# Sun Fook Kong – Bestwise Joint Venture

# Contract No. DC/2009/10 HATS Stage 2A – Upgrading Works at Stonecutters Island Sewage Treatment Works - Main Pumping Station, Sedimentation Tanks and Ancillary Facilities

Quarterly Environmental Monitoring and Audit Report October to December 2020

(Version 1.0)

Certified By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties

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Contract No. DC/2009/10 – Upgrading Works at Stonecutters Island Sewage Treatment Works – Main Pumping Station, Sedimentation Tanks and Ancillary Facilities

Submission of 39<sup>th</sup> Quarterly EM&A Report for October to December 2020 (v1.0)

1 April 2021 By Post

Dear Sir,

We refer to the captioned Quarterly EM&A Report for October to December 2020 (v1.0) received on 31 March 2021 and we confirm that we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

In Dr Anne F Kerr

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#### ABBREVIATION AND ACRONYM

AL Levels Action and Limit Levels

DSD Drainage Services Department

E / ER Engineer/Engineer's Representative

EIA Environmental Impact Assessment

EM&A Environmental Monitoring and Audit

EMIS Environmental Mitigation Implementation Schedule

EP Environmental Permit

EPD Environmental Protection Department

ET Environmental Team

HVS High Volume Sampler

IEC Independent Environmental Checker

RE Resident Engineer

RH Relative Humidity

QA/QC Quality Assurance / Quality Control

SLM Sound Level Meter

WMP Waste Management Plan

SCISTW Stonecutters Island Sewage Treatment Works

HATS Stage 2A Harbour Area Treatment Scheme Stage 2A

SBJV Sun Fook Kong - Bestwise Joint Venture

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#### EXECUTIVE SUMMARY

#### Introduction

- 1. This is the 39<sup>th</sup> Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Wellab Limited for DSD Contract No. DC/2009/10 "HATS Stage 2A Upgrading Works at Stonecutters Island Treatment Works Main Pumping Station, Sedimentation Tanks and Ancillary Facilities" (The Project) which documents the key information of EM&A and environmental monitoring works undertaken at the SCISTW under HATS Stage 2A Environmental Permit (Permit No. EP-322/2008/G).
- 2. The site activities undertaken in the reporting quarter included:

#### October 2020:

#### MPS2

- DOU3 upgrading works –Biotrickling Filter#1 installation complete and seeding in progress.
- Defects rectification (on-going)
- Expert System Site Acceptance Test workshop in progress
- Pre-handover inspection and defects rectification for Valve Chamber

# NaOCl Compound

• T&C for Washout Chamber, and Barge Unloading in progress

#### **CEPT**

- Pre-handover inspection and defect rectification for CEPT handover is on-going
- CM work for sludge pups
- Removal of sludge scrapers in Flocculation Tank 5 in progress

#### November 2020:

#### MPS2

- DOU3 upgrading works —Biotrickling Filter#1 seeding completed, and Biotrickling Filter#4 media replacement and irrigation pumps installation in progress, Power upgrade for DOU3 MCC
- Defects rectification (on-going)
- Pre-handover inspection and defects rectification for Valve Chamber
- Demonstration for De-watering and Filing of ICT in progress

#### NaOCl Compound

• T&C for Washout Chamber, and Barge Unloading in progress

#### **CEPT**

- Preparation works and equipment trail run for opening of north PST
- Cleansing of New CEPT sludge pipe in progress

#### December 2020:

# MPS2

- DOU3 upgrading works BTF#4 seeding completed; PLC modification, exhaust fan upgrading and drainage system all in progress;
- Defect rectification for MPS2, Valve Chamber in progress;
- Main pump #1-4 extended flow test completed;
- NWK Overflow pipe SAT in progress

#### NaOCl Compound

- T&C for Washout Chamber, and Barge Unloading completed;
- Pre-handover inspection for NaOCl dosing system completed;
- Defect rectification in progress

#### **CEPT**

- Preparation works and equipment trail run for opening of north PST (Stage 1 CEPT handover). 7 days operation observation is ready to start;
- 7 days observation period for FT5 completed;
- Cleansing of FT6 in progress;
- Pre-handover inspection for southern PST in progress

# **Environmental Monitoring Works**

- 3. The environmental monitoring works conducted for the Project in this reporting quarterly period at air quality monitoring stations AM6a, AM6b, AM7 and AM8 and noise monitoring stations NM5 and NM6.
- 4. All the environmental monitoring works were conducted in accordance with the EM&A Manual. The monitoring results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance of the reporting quarter is tabulated in **Table I**.

Table I Summary Table for Non-compliance Recorded in the Reporting Quarter

Monitored	Monitoring Dorometer		No. of Exceedance		No. of Exceedance Due to the Project		Action
By	Station	Parameter -	Action Level	Limit Level	Action Level	Limit Level	Taken
	AM6a (*) 1-hr TSP	0	0	0	0	N/A	
	Alvioa	24-hr TSP	0	0	0	0	Action Taken
	AM6b	1-hr TSP	0	0	0	0	N/A
	AMOD	24-hr TSP	0	0	0	0	N/A
DC/2009/10	NM5	Noise	0	0	0	0	N/A
	NM6	Noise	0	0	0	0	N/A N/A N/A N/A N/A N/A
	AM7	1-hr TSP	0	0	0	0	N/A
	AIVI /	24-hr TSP	0	0	0	0	ject Action Taken vel    N/A
	AM8	1-hr TSP	0	0	0	0	N/A
	AIVIO	24-hr TSP	0	0	0	0	N/A

#### Remark

#### 1-hour TSP Monitoring

6. All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

# 24-hour TSP Monitoring

7. All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

<sup>(\*)</sup>Monitoring location AM6a was relocated to AM6b in October 2020 (Please refer to Section 2.2).

#### Construction Noise

8. All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

#### **Environmental Licenses and Permits**

9. Licenses/Permits granted to the Project include the Environmental Permit (EP); Billing account for Disposal of Construction Waste and Registered as Chemical Waste Producer.

#### **Environmental Mitigation Implementation Schedule**

10. According to the EIA Report Section 3.74, 4.56 and 13.44, air quality, noise and landscape and visual would be the key environmental issues and mitigation measures shall be implemented during the construction phase. Details of the implementation of mitigation measures are provided in the **Appendix G**.

