



Our ref: SHO/SHD-COR-CEM-ENV-070051

The EIA Ordinance Register Office Environmental Protection Department 27/F, Southorn Centre 130 Hennessy Road Wan Chai, Hong Kong

Attn: Mr. Patrick Wong

13 June 2022

### **BY HAND**

Dear Patrick,

### Siu Ho Wan Depot Property Development EP-588/2021 - Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works Condition 3.4 – Monthly EM&A Report (May 2022)

In pursuant to Condition 3.4 of the captioned Environmental Permit (EP), we are pleased to submit 1 hard copy and 1 electronic copy of the Monthly EM&A Report for May 2022. Please be informed that the submission has been certified by the ET Leader and verified by the IEC.

Should you have any queries, please feel free to contact our Cyrus Lau at 3127 6296.

Yours sincerely,

Lisa Poon Chief Environmental Manager (CW)

Encl.

c.c.

IEC 1732 ETL 1733 ETL Mr. James ChoiMr. FC Tsang

- Mr. Roy Hung

LP/BC/CL/AL/ct

# Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(May 2022)

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Verified by:	James Choi	James

Position: Independent Environmental Checker

Date: \_\_\_\_\_ 10 June 2022

# Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(May 2022)

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Certified by: _	Lisa Poon	A

Position: Environmental Team Leader

Date: \_\_\_\_\_ 10 June 2022



Consultancy Agreement No. NEX/1062

### Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works – Advance Construction Works

### Monthly EM&A Report No. 6

[Period from 1 to 31 May 2022]

	Name	Signature
Prepared & Checked:	Vanessa Ao	$\int \mathcal{D}$
Reviewed & Approved:	Y T Tang	Cogelfatin

Version:	А	Date: 10 June 2022
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### 1 INTRODUCTION

#### 1.1 Background

- 1.1.1 MTR Corporation Limited (MTRCL) had commenced a study to formulate a technically feasible development scheme for the Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot (hereinafter referred to the "SHD Topside Development") to optimize housing supply. To facilitate the construction of the SHD Topside Development, railway related works would be required. The existing Siu Ho Wan Depot (SHD) will undergo replanning works to make room for the phased construction of the SHD Topside Development, while maintenance and supporting services to the existing Tung Chung Line (TCL), Airport Express Line (AEL) and Disneyland Resort Line (DRL) should be maintained without causing disruption to the normal operation. A new Siu Ho Wan Station (SHO)) has also been proposed along the TCL tracks to meet transport needs of the SHD Topside Development and enable building of a sustainable community.
- 1.1.2 The Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-214/2017) for the SHO and SHD Replanning Works (hereafter referred to as the "Project") was approved on 29 November 2017 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an Environmental Permit (EP) was granted on 22 March 2021 (EP No: EP-588/2021) for the construction and operation of the Project.

#### 1.2 **Project Programme**

1.2.1 Two civil construction works contracts of the Project have been awarded since December 2021. The construction of the Project commenced in December 2021 and is expected to complete in 2023. **Table 1.1** summarises the information of the awarded Works Contracts.

	Summary of Awarded Works Contracts				
Works Contract	Description	Construction Start Date	Contractor	Environmental Team	
1732	Cable bridges and associated civil works for cable diversion	December 2021	Paul Y – CRCCI JV	Acuity Sustainability Consulting Ltd.	
1733	Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks	April 2022	Build King Civil Engineering Ltd.	SGS Hong Kong Ltd.	

 Table 1.1
 Summary of Awarded Works Contracts

### **1.3** Purpose of the Report

1.3.1 The Environmental Monitoring and Audit (EM&A) programme for the Project commenced in December 2021. This is the sixth EM&A Report for the Project which summarises the EM&A works undertaken by the respective Contractor's ETs during the period from 1 to 31 May 2022.

#### **ENVIRONMENTAL MONITORING AND AUDIT** 2

#### 2.1 **EM&A Results**

- 2.1.1 The EM&A Report for Works Contract 1732 and 1733 prepared by the Contractor's ET are provided in Appendices A to B. The EM&A Report provides details of the project information, EM&A requirements, impact monitoring and audit results for the Contract.
- 2.1.2 A summary of the major construction activities undertaken by the Contractor of Works Contract during the reporting period is presented in Table 2.1.

Table 2.1	Summary of Major Construction Activities in the Reporting Period				
Works Contract	Site	Construction Activities			
1732	Overall	<ul> <li>Site Setup at Site Office ;</li> <li>UU Detection at AB11 Area (Including Trial Pit) ;</li> <li>General Survey Works ;</li> <li>Instrumentation Monitoring ;</li> <li>Tree Felling Works ;</li> <li>Civil Works for Cable and Watermain Diversion ;</li> <li>Piling Works ;</li> <li>Footing Construction for EC1 and WC 1 ; and</li> <li>AB11 Modification Works.</li> </ul>			
1733	Overall	<ul> <li>Site Survey ;</li> <li>Tree Survey ;</li> <li>Site Clearance ; and</li> <li>Paint Shop Demolition.</li> </ul>			

2.1.3 During the reporting period, impact monitoring for air guality was conducted in accordance with the EM&A Manual. No exceedances of the Action / Limit Level of 1-hour TSP due to the Project construction were recorded. Results of air quality is summarised in Tables 2.2. Details of the monitoring requirements, locations, equipment and methodology are presented in Appendices A to B of this Report.

Table 2.2 Su	nmary of 1-Hour TSP Monitoring Results in the Reporting Period
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Monitoring Station ID	Location	TSP Concentration (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)	Exceedance due to the Project Construction (Yes/No)
Works Contrac	Works Contract 1732 & 1733				
DM1	Siu Ho Wan Government Maintenance Depot	60.7 – 69.1	294.7	500	No

2.1.4 No environmental complaints, notification of summons and successful prosecutions were recorded in the reporting period. Log for environmental complaints, notification of summons and successful prosecutions is provided in Table 2.3.

#### Table 2.3 Log for Environmental Complaints, Notification of Summons and Successful Prosecutions for the Reporting Month

Works Contract	Environmental Complaints	Notification of Summons	Successful Prosecutions
1732	0	0	0
1733	0	0	0

2.1.5 Regular site inspections were conducted by the Contractor's ET on a weekly basis to check the implementation of environmental pollution control and mitigation measures for the Project. No non-conformance was identified in the reporting period.

### 3 IMPLEMENTATION STATUS ON THE ENVIRONMENTAL PROTECTION REQUIREMENTS

3.1.1 The Contractor has implemented all mitigation measures and requirements as stated in the EIA Report, EM&A Manual and EP (EP No: EP-588/2021). The status of required submissions under the EP as of the reporting period are summarised in **Table 3.1**.

Table 3.1 Summary of EP Submissions Status			
EP Condition (EP-588/2021)	Submission	Submission date	
Condition 1.12	Commencement Date of Construction	11 Jun 2021 (1 <sup>st</sup> submission) 12 Jul 2021 (2 <sup>nd</sup> submission) 12 Aug 2021 (3 <sup>rd</sup> submission)	
Condition 2.7	Construction Works Phasing Schedule Proposal	1 Nov 2021 (1 <sup>st</sup> Submission) 20 Dec 2021 (2 <sup>nd</sup> Submission) 29 Dec 2021 (Deposited)	
Condition 2.8	Environmental Permit Submission Schedule	12 Aug 2021 10 Sep 2021 (Deposited)	
Condition 2.9	Management Organization	1 Nov 2021 (1 <sup>st</sup> Submission) 20 Dec 2021 (2 <sup>nd</sup> Submission) 21 Mar 2022 (3 <sup>rd</sup> Submission)	
Condition 2.10	Construction Noise Mitigation Plan	1 Nov 2021 (1 <sup>st</sup> Submission) 20 Dec 2021 (2 <sup>nd</sup> Submission) 28 Dec 2021 (Deposited)	
Condition 2.13	Waste Management Plan	1 Nov 2021 (1 <sup>st</sup> Submission) 20 Dec 2021 (2 <sup>nd</sup> Submission) 28 Dec 2021 (Deposited)	
Condition 3.3	Baseline Monitoring Report	1 Nov 2021 16 Nov 2021 (Deposited)	
Condition 3.4	Monthly EM&A Report No.6 (May 2022)	10 June 2022	
Condition 4.2	Dedicated Internet Website	12 Jan 2022	

 Table 3.1
 Summary of EP Submissions Status

Appendix A

Monthly EM&A Report for May 2022 – Cable Bridges and Associated Civil Works for Cable Diversion Works Contract 1732



### Siu Ho Wan Depot Property Development -

### **Cable Bridges and Associated Civil Works for Cable Diversion**

### Monthly EM&A Report

(Period from 1 to 31 May 2022)

	Name	Signature
Prepared by	Howard Chan	Howard
Checked & Reviewed by	F. C. Tsang	Toang Fauldeary

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### **EXECUTIVE SUMMARY**

- A.1 This is the 6<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the reporting period from 1 to 31 May 2022.
- A.2 A summary of the construction works reported by the Main Contractor for the Project during the reporting month is listed below.

### **Construction activities undertaken**

- Site setup at site office
- UU detection at AB11 area (including trial pit)
- General survey works
- Instrumentation monitoring
- Tree felling works
- Civil works for cable and watermain diversion
- Piling works
- Footing construction for EC1 and WC1
- AB11 modification works
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

### **Construction dust (1-hour TSP) monitoring** DM1

15 times

- A.4 Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Contractor's ET on 5, 10, 16, 23 and 30 May 2022. One joint site inspection with IEC also undertaken on 23 May 2022. Details of the audit findings and implementation status are presented in **Section 5**.
- A.5 Details of waste management are presented in **Section 3**.
- A.6 No exceedance of the Action and Limit Levels of 1-hour TSP was recorded during the reporting period.
- A.7 No complaint or non-compliance was reported in the reporting period.
- A.8 No notification of summon or prosecution was received in this reporting period.
- A.9 No changes of EM&A programme were made in this reporting period.

A.10 A summary of the construction activities provided by the Main Contractor in the next three reporting months are listed below:

### **Construction Activities to be undertaken**

- Civil works for cable trench and draw-pit construction for cable diversion
- Instrumentation installation and monitoring
- AB11 modification works
- Piling works for EC3/WC3
- Tree felling
- Construction of footings for EC1/WC1/EC2/WC2/EC3/WC3
- Assembly of the steel bridges and erection preparation works
- Construction of cable brackets

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

- 1.1.1. The Project involves the construction of the foundations and superstructure for two cable bridges and each of two spans across and above the Tung Chung Line, Airport Express Line and the Siu Ho Wan Depot test track. The Works enable the diversion of the existing utilities to provide space for the future foundation works of the Siu Ho Wan Property Development and Station.
- 1.1.2. The Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works Environmental Impact Assessment Report was approved with conditions by the Environmental Protection Department (EPD) on 29 November 2017. The latest Environmental Permit (No. EP-588/2021) was issued by the EPD on 22 March 2021.
- 1.1.3. The Project (Contract 1732) was awarded to Paul Y. CRCCI Joint Venture (JV). JV has engaged Acuity Sustainability Consulting Limited as the Environmental Team (ET) for this contract.
- 1.1.4. The Project covers the following construction activities:
  - (a) Site formation, tree removal, site safety fencing and supply and installation of Engineer's Site Accommodation;
  - (b) Diversion of existing above ground watermains to create working areas within the site for the Works;
  - (c) Constructing foundations comprising pre-bored H-piles, and carrying out pile load tests on selected H-piles;
  - (d) Constructing pile caps and spread footing foundations in shallow excavation;
  - (e) Prefabrication of steel truss vertical support frames, and erection on the foundations;
  - (f) Prefabrication of steel truss cable bridges and erection on to the vertical support frames;
  - (g) Prefabrication and erection of a steel link bridge spanning between the cable bridge and the façade of the existing building AB11;
  - (h) Installation of cable trays, cable supports and sunshield in and along the cable bridges, vertical support frames and at external walls of the existing building AB11;
  - (i) Installation of cable bridge miscellaneous details such as roof, drainage, facades, lightings, lightning protection, access control;
  - (j) Installation of ground level cable troughs;
  - (k) Modification of the façade of existing AB11 building for cable feeding out from the building;
  - (1) All temporary railway protection works such as hoardings and retaining structures in course of the Execution of the works; and
  - (m) Supply and installation of equipotential bonding for the cable bridge and associated fixed metal parts attached to the cable bridge.

1.1.5. A summary of the major construction activities undertaken in this reporting period (from 1 to 31 May 2022) is shown in Table 1.1. The construction programme is presented in Appendix A.

