/1013	8.3
	20/3/2001	1507	Fine	0	0	0	20-2	21/1009	8-5
WP21	26/3/2024	1015	Fine	U	C	0	20.5	25/1013	2.8
	20/3/2021	1212	Fin	0	0	0	20.9	21/1009	2.3

Name & Designation Signature

Field Operator:

Date 20/3/2021 Ting Wai Kin (Safety Office: [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPA 2	20 13/2001	1025	Fire	C	۵	2	20.9	25/ 1013	2.8	
	20/2/204	525	Five	Û	0	0	2.04	27/ 1009	z.8	
WPR 3	20/3/204	1043	Fine		1 o	ş	20.9	25/ 1012	2.8	
	20/3/204	1.547	Fine	0		0	209	27/ 1503	Z. 8	
27 A	20/3/2041	1075	Fine	0	c	Q	209	28/1013	r	
	20/ 3/204	1575	Five	0	9	0	20.9	27/ 1000	Y	
rix f	20/ 3/2001	1105	Fire	÷ P	c	0	20.9	25/ 1013	3	
	201 2/204	1605	Frae		0	0	20-9	27/1033	8	
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					<u>.</u>		<u> </u>			
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Name & Designation Signature P

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

20/3/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseur.g Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Ares A	22-3-2021	0 8 3 1	Fire	9	0	0	20.3	15/1024	7.7	
	22-3-2021	1330	Fine	5	ə	o	20.9	13/1023	5.4	
	22-3-2021	1700	Fine	G	Ū.	0	20.9	18/1021	7.5	
Area F	22-3-2021	1847	Fire	D	0	9	20.9	15/1624	2.5	
1	22 - 3 - 2021	1445	F.NZ	9	٥	0	20.9	(3/1023	2.5	
	12-3-24	1645	Fine	ą	0	a	20.4	12/ 1021	2.5	
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						·	· · · · · · · · · · · · · · · · · · ·	1		
					<u> </u>					
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 Name & Designation
 Signature
 Date

 Field Operator:
 Ting Wal Kin (Safety Officer [RenoPipe])
 A
 22-3-2011

 Laboratory Staff:
 C.T.Cham (Frienden)
 Af.
 29-3-2011

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	g Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable   gas   (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.FC 4770	22/3/2021	7<20	Fine	0	0	0	20.9	15/ 1024	2.5	
	22/3/2021	(3) y	F.'re	0	0	0	205	19/1022 -	2.5	
CH.FC otho	22/3/204	2.909	Fin	0	0	o	20.9	15/1024	2.7	
	22/3/204	14-00	Fine	2	0	0	2.0.4	19/1022	2.5	
Pite	22/3/2021	ogir	Fine	0	0	0	20-9	1×/ 1025	&	
	22/7/2021	1417	Fire	0	0	0	20.9	19/ 1022	Å	
137 Pir C	22/3/2021	244Y	Fine	0	0	0	20.9	15/1005	7	
	22/3/254	14947	Fine	0	0	0	20.9	4/1222	7	
121 Pit B	22 (3/2021	2975	Fire	ð	C	0	20.9	(8/ 1028	8.6	
	22/3/2021	1495	Fire	Ş	0	0	20.4	19/1022	8.6	
13) PY A	22 13 12021	1005	Fire	0	9	0	2.9	15/ 102×	8.3	
	22/3/2021	ک مرز ا	Fire	Q	0	a	Z.O.9	19/ 1722	52	
WPR 1	22/3/20cg	1015	Fire	0	Э	2	20.5	15/ 1025	2.8	
	22/3/2021	1715	Fire	0	Ð	0	20.1	19/1000	2-5	

Name & Designation Signature

Ting Wai Kin (Safety Officer [RenoPipe])

2213/2021

<u>Date</u>

Field Operator: Laboratory Staff:

Checked by:

Environmental Resources Management

13

ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/15 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPR Z	22/3/204	(DLY	Fire	0	0	0	20.9	1×/inx	2.8	
	22/3/204	1525	File	Q	0	0	2.0.4	19/1021	21	
P 49W	22/3/204	1075	Fire	2	¢	a	20.9	16/1025	0.6	
l	22/3/2021	1535	Fue	0	0	0	20.4	19/124	0.6	
WPR 3	22/3/2001	1045	Fine	0	0	Ð	20.4	16/1025	2.3	
	22/3/2021	)545	File	ρ	3	0	29-9	19/1021	2.2	
Rit A	22/7/2021	1055	Fin	0	Ø	0	20.5	16/1025	<del>``</del>	
	22/3/2021	1002	East	ρ	0	0	20.9	19/1001	Y	
Rit B	22/7/2021	1105	<u>ل</u> و برق	.0	0	0	20.4	18/1005	8	
	22/3/2021	1605	Fine	)	0	3	20.1	19/1021	8	
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1								/		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 22/ 3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area It	23-3-2041	0331	Fine	0	0	0	20.9	17/1022	7.2	
	23-3-204	1330	Fine		6	0	2.0.4	18/ 1020	3.5	
	23-3-24	1100	Fine	0	¢	0	20.9	14/ 1018	7.2	
ATERB	23-3-204	0847	FILE	D	0	9	20.9	17/1022	2.5	
	23 - 3 - 201	1245	Fine	. 0	0	0	70.5	11/ 1010	2.5	
	23-3-04	1645	Fire	0	0	0	20.9	19/1018	2.5	
		·						/		
								1		
			-							

Name & Designation Signature <u>Date</u> 23-3-204 Ting Wai Kin (Safety Officer [RencPipe]) Field Operator: Laboratory Staff: Checked by: C.T.chan (foreman) -20 23-3-2021 ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Dates calibrated
28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.FC 4470	29/3 1204	3859	Fine	0	0	0	20.9	18/1922	2.5	
	27/7/204	1357	Fine	0	0	0	20.5	19/1020	2.5	
CH.FC 0+40	23/3/2021	الادا ور	Fin	0	Ū.	0	22.3	18/1022	2.7	
	23/3/2021	1420	Fine	0	0	0	22.9	19/1020	2.5	
Pitc	23/3/2021	2917	fine	0	0	0	20.9	13/100	£.	
	23/3/2521	(41)	Ere	0	0	0	Z_Q A	19/1019	L X	
137 Pit C	23/3/2021	24Y	Fine	a	0	<b>2</b>	2-3	13/1022	7	
	23/ 7/2021	ነተዋና	Fine	0	0	0	20.5	19 / 10rg	7	
197 PH B	27/ 3-12021	いたい	fire	0	a	0	20.8	18/1023	8.6	
	27/7/204	1479	Fire	0	0	0	22.9	19/1019	હેન્દ	
137 19it A	24/3/2024	1255	Fire	G	ð	0	en z	18/1022	8.7	
	23/3/2021	1507	Fine	ο	0	0	8_0.Q	19/1018	8.3	
WPR I	2313 /2001	191 Y	Fire	Q	0	2	20.8	13 / 2023	2_9	
1	23/3 MOLI	1212	F:N	0	0	C	20.9	14 / 1018	2-3	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RencPipe])

<u>Date</u> 23/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Wif 2	23 3/2021	1025	Fire	. 0	0	0	20.9	18/1023	2.8		
	27/3/2001	(52.5	Fine	9	0	0	22.9	19/1018	2-8		
W11- 4	23/3/204	(237	Ene File	0	5	3	20.4	18/1023	3.6		
-	27/3/2041	1537	F.re	33	0	0	22.2	19/1013	0-6		
WIF 7	23/ 7/204	1047	E.e	,	0	0	20.9	(8/1023	28		
	23/3/204	1545	Fire	٥	)	0	20.9	19/1013	2.3		
Rit A	23/3/2024	1055	Fire	ρ	3	e	20.9	18/1922	~		
· · · · ·	23/ 5/ 2041	1222	F:1.4	O	ŵ	0	20-9	[9/1018	5		
Fix B	23/3/2024	1105	Trine	Ø	0	0	20.9	18/1026	8		
	27/7/204	1603	Fine_	0	J	0	20-9	19/1013	2		
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		····			1						

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 23/3/20U

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
AreaA	24-3-104	0 2 50	Fire	0	0	0	20.4	18/1019	X.X
	24-7-221	1430	FILE	J	0	0	20.9	23/ 1915	7.5
	24-3-2021	1700	Fire	3	ð	0	20.9	22/ 1014	3.5
Area &	24-7-2021	0545°	Fire	ð	0	0	22.1	13/ 1019	2.5
	24-3-204	1345	Fire	0	0	a	20.3	27/1915	2.7
	24-3-04	i 64×	Fine	0	0	0	20.9	22/ 1914	2.5
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Name & Designation Signature

Field Operator:

Date

Ting Wai Kin (Safety Officer [RenoPipe])

C.F. Clan (Forehan)

24-3-2021

24-7-2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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At.