# **Key Information in the Reporting Quarter**

11. Summary of key information in the reporting quarter is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action	Status	Remark
Event	Number	Nature	Taken	Status	Kemark
Complaint received	0		N/A	N/A	
Status of submissions covering the reporting quarter	3	Monthly EM&A Reports September, October and November 2020	Submitted to IEC for verification	No Comment	
Notifications of any summons & prosecutions received	0		N/A	N/A	

#### **Summary of Complaints and Prosecutions**

- 12. No environmental complaint and prosecution was received for the Project in the reporting quarter.
- 13. There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H.**
- 14. The environmental concerns in the coming months are mainly on construction waste and general refuse storage.

#### 1. INTRODUCTION

#### **Background**

- 1.1 The Project 'HATS Stage 2A Upgrading works at Stonecutters Island Treatment Works Main Pumping Station, Sedimentation Tanks and Ancillary Facilities' under Contract No: DC/2009/10 mainly comprises the construction of a large underground pumping station with an internal diameter of 55 metres and a depth of more than 40 metres, the provision of additional double-tray sedimentation tanks, a new computer control system, the expansion and modification of existing installations of the SCISTW as well as the construction of other ancillary facilities. The general location plan of the Project is shown in **Figure 1**.
- 1.2 The Project is under Harbour Area Treatment Scheme (HATS) Stage 2A and is a designated project with Register No.: AEIAR-121/2008. The current works under the Project at SCISTW for HATS 2A is covered by Environmental Permit (Permit No. EP-322/2008/G), which was issued on 9<sup>th</sup> May 2014 by the Environmental Protection Department (hereinafter called EPD) to the Drainage Services Department (hereinafter called the DSD) as the Permit Holder.
- 1.3 Since the Contracts DC/2009/05, DE/2009/02 and DC/2007/23 in the SCISTW had been substantial completed, the environmental monitoring works at NM5, NM6, AM6, AM7 and AM8 have since been handed over to the ET of DC/2009/10 from August and September 2012.
- 1.4 Sun Fook Kong –Bestwise Joint Venture (hereafter called the SBJV) was commissioned by the DSD to undertake the construction of the Contract No. DC/2009/10 "HATS 2A Upgrading works at Stonecutters Island Treatment Works Main Pumping, Sedimentation Tanks and Ancillary Facilities". The date of commencement of construction of the Project is 24<sup>th</sup> February 2011. There was a change of name of the Joint Venture from Sun Fook Kong Biwater Joint Venture to Sun Fook Kong Bestwise Joint Venture with effect from 30 November 2018.
- 1.5 Cinotech Consultants Limited was commissioned by SBJV to undertake the Environmental Monitoring and Audit (EM&A) works for the project and was appointed as the Environmental Team (ET) of the Project under Condition 2.1 of the EP. The ET of this project was taken over by Wellab Limited (Wellab) starting from 1<sup>st</sup> January 2019.
- 1.6 The date of commencement of EM&A works is 14<sup>th</sup> April 2011.

# **Project Organizations**

1.7 The contacts of the Project are shown in **Table 1.1** and the organization chart of ET for Contract is shown in **Figure 2**.

Table 1.1 Key Project Contacts

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Party	Role	Name	Position	Phone No.
Ove Arup & Partners Hong	Engineer's	Mr. M P Gamini Ananda	Senior Resident Engineer	6049 5561
Kong Ltd	Representative	Mr. Tony Yeung	ER's Coordinator	6049 5562
Wellab	Environmental	Dr. Priscilla Choy	ET Leader	2151 2089

1.8

Party	Role	Name	Position	Phone No.
	Team	Mr. Howard Chan	Project Coordinator	2151 2073
Mott MacDonald	Independent Environmental Checker	Dr. Anne Kerr	Independent Environmental Checker	2828 5757
Sun Fook Kong –		Mr. Keith Ho	Site Agent	2620 0070
Bestwise Joint Venture	Contractor	Mr. Albus Cheung	Environmental Officer	2620 0070

#### **Summary of EM&A Requirements**

- 1.9 The EM&A programme requires construction phase monitoring for air quality and construction noise, landscape and visual and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the project EIA study final report; and
  - Environmental requirements in contract documents.
- The advice on the implementation status of environmental protection and pollution 1.10 control/mitigation measures is summarized in **Section 4** of this report.
- 1.11 This report presents the monitoring results, observations, locations, equipment, period, for required monitoring parameter namely air quality, noise and audit works conducted for the Project for October to December 2020.

# 2. AIR QUALITY

#### **Monitoring Requirements**

2.1 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

2.2 Three designated monitoring stations, AM6a, AM7 and AM8 were selected for impact dust monitoring for the Project. As informed by the Contractor, part of Portion 7 was handed over to DSD in late October 2020, the monitoring location AM6a was not available for future monitoring. The previous location of Am6a was relocated to the monitoring station AM6b on 20<sup>th</sup> October 202 after handover of part of Portion 7. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 1**.

**Table 2.1** Locations for Air Quality Monitoring

<b>Monitoring Station</b>	Monitored by	Location of Measurement
AM6a	DC/2009/10	Works site boundary
AM6b		Works site boundary
AM7		North West Kowloon Sewage Pumping Station
AM8		Block A of Government Dockyard

# **Monitoring Parameters, Frequency and Duration**

2.3 **Table 2.2** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period could be referred to monthly reports.

Table 2.2 Impact Dust Monitoring Parameters, Frequency and Duration

<b>Monitoring Station</b>	Parameter	Period	Frequency
All monitoring	1-hour TSP	0700-1900 hrs	3 times/ every 6 days
locations	24-hour TSP	0000-2400 hrs	once in every 6 days

#### Monitoring Methodology and QA/QC Procedure

- 2.4 The monitoring methodology and QA/QC procedures could be referring to Section 2.5 2.15 of the monthly report for Contract DC/2009/10.
- 2.5 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

#### **Results and Observations**

- 2.6 All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix B**.
- 2.7 The graphical plots of the 1-hour and 24-hour TSP monitoring results are shown in **Appendix C**.

2.8 According to field observations during site inspection, the identified dust sources at the monitoring stations were mainly from loading of material, vehicles movement and construction works of this Contract and other Contract in the site.

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#### 3. NOISE

#### **Monitoring Requirements**

- 3.1 Two noise monitoring stations, namely NM5 and NM6 was designated in the EM&A Manual for impact monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.
- 3.2 Monitoring station (NM6) serves as an alternative location for FSD Diving Rescue and Diving Training Centre which is regarded as a Noise Sensitive Receiver (NSR) as it is an institution. Monitoring station (NM6), was set up at the proposed location in accordance with the Monitoring Proposal submitted by ET of Contract DC/2009/05, as agreed by the ER and IEC.