# Table 1.1Summary of the construction activities reported by Main Contractor during<br/>the Reporting Month

### **Construction Activities undertaken**

- Site setup at site office
- UU detection at AB11 area (including trial pit)
- General survey works
- Instrumentation monitoring
- Tree felling works
- Civil works for cable and watermain diversion
- Piling works
- Footing construction for EC1 and WC1
- AB11 modification works
- 1.1.6. The project organisational chart specifying management structure and contact details are shown in **Appendix B**.
- 1.1.7. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in **Table 1.2**.

## Table 1.2Summary of the Status of Valid Environmental License Notification, Permit<br/>and Documentations

Permit/ Licences/	Valid	lid Period		Remark	
Notification	From	То	Status		
/Reference No.	TIOIII	10			
<b>Environmental Permit</b>					
EP-588/2021	22 Mar 2021	N/A	Valid	-	
Wastewater Discharge Lie	cense				
WT00040639-2022	23 Apr 2022	31 Mar 2027	Valid	-	
Notification of Construction	on Works under	the Air Pollution	Control (Co	nstruction Dust)	
Regulation					
				Notification	
Ref. 472845	N/A	N/A	Notified	submitted on 19	
				Oct 2021	
Chemical Waste Producer	Chemical Waste Producer Registration				
WPN5213-961-P3457-01	19 Nov 2021	N/A	Valid	-	
<b>Billing Account for Dispos</b>	sal of Construction	on Waste			
7042328	25 Nov 2021	N/A	Valid	-	
Construction Noise Permit					
GW-RS0183-22	1 Apr 2022	30 Sep 2022	Valid	Site office genset and main works, excluding work areas for SHD1741	

### 2. Environmental Status

2.1.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (No. EP-588/2021) as of the reporting period for the Project are summarised in **Table 2.1**.

EP Condition (EP-588/2021)	Submission	Submission date
		11 June 2021 (1 <sup>st</sup> submission)
1.12	Commencement Date of Construction	12 July 2021 (2 <sup>nd</sup> submission)
		12 August 2021 (3 <sup>rd</sup> submission)
	Construction Works Phasing	1 November 2021 (1 <sup>st</sup> submission)
2.7	Schedule	20 December 2021 (2 <sup>nd</sup> submission)
		29 December 2021 (Deposited)
2.8	Environmental Permit Submission	12 August 2021
2.0	Schedule	10 September 2021 (Deposited)
		1 November 2021 (1 <sup>st</sup> submission)
2.9	Management Organization	20 December 2021 (2 <sup>nd</sup> submission)
		21 April 2022 (3 <sup>rd</sup> submission)
	Construction Noise Mitigation Plan	1 November 2021 (1 <sup>st</sup> submission)
2.10		20 December 2021 (2 <sup>nd</sup> submission)
		28 December 2021 (Deposited)
	Waste Management Plan	1 November 2021 (1 <sup>st</sup> submission)
2.13		20 December 2021 (2 <sup>nd</sup> submission)
		28 December 2021 (Deposited)
3.3	Baseline Monitoring Report	1 November 2021
5.5		16 November 2021 (Deposited)
3.4	Monthly EM&A Report (December 2021)	13 January 2022
3.4	Monthly EM&A Report (January 2022)	15 February 2022
3.4	Monthly EM&A Report (February 2022)	10 March 2022
3.4	Monthly EM&A Report (March 2022)	19 April 2022
3.4	Monthly EM&A Report (April 2022)	16 May 2022

 Table 2.1
 Summary of Status of Required Submission for EP-588/2021 for the Project

3.4	Monthly EM&A Report (May 2022)	To be submitted within 10 working days after the end of the reporting month
4.2	Dedicated Internet Website	12 January 2022

2.1.2. Details of the major construction activities undertaken in this reporting period are shown in **Table 2.2**.

Table 2.2	Summary of the Construction	Activities Undertaken	during the Reporting
	Period		

Construction activities undertaken	Remarks on progress
• Site setup at site office	On-going
• UU detection at AB11 area (including trial pit)	• On-going
General survey works	On-going
Instrumentation monitoring	On-going
• Tree felling works	On-going
Civil works for cable and watermain diversion	On-going
Piling works	On-going
Footing construction for EC1 and WC1	On-going
AB11 modification works	On-going

2.1.3. The drawings showing the project layout and the location of the monitoring station are attached in **Appendix C** and **Appendix D**, respectively. A summary of the monitoring location is shown in **Table 2.3**.

### Table 2.3 Summary of the location of the monitoring station

Air Sensitive Receiver (ASR) ID No. in EIA Report	Monitoring Station ID	ASR Description
A2	DM1	Siu Ho Wan Government Maintenance Depot

### **3.** MONITORING RESULTS

### **3.1.** Monitoring Parameters

### Air Quality

- 3.1.1. The impact monitoring had been carried out in accordance with Section 2.6 of the approved EM&A Manual, with sampling frequency of at least 3 times in every 6 days undertaken, to determine the 1-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting period.
- 3.1.2. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

### **3.2.** Monitoring Equipment and Methodology

### **Monitoring Equipment**

- 3.2.1. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Portable direct reading dust meters used in this monitoring were proven to the IEC to be capable of achieving comparable result as that of the HVS and, thus, were used for sampling.
- 3.2.2. The equipment used for 1-hour TSP measurement during the reporting month are summarised in **Table 3.1**.

Measuring Parameter	Monitoring Equipment	Brand and Model	Serial Number	Date of Calibration
1-hour TSP	Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)	A.005.11a	4 May 2022
1-hour TSP	Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)	A.005.16a	4 May 2022

 Table 3.1
 Construction Dust Monitoring Equipment

3.2.3. The portable direct reading dust meter was calibrated at 1-year interval against a High Volume Sampler, TE-5170. Copies of calibration certificates of the portable direct reading dust meter are presented in **Appendix E.** 

### Monitoring Methodology

3.2.4. The 1-hour TSP measurement followed manufacturer's instruction manual. Before initiating a measurement, zeroing the Portable direct reading dust meter was carried out to ensure maximum accuracy of concentration measurements.

3.2.5. The 1-hour TSP was sampled by drawing air into the portable direct reading dust meter where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

### **3.3.** Monitoring Location

3.3.1. Location of the designated dust monitoring station is described in **Table 3.2**.

Table 3.2	Construction	Dust Monitoring	Location
	Competercion	D abt mitomitoring	

Monitoring Station ID	Dust Monitoring Station
DM1	Siu Ho Wan Government Maintenance Depot

### **3.4. Result Summary**

- 3.4.1. Dust impact monitoring was carried out at DM1 on 6, 12, 18, 24 and 30 May 2022 during the reporting month (**Appendix L**). According to our field observations, the major dust sources identified included vehicular emissions from North Lantau Highway and Cheung Tung Road. Gentle wind was recorded throughout the monitoring period, with gentle to strong wind recorded occasionally.
- 3.4.2. The results for 1-hour TSP are summarized in **Table 3.3**. The measurement data is presented in **Appendix F.**

Table 3.3Summary of 1-hour TSP Monitoring Results

Monitoring	Range	Action Level	Limit Level	No. of Exceedances
Location	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	
DM1	60.7 – 69.1	294.7	500	0

### Waste management

3.4.3. The waste generated from this Project includes inert 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 3.4**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

		Table 5.	4 Quantutes	of waste genera	lieu from u	le r roject	
				Quantity			
				Non-inert	C&D Mater	ials	
Reporting period	Inert C&D Materials (in m <sup>3</sup> )	Chemical Waste (in '000 kg)	Others, e.g. General Refuse disposed at		Recycled m	aterials	
				Paper/ cardboard (in '000 kg)		Metals (in '000 kg)	Yard Waste (in '000 kg)
May 2022	35.467	0.000	0.000	0.010	0.000	0.000	47.010

### Table 3.4 Quantities of waste generated from the Project

- 3.4.4. All dump trucks for C&D materials transportation and disposal were equipped with Global Positioning System (GPS) for real time tracking and monitoring their travel routings and parking locations in order to avoid illegal dumping or landfilling of C&D materials.
- 3.4.5. The GPS data including travel routings of dump trucks was reviewed by the ET and IEC, and no illegal dumping activities were suspected.

### 4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 4.1.1. The Environmental Complaint Handling Procedure is shown in Appendix H.
- 4.1.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix I** shall be carried out.
- 4.1.3. No exceedance of the Action and Limit Levels of 1-hour TSP was recorded during the reporting month.
- 4.1.4. No complaint or non-compliance was reported in the reporting month.
- 4.1.5. No notification of summons and prosecution was received in the reporting period.
- 4.1.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix J**.

### 5. EM&A SITE INSPECTION

5.1.1. 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, five (5) site inspections were carried out on 5, 10, 16, 23 and 30 May 2022. One joint site inspection with the IEC was also undertaken on 23 May 2022. No observation and recommendation were reported during the weekly site inspections. Key observations during the site inspections are summarized in **Table 5.1**.

Date	<b>Observation/ Recommendation</b>	Follow-up Status
5 May 2022	1. None.	1. None.
10 May 2022	1. None.	1. None.
16 May 2022	1. None.	1. None.
23 May 2022	1. None.	1. None.
30 May 2022	1. None.	1. None.

Table 5.1Site Observations

5.1.2. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix K**.

### 6. FUTURE KEY ISSUES

- 6.1.1. Work to be undertaken in the next three reporting months are:
  - Civil works for cable trench and draw-pit construction for cable diversion
  - Instrumentation installation and monitoring
  - AB11 modification works
  - Piling works for EC3/WC3
  - Tree felling
  - Construction of footings for EC1/WC1/EC2/WC2/EC3/WC3
  - Assembly of the steel bridges and erection preparation works
  - Construction for Cable brackets
- 6.1.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 6.1.3. The tentative schedule of regular 1-hour TSP monitoring in the next reporting period is presented in **Appendix M**.
- 6.1.4. The construction programme for the Project for the next reporting month is presented in **Appendix A**.

### 7. CONCLUSION AND RECOMMENDATIONS

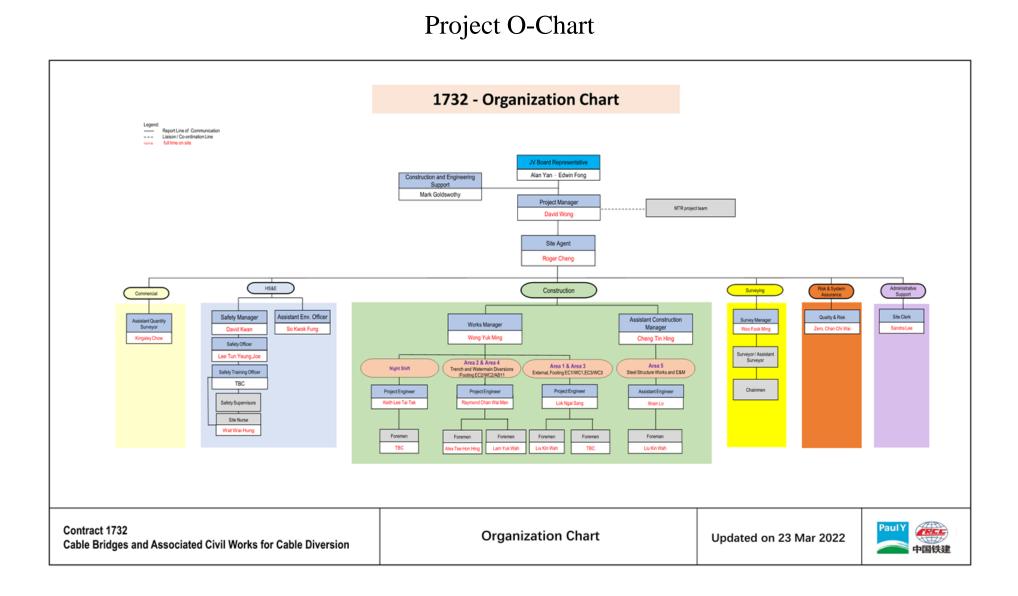
- 7.1.1. This 6<sup>th</sup> monthly EM&A Report presents the EM&A works undertaken during the period from 1 to 31 May 2022 in accordance with the EM&A Manual and the requirement under EP-588/2021.
- 7.1.2. Air quality (including 1-hour TSP) impact monitoring was carried out in the reporting period. No exceedance of the Action and Limit Levels was recorded for air quality impact monitoring during the reporting period.
- 7.1.3. Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 23 May 2022. No observation and recommendation were reported during the site inspection. The environmental performance of the Project was therefore considered satisfactory.
- 7.1.4. No complaint or non-compliance was reported in the reporting month.
- 7.1.5. No notification of summons or prosecution was received in the reporting month.
- 7.1.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 7.1.7. No change of EM&A programme was made in this reporting period.
- 7.1.8. The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.