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Chite 4120	24/3/2021	ozit	Fine	0	0	0	20.9	18/1019	2.5
	24/3/2001	13.77	Fine	0	0	0	20.9	22/1015	2.5
CH.FC OTGO	24/3/2021	0900	Fire	0	0	Ð	2.03	14/1014	2.5
	24/3/2021	1400	Fire	p	2	0	295	22/ 1015	2.5
Pitc	24/7/2021	2915	Fine	0	0	ρ	20.9	14/1019	8
	24/3/2021	(415	Fire	0		0	20.9	24/1015	£ _
IN Vir C	24/3/2041	J44×	Fine	0	o	0	20.9	20/1014	7
	24/7/204	1487	Fin	0	0	0	2.D.A	22/ 214	7
121 Pit B	24/7/2024	0977	Fire	G	0	0	20.9	20/1019	£.1
	24/3/204	1411	Fire	0	0	0	20.9	22/1014	8.6
137 Pir A	24/7/204	107	EN.	0	0	0	20.9	20 / 1018	8.3
	24/ 3/2021	1707	Fire	Ģ	0	0	20.4	22/ 1014	8.7
WPR 1	24/3/204	1017	Fine	D	Ð	Ø	20.9	20/10/3	2.8
	24/ 7/204	1715	Fine	0	б	0	20.9	22/10:4	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

24/7/2021

<u>Date</u>

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/18 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE   !)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WAL 2	24/3/204	1025	F.pl	0	2	Ø	20.9	21/1013	2.8	
	24/3/2011	1525	Pine	0	2	\$	229	2-/ 1014	2.8	
WPR 4	24/3/2021	(23)	F.'re	D	2	0	20.9	21/ 1016	D-6	
	24/3/204	153)	F.Le	0	¢.	0	20.4	22/ 10/4	26	
WP2 3	24/3/2041	104)	F.he	Ð	0	0	22.9	21/ 1018	2.8	
	24/3/2021	1541	Find	0	3	J	20.5	22/ 1014	Z-8	
PH A	24/3/204	(057	Fine	P	C	0	20.9	21/1018	Y	
	27/ 7/204	100	Five	0	3	0	209	12/ 1014	Ý	
21 6	24/ 7/204	105	Fine	0	2	0	20.9	21/ 1018	3	
· · · · · · · · · · · · · · · · · · ·	24/3/2021	1607	File	2	2	0	20.9	22/ 1014	<u>š</u>	
	_ <u>[</u>		!							
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<b>_</b>					-					
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Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

J 24/3/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENT AL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	28-3-204	0831	Fire	0	D	0	20.9	20/1013	7.8
	25-7-221	1350	Fine	2	9	0	20.3	23/ 1016	7.5
	28-3-24	1700	Fire	0	2	9	20.9	22/ 1015	2.5
Atrab	25-3-2021	0845	Fire	0	0	D	7.0.2	20/1013	2.8
	25-3-2021	1347	Fire	0	0	0	20.9	23/1016	2.5
	28- 3-2021	1643	F.'N2	9	0	3	20. G	22/ 1015	2.5
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	Name & Designation	Signature	Date	
Field Operator:	Ting Wai Kin (Safety Officer [Ren	oPipe <b>i</b> ) H	25-7-2021	
Laboratory Staff:				
Checked by:	C.F.chan (Frenn).	6	25-3-2024.	
ENVIRONMENTAL RESOURCES MAN	AGEMENT			ENVIRONMENTAL PROTECTION DEPARTMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time		Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.FC 4+30	28/7/200	مرته	Fin	D	0	0	22.9	21/101	2.5	
	28/7/2021	1355	Fine	0	D	0	20.9	23/1016	£.ý	
CH,FC 2+40	25/3/2021	0400	Fire	0	0	0	20,9	21/1918	2.3	
ļ	23/2/2521	1400	Fine	0	0	0	20.9	23/ 1016	2.5	
Pit C	25/7/2024	0912	Fine	0	0	0	20-9	21/1913	8	
	25/3/2021	1417	Fire	0	0	0	209	23/ 1015	8	
131 P.+ C	251; 12021	2945	Fine	0	0	Ø	204	22/ 1219	7	
	28/ 4/2021	1445	Five	0	0	0	2.2-9	23/1015	7	
137 817 8	28/3/2021	2955	Fine	0	D	0	2.0-4	22/104	8.6	
	25/3/221	1455	Fine	0	0	0	Ze.Ŷ	23/1/17	s. L	
131 Rit A	18 ( 5/2021	1085	Fine	c	0	0	20.4	22/1099	8.3	
	25/3/2041	505	Fire	э	0	U	20-9	23/ 1010	\$.7	
WPR	25 13 12041	1015	Fine	v	0	Q	2.0.9	22/1019	2.9	
	2713/2021	1717	1 The	0	D	6	20.9	22/1018	2.2	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 25/3/20U

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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A



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

Dates calibrated
28 Jul 2020
1

Sample location	Date of measurement	Sampling time	ling Monitoring we'ls / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPR 2	25/3/204	023	Fine	0	0	2	204	22/1014	2.5
	25/3/204	(327	Fine	0	0	0	20.9	25/ 1015	2.8
WPF 4	2517/2001	1035	F.ne	0	P	2	20.9	22/ 1914	0.6
	28/3/2021	1535	Eno	D	2	p	20.9	22/ 1017	0.6
WP2 7	28/3/204	1045	Fine	e	0	2	20.G	26/ 1014	2-8
	28/3/2021	1545	Fire	0	0	0	21.3	22/ 12/5	2.6
Pit A	25/3/204	1655	Fire	0	۵	0	22.9	2-/ 1014	۲ ۲
	25/3/2021	222	Fine	D	0	0	20.1	22/1017	Ý
Pit B	25/3/2024	lor	Fire	0	ρ	0	20.9	22/1014	3
	2 3/ 3/2021	1625	File	0	0	2	20.9	22/ 1015	8
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Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Datc</u> 25/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

location measurement		Sampling time	Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
ATEA A	26-3-204	\$\$30	Fine	0	0	0	20.4	14/1013	3.5	
•	26-7-221	13.70	Fine	0	0	0	20.9	23/1014	<u> </u>	
	26-3-204	1700	Fire	0	0	0	20.9	22/1013	<u> 4.</u> 5	
AFCA B	2-6-3-2021	0845	Fire	٥	0	0	20.9	14/1013	2.5	
	26-7-2021	1347	Fire	0	0	0	20.9	27/ 10/4	Z, S	
	26-3-2021	1645	Fine	0	ι	3	20-9	22/1013	2.5	
								<u>                                     </u>		
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	+	·					<u> </u>	<u> </u>	·	
<u>(</u>		<u>i</u>				}		/		

Name & Designation Signature Ð

Field Operator:

Date

Ting Wai Kin (Safety Officer [RenoPipe])

26-3-2021

26-3-2021

Laboratory Staff:

Checked by:

C.T. dian (Foreman)

ENVIRONMENTAL RESOURCES MANAGEMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CHFC 4470	26/3/2021	1355	Fire	0	0	0	205	19/1018	2.5
· ·	26/3/2021	375	Fine	0	0	0	204	23/1014	2.5
Cla.FC Otho	26/7/204	0602	Fine	0	0	0	20.9	14/10:5	2.7
	26 13 12021	1490	Fine	Ø	0	0	20.9	23/1014	2.5
Pitc	26/7/204	0915	Fire	0	0	0	20.4	14/1018	8
	26/7/201	ľ4(γ	Fine	0	0	0	20.9	27/1014	R.
IM PirC	26/7/2041	offr	Fine	o	0	0	20.2	19/1018	7
	26/7/204	1447	Fine	0	0	0	223	23/1015	7
117 Pit B	26/7/2021	0955	Fine	0	0	0	22.9	14/1018	8.6
	26/7/2021	1459	Fire	0	2	0	20.4	23/1013	8-6
137 127 17	2/ 7/2021	100 5	Fire	J	0	0	200	20/1018	8.7
	26/3/2001	irr	Fine	ð	0	0	Z0.9	23/ 1015	83
WPFI	26/3/2021	1017	Fire	0	0	0	20.9	20/1015	28
	26 [ 7] 204	1515	Fine	U	Э	0	20.8	22/ 1017	2.5

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 26/7/2001

Laboratory Staff:

Checked by:

ENV:RONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	ng Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WAR 2	26 13/2013	1025	Fine	ρ	o	0	20.9	20/101	2.8
	26/3/204	1505	File	0	3	0	20.9	23/1014	2.3
WPE 4	26/4/200	1035	Fire	0	0	D	224	20/1013	1.2
	26/3/200	1537	Fine	0	0	0	20.4	23/ 1813	1.2
WPR 2	26/3/204	10493	Fire	3	0	9	20.9	20/1013	2.3
	26/3/2021	174)	Fine	0	0	o	Zeq	23/ 1013	2.8
PH A	20 3/202;	1075	File	0	0	0	20.9	26 / 1018	~
	26/7/2021	1223	Fire	0	Q	P	20.9	23/1012	Y
RY B	26/3/2021	105	FINE	0	0		20.5	20/1912	8
	26/ 3/204	1902	Fine	0	0	0	229	25/1013	B
				<u> </u>				/	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 26/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited

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

Dates calibrated
28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	27-3-204	0850	Fine	0	0	0	20.9	22/1014	3.5
	27 - 7 - 2021	1320	Fine	C	0	)	20.9	2-7/1011	3.5
	27-3-2021	00	Fire	Q	0	¢	20.9	26/ 1009	5.5
Area B	21 - 3 - 2021	0247	Fine	0	g	Q	20 R	22/1014	2.7
	27-3-2021	1345	Fire	0	Û	b	20.9	27/10/1	2.5
	27-3-2021	1.645	Fine	a	0	٥	20.9	26/1009	2.5
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	Name & Designation	Signature	Date	
Field Operator:	Ting Wal Kin (Safety Officer [RenoPipe	D A	27-3-2021	
Laboratory Staff:				
Checked by:	C.J. chan (Forem)	10-	27-3-2021.	
ENVIRONMENTAL RESOURCES MAN	AGEMENT		13	ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
r F			Weather condition	Balance gas	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
(1. Fc 4170	27/3/2021	2<20	Fine	0	9	0	20.9	24/1014	Z. 5	
	27/3/2021	1305	Fine	0	2	0	20.5	27/10/2	Z-)	
CH.FC 0+40		0909	Fine	p	9	D	20.9	21/1214	2.5	
	27/3/2021	1400	Fire	ρ	Ø	0	20-4	27/ 1012	2.5	
Pitc	27/3/2021	0415	E.R_	0	Q	2	20.9	27/ 10:4	8	
	27/3/204	1417	Fine	0	0	0	20.8	27/1011	X.	
151 Pir C	27 13/2021	0947	Fine	0	0	2	20.9	23 / 1014	7	
	11/3/20U	14.47	Fine	0	0	0	20.9	27/1011	7	
191 PAT B	27 13/2021	2175	Fin	0	2	~	20.9	24/1014	8.6	
	27 17/2021	1475	Fine	0	a	0	20.9	27/10/1	8.6	
137 Rit A	27 13/2021	1005	Five	0	Ð	0	20.9	24/ 1014	8.7	
	27 13/2021	1507	Fire	0	6	0	20.9	27/1011	8.7	
WPRI	27/3/204	1015	Fin	0	0	0	20.2	24/1014	2.8	
	21/3/2001	ITIT	Fire	D	0	2	20.9	27/1010	2.2	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Datc</u> 27/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTAL PROTECTION DEPARTMENT