#### **Monitoring Locations**

3.3 Noise monitoring was conducted at two designated monitoring stations as listed in **Table 3.1.** 

**Table 3.1** Location of Noise Monitoring Stations

Monitoring Station	Monitored By	Location of Measurement
NM5	DC/2009/10	Near FSD Diving Rescue and Training Centre
NM6		Customs' Marine Base (Block H of Government Dockyard) Rooftop

# **Monitoring Parameters, Frequency and Duration**

3.4 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule could be referred to monthly reports of the respective contracts.

**Table 3.2** Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency
NM5	L <sub>eq</sub> (30 min.) dB(A)	0700-1900 hrs. on weekdays	Weekly
NM6	L <sub>eq</sub> (5 min.) dB(A)	During restricted hours	Monitoring to be conducted when construction works were to be carried out

#### Monitoring Methodology and QA/QC Procedures

3.5 The monitoring methodology and QA/QC procedure could be referring to Section 3 of the monthly report for Contract DC/2009/10.

#### **Results and Observations**

- 3.6 The construction noise monitoring at the designated location was conducted by the ET of Contract DC/2009/10 as scheduled in the reporting quarter. The Graphical presentation of the noise monitoring result was shown in **Appendix D**.
- 3.7 No Action/Limit Level exceedance was recorded in the reporting quarter. Summary of exceedance is presented in **Appendix B.**

3.8 The major noise sources identified at the designated noise monitoring stations were vehicle movement and construction equipment, as well as construction activities from this and other Contract in Stonecutters Island STW.

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#### 4. ENVIRONMENTAL AUDIT

#### **Site Audits**

- 4.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 4.2 13 environmental site audits were conducted by ET and 3 IEC site audits were conducted for the Project in reporting quarter. No non-compliance was observed during the site audits.
- 4.3 Site inspections were undertaken to ensure and check that the implementation and maintenance of landscape and visual mitigation measures are being properly carried out in the reporting quarter in accordance to section 14.1 of the EM&A Manual. No non-compliance was observed during the site inspections.

# **Review of Environmental Monitoring Procedures**

4.4 The monitoring works were conducted by the monitoring teams of Contract DC/2009/10. The monitoring procedures have been reviewed monthly.

# **Status of Environmental Licensing and Permitting**

4.5 All permits/licenses obtained for the Contract DC/2009/10 are summarized in **Table 4.1**.

 Table 4.1
 Summary of Environmental Licensing and Permit Status

Reference	Valid	Period	Detelle	Ctatura	
Number	From	To	Details	Status	
Water Dischar	ge License				
WT00023103- 2015	19/1/2016	31/1/2021	The application was approved on 19-1-2016.	Valid	
WT00024404- 2016	19/5/2016	31/5/2021	The application was approved on 19-5-2016.	Valid	
WT00025973- 2016	22/11/2016	31/5/2021	The application was approved on 22/11/2016.	Valid	
Registered Ch	emical Wasto	e Producer			
WPN5213-269- 3584-01	N/A	N/A	The application was approved on 4-5-2011.	Valid	
Billing Accoun	nt for Dispos	al of Constri	uction Waste		
CSW01444	16/3/2011	N/A	The application was approved on 16-3-2011.	Valid	
Notification of	Works Und	er APCO	·	•	
327427	N/A	N/A	Notice form received by EPD on 2-3-2011.	N/A	

#### **Waste Management Status**

4.6 The amount of Inert and Non Inert wastes generated by the construction activities of the Project in the reporting quarter is summarized in the waste flow table as shown in **Appendix E.** 

# **Implementation Status of Environmental Mitigation Measures**

- 4.7 Details of the implementation of mitigation measures are provided in the **Appendix G**.
- 4.8 During the weekly environmental site inspections in the reporting period, no non-conformance was identified. The observations of the site audit for the Projects are

summarized in Table 4.2a-c.

Table 4.2a: Observations and Recommendations of Site Audits (October 2020)

Parameters	Ref. Number	Observations	Follow Up Action
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Waste/ Chemical Management	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Permit/ Licenses	N/A	There was no observation in the reporting period.	N/A

**Table 4.2b: Observations and Recommendations of Site Audits (November 2020)** 

Parameters	Ref. Number	Observations	Follow Up Action
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Waste/ Chemical	201112-R01	Dip tray should be provided for chemical storage.	Item was remarked as 201112-R01.
Management	201118-R01	Dip tray should be provided for chemical storage.	Chemical was removed.
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Permit/ Licenses	N/A	There was no observation in the reporting period.	N/A

**Table 4.2c: Observations and Recommendations of Site Audits (December 2020)** 

Parameters	Ref. Number	Observations	Follow Up Action
Water Quality	N/A	There was no observation in the reporting period.	N/A
Air Quality	N/A	There was no observation in the reporting period.	N/A
Waste/ Chemical Management	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Permit/ Licenses	N/A	There was no observation in the reporting period.	N/A

# **Implementation Status of Event Action Plans**

4.9 The Event Action Plans for air quality and noise are presented in **Appendix F.** 

1-hr TSP

4.10 No Action/Limit Level exceedance was recorded in the reporting quarter.

24-hr TSP

4.11 No Action/Limit Level exceedance was recorded in the reporting quarter.

Construction Noise

4.12 No Action/Limit Level exceedance was recorded in the reporting quarter.

Landscape and Visual

4.13 No non-compliance was recorded in the reporting quarter.

# **Summary of Complaints and Prosecutions**

- 4.14 No environmental complaint and prosecution was received for the Project in the reporting quarter.
- 4.15 There were no environmental complaint and prosecution received since the commencement of the Project. The Complaint Log is presented in **Appendix H**.

# 5. FUTURE KEY ISSUES

#### **Key Issues for the Coming Months**

- 5.1 Key environmental issues in the coming months include:
  - Deposal/Storage of chemicals/fuel and chemical waste/waste oil on-site; and
  - Silt and dust getting into the public area by the leaving site vehicles at the site exits without adequate wheel washing facilities.

# **Construction Program for the Coming Quarter**

5.2 The tentative construction program is provided in **Appendix I.** 

#### 6. CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

6.1 Environmental monitoring and audit works were performed in the reporting quarter and all monitoring results were checked and reviewed.