# Appendix A Construction Programme

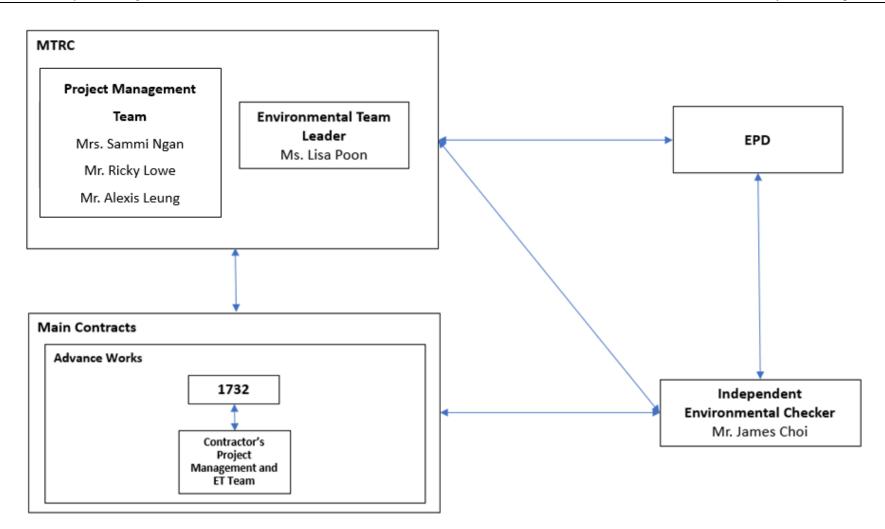
### Acuity Sustainability Consulting Limited

Construction Activities	ID	JF	FM	A		2021 J J	A	S (	N C	D	J	FM	A	М	2022 J J	J A	S	0 1	N D	) J	FΝ	/ A	2023 J J	A	s O	N D
Contrct 1732 – Cable Bridges and Associated Civil Works for Cable Diversion	2																									
Site Clearance & Hoarding/UU/Cable Trenches	2.1																									
H-piling	2.2																									
Excavation (Soil)	2.3																									
Substructure (footings, pile caps, columns)	2.4																									
Backfilling	2.5																									
Superstructure (Cable Bridges)	2.6																									

# Appendix B Project Organization Chart



#### Acuity Sustainability Consulting Limited



### Acuity Sustainability Consulting Limited

### MTR's Contact:

MTRC - Project Management Team										
Position	Name	Telephone								
Chief Project Co-ordination Manager	Mrs. Sammi Ngan	2208 3753								
Senior Project Manager-Property	Mr. Alexis Leung	2993 8028								
Senior Design Manager-Civil	Mr. Ricky Lowe	2208 3347								

MTRC - Environmental Team										
Position	Name	Telephone								
Environmental Team Leader	Ms. Lisa Poon	3127 6295								
Environmental Team Member	Mr. Cyrus Lau	3127 6296								

ANewR Consulting Limited - IEC									
Position	Name	Telephone							
Independent Environmental Checker	Mr. James Choi	2618 2836							

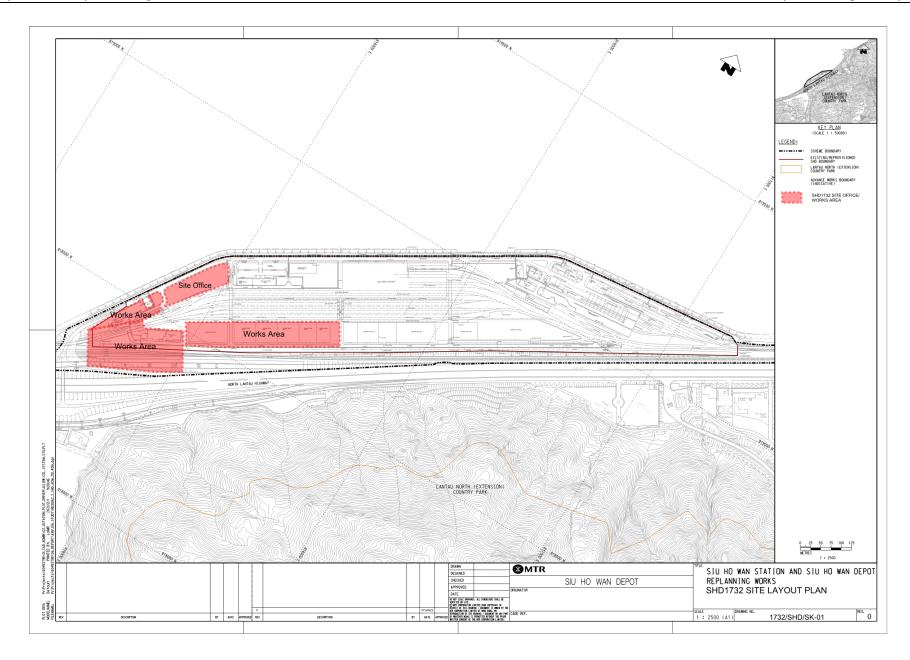
Contractor's Contact:

Main Works Contract	Description	Contractor	Position	Name	Telephone
	Construction of cable bridges and		Project Manager	David Wong	9712 9984
1522	Construction of cable bridges and associated civil works for cable diversion	Paul Y – CRCCI	Environmental Officer	Pan Fong	9436 9435
1732		Joint Venture	Assistant Environmental Officer	So, Kwok Fung	6273 1608
	diversion		Environmental Team Leader	Tsang, Fan Cheong	2698 8060

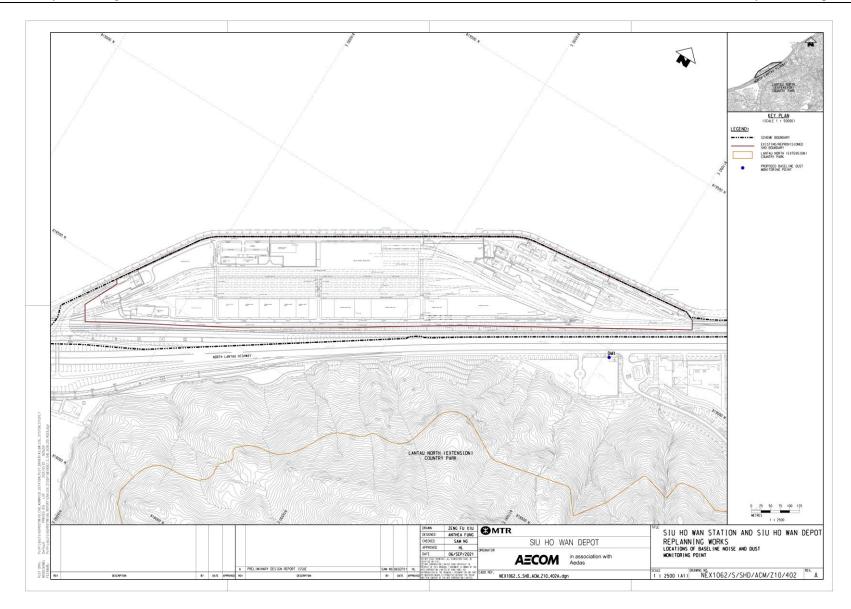
## Appendix C

## Alignment and Works Area for Contract No. 1732

### Acuity Sustainability Consulting Limited



# Appendix D Location Plan of Air Quality Monitoring Station



# Appendix E Calibration Certificates (Air Quality Monitoring Equipment)

#### Acuity Sustainability Consulting Limited

#### EQUIPMENT CALIBRATION RECORD

Туре:	Laser Dust Monitor	
Manufacturer/Brand:	SIBATA	_
Model No.:	LD-3	
Equipment No.:	A.005.11a	
Sensitivity Adjustment Scale Setting:	799 CPM	_
Operator:	WS CHAN	
Standard Equimment		
Equipment:	High Volume Sampler	
Venue:	Fanling Government Secondary School	
Model No.:	TE-5170	
Serial No.:	3154	
Last Calibration Date:	28-Apr-22	

#### Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799	CPM
799	CPM

Hour	Date	Time	Ambient	Condition	Concentration	Total Count(2)	Count/	
	(dd/mm/yy)	(dd/mm/yy)		Temp (°C) R.H.(	R.H.(%)	(mg/m3)		Minute ③
					Y-axis		X-axis	
1	03/05/22	9:30-10:30	26.0	60	0.0490	1920	32.00	
2	03/05/22	10:30-11:30	26.0	60	0.0500	2010	33.50	
3	03/05/22	11:30-12:30	26.0	60	0.0520	2140	35.67	
4	03/05/22	12:30-13:30	26.0	60	0.0540	2290	38.17	

Note: (1) Monitoring data was measured by High Volume Sampler

(2) Total Count was logged by Laser Dust Monitor

(3) Count/minute was calculated by (Total Count/60)

#### By Linear Regression of Y on X

0.0015
0.9991
3-May-23

Remarks:

QC Reviewer:

Signature:

Date: 4-May 22

#### Acuity Sustainability Consulting Limited

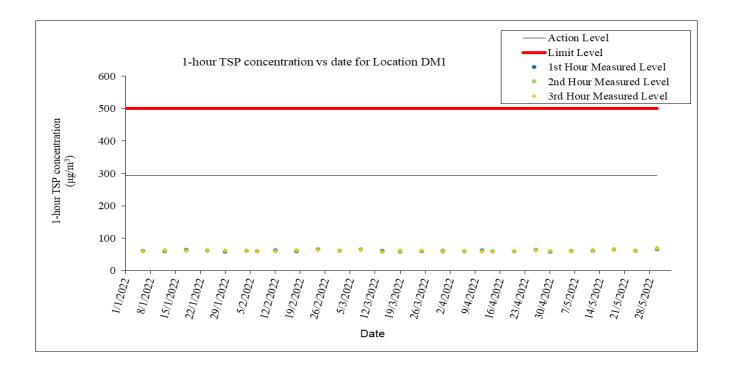
42100

ype:			Laser Dus	t Monitor			
	urer/Brand:		SIBATA				
Model No			LD-3B				
quipmen		6 W	A.005.16a	1			
ensitivity	Adjustment Sca	le Setting:	521 CPM				
Operator:			WS CHAN			X	
standard	Equimment						
Equipmer	t:		High Volu	me Sampl	er		
/enue:			and the second se		t Secondary Scho	ol	
Model No	.:		TE-5170		X.		
Serial No.			3154				
.ast Calib	ration Date:		28-Apr-22	1			
Calibratio	n Result						
							CDAA
Sensitivity	Adjustment Sca	le Setting (Befor	e Calibrati	on):		521	CPM
a	v Adjustment Sca v Adjustment Sca					521 521	CPM
Sensitivity	v Adjustment Sca	le Setting (After	Calibratio	n):	Concentration(1)	521	СРМ
	Adjustment Sca		Calibratio	n): Condition	Concentration ①		CPM Count/
ensitivity	v Adjustment Sca	le Setting (After	Calibratio	n):	(mg/m3)	521	СРМ
ensitivity	Date (dd/mm/yy)	le Setting (After	Calibratio	n): Condition	11 In 1997	521	CPM Count/ Minute③
Hour	Adjustment Sca Date (dd/mm/yy) 03/05/22	le Setting (After	Calibration Ambient Temp (°C)	n): Condition R.H.(%)	(mg/m3) Y-axis	521 Total Count②	CPM Count/ Minute(3) X-axis
Hour	Adjustment Sca Date (dd/mm/yy) 03/05/22 03/05/22	le Setting (After Time 9:30-10:30	Calibration Ambient Temp (°C) 26.0	n): Condition R.H.(%) 60	(mg/m3) Y-axis D.0490	521 Total Count② 1850	CPM Count/ Minute③ X-axis 30.83
Hour	Adjustment Sca Date (dd/mm/yy) 03/05/22	le Setting (After Time 9:30-10:30 10:30-11:30	Calibration Ambient Temp (°C) 26.0 26.0	n): Condition R.H.(%) 60 60	(mg/m3) Y-axis 0.0490 0.0500	521 Total Count② 1850 1980	CPM Count/ Minute(3) X-axis 30.83 33.00
Hour 1 2 3 4	Adjustment Sca Date (dd/mm/yy) 03/05/22 03/05/22 03/05/22 03/05/22 (1) Monitoring (2) Total Count	E Setting (After Time 9:30-10:30 10:30-11:30 11:30-12:30	Ambient Temp (°C) 26.0 26.0 26.0 26.0 red by Hig aser Dust	n): R.H.(%) 60 60 60 60 h Volume Monitor	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50
Hour Hour 1 2 3 4 Note:	Adjustment Sca Date (dd/mm/yy) 03/05/22	P:30-10:30 10:30-11:30 11:30-12:30 12:30-13:30 data was measu was logged by L ite was calculate	Ambient Temp (°C) 26.0 26.0 26.0 26.0 red by Hig aser Dust	n): R.H.(%) 60 60 60 60 h Volume Monitor	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50
Hour Hour 1 2 3 4 Note:	Adjustment Sca Date (dd/mm/yy) 03/05/22	le Setting (After Time 9:30-10:30 10:30-11:30 11:30-12:30 12:30-13:30 data was measu was logged by L ute was calculate on X :	Ambient Temp (°C) 26.0 26.0 26.0 26.0 26.0 red by Hig aser Dust d by (Tota 0.0015	n): R.H.(%) 60 60 60 60 h Volume Monitor I Count/60	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50
Hour Hour 1 2 3 4 Note:	Adjustment Sca Date (dd/mm/yy) 03/05/22	le Setting (After Time 9:30-10:30 10:30-11:30 11:30-12:30 12:30-13:30 data was measu was logged by L ute was calculate on X :	Ambient Temp (°C) 26.0 26.0 26.0 26.0 26.0 red by Hig aser Dust d by (Tota	n): R.H.(%) 60 60 60 60 h Volume Monitor I Count/60	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50
Hour Hour 1 2 3 4 Note: By Linear	Adjustment Sca Date (dd/mm/yy) 03/05/22	e Setting (After Time 9:30-10:30 10:30-11:30 11:30-12:30 12:30-13:30 data was measu was logged by L ite was calculate on X : fficient:	Ambient Temp (°C) 26.0 26.0 26.0 26.0 26.0 red by Hig aser Dust d by (Tota 0.0015 0.9995	n): R.H.(%) 60 60 60 60 h Volume Monitor I Count/60	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50
Hour Hour 1 2 3 4 Note: By Linear	Adjustment Sca Date (dd/mm/yy) 03/05/22 03/05/22 03/05/22 03/05/22 03/05/22 (1) Monitoring (2) Total Count (3) Count/minu Regression of Y of Slope (K-factor) Correlation coe f Calibration Reco	e Setting (After Time 9:30-10:30 10:30-11:30 11:30-12:30 12:30-13:30 data was measu was logged by L ite was calculate on X : fficient:	Ambient Temp (°C) 26.0 26.0 26.0 26.0 26.0 red by Hig aser Dust d by (Tota 0.0015 0.9995	n): R.H.(%) 60 60 60 h Volume Monitor I Count/60	(mg/m3) Y-axis 0.0490 0.0500 0.0520 0.0540 Sampler	521 Total Count② 1850 1980 2070	CPM Count/ Minute(3) X-axis 30.83 33.00 34.50

### Appendix F Monitoring Data (Air Quality Monitoring)

Data	Weather Start Time		1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour
Date	weather	(hh:mm)	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>
6 May 2022	Fine	13:15	61.0	60.7	61.6
12 May 2022	Rainy	11:25	61.7	62.7	61.1
18 May 2022	Sunny	10:45	66.2	65.3	67.8
24 May 2022	Fine	10:55	62.2	61.7	63.6
30 May 2022	Cloudy	10:30	66.6	69.1	67.2
Mir	nimum: 60.7 μ	g/m <sup>3</sup>	Ma	ximum: 69.1 µg	g/m <sup>3</sup>

### The Summary of 1-hour TSP Concentration (µg/m<sup>3</sup>) at Location DM1



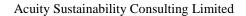
### Appendix G Waste Flow Table

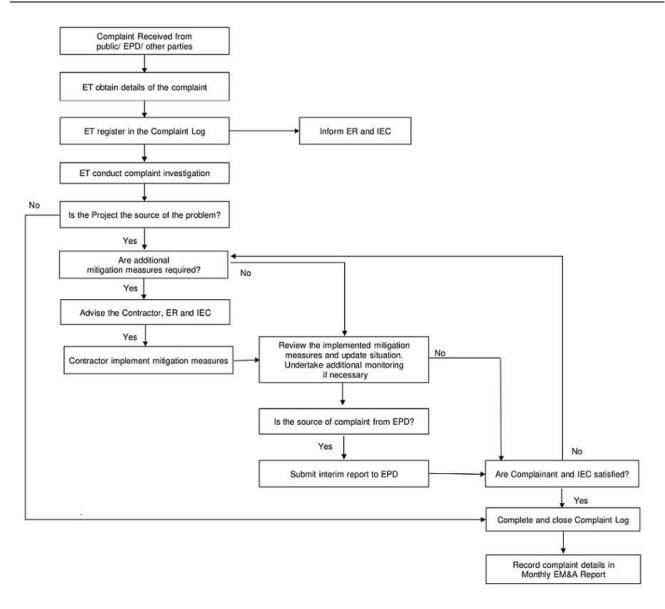
# Monthly Summary Waste Flow TableName of Department:MTRMonthly Summary Waste Flow Table forMay 2022

		Actual Quantities of Inert Construction Waste Generated Monthly				
Month	(a) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill
	(in m <sup>3</sup> )	(in m <sup>3</sup> )	(in m <sup>3</sup> )	(in m <sup>3</sup> )	(in m <sup>3</sup> )	(in m <sup>3</sup> )
Jan-22	0.000	0.000	0.000	0.000	0.000	0.000
Feb-22	0.000	0.000	0.000	0.000	0.000	0.000
Mar-22	2.780	2.780	0.000	0.000	0.000	0.000
Apr-22	78.845	0.000	0.000	0.000	78.845	0.000
May-22	35.467	11.372	0.000	0.000	24.095	0.000
Jun-22	NA	NA	NA	NA	NA	NA
Sub-total	117.092	14.152	0.000	0.000	102.940	0.000
Jul-22	NA	NA	NA	NA	NA	NA
Aug-22	NA	NA	NA	NA	NA	NA
Sep-22	NA	NA	NA	NA	NA	NA
Oct-22	NA	NA	NA	NA	NA	NA
Nov-22	NA	NA	NA	NA	NA	NA
Dec-22	NA	NA	NA	NA	NA	NA
Total	117.092	14.152	0.000	0.000	102.940	0.000
2021	0.000	0.000	0.000	0.000	0.000	0.000
Accumulated Total	117.092	14.152	0.000	0.000	102.940	0.000

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly						
Month	(g) Metals	(h) Paper/ cardboard packaging	(i) Plastics	(j) Chemical Waste	(k) Recyclable Yard Waste	(l) Others, e.g. General Refuse disposed of at Landfill	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
	generated	generated	generated	generated	generated	generated	
Jan-22	0.000	0.030	0.000	0.000	0.000	140.760	
Feb-22	0.000	0.051	0.000	0.000	0.000	28.180	
Mar-22	0.000	0.000	0.000	0.000	4.430	9.520	
Apr-22	0.000	0.116	0.000	0.000	0.000	0.000	
May-22	0.000	0.010	0.000	0.000	47.010	0.000	
Jun-22	NA	NA	NA	NA	NA	NA	
Sub-total	0.000	0.207	0.000	0.000	51.440	178.460	
Jul-22	NA	NA	NA	NA	NA	NA	
Aug-22	NA	NA	NA	NA	NA	NA	
Sep-22	NA	NA	NA	NA	NA	NA	
Oct-22	NA	NA	NA	NA	NA	NA	
Nov-22	NA	NA	NA	NA	NA	NA	
Dec-22	NA	NA	NA	NA	NA	NA	
Total	0.000	0.207	0.000	0.000	51.440	178.460	
2021	0.000	0.000	0.000	0.000	0.000	0.000	
Accumulated Total	0.000	0.207	0.000	0.000	51.440	178.460	

## Appendix H Complaint Handling Procedure





### Appendix I Event-Action Plan (Air Quality Monitoring)

EVENT		ACTION		
EVENI	ET	IEC	ER	CONTRACTOR
ACTION LEVEL	•	·		
Exceedance for one sample	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform the Contractor, IEC and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures; and</li> <li>Increase monitoring frequency.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method; and</li> <li>Discuss with ET, ER and Contractor on possible remedial measures</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> </ol>	<ol> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Implement remedial measures; and</li> <li>Amend working methods agreed with the ER as appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Repeat measurements to confirm findings;</li> <li>If exceedance is confirmed, inform Contractor, IEC and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Increase monitoring frequency to daily;</li> <li>Advise the Contractor and ER on the effectiveness of the proposed remedial measures;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with Contractor, IEC and ER to discuss the remedial measures to be taken; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method; and</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>In consultation with the ET and IEC agree with the Contractor on the remedial measures to be implemented; and</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal as appropriate.</li> </ol>

EVENT		ACTION							
EVENI	ET	IEC	ER	CONTRACTOR					
LIMIT LEVEL		•	•	•					
Exceedance for one sample	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform the Contractor, IEC, EPD and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial;</li> <li>Increase monitoring frequency to daily; and</li> <li>Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with the ET, ER and Contractor on possible remedial measures;</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Review and agree on the remedial measures proposed by the Contractor; and</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial measures to ER, ET and IEC within three working days of notification for agreement;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if</li> </ol>					
Exceedance for two or more consecutive samples	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform IEC, ER, Contractor and EPD;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures; and</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>appropriate.</li> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial measures to the ER, IEC and ET within three working days of notification for agreement;</li> <li>Implement the agreed proposals;</li> <li>Revise and resubmit proposals if problem still not under control; and</li> <li>Stop the relevant</li> </ol>					

EVENT		ACTION		
EVENI	ET	IEC	ER	CONTRACTOR
	keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.			portion of works as determined by the ER until the exceedance is abated.

Note: ET – Environmental Team; ER – Engineer's Representative; IEC – Independent Environmental Checker

# Appendix J Statistics on Complaint, Notification of Summons and Successful Prosecution

#### **Table J1 Statistical Summary of Exceedance**

Air Quality			
LocationAction LevelLimit LevelTotal			
DM1	0	0	0

#### Table J2 Statistical Summary of Environmental Complaint

Donorting Doriod	Environmental Complaint Statistics						
<b>Reporting Period</b>	Frequency	Cumulative	Complaint Nature				
1 May 2022 	0	0	N/A				

### Table J3 Statistical Summary of Environmental Non-compliance

Departing Devied	<b>Environmental Non-compliance Statistics</b>						
<b>Reporting Period</b>	Frequency	Cumulative	Details				
1 May 2022 - 31 May 2022	0	0	N/A				

#### Table J4 Statistical Summary of Environmental Summons

Departing Deriod		<b>Environmental Summons Statistics</b>						
<b>Reporting Period</b>	Frequency	Cumulative	Details					
1 May 2022 31 May 2022	0	0	N/A					

#### Table J5 Statistical Summary of Environmental Prosecution

Reporting Period	<b>Environmental Prosecution Statistics</b>						
Reporting Period	Frequency	Cumulative	Details				
1 May 2022 31 May 2022	0	0	N/A				

