

Lam Environmental Services Limited

CONTRACT NO: HY/2019/14

NEW WANG TONG RIVER BRIDGE

UNDER ENVIRONMENTAL PERMIT NO. EP-555/2018/A

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

JUNE 2023

CLIENTS:

Highways Department

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

14 July 2023



Highways Department Works Division 7th Floor, Trade and Industry Tower 3 Concorde Road Kowloon Hong Kong

Your reference:

Our reference:

HKHYD202/50/109045

Date: 14 July 2023

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Attention: Mr Kennick Ho

BY EMAIL & POST (email: e3-1.wd@hyd.gov.hk)

Dear Sirs

Agreement No. WD 23/2020 Environmental Monitoring and Audit for New Wang Tong River Bridge Monthly Environmental Monitoring & Audit Report (June 2023)

We refer to emails of 11 and 13 July 2023 attaching a Monthly Environmental Monitoring & Audit Report (June 2023) prepared by the Environmental Team (ET) of the captioned.

We have no comment and hereby verified the Monthly Environmental Monitoring & Audit Report (June 2023) in accordance with Clause 3.4 of the Environmental Permit no. EP-555/2018/A.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Frankie Yuen on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/LCCR/YCFF/lsmt

cc Lam Environmental Services Limited – Mr Raymond Dai (Fax no.: 2882 3331)







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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report June 2023 of New Wang Tong River Bridge under Environmental Permit no. EP-555/2018/A (Hereafter as "the Project"). The construction works of the Project was commenced on 12 July 2021 and the tentative completion date is Q3 2024. This is the 24th EM&A report presenting the environmental monitoring findings and information recorded during the period of 01 June 2023 to 30 June 2023. The cut-off date of reporting is at the end of each reporting month.
- ii. In the reporting month, the principal work activities conducted are as follow:
 - Retaining Wall Construction Bay N1, N2 and N3

Noise Monitoring

- iii. Noise monitoring was conducted at one noise monitoring station once per week in the reporting month.
- iv. No action or limit level exceedance was recorded in this reporting period.

Air Quality Monitoring

- v. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted at two monitoring station. 24-hour TSP shall be sampled at least once in every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 day in the reporting month.
- vi. No action or limit level exceedance was recorded in this reporting period.

Water Quality Monitoring

- vii. Water quality monitoring was conducted at seven monitoring stations three days per week according to the schedule in the reporting month.
- viii. Owing to accessibility and safety issues, water quality monitoring at Station W3 was cancelled with verification from the IEC in November 2020 and approval from the EPD in December 2020.
- ix. Limit level exceedance on Turb and SS was recorded at station W2 and W4 during mid-flood on 12 June. Investigation revealed this exceedance could be due to: Turb and SS exceedances was related to extremely low water level during mid-flood which may stir up the muddy sediment near W2 and W4; many trapped rubbish were found near W2 and W4 which may also cause the exceedances; extremely low water current flow during mid-flood which may cause the rubbish to stayed at W2 and W4; no exceedances were recorded upstream at W1 and downstream W5; no river channel blockage was observed.
- x. Limit level exceedance on SS was recorded at station W5 during mid-ebb on 14 June. Investigation revealed this exceedance could be due to: SS exceedance was related to the high SS (25.6 mg/L) recorded at W4; remaining trapped rubbish found from previous



monitoring near W4 were flowing to W5 may also cause the exceedance; no exceedances were recorded upstream at W1; no river channel blockage was observed.

Site Inspections and Audit

- xi. The Environmental Team (ET) conducted weekly site inspections on 8, 14, 21 and 28 June 2023. IEC attended the joint site inspection on 28 June 2023. No non-compliance was found during the site inspection while reminders on environmental measures were recommended.
- xii. The Environmental Team (ET) conducted monthly landscape site inspections on 28 June 2023. No non-compliance was found during the site inspection.

Complaints, Notifications of Summons and Successful Prosecutions

xiii. No environmental complaint, notification of summons and successful prosecution regarding the construction works was recorded in the reporting period.

Reporting Changes

xiv. There are no particular reporting changes.