# 1-hour TSP Monitoring

6.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

#### 24-hour TSP Monitoring

6.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

#### **Construction Noise Monitoring**

6.4 All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

# **Environmental Audit**

6.5 Environmental site audits were conducted as weekly basis in the reporting quarter. No non-compliance was recorded.

#### Complaint and Prosecution

6.6 No environmental complaint and prosecution was received in the reporting quarter.

# **Recommendations for the coming reporting period:**

6.7 The following recommendations were made for the coming reporting period:

#### Air Quality

- To provide adequate water spray on site;
- To mitigate dust generation by adequate water spraying or covering by tarpaulin during dry days;
- To regularly maintain the machinery and vehicles on site;
- To follow up any exceedance caused by the construction works; and
- Non-Road Mobile Machinery (NRMM) labels must be demonstrated on the registered equipment for inspection.

#### Noise

- To inspect the noise sources inside the site;
- To follow up any exceedance caused by the construction works;
- To space out noisy equipment and position the equipment as far away as possible from

#### sensitive receivers:

- To provide temporary noise barriers for operations of noisy equipment near the noise sensitive receivers in an appropriate location.
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.

### Water Quality

- To provide adequate temporary drainage system with adequate capacity;
- To provide adequate wastewater treatment facilities to treat the wastewater generated during construction works and heavy rain;
- To properly cover the stockpile and slope to prevent the generation of surface runoff; and
- To avoid water accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed.

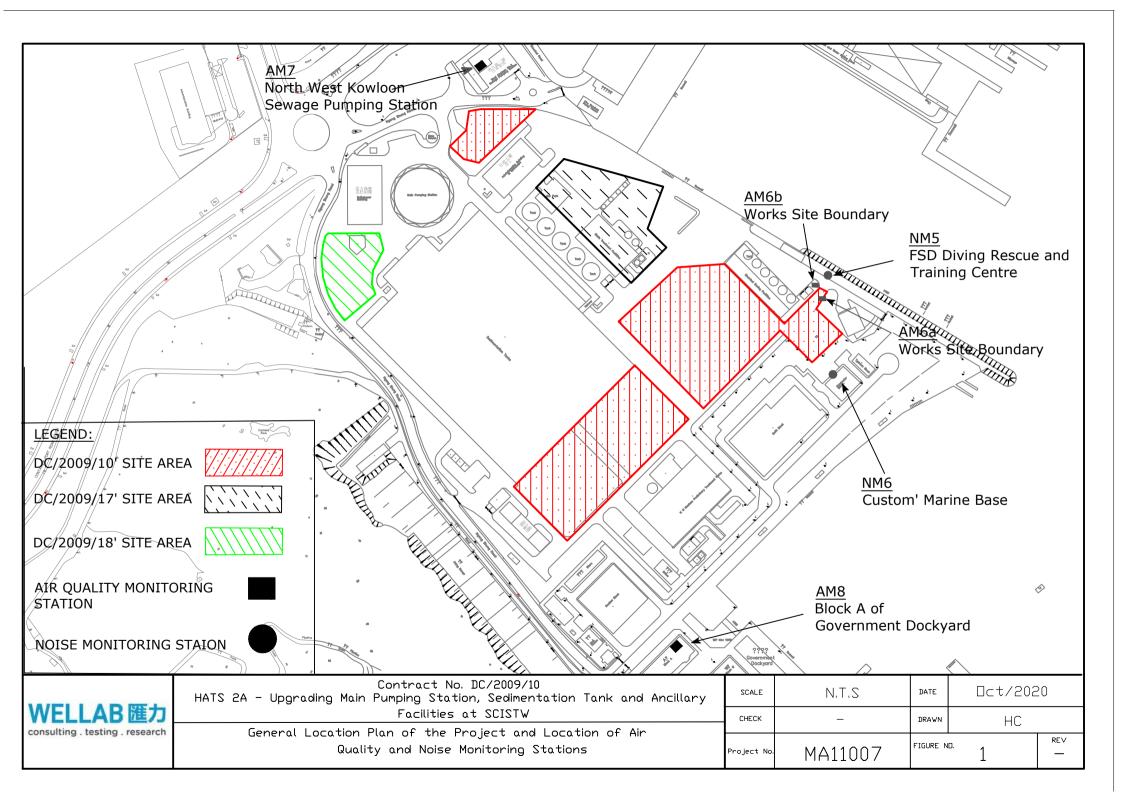
#### Waste/Chemical Management

- To provide proper rubbish bins / skips for waste collection;
- To check for any accumulation of wasted materials or rubbish on site;
- To provide adequate chemical waste storage area on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- To avoid improper handling or storage of oil drum on site.

# Landscape and Visual

- To erect and maintain the protection fence around the retaining tree; and
- To avoid any heavy materials placed into tree protection zone.

# **FIGURES**



# Environmental Team Leader Dr. Priscilla Choy (Tel: 2151 2089) Project Coordinator - coordination of the Project and compile reports

Chan Ho Wai (Tel: 2151 2073)

# **Monitoring Team**

- perform environmental monitoring works

Team Leader: Tang Wing Kwai (Tel: 2151 2087)

Team Members: Lee Man Hei, Ho Ka Chun, Ho Chi Wai, Lui Ka Shing, Chan Ho Wai

# **Audit Team**

- conduct site inspection, complete the environmental checklist once a week

Team Leader: Ivy Tam (Tel: 2151 2090)

Team Members: Chan Ho Wai

Title	Contract No. DC/2009/10 HATS Stage 2A – Upgrading Works at SISTW	Scale	N.T.S	Project No.	MA11007	WELLAB匯力
	Main Pumping Station, Sedimentation Tanks and Ancillary Facilities  ET's Organization Chart	Version	v.2	Figure		consulting . testing . research

APPENDIX A
ACTION AND LIMIT LEVELS FOR AIR
QUALITY AND NOISE QUALITY

# Appendix A Action and Limit Levels

Table A-1 Action and Limit Levels for 1-Hour TSP and 24-Hour TSP

Monitoring Stations	Action Le	vel (μg/m³)	Limit Le	evel (µg/m³)
Monitoring Stations	1-hour	24-hour	1-hour	24-hour
AM6a	346	196	500	260
AM6b	346	196	500	260
AM7	322	207	500	260
AM8	307	158	500	260

Table A-2 Action and Limit Level for Construction Noise

Monitoring Stations	Time Period	Action Level	Limit Level in dB(A)
	0700-1900 hours on normal weekdays	When one documented complaint is received	75
NM5 NM6	Evening Time of normal weekdays and General Holidays:		
	All days during the evening (1900 to 2300 hours), and general holidays (including Sundays) during the day-time and evening (0700 to 2300 hours)	N/A	70 <sup>(1)</sup>