# Appendix K Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Air Quality	v (Construction Phase)						
S3.8.1	Watering once per hour on active works areas, exposed areas and unpaved haul roads during working hours.	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
	<ul> <li>Implementation of dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices should be carried out to further minimize construction dust impact.</li> <li>Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs.</li> <li>Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines.</li> <li>Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> </ul>	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	• Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.						
	• Imposition of speed controls for vehicles on unpaved site roads. 8 kilometres per hour is the recommended limit.						
	• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.						
	• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.						
	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						
	• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Noise Impa	act (Construction Phase)						
S4.5.16	<ul> <li>Implement the following good site practices as far as practicable:</li> <li>Only well-maintained plant should be operated on-site, and plant should be serviced regularly during the construction program;</li> </ul>	To minimise impacts to surrounding habitats	Contractor	All works area	Construction phase	TM-EIAO	Implemented
	• Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program;						
	• Mobile plant, is any, should be sited as far from NSRs as possible;						
	• Machine and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;						
	• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and						
	• Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities.						
S4.5.17	Adopting quiet PME is recommended. The type of quiet PME adopted in this assessment is for reference only. The contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this assessment.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S4.5.19	Use of noise barriers and noise enclosures to provide screening for construction plant where recommended.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	N/A
Water Qual	lity Impact (Construction Phase)					I	
S5.8.4	Surface and road run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	Water Pollution Control Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94, Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)	Implemented
\$5.8.5	Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re- alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S5.8.6	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.7	Earthworks final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
<u>\$5.8.8</u>	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.9	If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries.						
\$5.8.10	Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.11	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.12	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.12	The following mitigation measures related to the transportation of the sediment should be implemented to minimize the potential water quality impact: Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	To minimise impact from transportation of sediment	Contractor	Barging point and barges	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation.</li> <li>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP).</li> </ul>						
S5.8.13	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM- DSS. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.	To minimize impact from effluent discharge	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Approved
S5.8.14	Water for Bored Piling Works Water used in ground boring and drilling for site investigation or rock / soil anchoring should be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	Wheel Washing Water Wash-water from wheel washing facility should have been treated by silt removal facilities before discharging into storm drains. Treated wash-water could be used as dust suppression measures as far as practicable. The section of access road between the wheel washing bay and the public road should be paved to reduce vehicle tracking of soil and to prevent silty water from entering public road and drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
\$5.8.16	<ul> <li><u>Construction Works near Channelized Watercourse / Ditch</u> For minimization of potential water quality impacts from the works to nearby inland channelized watercourse/ditch near SHWSTW, the practices outlined in ProPECC Note PN 1/94 "Construction Site Drainage" and ETWB TC (Works) No.5/2005 "Protection of natural streams / rivers from adverse impacts arising from construction works" should be adopted where applicable. Relevant mitigation measures are listed below:</li> <li>The use of less or smaller construction plants may be specified in works area close to the inland water bodies.</li> <li>Temporary storage of material (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from watercourse/ditch when carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from any watercourse/ditch.</li> <li>Construction debris and spoil should be covered up and / or disposed of as soon as possible to avoid being washed into the nearby water receivers.</li> </ul>		Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS, ETWB TC(Works) No. 5/2005	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	wastewater, should be carried out in a distance away from the watercourse/ditch, where practicable. Construction effluent, site run-off and sewage should be properly collected and / or treated.						
S5.8.17 – S5.8.19	<ul> <li>Accidental Spillage of Chemicals</li> <li>The Contractor should register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied.</li> <li>Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.</li> <li>Disposal of chemical Wastes Should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste</li> <li>Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:</li> <li>Suitable containers should be used to hold the chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the</li> </ul>	To minimise impact from accidental spillage	Contractor	All works area	Construction phase	WPCO, EIAO- TM, Waste Disposal Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation	Implemented

EIA Ref.	<b>Recommended Mitigation Measures</b>	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>wastes, to avoid accidents.</li> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>						
S5.8.22 - S5.8.24	<ul> <li>Groundwater from Contaminated Areas, Contaminated Site Runoff and Wastewater from Land Decontamination</li> <li>Remediation of contaminated land should be properly conducted following the recommendations of Land Contamination Assessment to be conducted in future. Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated runoff. Open stockpiling of contaminated materials should not be allowed. Any contaminated runoff or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF) as necessary. The WTF shall deploy suitable treatment processes (e.g. oil interceptor/ activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment system shall meet the requirements as stated in TM-DSS and should be either discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas, the baseline groundwater quality in these areas should be reviewed based on the past relevant site investigation data and</li> </ul>	To minimise impact from groundwater from contaminated areas, contaminated site run-off/ wastewater from land decontamination	Contractor	All works area confirmed with land contamination	Construction phase	WPCO, EIAO- TM, TM-DSS, Guidance Note for Contaminated Land Assessment	N/A

EIA Ref.	<b>Recommended Mitigation Measures</b>	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	any additional groundwater quality measurements to be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.						
	• If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells, and submit a working plan to EPD for agreement.						

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge points to monitor the effectiveness of the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor.</li> <li>The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater.</li> </ul>						
Waste Mar	nagement Implication (Construction Phase)						
S7.5.3	<ul> <li>Recommendations for good site practices during the construction phase include:</li> <li>Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility;</li> <li>Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures;</li> <li>Provision of sufficient waste reception/ disposal points, and regular collection of waste;</li> <li>Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Provision of regular</li> </ul>	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	Waste Disposal Ordinance (WDO) and Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	cleaning and maintenance programme for drainage systems, sumps and oil interceptors;						
	• Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites); and						
	• Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP)						
S7.5.4	<ul> <li>Recommendations to achieve waste reduction are as follow:</li> <li>Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>	To minimize waste generation	Contractor	All works areas	Construction phase	WDO	Implemented
	• Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;						
	• Recycle any unused chemicals or those with remaining functional capacity;						
	• Maximise the use of reusable steel formwork to reduce the amount of C&D materials;						
	• Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials;						
	• Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; and						
	• Minimize over ordering and wastage through careful planning during purchasing of construction materials.						
S7.5.6	To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D	To minimise the disposal of C&D	Contractor	All works areas	Construction phase	WDO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process.	waste					
S7.5.6	<ul> <li>Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:</li> <li>Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away;</li> <li>Covering materials during heavy rainfall;</li> <li>Locating stockpiles to minimise potential visual impacts;</li> <li>Minimising land intake of stockpile areas as far as possible;</li> <li>Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&amp;D materials; and</li> <li>Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations dump trucks engaged on site.</li> </ul>	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
S7.5.7 to S7.5.9	General refuse should be stored in enclosed bins or compaction units separate from C&D materials and	To avoid and minimize impacts	Contractor	All works areas	Construction phase	WDO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	chemical waste. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D materials and chemical wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials.	arising from waste management					
	The recyclable component of general refuse, such as aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials.						
	The Contractor shall carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins shall also be provided in the sites as reminders.						
S7.5.12	If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
	Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the CWTC, or another licensed facility,						

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul><li>in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li><li>Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable.</li></ul>						
S7.5.13 to S7.5.14	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. For minimization of sediment disposal, beneficial reuse will be considered on site as far as practicable during the construction stage before the disposal of excavated sediment. Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of sediments.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	APCO WDO	N/A
S7.5.15	In order to minimise the exposure to contaminated materials, workers shall, when necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	N/A
\$7.5.20	Stockpiling of contaminated sediments shall be avoided as far as possible. If temporary stockpiling of contaminated sediments is unavoidable, the excavated sediment shall be covered by tarpaulin and the area shall be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiles shall be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas shall be provided for stockpiling of contaminated and	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WPCO	N/A

EIA Ref.	<b>Recommended Mitigation Measures</b>	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	uncontaminated materials. Leachate, if any, shall be collected and discharged according to the Water Pollution Control Ordinance (WPCO).						
\$7.5.21	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO APCO	N/A
Land Cont	amination						
<u>\$8.9.3</u>	To minimise environmental impacts arising from the handling of potentially contaminated materials, the following environmental precautionary measures are recommended to be utilised during the course of any required site remediation:	To control land remediation work	Contractor	Area identified with land contamination	Prior to the commencement of construction works at the contaminated areas	Land Assessment and Remediation"	N/A
	<ul> <li>Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;</li> <li>Establish and maintain a Health and Safety Plan with the information below before commencement of the SI: <ul> <li>(a) Instruction of works on work procedures, safe practices, emergency duties, and applicable regulations;</li> <li>(b) Desployly eshedded meetings of the meeters in</li> </ul></li></ul>					"Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management	
	<ul><li>(b) Regularly scheduled meetings of the workers in which the possible hazards, problems of the job, and related safe practices are emphasized and discussed;</li><li>(c) Good housekeeping practices; and</li></ul>					"Public Cleansing and Prevention of Nuisances	

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	(d) Availability of and instruction in the location, use and maintenance of personal protective equipment.					Regulation (Cap. 132BK)"	
	<ul> <li>Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils;</li> <li>Supply of suitable clean backfill material (or treated soil) after excavation;</li> <li>Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular watering shall be applied. However, watering shall be minimized on the prime of the prime of</li></ul>					APCO, WDO and WPCO	
	<ul> <li>avoided on stockpiles of contaminated soil to minimise contaminated runoff;</li> <li>Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions;</li> <li>Speed control for the trucks carrying contaminated materials shall be enforced;</li> <li>Vehicle wheel and body washing facilities at the site</li> </ul>						
	<ul> <li>Vehicle wheel and body washing facilities at the site exist points shall be established and used; and</li> <li>Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.</li> </ul>						
-	and Visual Impact (Construction Phase)						
S9.8.1	Trees unavoidably affected by the works should be	To transplant	Contractor	All works areas	Construction phase	DEVB TC(W)	N/A

EIA Ref.	<b>Recommended Mitigation Measures</b>	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	transplanted as far as possible in accordance with DEVB TC(W) 7/2015 – Tree Preservation or LAO PN 7/2007 - Tree Preservation and Tree Removal Application for Building Development in Private Projects where applicable.	affected trees				No. 7/2015 or LAO PN 7/2007 where applicable	
S9.8.1	Control of night-time lighting glare.	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works areas	Construction phase	TM-EIAO	N/A
S9.8.1	Erection of decorative screen hoarding which should be compatible with the surrounding setting.	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works areas	Construction phase	TM-EIAO	N/A
S9.8.1	Management of facilities on work sites by controlling the height and disposition/arrangement of all facilities on the works site to minimize visual impact to adjacent VSRs.	To minimize visual impact to adjacent VSRs.	Contractor	All works areas	Construction phase	-	N/A
S9.8.1	All hard and soft landscape areas disturbed temporarily during construction should be reinstated on like-to-like basis, to the satisfaction of the relevant Government Departments.	To minimize the landscape impact on surrounding setting	Contractor	All works areas	Construction phase	-	To be implemented

# Appendix L Monitoring Schedule of the Reporting Month

### Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Dust and Noise Monitoring Schedule in May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-May	2-May	3-May	4-May	5-May	6-May	7-May
					1-hr Dust Monitoring	
8-May	9-May	10-May	11-May	12-May	13-May	14-May
				1-hr Dust Monitoring		
15-May	16-May	17-May	18-May	19-May	20-May	21-May
			1-hr Dust Monitoring			
22-May	23-May	24-May	25-May	26-May	27-May	28-May
		1-hr Dust Monitoring				
29-May	30-May	31-May				
	1-hr Dust Monitoring					

# Appendix M Monitoring Schedule of the Coming Month

#### Consultancy Agreement No.NEX/1062

### Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in June 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jun	2-Jun	3-Jun	4-Jun
						1-hr Dust Monitoring
5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun
				1-hr Dust Monitoring		
12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun
			1-hr Dust Monitoring			
19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun
		1-hr Dust Monitoring				
26-Jun	27-Jun	28-Jun	29-Jun	30-Jun		
	1-hr Dust Monitoring					

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix B

Monthly EM&A Report for May 2022 – Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks Works Contract 1733



MTR Corporation Limited Siu Ho Wan Depot Property Development -Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks Monthly EM&A Report (Period from 1 to 31 May 2022)

Prepared by

**SGS Hong Kong Limited** 

MTR Corporation Limited

#### **Issue and Revision Record**

Revision	Description	Prepared by	Checked by	Approved by	Date
01	Submission	Various	Roy Hung AJ	Grace Fung , L	Jun 2022

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### EXECUTIVE SUMMARY

SGS Hong Kong Limited. ("SGS") has been commissioned by the Build King Civil Engineering Limited, to undertake the Environmental Team (ET) services to carry out environmental monitoring and audit (EM&A) for Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks (hereafter referred to as the "Project").

This is the 2<sup>nd</sup> monthly EM&A report for the project submitted under Condition 3.4 of the Environmental Permit (No. EP-588/2021). This report summarises the findings on EM&A during the period from 1 to 31 May 2022.

#### **Exceedance of Action and Limit Levels**

The summary of measured 1-hour TSP level is presented in Section 3.

No exceedance of Action or Limit Levels for 1-hour TSP levels were recorded in the Reporting Period.

#### Waste Management

Details of waste management are presented in Section 4.

#### **Record of Complaints**

There was no record of complaints received in the Reporting Period.

#### **Record of Notification of Summons and Successful Prosecutions**

There were no record of notification of summons and successful prosecution in the Reporting Period.

#### **Reporting Changes**

There are no reporting changes.

#### Site inspection

In the Reporting Period, joint site inspections were undertaken by the representatives of the Contractor, Engineer, IEC and Contractor's ET on 23 May 2022. During site inspection, non-compliance was not observed by the ET and IEC.

#### **Future Key Issues**

- Site Clearance
- Erection of site hoarding
- Site accommodation set up



## 1. **PROJECT INFORMATION**

The Project involves the construction of vehicular access bridge, demolition of paint shop and construction of engineering vehicle (EV) stabling tracks.

The Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works Environmental Impact Assessment Report was approved with conditions by the Environmental Protection Department (EPD) on 29 Nov 2017. The latest Environmental Permit (No. EP-588/2021) was issued by the EPD on 22 March 2021.

SGS Hong Kong Limited (SGS) has been commissioned by Build King Civil Engineering Limited to undertake the Environmental Team (ET) services to carry out environmental monitoring and audit for this project.