Future Key Issues

xv. In coming reporting 3 months, the scheduled construction activities and the recommended mitigation measures are listed as follows:

Ke	y Construction Works	Recommended Mitigation Measures	
•	Retaining Wall Construction - Bay N1,	• Dust control during dust generating works;	
	N2 and N3	•	Implementation of proper noise pollution control;
•	Utility Ducting Installation	• Covering noisy part of piling machine with proper	
•	Utility Diversion	sound insulation material;	
		•	Provision of surface runoff collection and
			perimeter protection to properly treat runoff
			without direct discharge into Wang Tong River;
		•	Provision of water-tight cofferdam for piling
			construction in Wang Tong River; and
		•	Proper waste handling and storage.



1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) no. EP-555/2018/A to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for New Wang Tong River Bridge (Register No.: AEIAR-199/2016).
- 1.1.2. In accordance with Clause 3.4 stated in EP-522/2018/A, 1 hard copy and 1 electronic copy of Monthly EM&A Report shall be submitted to the Director within 10 working days after the end of each reporting month.
- 1.1.3. According to Section 10.3.1 of the Project EM&A Manual, the Monthly EM&A Report should be submitted within 10 working days of the end of each reporting month, with the first report due in the month after construction commences.

1.2 Structure of the Report

- Section 1 *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5 *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Environmental Site Audit summarizes the findings of weekly site inspections



undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

- Section 8 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 9 Conclusion



2 Project Background

2.1 Background

- 2.1.1. Silver Mine Bay is a popular bathing beach in Mui Wo, Lantau that attracted 4,550 visitors on a peak day and over 69,000 visitors utilized the beach in 2012.
- 2.1.2. In order to relieve the overcrowding problem and the road safety concern of Wang Tong Bridge (hereafter called "Old Bridge"), two bridges (pedestrian bridge and cycle bridge) are proposed to replace the Old Bridge. The new pedestrian bridge and the new cycle bridge (hereafter called "New Bridge") are also designed to align with the future amenity development on the northern side of the Old Bridge. The location of the project site is shown in *Figure 2.1*.
- 2.1.3. The Project consists of a designated project under Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) which is Item C.12 (a)...a dredging operation which is less than 500m from the nearest boundary of an existing...(iii) bathing beach...
- 2.1.4. The major components of the Project under Environmental Permit (EP) (EP No. EP-555/2018/A) comprises: (i) demolition of the existing Wang Tong River Bridge; and (ii) construction of a new twin bridge with segregation for pedestrians and cyclists.

2.2 Project Organization and Contact Personnel

- 2.2.1 Highways Department is the overall project controllers for the Project. For the construction phase of the Project, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.2.2 The project organization and lines of communication with respect to environmental protection works are shown in <u>Figure 2.2</u>. Key personnel and contact particulars are summarized in **Table 2.2**:



Party	Role	Post	Name	Contact No.	Contact Fax
Highways	The Engineer for the Contract	Senior Engineer	Mr. Terry Chung	3903 6799	3188 3418
Department (HyD)	Engineer's Representative	Engineer	Mr. Yeung Sui Chung	3903 6813	3188 3418
Unison Construction	Contractor	Site Agent	Mr. Peter Lui	2690 2232	2363 3199
Engineering Limited		Environmental Officer	Ms. Suki Chan		
ANewR Consulting Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. James Choi	2618 2831	3007 8648
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.3 Construction Activities

- 2.3.1 In the reporting month, the principal work activities conducted are as follow.
 - Retaining Wall Construction Bay N1, N2 and N3
- 2.3.2 In coming reporting 3 months, the scheduled construction activities are listed as follows:
 - Retaining Wall Construction Bay N1, N2 and N3
 - Utility Ducting Installation
 - Utility Diversion



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3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	EP-555/2018/A	16 Dec 2020	N/A	Valid
Billing Account for Disposal of Construction Waste	7038550	29 Mar 2021	End of the Project	Valid
Registration as a Chemical Waste Producer	5213-962-U2333-01	28 Jun 2021	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	Form NA submitted to E	PD on 25 Jun 202	1.	
Discharge Licence	WT00040069-2021	10/1/2022	31/1/2027	Valid
Construction Noise Permit	N/A			

3.2 Status of Submission under the EP-555/2018/A

3.2.1. A summary of the current status on submission under EP-555/2018/A is shown in Table 3.2.

Table 3.2 Summary of submission status under EP-555/2018/A

EP Condition	Submission	Date of Latest Submission^ or Approval#
Condition 1.12	Notification of Commencement Date of Works	3 June 2021 ^
Condition 2.7	Submission of Management Organization of Main Construction Companies, the ET and the IEC	20 May 2021 ^
Condition 2.8	Submission of Construction Works Schedule and Location Plan	22 June 2021 #
Condition 2.9	Submission of Breeding Bird Survey Report	29 December 2020 #
Condition 3.3	Submission of Baseline Monitoring Report	24 June 2021 #
Condition 4.2	Setting up Dedicated Internet Website	28 April 2021 ^



4 Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*.