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

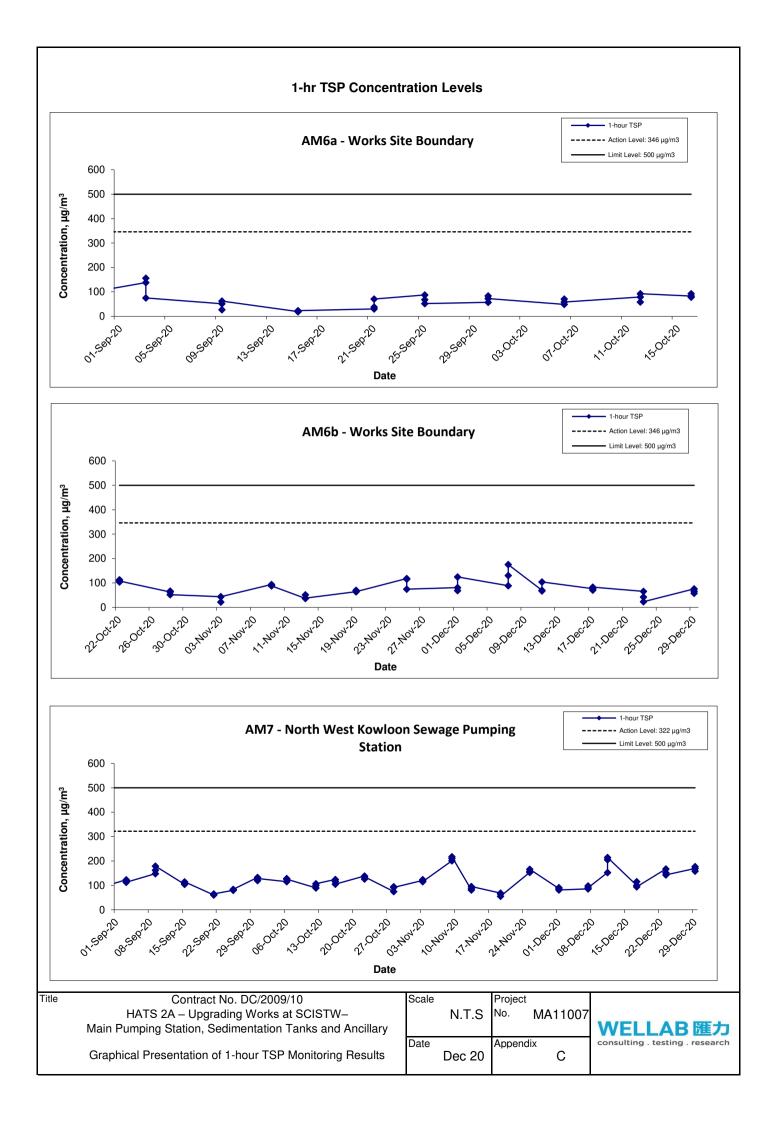
# APPENDIX B SUMMARY OF EXCEEDANCE

# APPENDIX B – SUMMARY OF EXCEEDANCE

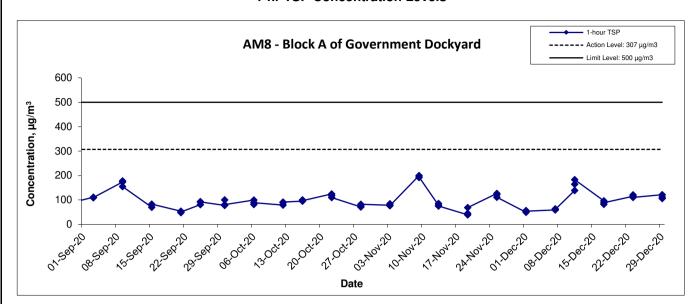
**Reporting Quarterly:** October to December 2020

- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)

APPENDIX C 1-HOUR AND 24-HOUR TSP GRAPHICAL PRESENTATION



# 1-hr TSP Concentration Levels



Title HATS 2A – Upgrading Works at SCISTW–
Main Pumping Station, Sedimentation Tanks and Ancillary
Facilities