The Project covers the following construction activities:

- Site clearance & hoarding /UU/ Cable Trenches
- Paint shop demolition
- Excavation (Soil)
- Substructure (footings, pile caps, columns, abutments)
- Backfilling
- Superstructure (Vehicle Bridge Spans)
- EV Tracks Formation and Track installation

The construction programme is presented in Appendix A

A summary of the major construction activities undertaken in this reporting period (from 1 to 31 May 2022) is shown in below:

- Site Survey
- Tree Survey
- Site Clearance
- Paint Shop Demolition

The project organizational chart specifying management structure and contact details are shown in **Appendix B**.

A summary of the valid permits, licenses, and /or notifications on environmental protection for this Project is presented in **Table 1.1**.



## Table 1.1 Summary of Status of Required Submission for EP-588/2021 for the Project

Type of Permit/ License	Permit No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	EP-588/2021	22 March 2021	N/A	Valid
Wastewater Discharge License	Ref.: 478318	(Pending)	(Pending)	Application submitted on 4 Apr 2022
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation	Ref.: 477410	N/A	N/A	Notification submitted on 3 Mar 2022
Chemical Waste Producer Registration	WPN5213-961- B2653-01	15 Feb 2022	N/A	Valid
Billing Account for Disposal of Construction Waste	7043460	18 Mar 2022	N/A	Valid
Construction Noise Permit	GW-RS0385-22	19 May 2022	15 Nov 2022	Valid

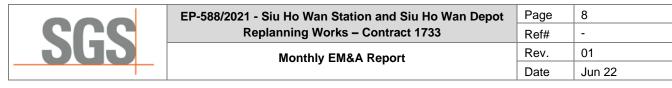


## 2. ENVIRONMENTAL STATUS

Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (No. EP-588/2021) as of the reporting period for the Project are summarised in **Table 2.1**.

EP Condition	Submission	Submission Date
1.12	Commencement Date of Construction	11 Jun 2021 (1st submission)
		12 Jul 2021 (2nd submission)
		12 Aug 2021 (3rd submission)
2.7	Construction Works Phasing Schedule	1 Nov 2021 (1st submission)
		20 Dec 2021 (2nd submission)
		29 Dec 2021 (Deposited)
2.8	Environmental Permit Submission Schedule	12 Aug 2021
		10 Sep 2021 (Deposited)
2.9	Management Organization	1 Nov 2021 (1st Submission)
		20 Dec 2021 ( 2nd Submission)
		21 Mar 2022 (3rd Submission)
2.10	Construction Noise Mitigation Plan	1 Nov 2021 (1st submission)
		20 Dec 2021 (2nd submission)
		28 Dec 2021 (Deposited)
2.13	Waste Management Plan	1 Nov 2021 (1st submission)
		20 Dec 2021 (2nd submission)
		28 Dec 2021 (Deposited)

Table 2.1 Summary of Status of Required Submission for EP-588/2021 for the Project



3.3	Baseline Monitoring Report	1 Nov 2021 16 Nov 2021 (Deposited)
3.4	Monthly Monitoring Report (May 2022)	To be submitted within 10 working days after the end of the reporting month
4.2	Dedicated Internet Website	12 Jan 2022

The drawings showing the project layout and the location of the monitoring station are attached in **Appendix C** and **Appendix D**, respectively. A summary of the monitoring location is shown in **Table 2.2**.

## Table 2.2 Summary of the location of the monitoring station

Air Sensitive Receiver (ASR) ID No. in EIA	Monitoring Station	Description
A2	DM1	Siu Ho Wan Government Maintenance Depot



### 3. AIR QUALITY MONITORING

#### MONITORING REQUIREMENTS, FREQUENCY AND DURATION

The impact monitoring had been carried out in accordance with Section 2.6 of the approved EM&A Manual, with sampling frequency of at least 3 times in every 6 days undertaken, to determine the 1-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting period.

General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

#### **Monitoring Equipment**

Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Portable direct reading dust meters used in this monitoring were proven to the IEC to be capable of achieving comparable result as that of the HVS and, thus, were used for sampling. The equipment used for 1-hour TSP measurement during the reporting month are summarised in **Table 3.1**.

Measuring	Monitoring		Monitoring Brand		Model No.	Calibration
Parameter	Equipment					Date
1-hour TSP	Portable	direct	Sibata	Digital	A.005.11a	4 May 2022
	reading dust	meter	Dust	Monitor		
	(1-hour TSP)		(Model	No. LD-		
			3)			
1-hour TSP	Portable	direct	Sibata	Digital	A.005.16a	4 May 2022
	reading dust	meter	Dust	Monitor		
	(1-hour TSP)		(Model	No. LD-		
			3)			

#### Table 3.1 Construction Dust Monitoring Equipment

The portable direct reading dust meter was calibrated at 1-year interval against a High Volume Sampler, TE-5170. Copies of calibration certificates of the portable direct reading dust meter are presented in **Appendix E**.

#### Field Monitoring Methodology

The 1-hour TSP measurement followed manufacturer's instruction manual. Before initiating a measurement, zeroing the Portable direct reading dust meter was carried out to ensure maximum accuracy of concentration measurements.

The 1-hour TSP was sampled by drawing air into the portable direct reading dust meter where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by



the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

## **Monitoring Location**

Location of the designated dust monitoring station is described in Table 3.2.

## Table 3.2 Location of the designated dust monitoring station

Monitoring Station ID	Dust Monitoring Station
DM1	Siu Ho Wan Government Maintenance Depot

## Result Summary

Dust impact monitoring was carried out at DM1 on 6, 12, 18, 24 and 30 May 2022 during the reporting month (**Appendix L**). According to our field observations, the major dust sources identified included vehicular emissions from North Lantau Highway and Cheung Tung Road. Gentle wind was recorded throughout the monitoring period, with gentle to strong wind recorded occasionally.

The results for 1 - hour TSP are summarized in **Table 3.3**. The measurement data is presented in **Appendix F** 

## Table 3.3 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range (µg/m3)	Action Level	Limit Level	No. of
		(µg/m3 )	(µg/m3 )	Exceedances
DM1	60.7 – 69.1	294.7	500	0



## 4. WASTE MANAGEMENT

The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Noninert 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 summarized in Table 4.1. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

Table 4.1 Quantities of waste generated from the Project

Month	Actual Quan	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly							
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse					
	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in kg]	[in kg]	[in kg]	[in Tonne]					
May	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.06					

All dump trucks for C&D materials transportation and disposal will be equipped with Global Positioning System (GPS) for real time tracking and monitoring their travel routings and parking locations in order to avoid illegal dumping or landfilling of C&D materials. As no waste was generated in this reporting period, there are no data collected by GPS



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

The Environmental Complaint Handling Procedure is shown in **Appendix H**.

Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix I** shall be carried out.

No exceedance of the Action and Limit Levels of 1-hour TSP was recorded during the reporting month.

No complaint or non-compliance was reported in the reporting month.

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

Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix J**.



## 6. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, five (5) site inspections were carried out on 5, 10, 16, 23 and 30 May 2022. One joint site inspection with the IEC also undertaken on 23 May 2022 with engineer, IEC, contractor and contractor's ET. No observations and reminders were reported during the weekly site inspection. Key observations during the site inspections are summarized in **Table 6.1**.

#### Table 6.1 Site Observations

Date	Observation or Reminder	Follow-up Status
5 May 2022	None	None
10 May 2022	None	None
16 May 2022	<ol> <li>Environmental Permit (EP) shall display at the entrance of the project site.</li> </ol>	<ol> <li>EP has been displayed at the entrance of the project site appropriately.</li> </ol>
23 May 2022	None	None
30 May 2022	None	None

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix K**.



## 7. FUTURE KEY ISSUES

Work to be undertaken in the next reporting month are:

- Site Clearance
- Erection of site hoarding
- Site accommodation set up

The tentative schedule of regular 1-hour TSP monitoring in the next reporting period is presented in **Appendix M**.



## 8. CONCLUSION AND RECOMMENDATION

This 2<sup>nd</sup> monthly EM&A Report presents the EM&A works undertaken during the period from 1 May to 31 May 2022 in accordance with the EM&A Manual and the requirement under EP-588/2021.

Air quality (including 1-hour TSP) impact monitoring was carried out in the reporting period. No exceedance of the Action and Limit Levels was recorded for air quality impact monitoring during the reporting period.

Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 23 May 2022. No observations and reminders were reported during the site inspections. The environmental performance of the Project was therefore considered satisfactory.

No complaint or non-compliance was reported in the reporting month.

No notification of summons or prosecution was received in the reporting month.

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

The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.



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## **APPENDIX A – CONSTRUCTION PROGRAMME**



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EP-588/2021 - Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works – Contract 1733	Ref#	-
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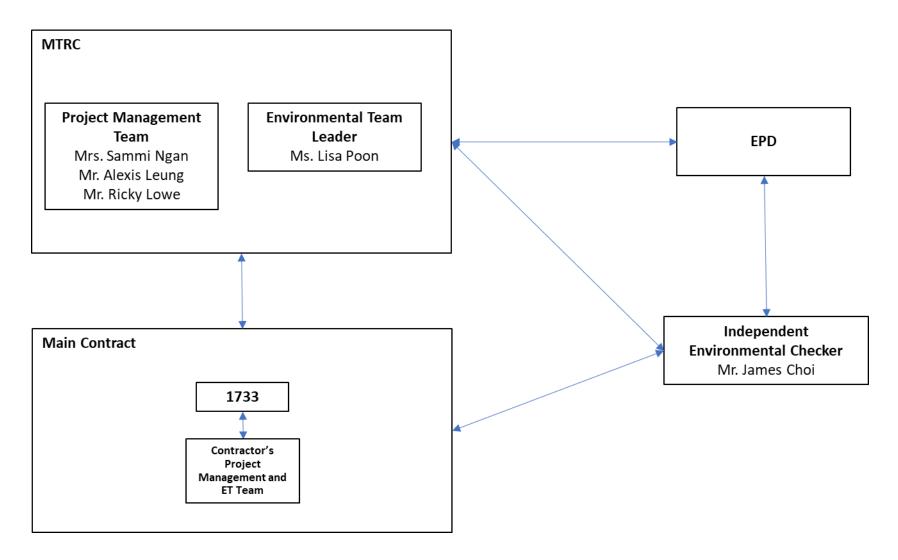
Construction Activities					2021					1 1	1 1		022	1					1 1	2023			
		JF	М	A M	J	JA	S (	D N I	J	FN	A	M J	J	A S	0	N D	JF	M	A M	JJ	A S	S O	N D
Contract 1733 - Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks	3																						
Site Clerance & Hoarding / UU / Cable Trenches	3.1																						
Paint Shop Demolition	3.2																						
Excavation (Soil)	3.3																						
Substructure (footing, pile caps, columns, abutments)	3.4																						
Backfilling	3.5																						
Superstructure (Vehicular Bridge Spans)	3.6																						
EV Tracks - Formation and Track Installation	3.7																						



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### **APPENDIX B – PROJECT ORGANIZATION CHART**

	ED 500/2024 - Six U.S. Was Station and Six U.S. Was Danat Danlaming Works - Contract 4722	Page	B-2
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MTR's Contact:

MTRC - Project Management Team									
Position	Name	Telephone							
Chief Project Co-ordination Manager	Mrs. Sammi Ngan	2208 3753							
Senior Project Manager-Property	Mr. Alexis Leung	2993 8028							
Senior Design Manager-Civil	Mr. Ricky Lowe	2208 3347							

MTRC - Environmental Team		
Position	Name	Telephone
Environmental Team Leader	Ms. Lisa Poon	3127 6295
Environmental Team Member	Mr. Cyrus Lau	2688 1713

ANewR Consulting Limited - IEC		
Position	Name	Telephone
Independent Environmental Checker	Mr. James Choi	2618 2836