Table 4.1 Noise Monitoring Station

Monitoring Station ID	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
NMS1 A	1 Tung Wan Tau Road	Free-field	G/F

Remarks A: As discussed with the lot owner, a fine adjustment of location at the boundary of 1 Tung Wan Tau Road was proposed and approved in the Baseline Monitoring Report, in order to prevent access obstruction.

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.2. For daytime construction work on normal weekdays (0700-1900 Monday to Saturday), one set of 30-min measurement shall be carried out at each NMS every week. Measurement procedures shall be referred to the Noise Control Ordinance-TM. Construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq 30min shall be used as the monitoring parameter. As supplementary information for data auditing, statistical results such as L10 and L30 shall also be obtained for reference.

MONITORING EQUIPMENT

4.1.3. Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in *Table 4.2*.

Table 4.2 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	Larson Davis LxT	4797
Acoustic Calibrator	Larson Davis CAL200	13437

4.1.4. The calibration certificates of the noise monitoring equipment are attached in Appendix 4.2.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.1. Monitoring Procedure
 - (a) The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
 - (b) Façade measurements were made at the monitoring locations. For free-field



measurement, a correction factor of +3 dB (A) would be applied.

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- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- (e) Frequency weighting: A, Time weighting: Fast, Measurement time set: continuous 5 mins
- (f) Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than ±1 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- 4.2.2. Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The sound level meter and calibrator were calibrated at yearly intervals.

EVENT AND ACTION PLAN

4.1.5. Noise Standards for Daytime Construction Activities are specified under EIAO-TM. The Action and Limit levels for construction noise are defined in *Table 4.3* and <u>Appendix 4.1</u>. Should non-compliance of the criteria occurs, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> shall be carried out.

Table 4.3 Action and Limit Level for Noise Monitoring

Monitoring Station	Action Level	Limit Level
NMS1	When one documented complaint is received	75 dB(A)



4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.3. The air monitoring stations for the Project are listed and shown in Table 4.4 and Figure 4.3.

Table 4.4 Air Monitoring Station

Monitoring Station	Location	Level (in terms of no. of floor)
AMS1 ^A	Silvermine Beach Resort	G/F
AMS2 ^{B, C}	1 Tung Wan Tau Road	G/F

Remarks A: AMS1 recommended under EM&A manual is at the north of boundary wall of Silvermine Beach Resort. Positioning of HVS on a narrow road at the northern boundary wall would obstruct access of passengers. After liaison with the resort owner, HVS is located near the eastern boundary wall, which is representative and suitable for air quality monitoring. Thus, fine adjustment of location at the boundary of Silvermine Beach Resort was therefore proposed and approved in the Baseline Monitoring Report.

Remarks B: As discussed with the lot owner, a fine adjustment of location at the boundary of 1 Tung Wan Tau Road was proposed and approved in the Baseline Monitoring Report, in order to prevent access obstruction and to minimize noise nuisance induced from HVS operation.

Remarks C: As the agreement of ER and IEC, a fine adjustment of location at the boundary of 1 Tung Wan Tau Road was proposed and approved in the impact monitoring since mid-September 2021, in order to prevent the interruption of GI working area conducted by contractor.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.4. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality.
- 4.2.5. 24-hour TSP shall be sampled at least once in every 6 days, while sampling for 1-hour TSP shall be at least 3 times in every 6 days when the highest dust impact takes place.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.6. 24-hour TSP Measuring Installation (HVS)
 - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (b) No furnace or incinerator flues were nearby.
 - (c) Airflow around the sampler was unrestricted
 - (d) 0.6 1.7 m³ per minute adjustable flow range
 - (e) Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - (f) Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - (g) Equipped with a shelter to protect the filter and sampler;
 - (h) Capable of operating continuously for a 24-hour period.
- 4.2.7. 24-hour Measuring Procedures
 - (a) The power supply was checked to ensure the HVS works properly.
 - (b) The filter holder and the area surrounding the filter were cleaned.
 - (c) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.