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

28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
W92 2	27 13/204	1021	Fine	<u></u>	Ø	0	209	24/ 1014	2.3	
	27/3/204	1525	Fine	0	0	D	20.3	21/ 1009	2.8	
VR 4	27/3/2021	1037	Fine	0	0	э	22.5	24/ 1014	1.2	
	27/3/204	1575	Fire	0	0	ρ	Es A	27/ 1009	1.2	
WIF 3	27/3/204	1047	Fire	ę	0	0	223	74/1014	2.8	
	21/7/204	1545	FN	0	ρ	0 U	20.9	26/1004	2.2	
WPZ A	27/7/2021	1255	Fine	D	3	0	2.9	24/1014	×	
	27/3/2021	$(\Sigma)$	Fire	Ĵ	0	ò	20.4	26/1009	Ý	
WRK B	27/3/204	1105	Fire	5	0	٥	20.3	24/10:4	Ş	
	27/3/2041	1605	Fire	9	0	0	20.9	26/1009	3	
							· · · · · · · · · · · · · · · · · · ·			
								//		
						<u> </u>	j			
<u> </u>									1	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 27/7/2004

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
AreaA	29 -7-20LI	0830	Fire	0	0	0	20.5	24/1009	7.2	
	29-7-2021	1330	Fine	0	0	0	20.9	28/1007	5.5	
	29-3-2021	1700	Fine	C	J	0	20.9	27/1007	3.5	
Areas	29-7-2021	oSéri	Fine	0	C	0	20.9	24/1009	2.5	
	2-9-3-2021	ነ ንቁን	Fine	0	S	0	20.9	23/1007	2.5	
	29-3-2021	1647	F.NE_	C	0	0	20-9	21/1001	2.5	
						·		1 /	i	
	1							/		

	Name & Designation	Signature	Date	
Field Operator:	Ting Wai Kin (Safety Officer [RenoP	ipe]) A	29-3-2021	
Laboratory Staff:				
Checked by:	C.J. chan (Foreman)	-61.	29-3-2021.	
ENVIRONMENTAL RESCURCES MA	NAGEMENT	1	3	ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	ing Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
C1+ FC 4+70	24/3/2001	2355	Fine	0	D	0	20.9	25/ 1009	2.5	
	26/3/2011	1355	Fine	0	0	0	20.9	28/ 1006	2.5	
CH.FC 0740		29.89	Fire	0	0	۵	20.9	25/1904	2.5	
	26/3/201	1499	Fine	0	0	Q	20.9	28/ 1005	2.5	
Pitc	2913/2011	09115	Fine	ø	Û	Q	20.9	Zy/ 1009	ନ୍ତ	
	24/3/2021	1417	Fine	0	0	9	20.9	28/ 1006	£	
137 PTC	29/7hoy	0647	Fine	0	0	0	2.0.2	25/1004	7	
	24/3/2011	1447	Ene	8	0	0	20.9	23/1000	7	
131 117 3	24/7.12021	2155	Fine	9	0	0	20.9	25/1007	8.6	
	29/3/2021	1455	Fine	J	0	Ð	20.5	23/1006	8.6	
137 Pit A	29/ 3/2021	(007	Fine	э	0	0	20.3	25/1009	\$.3	
	29/3/2021	1001	Fine	0	0	0	2-0-4	23/1000	8.3	
WPRI	29/3/2021	1015	Fine	0	0	n	20.3	25/1029	2.8	
	24/7/2021	1212	Fine	0	D	э	20.9	28/1005	2.8	

Name & Designation Signature

Field Operator:

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Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

<u>Date</u> 24/3/2021

ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated				
PGM-2500 (QRAE III)	28 Jul 2020				

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depta (m)	
WPZ 2	24 13/200	(02)	Fine	0	0	NO NO	20.9	28/1000	2.8	
	24/3/2021	(525	Fire	G	0	0	2-0.2	23/ 1015	2.8	
VN 4	24/3/2021	1055	Fine	э	0	0	20.9	26/1009	(.1	
	29/3/2021	(535	Fire	0	0	0	20.9	22/ 1007	1,2	
WYE 3	29/3/2021	1041	Fine	0		0	20.9	25/ 1004	2.8	
	22/7/2021	(54)	Fire	Ð	5	٥	20.5	28/1005	28	
Pit A	24/3/2021	1055	Eve	0	0	0	20.9	25/2003	5	
	29/3/24	1777	Fine	D	ø	0	20.9	27/1005	>	
Pit B	21/3/201	1/05	Fire	>	J	0	20.4	28/ 1009	ş	
	24/3/2021	1605	Fine	0	0	2	20.9	27/1005	۵	
								/		
								4		

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 2&14/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
AceA	30-3-202	0236	Fine	0	c	0	20.9	26/1008	3.5	
	30-3-204	1550	Five	0	0	0	20.9	28/10:6	5.5	
	30-3-2021	1700	Fine	D	9	0	2.2	27/ 1005	7.5	
Area B	30-3-221	0245	Fine	0	0	0	20.9	26/1008	2.5	
· ·	30-3-2021	1745	Fire	0	0	0	20.9	22/ 1005	2.5	
	30-3-2021	1642	Fine	0	ø	P	20.9	27/ 1005	2.5	
			·  · · · · · · · · · · · · · · · · · ·					/		
	-									
	1							- /		
	1			1						
								1		
								1		
								/		

	Name & Designation S	ignature	Date	
Field Operator:	Ting Wal Kin (Safety Officer [RenoPipe]	) <b>A</b>	30-3-2021	
Laboratory Staff:				
Checked by:	C.7. chan (Foreman)	16p-	30-3-2021.	
ENVIRONMENTAL RESOURCES MANAG	JEM/ENT	13	· · · · · · · · · · · · · · · · · · ·	ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
	1 1 1 1 1		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.F= 4+73	30/3/2021	0855	Fine	U U	Ð	0	209	26/1003	2.5
	30/3/2041	1375	Fire	0	0	0	20.3	29/1006	2.7
CH.FC 0490	30/3/2021	3920	Fine	0	ò	0	223	26/1008	2.7
	30 13/2021	1420	Fire	0	0	0	20.9	29/1006	2.5
Pitc	30/3/204	0917	Fine	0	0	0	22.9	26/1008	8
	30/7/204	1415	Fire	0	0	Ø	2.0.5	24/ 1006	à
137 Pit C	30/3/2021	0945	Fine	0	0	0	20.9	27/1008	7
	30/7/2021	443	Fire	0	0	0	2-3.4	24/1005	7
in Pit B	30/3/2024	0455	F're	a a	<u>э</u>	0	2.0.9	27/1003	8.6
	30/3/2021	1455	Fire	э	ο	0	20,3	29/1005	8.6
131 R.7 A	30/3/2021	1005	Fine	0	Ø	0	20.5	2-1/203	8.7
	30/3/204	lyor	Fine	0	0	٥	20.4	29 / 1005	3.7
WPF 1	30/3/2021	1918	Fine	D	Ð	0	20.9	27/1008	2.5
L	2017/2021	1575	Fire	ü	0	Ð	20.9	29/1005	2.6

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 30/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

-	Date of measurement	Sampling time	Monitoring wells / Surface Gas I						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WRR 2	30 13/2021	1025	Fire	0	0	0	20.9	27/ [008	2.8
	30 7/ 2521	1525	F.re	0	0	0	202	28/ 1225	2,2
WRF 4	30/3/2021	1047	Fire	8	ð	0	203	27/1008	1.2
	301312021	1525	Fire	D	0	J	20.9	28/1005	1.2
WPL 7	30/ 3/202.	1247	Fire	D	ρ	0	203	27 / 1008	2.3
- 4	30/7/204	1547	F-Le	0	ø	0	20.9	28/ 1705	2.5
1217 13	30/3/2021	1055	Fine	0	D	ę	22-2	27/ 208	3
	3017/2001	1773	Fire	0	0	2	20-9	28/1225	*
Pit B	30/3/2021	rell	Fire	C	0	0	20,3	20/1003	8
	30/3/2021	1605	Eine	0	0	0	20.9	28/1005	â
		<u> </u>						1 .	1
								1	

Name & Designation Signature ₽

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 30/3/2024

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	31-3-2021	0 830	Fine	0	0	Ð	2.0.4	26/1008	>,5
	51-3-2021	1520	Fine	C	Q	0	20.9	28/1006	5.5
	31-7-2021	102	Fine	٥	0	0	20.9	27/1905	5.5
Asea B	31-3-2021	0&4v	Fine	હ	0	2	20.9	26/1008	2.5
	31-3-2021	1545	Fine	٥	0	0	20.9	28/ 006	2.5
	31-3-2021	1645	Fine	0	3	0	20.9	27/ 1005	2.5
								1.	
								<u>/</u>	
							:		
								1	

Name & Designation Signature

Ting Wal Kin (Safety Officer [RenoPipe])

Field Operator:

<u>Date</u> 31-3-2021

Laboratory Staff:

Checked by: C.T. Lon (Foreman) Ø. 31-3-2021 ENVIRONMENTAL RESOURCES MANAGEMENT ENVIRONMENTAL PROTECTION DEPARTMENT 13

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						<u>а тал тал тал тал тал та</u> л т <u>а</u> л т <u>а</u> л т <u>а</u> л т
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CHIFC 417	51 /3/2021	8×20	Fine	0	D	0	20.9	26/1005	7.5
	91/9/221	1355	Fine	Э	0	0	2-2.3	27/1006	25
(H.FC otgs	11/3/201	0400	Fine	0	Û	0	و هرچ	2-5 / 1203	2.>
	71/ 7/2041	100	Fine	0	Ø	C	20.9	27/1206	2.5
Pitc	31/3/201	0915	Fine	ð	0	0	20 9	26/1008	8
	31/3/2011	1417	Fine	2	0	0	20.3	27/ 1000	<u>R</u>
15 Pit C	3/ / 3/ 2021	09405	Fire	0	0	7	203	27/1008	7
	31/7 12021	\4 <del>'</del> 45	Fine	0	0	0	20.4	27/1006	7
M Pit B	71/7/2001	0175	Fire	0	0	0	22.5	27/1008	8.6
	71/7/2021	1473	Fire	0	0	0	20.4	27/ 1006	8.6
131 Pit A	31,71224	1001	Fine	2	0	0	20.9	21/1008	8.3
	31/3/2021	1505	Fine	0	5	0	20.4	21/1006	3.3
WER	9113/2021	1012	Fine	C	0	0	20.9	27/1003	Z. g
	111712021	015	F.'.04	0	6	0	20.7	27/1006	2.5