Contractor's Contact

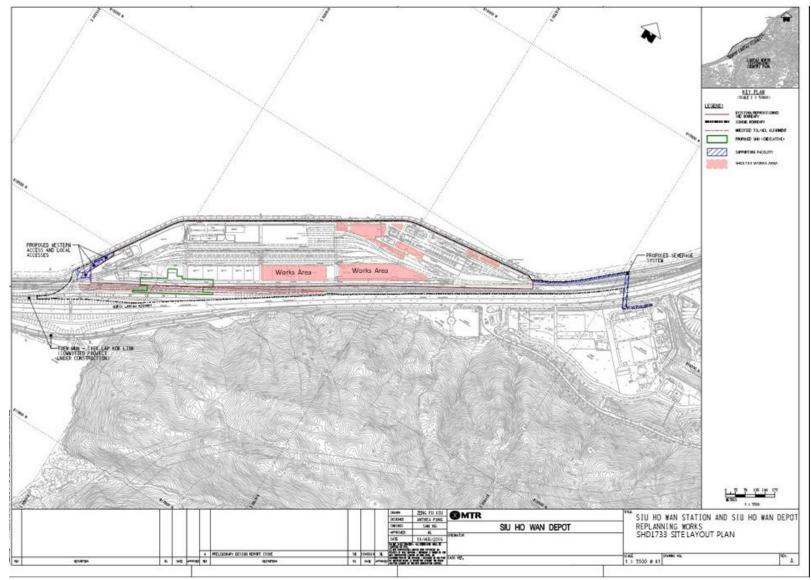
Main Works Contract	Description	Contractor	Position	Name	Telephone
1733	Vehicular access bridge, demolition of paint shop and	Build King Civil Engineering	Project Manager Environmental Manager	Andy Yu Louisa Fung	9648 4896 9271 5370
1755	construction of engineering vehicle stabling tracks	Ltd	Environmental Team Leader	Roy Hung	2204 8305



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## APPENDIX C - ALIGNMENT AND WORKS AREA FOR CONTRACT NO. 1733

000	ED 599/2024 Sin He Was Station and Sin He Was Depart Deplemning Waska Contract 1722	Page	C-2
	EP-588/2021 - Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works – Contract 1733	Ref#	-
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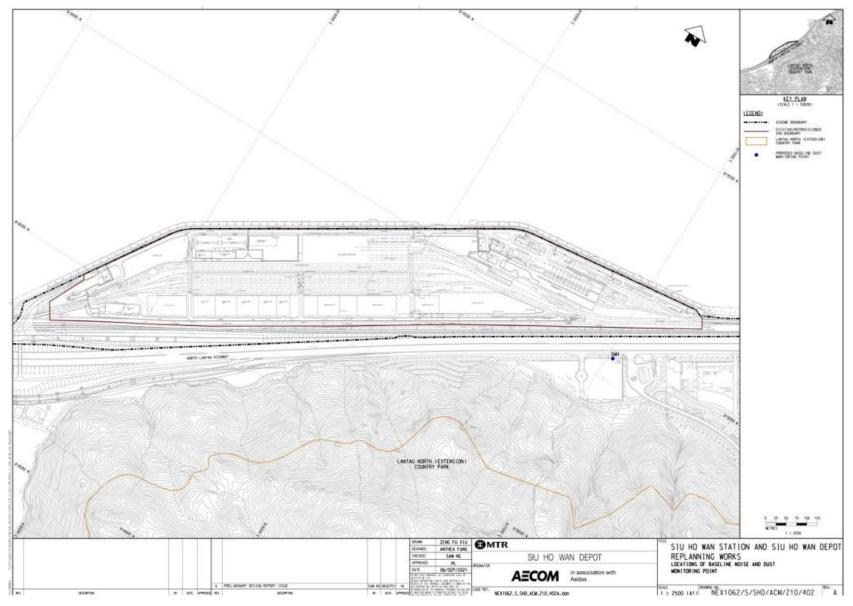




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## APPENDIX D - LOCATION PLAN OF AIR QUALITY MONITORING STATION

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## APPENDIX E - CALIBRATION CERTIFICATES (AIR QUALITY MONITORING EQUIPMENT)



#### EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor	
Manufacturer/Brand:	SIBATA	
Model No.:	LD-3	
Equipment No.:	A.005.11a	
Sensitivity Adjustment Scale Setting:	799 CPM	
Operator:	WS CHAN	
Standard Equimment		
Equipment:	High Volume Sampler	
Venue:	Fanling Government Secondary School	
Model No.:	TE-5170	
Serial No.:	3154	
Last Calibration Date:	28-Apr-22	

#### Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799 CPM 799 CPM

Hour	Date	Time	Ambient	Condition	Concentration(1)	Total Count(2)	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3) Y-axis		Minute③ X-axis
1	03/05/22	9:30-10:30	26.0	60	0.0490	1920	32.00
2	03/05/22	10:30-11:30	26.0	60	0.0500	2010	33.50
3	03/05/22	11:30-12:30	26.0	60	0.0520	2140	35.67
4	03/05/22	12:30-13:30	26.0	60	0.0540	2290	38.17

3-May-23

Note:

1 Monitoring data was measured by High Volume Sampler

2 Total Count was logged by Laser Dust Monitor 3 Count/minute was calculated by (Total Count/60)

inear Regression of Y on X	
Slope (K-factor):	0.0015
Correlation coefficient:	0.9991

Validity of Calibration Record:

Remarks:

QC Reviewer:

Fing Signature: \_\_\_\_\_ Date: 4 May 22



#### EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor					
Manufacturer/Brand:	SIBATA					
Model No.:	LD-3B					
Equipment No.:	A.005.16a					
Sensitivity Adjustment Scale Setting:	521 CPM					
Operator:	WS CHAN					
Standard Equimment						
Equipment:	High Volume Sampler					
Venue:	Fanling Government Secondary School					
Model No.:	TE-5170					
Serial No.:	3154					
Last Calibration Date:	28-Apr-22					

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

CPM 521 521 CPM

Hour	Date	Time	Ambient Condition		Concentration ①	Total Count(2)	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute(3)
					Y-axis		X-axis
1	03/05/22	9:30-10:30	26.0	60	0.0490	1850	30.83
2	03/05/22	10:30-11:30	26.0	60	0.0500	1980	33.00
3	03/05/22	11:30-12:30	26.0	60	0.0520	2070	34.50
4	03/05/22	12:30-13:30	26.0	60	0.0540	2160	36.00

Note:

Monitoring data was measured by High Volume Sampler

(2) Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60)

By Linear Regression of Y on X

Slope (K-factor):	0.0015
Correlation coefficient:	0.9995
Calibration Record:	3-May-23

Validity of Calibration Record:

Remarks:

QC Reviewer:

whin

Signature:

Date: 4000yz2



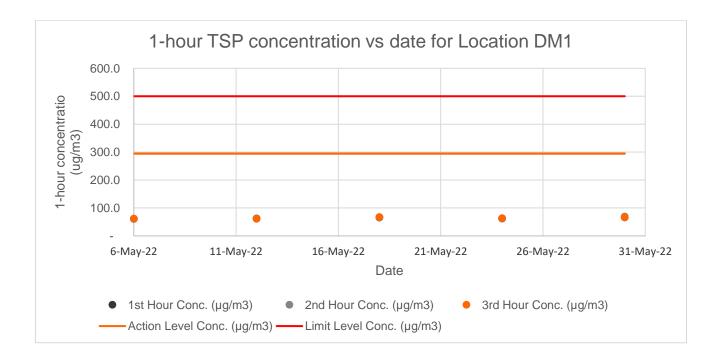
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## APPENDIX F – MONITORING DATA (AIR QUALITY MONITORING)



i							
		1st	2nd	3rd	Action	Limit	
	Start	Hour	Hour	Hour	Level	Level	Exceedance
	Time	Conc.	Conc.	Conc.	Conc.	Conc.	(Y/N)
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(1714)
6-May-22	13:15	61.0	60.7	61.6			N
12-May-22	11:25	61.7	62.7	61.1			Ν
18-May-22	10:45	66.2	65.3	67.8	294.7	500	N
24-May-22	10:55	62.2	61.7	63.6			Ν
30-May-22	10:30	66.6	69.1	67.2			Ν
			Average	63.9			
			Min	60.7			
			Max	69.1			

### The Summary of 1-hour TSP Concentration ( $\mu$ g/m3) at Location DM1





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### APPENDIX G – WASTE FLOW TABLE



## Monthly Summary Waste Flow Table for 2022 Year

	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of <u>Non-inert</u> C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in kg]	[in kg]	[in kg]	[in Tonne]
Jan											
Feb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Мау	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.06
June											
SUB- TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.06
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.06

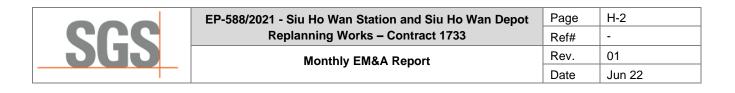
Note: Plastics refer to plastic bottles / containers, plastic sheets / foam from

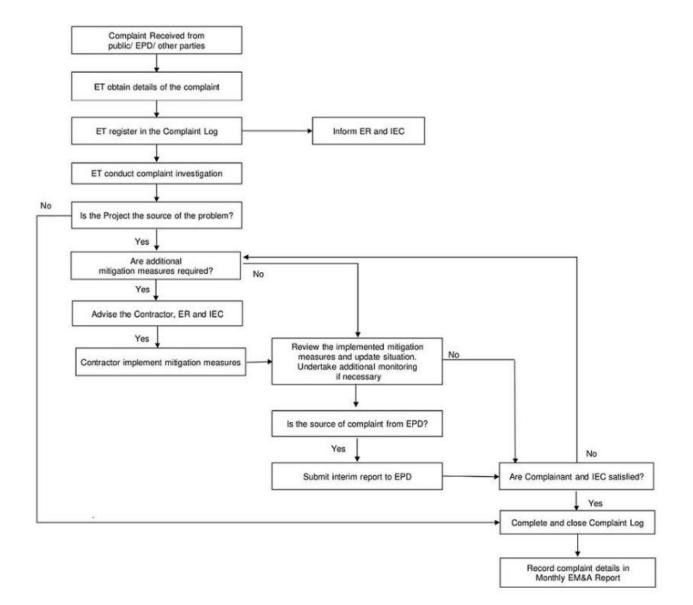
packaging material



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# **APPENDIX H - COMPLAINT HANDLING PROCEDURE**







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# APPENDIX I - EVENT-ACTION PLAN (AIR QUALITY MONITORING)"



Monthly	EM&A	Report
---------	------	--------

EVENT				
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform the Contractor, IEC and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures; and</li> <li>Increase monitoring frequency.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method; and</li> <li>Discuss with ET, ER and Contractor on possible remedial measures</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> </ol>	<ol> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Implement remedial measures; and</li> <li>Amend working methods agreed with the ER as appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Repeat measurements to confirm findings;</li> <li>If exceedance is confirmed, inform Contractor, IEC and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Increase monitoring frequency to daily;</li> <li>Advise the Contractor and ER on the effectiveness of the proposed remedial measures;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with Contractor, IEC and ER to</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method; and</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>In consultation with the ET and IEC agree with the Contractor on the remedial measures to be implemented; and</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal as appropriate.</li> </ol>



EVENT	ACTION			
EVENT	ET discuss the remedial measures to be taken; and 8. If exceedance stops, cease additional monitoring.	IEC	ER	CONTRACTOR
LIMIT LEVEL				
Exceedance for one sample	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform the Contractor, IEC, EPD and ER;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial;</li> <li>Increase monitoring frequency to daily; and</li> <li>Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness.</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with the ET, ER and Contractor on possible remedial measures;</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Review and agree on the remedial measures proposed by the Contractor; and</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial measures to ER, ET and IEC within three working days of notification for agreement;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Repeat measurement to confirm findings;</li> <li>If exceedance is confirmed, inform IEC, ER, Contractor and EPD;</li> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> </ol>	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures; and</li> </ol>	<ol> <li>Identify source(s) and investigate the causes of exceedance;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial measures to the ER, IEC and ET within three working days of notification for agreement;</li> </ol>



EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
	<ol> <li>Increase monitoring frequency to daily;</li> </ol>	effectiveness and advise the ER accordingly; and	<ol> <li>If exceedance continues, consider what portion of the</li> </ol>	<ol> <li>Implement the agreed proposals;</li> </ol>
	5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;	4. Supervise the implementation of remedial measures.	work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	<ol> <li>Revise and resubmit proposals if problem still not under control; and</li> <li>Stop the relevant portion of works as determined by the</li> </ol>
	<ol> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of</li> </ol>			ER until the exceedance is abated.