al	<u>m</u>	Lam Environmental Services Limited	Contract No: HY/2019/14 New Wang Tong River Bridge Monthly EM&A Report (June 2023)
	(d)	The filter was properly aligned on the screen so on the outer edges of the filter.	o that the gasket formed an airtight sea
	(e)	The swing bolts were fastened to hold the pressure applied should be sufficient to avoid	
	(f)	Then the shelter lid was closed and was secu	red with the aluminum strip.
	(g)	The HVS was warmed-up for about 5 minutes t	
	(h)	A new flowrate record sheet was set into the fl	
	(i)	The flow rate of the HVS was checked and adj specified in the EM&A Manual was between 0	.6-1.7 m ³ /min.
	(j)	The programmable timer was set for a samp starting time, weather condition and the filter n	01
	(k)	The initial elapsed time was recorded.	
	(I)	At the end of sampling, the sampled filter was	•
	<i>(</i>)	length so that only surfaces with collected part	
	(m)	It was then placed in a clean plastic envelope	
	(n) (o)	All monitoring information was recorded on a s Filters were sent to laboratory for further testin	
4.2.8.		Measuring Procedures	ıy.
	(a)	Check the calibration period of portable direct	reading dust meter prior to monitoring
	(a)	(The direct reading dust meter was calibrated	
		High Volume Sampler (HVS) yearly, details re	•
	(b)	Record the site condition near / around the mo	
	(c)	Install the portable direct reading dust meter to	•
	(d)	Slide the power switch to turn the power on.	
	(e)	Check of portable direct reading dust meter normal condition.	to ensure the equipment operation in
	(f)	Select the period of measurement to 60mins.	
	(g)	Check and set the correct time.	
	(h)	Select the appropriate unit display for the equi	-
	(i)	Slide the power switch to turn the power off	when the monitoring period ended (
		times 1 hour TSP monitoring per day).	
	(j)	Uninstall the portable direct reading dust mete	r
	(k) Domo	Collected the sampled data for analysis.	t to the brende and medale of portabl
		ark: Procedures (c) to (h) may be different subjec reading dust.	a to the brands and models of portabl
4.2.9.	Mainter	nance and Calibration	
	(a)	The direct reading dust meter was calibrated High Volume Sampler (HVS) yearly to deter	-
	(b)	results measured. Checking of direct reading dust meter will be conversion factor between the direct reading d HVS. The comparison check is to be considere checked by HOKLAS laboratory	ust meter and the standard equipmen



4.2.10. High Volume Sampler (HVS – Model TE-5170) completed with the appropriate sampling inlets were installed for the 24-hour TSP sampling. 1-hour TSP air quality monitoring was performed by using portable direct reading dust meters at each designated monitoring station, which was verified by IEC and approved by the Engineer's Representative (ER) on 4 December 2020 according to Section 3.4.5 and 3.3.2 of the Project EM&A Manual. The brand and model of the equipment are given in *Table 4.5*.

Table 4.5 Air Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Portable direct reading dust meter	Met One Aerocet 831	W15449, Y23153
High Volume Sampler	TE-5170	HVS019 HVS020

4.2.11. The calibration certificates of the air quality monitoring equipment are attached in <u>Appendix</u> <u>4.2</u>.

WIND DATA

4.2.12. Hong Kong Observatory (HKO) meteorological information is widely accepted to be used in various environmental monitoring practices within HKSAR due to its professional quality and precision. Therefore, the daily wind data including Prevailing Wind Direction (degrees) and Mean Wind Speed (km/h) were obtained from Peng Chau Automatic Weather Station to serve as the representative data for meteorological condition during monitoring. The method was agreed by the IEC and approved by the ER on 4 December 2020. The representative wind data from Peng Chau Station were obtained covering the 1-hour and 24-hour TSP monitoring periods. The wind data were extracted and shown in <u>Appendix 4.3</u>.

EVENT AND ACTION PLAN

4.2.13. The Action and Limit levels for construction air quality are defined in *Table 4.6* and <u>Appendix</u>
 <u>4.1</u>. Should non-compliance of the air quality criteria occur, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> shall be carried out.