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 31/7/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

ENVIRONMENTIAL PROTECTION DEPARTMENT



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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample Date of Sampling location measurement time					Monitoring w	vells / Surface C	Ils / Surface Gas Emission			
	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
WIR 2	31/3/2021	(0Z)	Fine	0	0	0	20.5	27/1008	2.1	
	31/3/204	irry	FINE	0	0	0	208	27/ 1006	Z. 2	
W92 4	31/7/2241	1037	ENP	2	0	6	203	27/1005	4	
	51/3/2021	1527	Fire	G)	0	0	20.9	27/ 1000	4	
WPK 3	31/7/2021	1041	Fine	0	9	0	20.9	27/1008	2.3	
	31/3/2021	154T	Fire	Ø	a	0	Z.9.3	27/ 1006	28	
Pit A	31/7/221	1055	Fix	0	C	2	20.9	28/1008	7	
	31/3/204	1513	Fire	0	0	ţ	20.9	27/ 1006	8	
Pit B	3113/204	107	Fin2	S	2	Ð	203	28 / 1008	Ł	
	31/ 3/2021	1001	Fine	. o '	0	3	209	27/ 1006	2	
		: <u></u>						/		
					·			/		
			<u></u>					/		
								/		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Office: [RenoPipe])

<u>Date</u> 31/3/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVERONMENTAL PROTECTION DEPARTMENT



# Appendix K

# Complaint Log and Regulatory Compliance Proforma



## Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics					
	Frequency	Cumulative	Complaint Nature			
01 March 2021 - 31 March 2021	0	2	N/A			

## **Statistical Summary of Environmental Summons**

Reporting Period	Environmental Summons Statistics					
	Frequency	Cumulative	Details			
01 March 2021 - 31 March 2021	0	0	N/A			

## Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics					
	Frequency	Cumulative	Details			
01 March 2021 - 31 March 2021	0	0	N/A			



# Appendix L

## Site Inspection Proforma



Actily Sustainability	Acuity Sustaina           Acuity         Unit 1908, Nos. 301-           Sustainability         O: 2333-6823   F: 2333-1316   E: gene								
Contra	Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O								
WEEKI	WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST								
Inspection Date: 04/05/247 Inspection Time: 09:30 - 11:30	Inspected by: ET: CLAVIONOLAI Contractor: Saming	web: Tany Kin Fai HEC:							
Weather Condition Sunny Pine Temperature C Wind Calm Light	Diversist Drizzle Kain Humidity High Made Breeze Strong	Storm Illacy rrate l.ow							
		N/A Yes No Photo/Remarks							
0.00 General 0.01 Is the current Environmental Permit disple entrances/exits for public's information at	any time?								
0.02 Is ET Leader's log-book kepl readily avai	lable for inspections?								
1.00         Construction Dust           1.01         Are dusty materials, such as excavated manaterials, and exposed earth surface properties.									
1.02 Are screenings, enclosures, water spraying construction works for dust suppression?	3 or vacuum cleaning devices provided to dusty	wine lays net							
1.03 Are fumes or smoke emitting plants or con	struction activities shielded by a screen?	10 lune 1 small							
1.04 Are wheel-washing facilities with high-pr	essure 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	m dusty material?								
1.07 Are all main haul roads inside the site pay emission during vehicle movement?	red or sprayed with water to minimize dust	paved.							
1.08 Are water spraying provided immediately materials?	prior to any loading or transfer of dusty	Putty mar inch							
1.09 Are covers provided to all dump trucks ca leaving the site?	rrying dosty materials when entering and								
boulders, poles, pillars sprayed with water									
site?	ix months after the last construction activity on								
1.12 Does the operation of plants on site free R	rm dark smoke emission?	0bs (1)							

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

-	Contract no. 13/WSD/16 Mainlaying in T	seung Kwa	an O		
		N/A	Yes	No	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		1		
1.14	Are stock of more than 20 bags of coment 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?		Π	$\overline{\Box}$	5 <sup>- 4</sup>
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		Ē		
1.17	Is open burning prohibited?		一		
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?		$\checkmark$		V ORMFLAKI
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		J		v Regular inspection
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?				L Monarby
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				(WER for ) All reporting day
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site houndary?	$\overline{\mathbf{A}}$	And a state		
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to acarby 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?	$\Box$			
	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?		V		
	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		
3.00	Water Quality	. 1	N.	$\sim$	
	Is effluent d.scharge license obtained for wastewater discharge from site?	JA I			
	is offluent discharged according to the effluent discharge license?	$\checkmark$			4 NO WARY
3.03	Is wastewater discharge from site properly treated prior to discharge?	$\checkmark$			Mejoricity day

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

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

		N/A	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?				-
3.07	ts the drainage system property maintained?		$\checkmark$		
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?		7		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil crosion?				
3.10	Are temporary access roads protected by crushed gravel?		$\square$		
3.11	Are exposed slope surface properly protected?	$\checkmark$			2
3.12	Is trench excavation avoided in the wel season as far as practicable, or if necessary, packfilled in short sections after excavation?		$\checkmark$		
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		$\checkmark$		
3.14	ls runoff from wheel-washing facilities avoided?	$\checkmark$			
3.15	ts oil leekage or spillage prevented?				043 (7)
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				Obily
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?		$\checkmark$		rommedarci
3.19	Are all fluci 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?		$\square$		
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?		$\checkmark$		
	is concrete washing water properly collected and treated prior to discharge?				
	Waste Management \$ 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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Unit 1908, Nos. 301-305 Castle Peek Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: genera @acuityhk.com | www.acuityhk.com

	Contract no. 13/WSD/16 Mainlaying in Ts	seung Kwa	an O		
		N/A	Yes	No	Photo/Remarks
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		$\checkmark$		
4.03	is the Contractor registered as a chemical waste producer?		1		-
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.05	Are trip tickets for chemical waste disposal available for inspection?	$\Box$			
4.06	Is chemical waste reused and recycled on site as far as practicable?	1			
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 property labelled?		1		
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?		1		
4.11	Is an impermeable floer 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?		1		remoderely
4.13	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		renunder()
4.14	Is general refuse disposed of properly and regularly?		$\checkmark$		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		$\checkmark$		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		7	.*	
4.17	Are C&D wastes sorted on site?		$\checkmark$		
4.18	Are C&D waste disposed of property?		$\square$		
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?		7		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		$\square$		
	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 1s site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		remindur (1)
5.03	Is construction light oriented away from the sensitive receivers?	$\Box$			
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?		$\checkmark$		reminderity
5.06	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	V			
5.07	Are the retained and transplar.ted tree(s) properly protected and ir. good conditions?		1		
5.08	Arc surgery works carried out for damaged trees?	$\checkmark$			200.002
6.00	Ecology				
6.01	is site runoff properly treated to prevent any silly runoff?	$\checkmark$			ND WALLY dive
6.02	Are silt trap installed and well-maintained?	$\checkmark$			
	Are stockpiles properly covered to avoid generating silty runoff?		$\square$		
	Are construction works restricted to works area which are clearly defined?				
	Overall		1		
7.01	Is the EM&A properly implemented in general?		V		

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Acuity	Acuity Sustainability Consulting Limited Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T.
	1333-6823   F: 2333-1316   E: general@acuitynk.com   www.acuityhk.com 13/WSD/16 Mainlaying in Tseung Kwan O
Pomoria ( Follow up of Observation (a) and Man	
Remark / Follow up of Observation(s) and Non-c	ompliance(s) or Last weekly Site Inspection:
Observation(s)	
(1) WRMM Laby was not form	of on the NRMM at TIME UTI. HEIT & ~ 2400
Con Chile man in smeaded	not placed on a dripting, at CH.HE1+ 80 - 2400.
(3) Enjoymental remit b	ion not observed of Man we train to Man whits ai Road
Albandoned Road.	
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Rensider	
	1 1 of MULLING TRAN
(is though up if eval aemi	acted at work of the second such as the property
C3 Cd 6 molennes should	worker placed near the go force works ystem to provent
deneu to the treas	at Maje und Isaj. & Han Win Tsai Road Abandoned Road.
2	
Signatures:	
ET Contractor's	WSD's IEC's
Representative Representative	Representative Representative
the f?	KAN NIA
(Name: Oherlengla) (Name: Son Als.	) (Name: with (Name: NMA.))
Contraction San 13.	TUPMIN KAS EALA

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Inspectio Inspectio Weather Conditi Tempes Wind	Unit 1908, Nos. 301- Sustainability         Unit 1908, Nos. 301- Contract no. 13/WSD/16 Mainlaying in Ts           Contract no. 13/WSD/16 Mainlaying in Ts         WEEKLY ENVIRONMENTAL INSPECTION           Im Date:         11/03/2021         Its spected by:         IT:         Contract or Unit 1908, Nos. 301- Contract no. 13/WSD/16 Mainlaying in Ts           Im Date:         11/03/2021         Its spected by:         IT:         Contract or Unit 1908, Nos. 301- Contract or Unit 1908, Nos. 301- Contract no. 13/WSD/16 Mainlaying in Ts           Im Date:         11/03/2021         Its spected by:         IT:         Contract or Unit 1908, Nos. 301- Contract or Unit 1	N CHECKLIST
		N/A Yes No Photo/Remarks
0.00	General	
1 1	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	
0.02	Is ET Leader's log-book kept readily available for inspections?	
1.00	Construction Dust	1
1 1	Are dusty materials, such as excevated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?	obs (3)
	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	wend kupp net to invit dust onvision
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	No fume (sino lee 2 Construction plant / ( Ontimution autority
	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	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	paved
1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	and Dusty motenais
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and caving the site?	No dyna truck
	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	
1.11	Is exposed earth properly treated within six months after the last construction activity on site?	
	Does the operation of plants on site free form dark smoke emission?	