Graphical Presentation of 1-hour TSP Monitoring Results

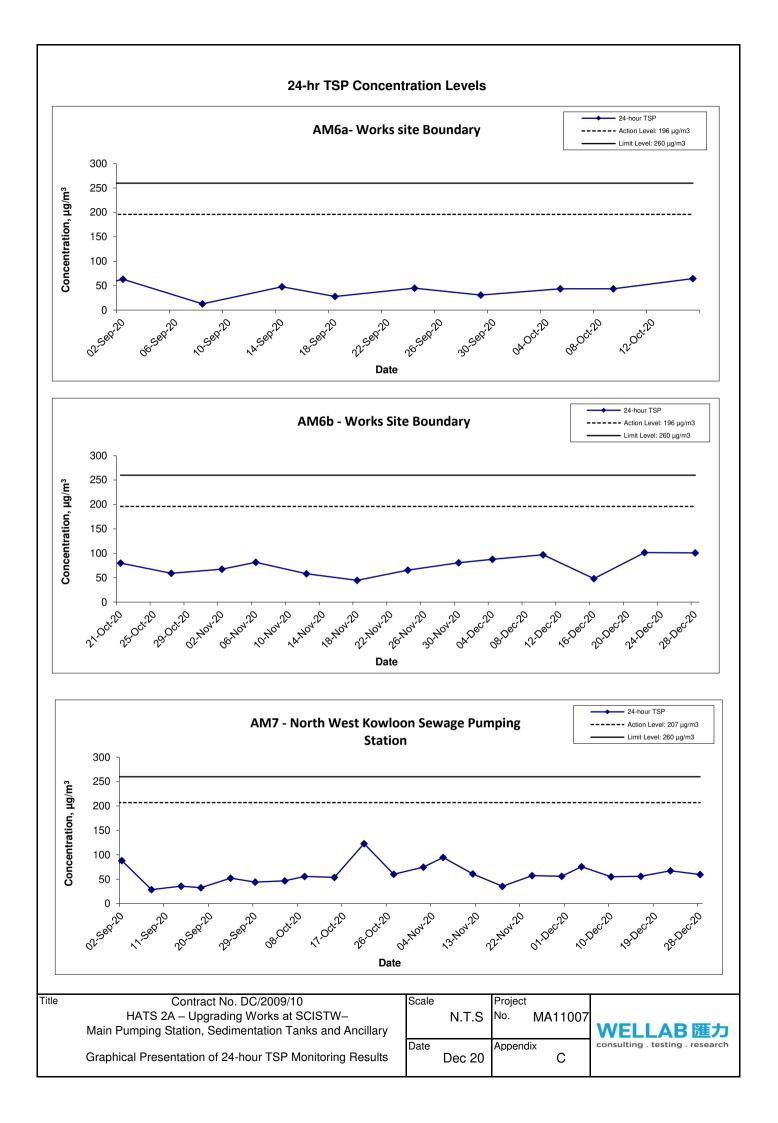
N.T.S No. MA11007

Date Appendix
Dec 20 C

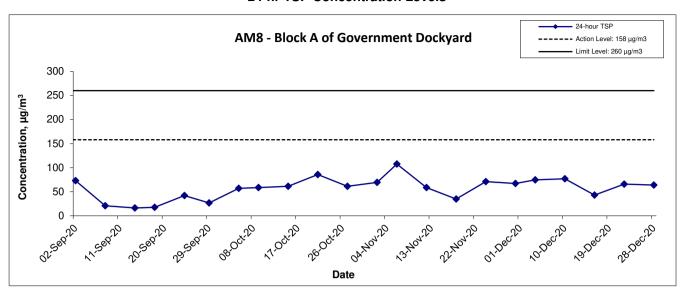
Project

Scale





#### 24-hr TSP Concentration Levels



Title HATS 2A – Upgrading Works at SCISTW–
Main Pumping Station, Sedimentation Tanks and Ancillary
Facilities

Graphical Presentation of 24-hour TSP Monitoring Results

Scale Project
N.T.S No. MA11007

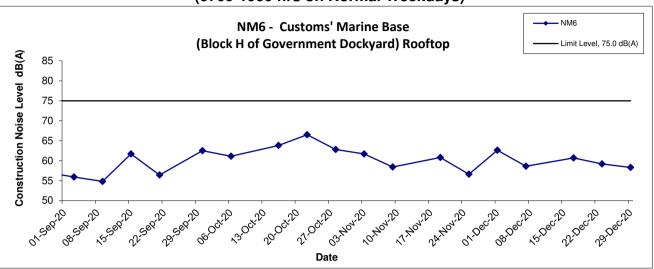
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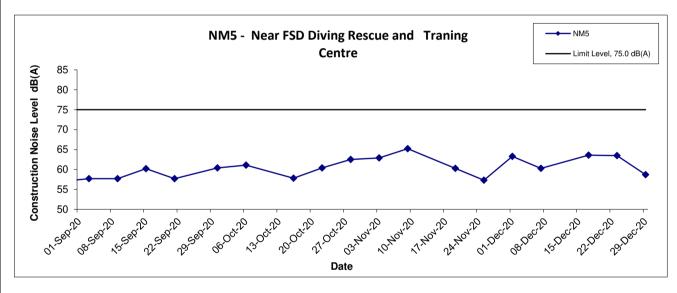


APPENDIX D NOISE MONITORING GRAPHICAL PRESENTATIONS

# **Noise Levels**

# (0700-1900 hrs on Normal Weekdays)





Contract No. DC/2009/10 HATS 2A – Upgrading Works at SCISTW– Main Pumping Station, Sedimentation Tanks and Ancillary	Scale		Project No.	MA11007	WELLAB匯力
Graphical Presentation of Noise Monitoring Result	Date	Dec 20	Append	ix D	consulting . testing . research

Title

APPENDIX E SUMMARY OF AMOUNT OF WASTE GENERATED

Name of Department:	DSD	_	(	Contract No. :	DC/2009/10
_	Mo	onthly Summary Waste Flow Table for	2020	(year)	

		Actual Quantities of	inert C&D Mate	erials Generated	d Monthly		Actual Quantities of C&D Materials Generated Monthly				
Month	Total Quantity	Hard Rock and Large	Reused in the	Reused in	Disposed as	Imported	Metals	Paper/	Plastics	Chemical	Other, e.g.
Month	Generated	Broken Concrete	Contract	other Projects	Public Fill	Fill		cardboard	(see Note 3)	Waste	general refuse
	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	$(\text{In '}000\text{m}^3)$	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	(In '000m <sup>3</sup> )	(In '000kg)	(In '000kg)	(In '000kg)	(In '000kg)	(In '000m <sup>3</sup> )
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
June	0.005	0.005	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	0.005	0.005	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.018
July	0.004	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.002
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.009	0.005	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.025
Total since commence ment of project	61.956	61.952	0.000	0.000	61.956	0.000	372.871	11.905	3.314	2.227	2.124

#### Notes:

- (1) The performance targets are given in PS Clause 25.41(14).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The conversion factor for tonne to m<sup>3</sup> for inert C&D materials is 1.9 tonne/m<sup>3</sup>.
- (5) The conversion factor for tonne to m<sup>3</sup> for general refuse is 1.8 tonne/m<sup>3</sup>.

## APPENDIX F EVENT ACTION PLANS

# **APPENDIX F – Event / Action Plans**

# Table F-1 Event / Action Plan For Air Quality

	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
ACTION LEVEL						
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>		
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	Confirm receipt of notification of failurein writing;     Notify Contractor;     Ensure remedial measures properly implemented	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate</li> </ol>		

	ACTION						
EVENT	ET	IEC	ER	CONTRACTOR			
LIMIT LEVEL	LIMIT LEVEL						
1. Exceedance for	1. Identify source, investigate the causes	1. Check monitoring data	1. Confirm receipt of	1. Take immediate action to			
one sample	of exceedance and propose remedial	submitted by ET;	notification of failure in	avoid further exceedance;			
	measures;	2. Check Contractor's working	writing;	2. Submit proposals for			
	2. Inform ER, Contractor and EPD;	method;	2. Notify Contractor;	remedial actions to IEC			
	3. Repeat measurement to confirm	3. Discuss with ET and	3. Ensure remedial measures	within 3 working days of			
	finding;	Contractor on possible remedial	properly implemented	notification;			
	4. Increase monitoring frequency to	measures;		3. Implement the agreed			
	daily;	4. Advise the ER on the		proposals;			
	5. Assess effectiveness of Contractor's	effectiveness of the proposed		4. Amend proposal if			
	remedial actions and keep IEC, EPD and	remedial measures;		appropriate			
	ER informed of the results.	5. Supervise implementation of					
		remedial measures					