Note: ET – Environmental Team; ER – Engineer's Representative; IEC – Independent Environmental Checker

Contractor's remedial actions and keep IEC, EPD and ER informed of the

8. If exceedance stops,

cease additional monitoring.

results; and



# APPENDIX J - STATISTICS ON COMPLAINT, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION



## Statistic Summary of Exceedance

Air Quality				
Location Action Level Limit Level Total				
DM1	0	0	0	

# Statistical Summary of Environmental Complaint

	Environmental Complaint Statistics		
Reporting Period	Frequency	Cumulative	Complaint Nature
1 May 2022 – 31 May 2022	0	0	0

# Statistical Summary of Environmental Non-compliance

	Environmental Non-compliance Statistics		
Reporting Period	Frequency	Cumulative	Complaint Nature
1 May 2022 – 31 May 2022	0	0	0

## Statistical Summary of Environmental Summons

	Environmental Summons Statistics		
Reporting Period	Frequency	Cumulative	Complaint Nature
1 May 2022 – 31 May 2022	0	0	0

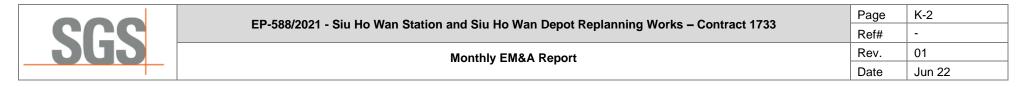
SGS	EP-588/2021 - Siu Ho Wan Station and Siu Ho Wan Depot	Page	J-3
	Replanning Works – Contract 1733	Ref#	-
	Monthly EM&A Report	Rev.	01
	······, _····	Date	Jun 22

# Statistical Summary of Environmental Prosecution

Dementing Deviad	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Complaint Nature				
1 May 2022 – 31 May 2022	0	0	0				



# **APPENDIX K - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)**



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Air Quality	y (Construction Phase)						
S3.8.1	Watering once per hour on active works areas, exposed areas and unpaved haul roads during working hours.	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
S3.8.9	<ul> <li>Implementation of dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices should be carried out to further minimize construction dust impact.</li> <li>Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs.</li> <li>Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines.</li> <li>Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points,</li> </ul>		Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.						
	<ul> <li>Imposition of speed controls for vehicles on unpaved site roads. 8 kilometres per hour is the recommended limit.</li> </ul>						
	• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.						
	• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.						
	• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						
	• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						
Noise Impa	act (Construction Phase)		•				
\$4.5.16	<ul> <li>Only well-maintained plant should be operated on-site,</li> </ul>	To minimise impacts to surrounding habitats	Contractor		Construction phase	TM-EIAO	Implemented
	<ul> <li>Only well-maintained plant should be operated on-site, and plant should be serviced regularly during the</li> </ul>	habitats					



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	construction program;						
	<ul> <li>Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program;</li> </ul>						
	<ul> <li>Mobile plant, is any, should be sited as far from NSRs as possible;</li> </ul>						
	<ul> <li>Machine and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> </ul>						
	<ul> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and</li> </ul>						
	<ul> <li>Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities</li> </ul>						
S4.5.17	Adopting quiet PME is recommended. The type of quiet PME adopted in this assessment is for reference only. The contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this assessment.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	Implemented
\$4.5.19	Use of noise barriers and noise enclosures to provide screening for construction plant where recommended.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	N/A
Water Qual	ity Impact (Construction Phase)		I	<u> </u>	I	1	I
S5.8.4	Surface and road run-off from construction sites should be discharged into storm drains via adequately designed	To minimise impact from	Contractor	All works area	Construction phase	Water Pollution Control	To be



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.					Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94, Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)	implemented
\$5.8.5	Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re- alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented
\$5.8.6	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.						
S5.8.7	Earthworks final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented
S5.8.8	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented
S5.8.9	If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A
S5.8.10	Open stockpiles of construction materials (e.g. aggregates,	To minimise	Contractor	All works area	Construction	WPCO,	To be



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	impact from construction site run-off			phase	EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
\$5.8.11	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
\$5.8.12	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
\$5.8.12	<ul> <li>The following mitigation measures related to the transportation of the sediment should be implemented to minimize the potential water quality impact:</li> <li>Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.</li> <li>The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation.</li> <li>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as</li> </ul>	impact from transportation of sediment	Contractor	Barging point and barges	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	specified by the Director of Environmental Protection (DEP).						
S5.8.13	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM- DSS. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.	impact from	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Pending for approval
S5.8.14	Water for Bored Piling Works Water used in ground boring and drilling for site investigation or rock / soil anchoring should be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented
S5.8.15	Wheel Washing Water Wash-water from wheel washing facility should have been treated by silt removal facilities before discharging into storm drains. Treated wash-water could be used as dust suppression measures as far as practicable. The section of access road between the wheel washing bay and the public road should be paved to reduce vehicle tracking of soil and to prevent silty water from entering public road and drains.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S5.8.16	For minimization of potential water quality impacts from the	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS, ETWB TC(Works) No. 5/2005	Implemented
S5.8.17 – S5.8.19	<ul> <li>Accidental Spillage of Chemicals</li> <li>The Contractor should register as a chemical waste producer if chemical wastes would be produced from</li> </ul>		Contractor	All works area	Construction phase	WPCO, EIAO- TM, Waste Disposal	Implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied.</li> <li>Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.</li> <li>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste</li> <li>Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:</li> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>					Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation	
\$5.8.22 - \$5.8.24	Groundwater from Contaminated Areas, Contaminated SiteRunoff and Wastewater from Land Decontamination• Remediation of contaminated land should be properly	To minimise impact from groundwater from	Contractor	All works area confirmed with land	Construction phase	WPCO, EIAO- TM, TM-DSS, Guidance	N/A



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01 Jun 22 Date

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>conducted following the recommendations of Land Contamination Assessment to be conducted in future. Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated runoff. Open stockpiling of contaminated materials should not be allowed. Any contaminated runoff or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF) as necessary. The WTF shall deploy suitable treatment processes (e.g. oil interceptor/ activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment system shall meet the requirements as stated in TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.</li> <li>No direct discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas, the baseline groundwater quality in these areas should be reviewed based on the past relevant site investigation data and any additional groundwater quality measurements to be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be either properly recharged into the ground in compliance with</li> </ul>	areas, contaminated site run-off/ wastewater from land decontamination		contamination		Note for Contaminate d Land Assessment	



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.</li> <li>If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater duality will not be affected by the recharge operation as indicated in section 2.3 of TM-DSS. The baseline groundwater to be recharge wells, and submit a working plan to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor.</li> </ul>						



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater.</li> </ul>						
Waste Man	agement Implication (Construction Phase)			1	l	1	1
\$7.5.3	<ul> <li>site practices, arrangements for waste collection and effective disposal to an appropriate facility;</li> <li>Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures;</li> <li>Provision of sufficient waste reception/ disposal points, and regular collection of waste;</li> <li>Adoption of appropriate measures to minimise windblown litter and dust during transportation of wastes in enclosed containers; Provision of regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> <li>Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites); and</li> <li>Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP)</li> </ul>	management	Contractor	All works areas	Construction phase	Waste Disposal Ordinance (WDO) and Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)	Implemented
S7.5.4	<ul> <li>Recommendations to achieve waste reduction are as follow:</li> <li>Segregate and store different types of construction</li> </ul>		Contractor	All works areas	Construction phase	WDO	Implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;						
	<ul> <li>Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;</li> </ul>						
	<ul> <li>Recycle any unused chemicals or those with remaining functional capacity;</li> </ul>						
	<ul> <li>Maximise the use of reusable steel formwork to reduce the amount of C&amp;D materials;</li> </ul>						
	<ul> <li>Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials;</li> </ul>						
	<ul> <li>Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; and</li> </ul>						
	<ul> <li>Minimize over ordering and wastage through careful planning during purchasing of construction materials.</li> </ul>						
S7.5.6	To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process.	To minimise the disposal of C&D waste	Contractor	All works areas	Construction phase	WDO	Implemented
\$7.5.6	Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:		Contractor	All works areas	Construction phase	WDO	Implemented



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away;</li> </ul>	arising from waste management					
	<ul> <li>Covering materials during heavy rainfall;</li> </ul>						
	<ul> <li>Locating stockpiles to minimise potential visual impacts;</li> </ul>						
	<ul> <li>Minimising land intake of stockpile areas as far as possible;</li> </ul>						
	<ul> <li>Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&amp;D materials; and</li> </ul>						
	<ul> <li>Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site.</li> </ul>						
\$7.5.7 to \$7.5.9	separately from C&D materials and chemical wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. The recyclable component of general refuse, such as	To avoid and minimize impacts arising from waste management	Contractor		Construction phase	WDO	Implemented
	aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be						



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials.						
	The Contractor shall carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins shall also be provided in the sites as reminders.						
\$7.5.10 to \$7.5.12	If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
	Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed collector. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.						
	Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable.						
\$7.5.13 to \$7.5.14	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. For minimization of sediment disposal, beneficial reuse will be considered on site as far as practicable during the construction stage before the disposal	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	APCO WDO	N/A



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	of excavated sediment.						
	Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of sediments.						
\$7.5.15	In order to minimise the exposure to contaminated materials, workers shall, when necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WDO	N/A
\$7.5.20	Stockpiling of contaminated sediments shall be avoided as far as possible. If temporary stockpiling of contaminated sediments is unavoidable, the excavated sediment shall be covered by tarpaulin and the area shall be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiles shall be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas shall be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, shall be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WPCO	N/A
\$7.5.21	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WDO APCO	N/A



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	water.						
Land Cont	amination			1	1	1	
S8.9.3	<ul> <li>To minimise environmental impacts arising from the handling of potentially contaminated materials, the following environmental precautionary measures are recommended to be utilised during the course of any required site remediation:</li> <li>Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;</li> <li>Establish and maintain a Health and Safety Plan with the information below before commencement of the SI: (a) Instruction of works on work procedures, safe practices, emergency duties, and applicable regulations; (b) Regularly scheduled meetings of the workers in which the possible hazards, problems of the job, and related safe practices are emphasized and discussed; (c) Good housekeeping practices; and (d) Availability of and instruction in the location, use and maintenance of personal protective equipment.</li> <li>Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils;</li> <li>Supply of suitable clean backfill material (or treated soil) after excavation;</li> <li>Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular</li> </ul>		Contractor	Area identified with land contamination	Prior to the commencement of construction works at the contaminated areas	"Guidance Note for Contaminated Land Assessment and Remediation" "Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management "Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)" APCO, WDO and WPCO	N/A



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	<ul> <li>watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff;</li> <li>Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions;</li> <li>Speed control for the trucks carrying contaminated materials shall be enforced;</li> <li>Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and</li> <li>Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.</li> </ul>						
Landscape	and Visual Impact (Construction Phase)						
S9.8.1	Trees unavoidably affected by the works should be transplanted as far as possible in accordance with DEVB TC(W) 7/2015 – Tree Preservation or LAO PN 7/2007 - Tree Preservation and Tree Removal Application for Building Development in Private Projects where applicable.	To transplant affected trees	Contractor	All works areas	Construction phase	DEVB TC(W) No. 7/2015 or LAO PN 7/2007 where applicable	N/A
S9.8.1	Control of night-time lighting glare.	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works areas	Construction phase	TM-EIAO	N/A
S9.8.1	Erection of decorative screen hoarding which should be compatible with the surrounding setting.	To minimize the Landscape and visual impact on	Contractor	All works areas	Construction phase	TM-EIAO	N/A



EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
		surrounding setting					
S9.8.1	Management of facilities on work sites by controlling the height and disposition/arrangement of all facilities on the works site to minimize visual impact to adjacent VSRs.	To minimize visual impact to adjacent VSRs.	Contractor	All works areas	Construction phase	-	N/A
S9.8.1	All hard and soft landscape areas disturbed temporarily during construction should be reinstated on like-to-like basis, to the satisfaction of the relevant Government Departments.	landscape impact	Contractor	All works areas	Construction phase	-	To be implemented



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# APPENDIX L - MONITORING SCHEDULE OF THE REPORTING MONTH

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<b>C</b> <u>C</u> <u>C</u>	EP-566/2021 - Siu Ho wan Station and Siu Ho wan Depot Replanning Works – Contract 1755	Ref#	-
000	Monthly EM&A Report		01
			Jun 22

#### Consultancy Agreement No.NEX/1062

### Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-May	2-May	3-May	4-May	5-May	6-May	7-May
					1-hr Dust Monitoring	
8-May	9-May	10-May	11-May	12-May	13-May	14-May
				1-hr Dust Monitoring		
15-May	16-May	17-May	18-May	19-May	20-May	21-May
			1-hr Dust Monitoring			
22-May	23-May	24-May	25-May	26-May	27-May	28-May
		1-hr Dust Monitoring				
29-May	30-May	31-May				
	1-hr Dust Monitoring					

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)



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## **APPENDIX M - MONITORING SCHEDULE OF THE COMING MONTH**



## Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in June 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jun	2-Jun	3-Jun	4-Jun
						1-hr Dust Monitoring
5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun
				1-hr Dust Monitoring		
12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun
			1-hr Dust Monitoring			
19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun
		1-hr Dust Monitoring				
26-Jun	27-Jun	28-Jun	29-Jun	30-Jun		
	1-hr Dust Monitoring					

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)