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

		N/A	Yes	No	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	$\Box$			
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	V			
1.17	ts open burning prohibited?		$\checkmark$		
2.00	Construction Noise (Airborne)				- Da 12 (01 a 1
1	Are quiet plants adopted on site?				April laber
2.02	Are the PMFs operating on site well-maintained to minimize the generation of excessive nicse?				V Kegular inspection
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?	1			1- NO NEATH NSK.
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				<u>}</u>
	Are silencers, mufflers and enclosures provided to plants?				9.
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.0B	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?	V			
	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?		V		
2.13	Are construction noise permit(s) applied for general construction works during restricted nours?		V		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		V		
3.00	Water Quality				
	Is offluent discharge license obtained for wastewater discharge from site?		$\checkmark$		
3.02	Is effluent discharged according to the effluent discharge license?		V		reminder (3)
3.03	Is wastewater discharge from site properly treated prior to discharge?		1		reminator (4)

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

3.04       Are perimeter channels provided to intercept storm runoff from outside the sile?			N/A	Yes	No	Photo/Remarks
enve sandsilt particles from runof?  enves andsilt particles from runof?  s suffice runoff diverted to sedimentation facilities?  3.06 & reconstruction works carefully programmed to minimize soil excavation works during ramy second?  3.07 & the drainage system property maintained?  3.08 Are construction works carefully programmed to minimize soil excavation works during ramy second?  3.09 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil crossive?  3.10 Are temporary access roads protected by crusted gravel?  3.11 Are exposed soil surface protected by crusted gravel?  3.12 & trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?  3.12 & trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?  3.14 & runoff from wheel-washing facilities evoided?  3.15 is oil leakage or spillage prevented?  3.16 Are there any measures to prevent the release of oil and grease into the storm drainage system?  3.17 Are there any measures to prevent the release of oil and grease into the storm drainage system?  3.18 Are there any measures to prevent the release of oil and grease into the storm drainage system?  3.19 Are there any measures to prevent the release of oil and grease into the storm drainage system?  3.19 Are there any measures to prevent the release of oil and grease into the storm drainage system?  3.20 Are there any measures to prevent the locations locked as far as possible from the examitive and rubbith greaser and provided with locks and be sited on scaled areas, within bunds of capacity capat of the integer of the locations locked as far as possible from the examitive and stormwater drains?  3.21 Are tanker, containers, itongs area bunded and the locations locked as far as possible from the examitive and stormwater drains?  3.22 Are as exampt disposal and toilet maintename of the portable drains?  3.23 Are tanker, contrai	3.04	Are perimeter channels provided to intercept storm runoff from outside the site?		V		
3.07       Is the drainage system property maintained?         3.06       Are construction works carefully programmed to minimize soil excavation works during miny season?         3.09       Are excaved soil surface protected by paving as soon as possible to reduce the potential of soil eroson?         3.10       Are exposed soil surface protected by enabled gravel?         3.11       Are exposed slope surface properly protected?         3.12       S trench excavation avoided in the wet season as far as practicable, or if necessary. Neckfilled in short sectors after excavation?         3.12       S trench excavation avoided in the wet season as far as practicable, or if necessary. Neckfilled in short sectors after excavation?         3.13       Are open stockpiles of construction materials on site covered by tarybuilt or similar fabric turing construction?         3.14       is runoff from wheel-wushing facilities avoided?         3.15       is oil leakage or spillage prevented?         3.16       Are there any measures to prevent the release of oil and grasse into the storm drainage system?         3.17       Are there in interceptors? grease traps properly maintained?         3.18       Are dubris and stronge areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tark?         3.19       Are tarking continens, storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the larg	3.05			$\checkmark$		reminder ())
are sensed of the output programmed to minimize soil excavation works during niny seasons?	3.06	Is surface runoff diverted to sedimentation facilities?		$\checkmark$		
anity seasons?       Image: anitable of provided the protected by paving as seen as possible to reduce the potential of soil crosson?         3.09       Are exposed soil surface protected by crushed gravel?       Image: anitable of the potential of soil crosson?         3.10       Are temporary access roads protected by crushed gravel?       Image: anitable of the potential of soil crosson?         3.11       Are exposed slope surface properly protected?       Image: anitable of the potential of soil crosson?         3.12       Are compased slope surface properly protected?       Image: anitable of the potential of soil crosson?         3.12       Are compased slope surface properly protected?       Image: anitable of the potential of the potential of site covered by tarjaulin or similar fabric tarring construction         3.13       Are open stockpilles of construction materials on site covered by tarjaulin or similar fabric tarring construction?       Image: anitable of the potential of the pot	3.07	Is the drainage system properly maintained?		$\checkmark$		
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3.11       Are exposed slope surface properly protected?       Image: Construction avoided in the wet season as far as practicable, or if necessary, packfilled in short sections after excavation?         3.12       Is trench excavation avoided in the wet season as far as practicable, or if necessary, packfilled in short sections after excavation?       Image: Construction avoided in the wet season as far as practicable, or if necessary, packfilled in short sections after excavation?         3.13       Are open stockpiles of construction materials on site covered by tarjaulin or similar fabric during construction?       Image: Construction?         3.14       s runoff from wheel-washing facilities avoided?       Image: Construction?         3.14       s runoff from wheel-washing facilities avoided?       Image: Construction?         3.15       is oil leakage or spillage prevented?       Image: Construction?         3.16       Are there any measures to prevent the release of oil and grease into the storm drainage system?       Image: Construction?         3.17       Are the oil interceptors/ grease traps properly maintained?       Image: Construction?       Image: Construction?         3.18       Are debris and rubbiah generated on site collected, handled and disposed of properly to moid them entering the streams?       Image: Construction?       Image: Construction?         3.19       Are all fuel tarks and storage areas provided with locks and be sited on sealed areas, writhin bunds of capacity equal to 110% of the storage capacity of the largest tark? <t< td=""><td>3.09</td><td></td><td></td><td></td><td></td><td></td></t<>	3.09					
3.12       Is trench excavation avoided in the wet season as far as practicable, or if necessary, ackfilled in short sections after excavation?       Image: Construction and the wet season as far as practicable, or if necessary, ackfilled in short sections after excavation?         3.13       Are open stockpiles of construction materials on site covered by tarjaulin or similar fabric turing construction?       Image: Construction?         3.14       Is runoff from wheel-washing facilities avoided?       Image: Construction?         3.14       Is runoff from wheel-washing facilities avoided?       Image: Construction?         3.15       Is oil leakage or spillage prevented?       Image: Construction?         3.16       Are there any measures to prevent the release of oil and grease into the storm drainage system?       Image: Construction?         3.17       Are the oil interceptors/ grease traps properly maintained?       Image: Construction?         3.18       Are debris and rubbish generated on site collected, handled and disposed of property to nvoid them entering the streams?       Image: Construction?         3.18       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?       Image: Construction?         3.20       Are tunks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and storawater drains?       Image: Construction work forcore?       Image: Construction work force? <td>3.10</td> <td>Are temporary access roads protected by crushed gravel?</td> <td></td> <td><math>\checkmark</math></td> <td></td> <td></td>	3.10	Are temporary access roads protected by crushed gravel?		$\checkmark$		
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3.18       Are debris and rubbish generated on site collected, handled and disposed of property to avoid them entering the streams?       Image: Collected and the collected and the collected and the locations locked as far as possible from the sensitive watercourse and storm water drains?         3.20       Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and storm water drains?       Image: Collected and the locations locked as far as possible from the sensitive watercourse and storm water drains?         3.21       Are sufficient chemical toilets provided on site to handle sewage from construction work force?       Image: Collected and treated prior to discharge?         3.22       Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?       Image: Collected and treated prior to discharge?         4.00       Waste Management       Image: Collected and treated prior to discharge?       Image: Collected and point the disposal of C&D and solid wastes at public	3.16					abs (1)
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within bunds of capacity equal to 110% of the storage capacity of the largest tank?       Image: Comparison 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 waterourse and stormwater drains?       Image: Comparison of Capacity equal to 110% of the storage capacity of the largest tank?         3.21       Are sufficient chemical toilets provided on site to handle sewage from construction work force?       Image: Comparison of the portable chemical toilets provided by the licensed contractors?         3.22       Are sevage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?       Image: Comparison of Capacity equal to 110% of the disposal of C&D and solid wastes at public         4.00       K as trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public       Image: Comparison of Capacity equal to 110% of the disposal of C&D and solid wastes at public	3.18			$\checkmark$		penninder (1)
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force?       Image: Constraint of the portable chemical toilets provided by the licensed contractors?         3.23       Is concrete washing water properly collected and treated prior to discharge?         4.00       Waste Management         4.01       [s a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public	3.20	-		$\mathbf{A}$		
the licensed contractors?  3.23 Is concrete washing water properly collected and treated prior to discharge?  4.00 Waste Management 4.01 Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public	3.21			$\square$		
4.00 Waste Management 4.01 [s a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public	3.22					
4.01 Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public			$\Box \not$			
		is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public		V		

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tract no.	13/WSD	/16	Mainla	ying in	Tseung	Kwan	0
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	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	n O		
		N/A	Yes	No	Photo/Remarks
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		$\checkmark$		
4.03	ts the Contractor registered as a chemical waste producer?		V		
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\checkmark$			•
4.05	Are trip lickets for chemical waste disposal available for inspection?	$\checkmark$			
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?		$\checkmark$		
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?	V			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		V		
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, which ever is the greatest, provide?		V		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
4.13	Are sufficient general refuse disposal/collection points provided on site?		V		
4.14	Is general refuse disposed of properly and regularly?		$\checkmark$		remindley (1)
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		$\checkmark$		<u>reminder (1)</u> <u>reminder (1)</u>
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?				
4.18	Are C&D waste disposed of properly?				
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		J.		Obs(b)
4.22	is a dumping 'icense obtained to deliver public fill to public filling areas?		$\checkmark$		

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

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

		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
	Are vegetation disturbance minimized or soil protected to reduce potential soil crossion?		X		obsco
	Is construction light oriented away from the sensitive receivers?				
5.01	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?		$\checkmark$		reminder (4)
5.06	is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?		$\checkmark$		
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?		Ń		
5.08	Are surgery works carried out for damaged trees?				
	Ecology				
÷	Is site runoff properly treated to prevent any silly runoff?		$\checkmark$		Nerminular (3,
6.02	Are silt trap installed and well-maintained?	$\checkmark$			
	Are stockpiles properly covered to avoid generating silty runoff?				Obs (3)
	Are construction works restricted to works area which are clearly defined?		$\checkmark$		
7.00	Overall		1		
7.01	Is the EM&A properly implemented in general?		V		