	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
2. Exceedance for	1. Notify IEC, ER, Contractor and EPD;	1. Check monitoring data	1. Confirm receipt of	1. Take immediate action to	
two or more	2. Identify source;	submitted by ET;	notification of failure in	avoid further exceedance;	
consecutive	3. Repeat measurement to confirm	2. Check Contractor's working	writing;	2. Submit proposals for	
samples	findings;	method;	2. Notify Contractor;	remedial actions	
	4. Increase monitoring frequency to	3. Discuss amongst ER, ET, and	3. In consolidation with the	to IEC within 3 working days	
	daily;	Contractor on the potential	IEC, agree with the	of notification;	
	5. Carry out analysis of Contractor's	remedial actions;	Contractor on the remedial	3. Implement the agreed	
	working procedures to determine possible	4. Review Contractor's remedial	measures to be	proposals;	
	mitigation to be	actions whenever necessary to	implemented;	4. Resubmit proposals if	
	implemented;	assure their effectiveness and	4. Ensure remedial measures	problem still not under	
	6. Arrange meeting with IEC and ER to	advise the ER accordingly;	properly implemented;	control;	
	discuss the remedial actions to be taken;	5. Supervise the implementation	5. If exceedance continues,	5. Stop the relevant portion of	
	7. Assess effectiveness of Contractor's	of remedial measures.	consider what portion of the	works as determined by the	
	remedial actions and keep IEC, EPD and		work is responsible and	ER until the exceedance is	
	ER informed of the results;		instruct the Contractor to	abated	
	8. If exceedance stops, cease additional		stop that portion of work		
	monitoring		until the exceedance is		
			abated.		

**Table F-2 Event / Action Plan For Construction Noise** 

	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation	
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in writing;	proposals to IEC and ER;	
exceeded	3. Report the results of investigation to	2. Review the proposed	2. Notify Contractor;	2. Implement noise mitigation	
checaca	the IEC, ER and Contractor;	remedial measures by the	3. In consolidation with the IEC,	proposals	
	4. Discuss with the IEC and Contractor	Contractor and advise the ER	agree with the Contractor on the		
	on remedial measures required;	accordingly;	remedial measures to be		
	5. Increase monitoring frequency to	3. Advise the ER on the	implemented;		
	check mitigation effectiveness	effectiveness of the proposed	4. Supervise the implementation of		
		remedial measures	remedial measures		
Limit Level	1. Inform IEC, ER, Contractor and EPD;	1. Discuss amongst ER, ET,	1. Confirm receipt of	1. Take immediate action to	
being	2. Repeat measurements to confirm	and	notification of failure in writing;	avoid further exceedance;	
exceeded	findings;	Contractor on the potential	2. Notify Contractor;	2. Submit proposals for	
	3. Increase monitoring frequency;	remedial actions;	3. In consolidation with the	remedial actions to IEC	
	4. Identify source and investigate the	2. Review Contractor's	IEC, agree with the Contractor on	and ER within 3 working	
	cause of exceedance;	remedial	the remedial measures to be	days of notification;	
	5. Carry out analysis of Contractor's	actions whenever necessary	implemented;	3. Implement the agreed	
	working procedures;	to assure their effectiveness	4. Supervise the implementation of	proposals;	
	6. Discuss with the IEC, Contractor and	and advise the ER	remedial measures;	4. Submit further proposal if	
	ER on remedial measures required;	accordingly.	5. If exceedance continues,	problem still not under	
	7. Assess effectiveness of Contractor's		consider stopping the Contractor to	control;	
	remedial actions and keep IEC, EPD		continue working on that portion of	5. Stop the relevant portion	
	and ER informed of the results;		work which causes the exceedance	of works as instructed by	
	8. If exceedance stops, cease additional		until the exceedance is abated	the ER until the exceedance is	
	monitoring			abated	

APPENDIX G ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

#### APPENDIX G IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
A	Air Quality		
3.74	Skip hoist for material transport should be totally enclosed by impervious sheeting.	All construction sites	۸
	Vehicle washing facilities should be provided at every vehicle exit point.		۸
	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore.		^
	Where a site boundary adjoins a road, streets or other areas accessible to the public, hoarding of not less than 2.4 m high from ground level should be provided along the entire length except for a site entrance or exit.		N/A
	Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.		۸
	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 shall be applied to aggregate fines.		^
	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.		۸
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		^
	Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.		^
	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the 3 sides.		^
	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.		^
3.74	Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.	All construction sites	^

EIA	Recommended Mitigation Measures	Location of the measure	<b>Implementation Status</b>
Ref.			
В	Airborne Noise		
4.56-	Use of quiet PME, movable barriers and acoustic mats.	All construction sites	٨
4.61			
4.67	Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.		^
	Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.		^
	Mobile plant, if any, shall be sited as far away from NSRs as possible.		٨
	Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.		^
4.67	Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.		^
	Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.		^
C	Water Quality		
6.349 to 6.375	Construction Site Runoff and General Construction Activities The mitigation measures as outlined in the ProPECC PN 1/94 Construction Site Drainage should be adopted where applicable.	All construction sites	^
6.376	Effluent Discharge 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. 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 WPCO license which is under the ambit of regional office (RO) of EPD.  Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing saltwater intakes.  Accidental Spillage of Chemicals		^
0.377	Contractor must 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)		^

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
	Regulation should be observed and complied with for control of chemical wastes.		
6.378	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.		۸
6.379	<ul> <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 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>		^
6.380	Construction Works in Close Proximity of Storm Drains or Seafront:	All construction sites	٨
	<ul> <li>To minimize the potential water quality impacts from the construction works located at or near any watercourse, the practices outlined below should be adopted where applicable.</li> <li>The use of less or smaller construction plants may be specified to reduce the disturbance to the storm water courses or marine environment.</li> <li>Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.</li> <li>Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.</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> <li>Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.</li> <li>Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert or sea.</li> </ul>		

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
D	Waste Management		
9.107	Reusable steel or concrete panel shutters, fencing and hoarding and signboard should be used as a preferred alternative to items made of wood, to minimize wastage of wood. Attention should be paid to WBTC No. 19/2001 - Metallic Site Hoardings and Signboards to reduce the amount of timber used on construction sites. Metallic alternatives to timber are readily available and should be used rather than new timber. Precast concrete units should be adopted wherever feasible to minimize the use of timber formwork.	All construction sites	۸
9.109	All waste materials should be segregated into categories covering:  • excavated materials suitable for reuse on-site;  • excavated materials suitable for public filling facilities;  • remaining C&D waste for landfill;  • chemical waste; and  • general refuse for landfill.	All construction sites	^
9.113	Sort C&D waste from demolition of existing facilities to recover recyclable portions such as metals.		۸
	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.		۸
	Encourage collection of aluminum cans, PET bottles and paper by providing separate labeled bins to enable these wastes to be segregated from other general refuse generated by the work force.		^
	Any unused chemicals or those with remaining functional capacity shall be recycled.		۸
	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.		۸
9.115	Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.		۸
	Training of site personnel in proper waste management and chemical waste handling procedures.		۸
9.115	Develop and provide toolbox talk for on-site sorting of C&D materials to enhance worker's awareness in handling, sorting, reuse and recycling of C&D materials.		^
	Provision of sufficient waste disposal points and regular collection of waste.		۸
	Regular cleaning and maintenance programme for drainage systems, sumps and oil		^