Parameter	Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
24-hour TSP Level	AMS1	176.0	260.0
	AMS2	176.0	260.0
1-hour TSP Level	AMS1	276.5	500.0
1-nour ISP Level	AMS2	283.7	500.0

Table 4.6 Action and Limit Level for Air Quality Monitoring



4.3 Water Quality Monitoring

WATER QUALITY MONITORING STATIONS

4.3.1. Water quality monitoring was undertaken at 7 monitoring stations in the reporting month. The proposed water quality monitoring stations of the Project are shown in *Table 4.7* and *Figure* 4.3.

Station	Description	Monitoring Period	Monitoring Station	Easting	Northing	
W1	Wang Tong River	Mid-Flood	Impact	817747	814519	
VVI	(Major tributary)	Mid-Ebb	Control	01//4/	014519	
W2	Wang Tong River	Mid-Flood	Impact	817775	814471	
VVZ	(Major tributary)	Mid-Ebb	Control	01775	014471	
W3 *	Wang Tong River	Mid-Flood	Impact	817803	814537	
003	(Minor tributary to Tai Wai Yuen)	Mid-Ebb	Control	017003	014037	
W4	Wang Tong River	Mid-Flood	Impact	817825	814481	
VV4	(Minor tributary to Tai Wai Yuen)	Mid-Ebb	Control	017025	014401	
W5	Silvermine Bay	Mid-Flood	Control	817909	814452	
VV5	(Near Silvermine Bay Beach)	Mid-Ebb	Impact	017909	014452	
W6	Silvermine Bay	Mid-Flood	Control	818024	814447	
000	(Near Silvermine Bay Beach)	Mid-Ebb	Impact	010024	014447	
W7	Silvermine Bay	Mid-Flood	Control	818061	814277	
VV /	(Open Water)	Mid-Ebb	Impact	010001	014277	
W8	Silvermine Bay	Mid-Flood	Control	010004	011111	
۷۷O	(Open Water)	Mid-Ebb	Impact	818224	814444	

Table 4.7	Marina Water Qualit	v Stations for M	Vator Quality	Monitoring
<i>Table 4.1</i>	Marine Water Qualit	y Stations for V	vater Quality	/ womtoring

Remark *: Water quality monitoring at Station W3 was cancelled with verification from the IEC and approval from the EPD.

WATER QUALITY PARAMETERS, FREQUENCY AND DURATION

- 4.3.2. The levels of dissolved oxygen (DO), turbidity, salinity and pH shall be measured in situ while suspended solids (SS) is determined by laboratory analysis at all the designated monitoring stations.
- 4.3.3. In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, water temperature, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.
- 4.3.4. Impact Monitoring shall be carried out 3 days per week, at mid-flood and mid-ebb tides (within ± 1.75 hour of the predicted time). The interval between two sets of monitoring shall not be less than 36 hours. The monitoring period should avoid concurrent marine project in the vicinity.
- 4.3.5. The sampling frequency of at least three days per week should be undertaken when the highest dust impact occurs. Upon completion of the construction works, the monitoring exercise at the designated monitoring locations should be continued for four weeks in the same manner as the impact monitoring. In case exceedance of Action/Limit Level is recorded, the frequency shall be increased as per the Event and Action Plan.



4.3.6. To ensure the robustness of in-situ measurement, parameters shall be measured in duplicate. In case the difference between duplicates is larger than 25%, a third set of measurement shall be carried out.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

Dissolved Oxygen, pH And Temperature Measuring Equipment

- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen and pH measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a pH level in the range of 0 to 14 units
 - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. Salinity compensation shall be build-in in the DO equipment

Turbidity Measurement Instrument

4.3.9. Nephelometric method shall be used in measuring turbidity in-situ. The instrument shall be portable, weatherproof complete with a cable, sensor, comprehensive operation manuals and DC power source. It shall have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and complete with a cable with at least 25 m in length. The meter shall be calibrated in order to establish the relationship between NTU units and suspended solids level. Turbidity shall be measured on split water sample collected from the same depths of suspended solid samples.