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	Acuity Sustainability Consulting Limited
	Acuity Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. Sustainability D: 2333-6823   F: 2333-1316   E: general@acuityhk.com   www.acuityhk.com
	Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O
1	Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:
	Observation (s)
	(1) Chennican were not placed in & dripting at wire 1 & Main Welts at
	an contraction moterials shell not be placed on the la
	es, construction materials shed not be placed on the planter tock at WERT, 2 & MAMA Win 25-45 is pusty materials more finned must to the water sparilers at WERS. It should be decined to prevent the escape of construction materials from the constructionstic.
	1) push have a nort have a contract in the matched in the construction of the countral
Tuni"	to because only of construction and the construction
	Petra index 1.sp
	(1) Housekeeping was reminded at WPR 1
	(7) althall of norther treetwert tank should be directed to guily at WYE'S
	(3) attail of notice toestwart tank should be directed to guily at white 3 (3) to larger capacity of water treatment tank should be added to whe 3. (4) construction materials should not be placed man the tree of Male we that
	(4) construction motorial should not be placed mean the tree it Mall un time
	retained
1	
	Signatures:
	ET Contractor's WSD's IEC's
	Representative Representative Representative
	to Zin
	$(Name: ) (Name: Sour Ag) (Name: \overline{V_{+}} \leq C_{+} \circ \mathcal{A}_{+} )$
	(Name: ) (Name: $\leq_{Orr} N_{3}$ ) (Name: $\overline{V} \not\in \mathcal{S} \cup \mathcal{O} \cup \mathcal{O}$ (Name: )

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Acuity Unit 1908, f	
	N/A Yes No Photo/Remarks
0.00 General 0.01 Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	
0.02 Is ET Leader's log-book kept readily available for inspections?	
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?	n 🗌 🔽 🛄
1.02 Are screenings, enclosures, water spraying or vacuum cleaning devices provided construction works for dust suppression?	to dusty
1.03 Are fumes or smoke emitting plants or construction activities shielded by a scree	n? Motive (some emotory risk) Gastington Gastingtone
1.04 Are wheel-washing facilities with high-pressure water jets provided at all site exit	
1.05 (s 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 c emission during vehicle movement?	ius: I I revent sprayed
1.08 Are water spraying provided immediately prior to any loading or transfer of dust materials?	y
1.09 Are covers provided to all dump trucks carrying dusty materials when entering at leaving the site?	nd / Nodinp trules
1.10 Are the working areas for uprooting of trees, shrubs, or vegetation or the removal boulders, poles, pillars sprayed with water to maintain the entire surface wor?	
1.11 Is exposed earth properly treated within six months after the last construction act site?	ivity on
1.12 Does the operation of plants on site free form dark smoke emission?	NRMMI ALAI

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	Acuity Sustaina	ability C	onsul	ting [	imited
	Acuity Unit 1908, Nos. 301	-305 Castle	Peak Roa	d. Kwai C	hung NT
	Sustainability O: 2333-6823   F: 2333-1316   E: gene	eral@acuityl	nk.com	www.acu	iityhk.com
	Contract no. 13/WSD/16 Mainlaying in 1	seung Kw	an O		
		N/A	Yes	No.	Photo/Remarks
1 13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
	The vehicles davening 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				
	sides?				
1.15	Are de-bagging, batching and mixing processes of bagged coment carried out in sheltered		_	_	
	areas?	V			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
	accessible by the public?	V	$\square$		
1.17	Is open burning prohibited?				
2.00	Construction Noise (Airborne)				
	Are quiet plants adopted on site?		7		Lande La
			$\checkmark$		V BIME INM
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		1	$\square$	,
2.03	Are plants throttled down or turned off when not in use?				
2.00	Are plants throtted 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?				6 no rearry
2.05	Are moveable barriers provided to sereen NSRs from plant or noisy operations?				Nek.
2.06	Are silencers, mufflers and enclosures provided to plants?		$\overline{\Box}$		
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				
2.09	the site boundary? Are noisy operation properly scheduled to minimize exposure and cumulative impacts to				
	nearby sensitive receivers?		$\Box$	$\square$	
	Are valid noise emission label(s) affixed to all hand-hold breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				-
2.12	Are all construction noise permit(s) applied for percussive piling work?				
	Are construction noise permit(s) applied for general construction works during restricted hours?		$\overline{\checkmark}$		
	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		
	Water Quality				
	is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		
	is effluent discharged according to the effluent discharge license?				06515)
3.03	is wastewater discharge from site properly treated prior to discharge?	**			Obsi5)

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

	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	an O		
		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				0bs (m
3.05	Arc sand/silt removal facilities such as sand/silt traps and sediment basins provided to		<b>-</b> /		
	remove sand/silt particles from runoff?		V		
3.06	is surface runoff diverted to sodimentation facilities?				
3.07	Is the drainage system properly maintained?				
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?		V		
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,				and Annual Sciences
	backfilled in short sections after excavalion?		V		
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		X		Obs (2)
3.14	Is runoff from wheel-washing facilities avoided?	$\checkmark$			
3.15	is oil leakage or spillage prevented?		$\checkmark$		
3.16	Are there any measures to provent 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?		$\checkmark$		
	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?		$\checkmark$		
	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?		$\checkmark$		
	Is concrete washing water properly collected and treated prior to discharge?	$\checkmark$			
4.01	Waste Management is a trip-licket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and lend(j])s?		V		

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

-	Contract no. 13/WSD/16 Mainlaying in Ts	seung Kw	an O		
		N/A	Yes	No	Photo/Remarks
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		1		
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?				
4.05	Are trip tickets for chemical waste disposal available for inspection?	V			
4.06	is chemical waste reused and recycled on site as far as practicable?	1			
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?				B
4.09	Are incompatible chemical wastes stored in different areas?	1			
	is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		1		
4.11	Is an impermeable floor and bunding, of capacity to accommodate (10% of the volume of the argest 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?				
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				
	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?				
4.17	Are C&D wastes sorted on site?		V		
4.18	Are C.&D waste disposed of properly?		1		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				-
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				t-timbur.
	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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Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

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

		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				01/4)
	is construction light oriented away from the sensitive receivers?				
	is grass hydroseeding provided to slopes as soon as the completion of works?	$\checkmark$			-
	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
	Is excuvation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?		1		
5.07	Are the rotained and transplanted tree(s) properly protected and in good conditions?		$\checkmark$		
	Are surgery works carried out for damaged trees?				
6.00	Ecology				
	Is site runoff properly treated to prevent any silly runoff?		-		061 (5)
	Are sill trap installed and well-maintained?				
	Are stockpiles properly covered to avoid generating silty runoff?	2 2			obs (3)
	Are construction works restricted to works area which are clearly defined?		$\checkmark$		
7.00	Overall		1		
7.01	Is the EM&A properly implemented in general?		$\checkmark$		

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Acui	y Sustainability Consulting Limited
Acuity Un Sustanability O: 2333-6823   F: 23	t 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. 33-1316   E: general@acuityhk.com   www.acuityhk.com
Contract no. 13/WSD/16 N	lainlaying in Tseung Kwan O
forwark Remark / Follow up of Observation(s) and Non-compliance(s) of L	ast Weekly Site Inspection:
b observation(1)	Conductive Conduction (Conduction)
13thit B as Emanmental remote was not obser	ed at 137 pit A:+ K
in construction sourcements should be ?	wellded by prollings out wipp ,
i (3) bushy inectinas wer tand directly i	lest to the worder rampes.
13.7 pitty. The materials should be deaned -20	pievent from eccaye from compraction site at where
in a shadle shall at the place	I an Are pleaser mule to avoid dimage
is the tend nearly git which	
in the second seco	FRIENDERTER FAME WAS NOT PRIMEMY
\$ (5) The inlest point of the water sed	in in lation Compliation autous
Jp.+ A communed to the water tube to an	ord balletow. Armaliation automs ge of inciscurades before theatment (PitAJ)
the chand be taken to anothe ansance	ge of theme in
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W Regular cleaning of dualingle durined its res	and est Prophing t
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A	
Signatures:	
ET Contractor's WSD's	IEC's
Representative Representative Representative	
F	h
(Name: charlene) (Name: han ) (Name:	
(Ivanie: Marie ) (Ivanie: (Yruce) (Ivanie:	Work - Fri (Name: N/A )

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	Acuity Unit 1908, Nos. 301-	bility Consulting Limited 305 Castle Peak Road, Kwai Chung, N.T. rai@acuityhk.com   www.acuityhk.com
	Contract no. 13/WSD/16 Mainlaying in Ta	seung Kwan O
	WEEKLY ENVIRONMENTAL INSPECTIO	NCHECKLIST
Inspect		
	Ion Date: $\frac{22/03}{20-i2200}$ Inspected by: ET: Chorum Law Contractor: $\frac{22}{20-i2200}$ Contractor: $\frac{22}{200}$ My	IEC: LOW'S KMAN
Weath	er /	
Tempe		Storm Hazy
Wind	Cedu Light Eresze Strong	
		N/A. Yes No Photo/Remarks
		N/A. 1 CS NO Photo/Remarks
	General Is the current Environmental Pennit displayed conspicuously at all vehicle site	
0.02	entrances/exits for public's information at any time? Is ET Leader's log-book kept readily available for inspections?	
	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?	No expect
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty	No iney handle
	construction works for dust suppression?	Continuition invertis
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	No time / sandu witting planty <u>Construction</u> autoritien
1.04	Are wheel-washing facilitics 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?	paved
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty	No durito
	materials? Are covers provided to all dump tracks accrime dust, and the state action and	weenitals was
	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	No dury truck
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?	
	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?	I V I Inammum

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

	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	n O		
		N/A	Үсв	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?	$\checkmark$			
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	1	Π	Π	
1.17	is open burning prohibited?		1		
2.00	Construction Noise (Airborne)				
	Are quiet plants adopted on site?				Norse land
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?				V penular inspection
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?	Y			6 NO MARY MA
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	$\square$			Jer remeande
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?	V			
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?		$\checkmark$		
2.13	Are construction noise permit(s) applied for general construction works during restricted nours?		Á		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				1999 - Jan - Anna Anna Anna Anna Anna Anna Anna
3.00	Water Quality				
3.01	is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		AND THE OWNER OF A STREET
	Is offluent discharged according to the eMuent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?		$\checkmark$		