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
	interceptors.		
9.125	Bentonite slurries used in diaphragm wall construction should be reconditioned and reused wherever practicable. The disposal of residual used bentonite slurry should follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage".	All construction sites	۸
9.131	Adequate number of portable toilets at temporary works areas or the PTWs to ensure that sewage from site staff would be properly collected.		^
9.133	General refuse should be stored in enclosed bins, skips or compaction units separating from C&D material and disposed of at designated landfill.		۸
9.135	The recyclable component of the municipal waste generated by the workforce, such as aluminum cans, paper and cleansed plastic containers should be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste should be set up by the Contractor. The Contractor should also be responsible for arranging recycling companies to collect these materials.		^
9.137	If chemical wastes are 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. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the approved Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.		*
9.142	Prior to excavation of the marine deposit layer, the deposit should be tested in accordance with the ETWB TC(W) No. 34/2002 and the results should be presented in a Preliminary Sediment Quality Report. The marine deposit should be disposed of at the disposal site designated by the Marine Fill Committee (MFC) or Director of Environmental Protection (DEP) depending on the test results.		N/A

EIA	Recommended Mitigation Measures	Location of the measure	Implementation Status
Ref.			
E	Terrestrial Ecology		
10.94	To implement effective noise mitigation measures as recommended in Section 4 of EIA.	All construction sites	N/A
10.95	Dust control practices such as regular watering, complete coverage of any aggregate or dusty material storage piles, and re-schedule of dusty activities during high-wind conditions as well as other measures recommended in Section 3 of EIA, should be implemented.		۸
10.96	Fences/hoardings should be erected and installed along the boundary of the works areas.		۸
10.97	Standard good site practices as suggested in Section 10 of EIA should be implemented.		N/A
10.98	Provision of proper drainage system and runoff control measures such as use of sand/silt traps, oil/grease separators, sedimentation tanks, etc.		۸
F	Landscape and Visual		
Table 13.7	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.	All construction sites	۸
	Existing trees to be retained on site should be carefully protected during construction.		٨
	Trees unavoidably affected by the works should be transplanted where practical.		۸
	Compensatory tree planting should be provided to compensate for felled trees.		٨
	Control of night-time lighting.		٨
Table	Erection of decorative screen hoarding compatible with the surrounding setting.	All construction sites	N/A
13.7			
G	Marine Ecology		
11.137	To minimize the potential indirect impacts on water quality from construction site runoff and various construction activities, the practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.	All construction sites	۸
Н	Hazard to Life		
14A.201	Limiting use of cranes in terms of locations, lifting height, swing angle and setting up safety zone.	Exact location will be determined on construction site by the engineer	۸

Remarks:	^ Compliance of mitigation measure;			
	N/A Not Applicable;			
	* Recommendation was made during site audit but			
	improved/rectified by the contractor.			
	# Recommendation was made during site audit and to be			
	improved / rectified by the contractor.			
	X Non-compliance of mitigation measure;			
	Non-compliance but rectified by the contractor;			

## APPENDIX H COMPLAINT LOG

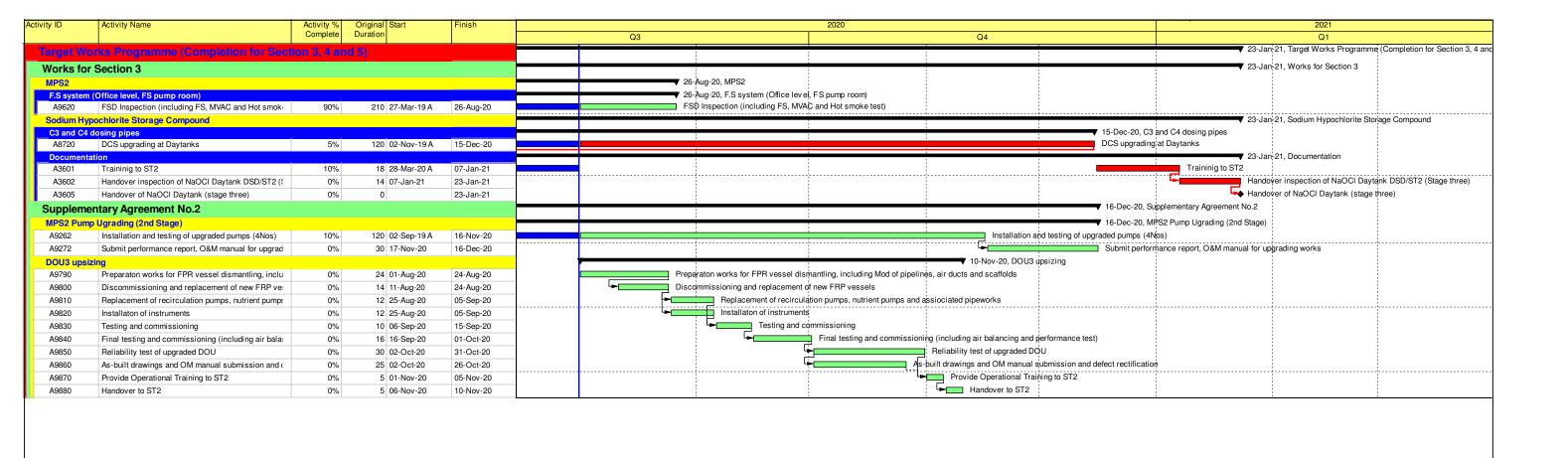
#### APPENDIX H - COMPLAINT LOG

**Reporting Quarter**: October to December 2020

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

**Remarks**: No environmental complaint was received in the reporting quarter.

# APPENDIX I CONSTRUCTION PROGRAMME



HATS Stage 2A - Upgrading works at StoneCutters Island Sewage Treatement Works

Sheet 1 of 1 Date Revision Checked Approved
26-Jul-18 Rev. 5
20-Nov-18 Rev. 6
11-Feb-19 Rev. 7

Target Works Programme for Completion of Section 3, 4 and 5

Contract No. DC/2009/10