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

	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	an O		
		N/A	Yes	No	Photo/Remarks
2.04					
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				10 <sup>-10</sup> -00444
	remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during				
0.00	rainy seasons?		$\checkmark$		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?		Y		
3.10	Are temporary access roads protected by crushed gravel?		J		
3.11	Are exposed slope surface properly protected?				8
2 12	In temps have made and the state and the second			ئ <b>ى</b> مىمىك ئ	
0.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		7		
3 13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric		Lauran		ND alow
0.10	during construction?				wity shick piles
3.14	Is runoff from wheel-washing facilities avoided?				
3 15	Is oil leakage or spillage prevented?				Andreas
0.15	as on reakage or spinage preventeur		$\square$		V duirtny
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage		T.		
	system?		L¥ I		
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				1 121
	avoid them entering the streams?		$\checkmark$		remnolur(2)
3.19	Are all fuct tanks and storage areas provided with locks and be sited on scaled areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		$\Box$	$\Box$	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from				
	the sensitive watercourse and stormwater drains?	-	1		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				
	force?		V		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by		[7]		
	the licensed contractors?				
	Is concrete washing water properly collected and treated prior to discharge?				
1	Waste Management				
4.01	Is a trip-tieket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and lendfills?		7		
L					

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	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	in O		
		N/A	Yes	No	Photo/Remarks
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	is the Contractor registered as a chemical waste producer?		V		
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?		- Surga		remneur (2)
4.05	Are trip tickets for chemical waste disposal available for inspection?				
4.06	is chemical wasts reused and recycled on site as far as practicable?				
4.07	Are all containers for chemical waste properly labelled?		$\checkmark$		
4.08	is chemical weste storage area used solvly for storage of chemical waste and properly labelled?		$\checkmark$		
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?		$\checkmark$		
4.11	Is an impermeable floor and hunding, of capacity to accommodate 110% of the volume of the argest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		1		
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?		$\checkmark$		
4.14	is general refuse disposed of property and regularly?		$\checkmark$		9010 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		V		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?				romanicas
4.17	Are C&D wastes sorted on site?				Femindur (1)
4.18	Are C&D waste disposed of properly?		7		1
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	$\checkmark$	No -		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		1		finuber
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				
4.22	is a dumping license obtained to deliver public fill to public filling areas?		$\checkmark$		

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	Contract no. 13/WSD/16 Mainlayin	in Tseung Kw	an O			
		N/A	Ycs	No	Photo/Remarks	
5.00	Landscape and Visual					
5.01	Are is site hearding provided?	$\mathbf{V}$				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		1			
5.03	Is construction light oriented away from the sensitive receivers?					
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?					
5.05	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$			
5.06	Is excavation works carried out manually instead of machinery operation within 2.5m vic any preserved trees?	inity of			No varies	
5.07	Are the rotained and transplanted tree(s) properly protected and in good conditions?		1			
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?		$\checkmark$		-	
6.02	Are silt trap installed and well-maintained?	1				
5.03	Are stockpiles properly covered to avoid generating silty runoff?				No information of any make	while a
6.04	Are construction works restricted to works area which are clearly defined?			Π		

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	cuity anabaty	C: 2333-68	Unit 1908, Nos. 301-	bility Consulting Limited 305 Castle Peak Road, Kwai Chung, N.T. ral@acuityhk.com   www.acuityhk.com	
Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O					
rational obser	remain remove up of essent as an enter outplicate (c) of Edge trooking one mepodion.				
Remindents (1) the Main Contractor was reminded to consider negative facilities within the construction site at H.K. velocitized. (3) the phain Contractor was reminded that dremkal wastes should be stored separately from genel wastes. At H.K. Veholome.					
Sigr	natures:	Contractor's	WSD's	IEC's	
	resentative	Representative	Representative	Representative	
(Nar	mcichattene )	(Name: Sounda )	(Name: UN SAI KUUN) AWI/ C(10)	(Name: Louys)	
				Kwan	

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Acuity Unit 1908, Nos	ainability Consulting Limited 5. 301-305 Castle Peak Road, Kwai Chung, N.T. 5. general@acuityhk.com   www.acuityhk.com
Contract no. 13/WSD/16 Mainlaying	g in Tseung Kwan O
WEEKLY ENVIRONMENTAL INSPEC	CTION CHECKLIST
Inspection Date:         3113/2021         Inspected by:         ET:         Markurd           Inspection Time:         9:25 - 1130         Contractor:         0m/ e La	. Ut wsp Towns len Fai IFC: IUN
Weather Condition Sumy Fine Overcast Orizele Temperature 26 C Humidity Figh Wind Calm Light Breeze Strong	Rain Storm Hazy Modenste Low
	N/A Ves No Photo/Remarks
0.00         General           0.01         is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	
0.02 is ET Leader's log-book kept readily available for inspections?	
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 construction works for dust suppression?	dusty Weter strukiel, Scheeningt
1.03 Are fumes or smoke emitting plants or construction activities shielded by a screen?	No fime/ swale entro
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 dus emission during vehicle movement?	t paved.
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 teaving the site?	No dury thill
1.10 Are the working areas for uprooting of trees, shrubs, or vegetation or the removal or 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 activi site?	ty on
1.12 Does the operation of plants on site free form dark smoke emission?	D D warmy law

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

		N/A	Yes	No	Photo/Remarks
				- 100 (11 a) (1 - 10 - 10 A) (1 - 10 A)	12
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 coment carried out in sheltered areas?				
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	V			
1.17	Is open burning prohibited?				
2.00	Construction Noise (Airborne)				
	Are quiet plants adopted on site?		$\checkmark$		V APME 1024
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		$\checkmark$		Ireplan inspectio
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?				4 AD MEANY MOR
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?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				-
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?		N		
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?				
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		
3.02	Is effluent discharged according to the effluent discharge license?				Obs ())
3.03	Is wastewater discharge from site properly treated prior to discharge?				obsth
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### Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

		N/A	Yes	No.	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.04	Are perimeter channels provided to intercept storm runoit 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?		V		
3.06	Is surface runoff diverted to sedimentation facilities?		$\checkmark$		
3.07	is the drainage system properly maintained?				
			لنا	L	
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?		$\checkmark$		·····
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?		V	$\square$	
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Are exposed slope surface properly protected?				P
		V			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary,		<u>_/</u>		
	backfilled in short sections after excavation?		V		
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
	during construction?		V		
3.14	Is runoff from wheel-washing facilities avoided?				
3.15	Is oil leakage or spillage prevented?		Π	Π	obuly
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?		$\checkmark$		V drip tray
3.17	Are the oil interceptors/ grease traps properly maintained?				1
		V	-	$\Box$	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to		rh.		
	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?		V	ш	
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?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?				
	is concrete washing water properly collected and treated prior to discharge?	$\checkmark$			
	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public				
	filling facilities and landfills?		V		
L					

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Contract no.	13/WSD/16	Mainlaving in	Tseung Kwan O
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		N/A	Yes	No	Photo/Remarks
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	is the Contractor registered as a chemical waste producer?				
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\checkmark$			
4.05	Are trip tickets for chemical waste disposal available for inspection?				
4.06	is chemical waste reused and recycled on site as far as practicable?				
4.07	Are all containers for chemical waste properly labelled?				
4.08	is chemical waste storage area used solely for storage of chemical waste and properly labelled?		$\checkmark$		
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?		V		
4.11	is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the argest container or of 20% by volume of the chemical waste stored in that area, whichever is the preatest, provide?		$\checkmark$		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		V		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		V		
4.17	Are C&D wastes sorted on site?		$\square$		
4.18	Are C&D waste disposed of property?		$\checkmark$		
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?		V		Linber paper
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				
4.22	is a dumping license obtained to deliver public fill to public filling areas?		7		~

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

		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		V		
5.03	Is construction light oriented away from the sensitive receivers?	. 🗸	,		
5.04	is grass hydroseeding provided to slopes as soon as the completion of works?	$\checkmark$			
5.05	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
	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?	V			
6.00	Ecology				
	Is site runoff properly treated to prevent any silly runoff?		i		Doilis
6.02	Are siit trap installed and well-maintained?				
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?				
7.00	Overall		1	- unarrante	
7.01	is the EM&A properly implemented in general?		V		

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			Acuity Sustainal	bility Consulting Li	nited
	Acuity	O: 2333-68		305 Castle Peak Road, Kwai Ch al@acuityhk.com   www.acui	
		Contract no. 13/W	SD/16 Mainlaying in Ts	eung Kwan O	
37 pit B	Remark / Follow up of Observ	ration(s) and Non-compliar	ice(s) of Last Weekly Site Ir	nspection:	
h.HEOf	Observation Las	commit what not a	losenread at the ve	mu envancelexit	at 137 Pits, Pitk
)-1+80 K	cn worrenaler w	as not treated bolin	r discharge & Oil	lealeyt new obsenced	at 137 Pitk, Pitk at Pitk
					i.
	5				
	ت ب ا				
	Signatures:				
	ET Representative	Contractor's Representative	WSD's Representative	IEC's Representative	
	(Name: Charlene)	(Name: Brue Lam)	(Namer (Mar R Tay)	(Name: N/A)	
	Levi		invertion ton		J

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# Appendix M

# Proactive Environmental Protection Proforma



## Proactive Environmental Protection for the Next Reporting Month

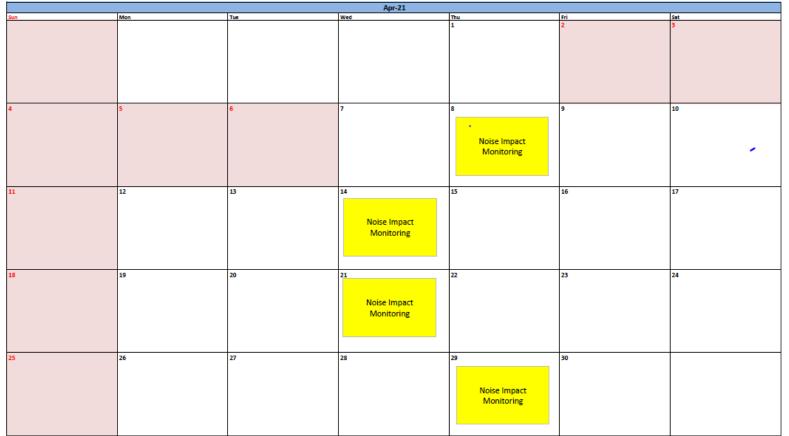
Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1 April 2021 - 30 April 2021	<ul> <li>Excavation of trench</li> <li>Mainlaying of pipe</li> <li>Backfilling of the trench</li> <li>Work fronts for open trench</li> <li>Work fronts for pipe jacking</li> </ul>	Construction dust and noise generation; construction wastes	<ul> <li>Dust suppression by regular wetting and water spraying</li> <li>Reduction of noise from equipment and machinery on- site</li> <li>Sorting and storage of general refuse and construction waste</li> </ul>



# Appendix N

# Impact Monitoring Schedule of Next Reporting Month (Tentative)





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



# Appendix O

# Academic Calendar(s)



									DARY SCHOOL CALENDAR 2020-2021
August	2	Su	Mo	Tu	We	Th	Fr	Sa	
		9	10	11	12	13	14	15	
		16	17	18	19	20	21	22	19/8 First School day
		23	24A	25B	26C	27D	28E	29	
<u></u>		30	31F				10	-	
September	2		75	1A	2B	3C	4D	5	
	3	6	7E	8F	9A	10B	11C	12	
		13	14D	15E	16F	17A	18B	19	18/09 Swimming gala
	4	20 27	21C 28B	22D 29C	23E 30	24F	25A	26	28/9 F1/MY1 3-Way Conference, 30/9 Staff Development Day 1
October	5	27	200	290	30			0	1/10 National Day. 2/10 The Day following Mid-Autumn Festival
October		4	5D	6E	7F	8A	9B	10	1/10 National Day. 2/10 The Day following Mid-Autumn Festival
	6	11	12C	13D	14E	15F	16A	17	13/10 F6 3-Way Conference
	0	18	120	20	21	22	23	24	19-24 Term Break
	7	25	26	27B		29D	30E	31	26/10 Chung Yeung Festival Holiday.
November	8	1	2F	3A	4B	5C	6D	7	
November	0	8	2F 9	10E	4D 11F	12A	13B	14	9/11/2020 Staff Development Day 2, 10/11 F5 3-Way Conference
	9	15	16C	17D	18E	19F	20A	21	3/11/2020 Stall Development Day 2, 10/1113 5-way Contelence
	10	22	23B	24C	25D	26E	20A	28	
	11	29	30A	140	200	LOL	2	20	
December	<u>  ''  </u>	20	JOR	1B	2C	3D	4D	5	
2 300.11001	12	6	7E	8F	9A	10B	11C	12	
		13	14D	15E	16F	17A	18B	19	15/12 F4 3-Way Conference
		20	21	22	23	24	25	26	25/12 Christmas Day 16/12 The First Weekday after Chrismas Day
		27	28	29	30	31			21/12-2/1 Christimas & New Year Holiday
January		-	_	_	-	-	1	2	1/1 New Year's Day
	13	3	4C	5D	6E	7F	8A	9	7/1 F3 3-Way Conference, 6-19/1 F6 HKDSE & IBDP Mock Exams
	14	10	11B	12C	13D	14E	15F	16	
	15	17	18A	19B	20C	21D	22E	23	
	16	24	25F	26A	27B	28C	29D	30	
		31							
February	17		1E	2F	3A	4B	5C	6	
		7	8D	9E	10	11			12-15 New year Holiday. 10-20/2 Chinese New Year Holiday
		<u>14</u>		<u>16</u>	17	18	<u>19</u>	20	
	18	21	22F	23A	24B	25C	26D	27	
		28							
March	19		1E	2F	3A	4B	5C	6	4/3 F2 3-Way Conference, 5/3 Last school day for F6 HKDSE students
		7	8D	9E	10F	11A	12B	13	
	20	14	15C	16D	17E	18F	19A	20	
		21	22	23	24	25	26	27	22-26/3 Creative Week
	21	28	29B	30C	31D				
April						1	2	3	01/04-10/04 Easter Holiday. 02/04 Good Friday, 03/04 The Day following Good Friday
	00	4	5	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>	04/04 Ching Ming Festival. 05/04 Easter Monday, 9-19/4 F6 HKDSE Exams-CSS Hall
	22	11	12E	13F	14A	15B	16C	17	16/4 Last school day for F6 IBDP students
	00	18	19D	20E	21F	22A	23B	24	07/4 54 MM/4 2 Mm/2 Conference 20/4 40/5 50 IDDD Mm/2 5/1000
Max	23	25	26C	27D	28E	29F	30A	_	27/4 F1/MY1 3-Way Conference 30/4-19/5 F6 IBDP May Exams 1/5 Labour Day
May	24	0	3B	4C	5D	6E	7F	8	4-17/5 Labour Day 4-17/5 F5 HKDSE Final Exams
	24	2	3B 10A	4C 11B	5D 12C	6E 13D	7F 14E	8	
	25	9 16	10A	18A	120	20B	21C	22	19/5 Birthday of Buddha, 21-27/5 F4 HKDSE Exams & F5 IBDP Final Exams
	20	23	24D	25E	26F	20B	28B	29	10/0 birtinday or buddina, 21-27/01 4 HINDOL LARIIS & FOIDDE FIIIdi EXallis
	27	30	31C	202	201	LIA	200	23	
June		50	010	1D	2E	3F	4A	5	
00.10	28	6	7B	8C	9D	10E	11F	12	
	20	13	14	15A	16B	17C	18D	19	14/06 Tuen Ng Festival
	30	20	21E	22F	23A	24B	25C	26	i soo raannig raalival
	1 <sup>33</sup>	27	28D	29E	30F		100	20	
July	+	-	-30		001	1	2	3	01/07 HKSAR Establishment Day, 2/7-14/8 Summer Holiday
		4	5	6	7	8	9	10	ener inter at actual of more buy, an inter common nonday
		11	12	13	14	15	16	17	
	+	18	19	20	21	22	23	24	
	-	25	26	27	28	29	30	31	
August		1		3	4	5	6	7	
August		1	2	<u>3</u> 10	4	<u>5</u> 12	<u>6</u> 13		
August		1 8	<u>2</u> 9	10	<u>4</u> <u>11</u>	12	13	14	
August		1	2		4				

Sourced from: <u>https://1e833fb1-5af5-4de8-901f-</u> <u>f9aeda4354b2.filesusr.com/ugd/611a22\_ea5d81f9881541de9c3c7049ba46860d.pdf</u>



### 中華人民共和國香港特別行政區政府總部教育局

Education Bureau

Government Secretariat, The Government of the Hong Kong Special Administrative Region The People's Republic of China

本局檔號 Our Ref: EDB(SDCT)3/PRO/10/1/1 來函檔號 Your Ref.: 電話 Telephone : 傳真 Fax Line :

30 November 2020

To: Supervisors / Principals of All Secondary Schools, Primary Schools, Special Schools, Schools offering Non-Local Curriculum, Kindergartens and Kindergarten-cum-Child Care Centres and Private Schools offering Non-Formal Curriculum

Dear Supervisor / Principal,

#### Arrangements of Suspension of Face-to-face Classes for All Schools

Further to the Government's earlier separate announcements on suspension of face-toface classes and school activities for all kindergartens and Primary 1 to Primary 3 levels of primary schools until December 6, the Government announced yesterday (29 November) that in light of the worsening situation of the COVID-19 epidemic, all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) would suspend face-to-face classes and school activities starting from 2 December (Wednesday) this year until the beginning of school Christmas holidays. Private schools offering non-formal curriculum (commonly known as "tutorial schools") will suspend face-toface classes for all classes for two weeks until 15 December.

https://www.edb.gov.hk/attachment/en/sch-admin/admin/about-sch/diseasesprevention/edb 20201130 eng.pdf





### 中華人民共和國香港特別行政區政府總部教育局

Education Bureau

Government Secretariat, The Government of the Hong Kong Special Administrative Region The People's Republic of China

本局檔號 Our Ref: EDB(SDCT)3/PRO/10/1/1 來函檔號 Your Ref.: 電話 Telephone : 傳真 Fax Line :

21 December 2020

To: Supervisors / Principals of All Secondary Schools, Primary Schools, Special Schools, Schools offering Non-Local Curriculum, Kindergartens and Kindergarten-cum-Child Care Centres and Private Schools offering Non-Formal Curriculum

Dear Supervisor / Principal,

#### Arrangements of Further Suspension of Face-to-Face Classes for All Schools

Since the situation of COVID-19 is still very severe, the Government needs to take stringent measures to cope with the epidemic. The Education Bureau (EDB) has announced that all kindergartens as well as primary and secondary schools (including special schools and schools offering non-local curriculum) will further suspend face-to-face classes and school activities after the end of the scheduled Christmas holidays until 10 January 2021. For private schools offering non-formal curriculum (commonly known as "tutorial schools"), face-to-face classes and school activities of all levels will also be suspended until 10 January 2021.

https://www.edb.gov.hk/attachment/en/sch-admin/admin/about-sch/diseasesprevention/edb\_20201221\_eng.pdf





### 中華人民共和國香港特別行政區政府總部教育局

Education Bureau Government Secretariat, The Government of the Hong Kong Special Administrative Region The People's Republic of China

本局檔號 Our Ref: EDB(SDCT)3/PRO/10/1/1 來函檔號 Your Ref.:

電話 Telephone:

傳真 Fax Line:

4 January 2021

To: Supervisors / Principals of All Secondary Schools, Primary Schools, Special Schools, Schools offering Non-Local Curriculum, Kindergartens and Kindergartencum-Child Care Centres and Private Schools offering Non-Formal Curriculum

Dear Supervisor / Principal,

#### Continuation of Suspension of Face-to-Face Classes for Schools in Hong Kong: The Arrangements

Since the situation of COVID-19 is still severe, the Government has decided to maintain the existing social distancing measures until 20 January 2021. Schools will dovetail with the arrangements, and the Education Bureau (EDB) has decided that all kindergartens, primary and secondary schools (including special schools and schools offering non-local curriculum) as well as schools offering non-formal curriculum (PSNFCs) (commonly known as "tutorial schools") will continue the suspension of face-to-face classes and school activities after 10 January 2021. The suspension will continue until the beginning of schools' Chinese New Year holidays.

Sourced from:

https://www.edb.gov.hk/attachment/en/sch-admin/admin/about-sch/diseasesprevention/edb\_20210104\_eng.pdf





#### Sourced from:

https://www.info.gov.hk/gia/general/202102/03/P2021020300820.htm