Sampler

4.3.10. A water sampler, consisting of a transparent PVC or glass cylinder of a capacity of not less than two litres which can be effectively sealed with cups at both ends shall be used. The water sampler shall have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

Sampler Container and Storage

4.3.11. A water sampler, Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.



Water Depth Detector

4.3.12. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

<u>Salinity</u>

4.3.13. A portable salinometer capable of measuring salinity in the range of 0-40% shall be provided for measuring salinity of the water at each of monitoring location.

Monitoring Position Equipment

4.3.14. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

MONITORING METHODOLOGY

- 4.2.14. Monitoring Procedure
 - (a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
 - (b) Check of sensors and electrodes with certified standard solutions before each use.
 - (c) Wet bulb calibration for a DO meter should be carried out before measurement.
 - (d) Water depth should be recorded by detector before sampling.
 - (e) Sample would be taken using bucket sampler at surface level.
 - (f) Transfer the sampled water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory Suspended Solid testing.
 - (g) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water from the bucket sampler will be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.
 - Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter. (Water Temperature and Salinity will be measured as reference parameters)
 - (i) Record the result on the data log sheet and record any special finding during / after in-situ measurement.
 - (j) The water sample bottles will be stored in a cool box (at cooled to 4°C without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of SS.



4.2.15. Maintenance and Calibration

- (a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
- (b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals.
- 4.3.15. Brand and model of the equipment are given in *Table 4.8*.

Table 4.8 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	YSI Professional Plus	14E100105
Turbid meter	Xin Rui WGZ-3B	1807063

4.3.16. Calibration certificates of the water quality monitoring equipment attached in <u>Appendix 4.2</u> will be prepared in the reporting month during commencement of monitoring.

LABORATORY MEASUREMENT / ANALYSIS

4.3.17. Analysis of suspended solids will be carried out in a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty Ltd.

EVENT AND ACTION PLAN

4.3.18. The Action and Limit levels for construction water quality are defined in **Table 4.9** and <u>Appendix 4.1</u>. Should the monitoring results of the water quality parameters at any designated monitoring station exceed the water quality criteria, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> shall be carried out.



Monitoring		DO (m	ig/L) +	Turbidity	/ (NTU) ~	SS (m	ig/L) ~		
Station	Depth	Action	Limit	Action	Limit	Action	Limit Level		
Station		Level	Level	Level	Level	Level	Lillin Level		
W1				7.7 NTU or 120% of upstream	12.4 NTU or 130% of upstream	8.9 mg/L or 120% of upstream	11.3 mg/L or 130% of upstream		
W2	Surface, Middle & Bottom	6.5 5.3	ace, blestation'sstation's6.55.3turbidity at the sameturbidity at the sameomide of the same day,tide of the same day,same day,	dle 6.5 5.3 turbidity a		station's turbidity at the same	turbidity at the same	control station's SS at the same tide of the same day, whichever is higher	control station's SS at the same tide
W4						same day, whichever	of the same day, whichever is higher		
W5	Surface,			9.8 NTU or	10.5 NTU	12.6	15.0 mg/L		
W6	Middle &			120% of upstream	or 130% of upstream	mg/L or 120% of	or 130% of upstream		
W7	Bottom			control	control	upstream	control		
W8	Surface & Middle	5.9	5.9	5.9 5.5	station's turbidity at the same tide of the same day, whichever	station's turbidity at the same tide of the same day, whichever	control station's SS at the same tide of the same day, whichever	station's SS at the same tide of the same day, whichever	
	Bottom	5.9	5.5	is higher	is higher	is higher	is higher		

Table 4.9 Action and Limit Level for Water Quality Monitoring

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Remarks +: For DO, non-compliance occurs when monitoring results is lower than the limits. Remarks ~: For SS and Turbidity, non-compliance occurs when monitoring results is larger than the limits



5 Monitoring Results

- 5.0.1 The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in *Figure 2.1* and *Figure 4.1 4.3* respectively.
- 5.0.2 The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

- 5.1.1 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*.
- 5.1.2 No action or limit level exceedance was recorded in this reporting month.

5.2 Air Monitoring Results

- 5.2.1 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3.</u>
- 5.2.2 No action or limit level exceedance was recorded in this reporting month.

5.3 Water Quality Monitoring Results

- 5.3.1 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4*.
- 5.3.2 Exceedances were recorded in this reporting month. Event and Action Plan has been implemented with appropriate action taken as referred to corresponding notification of exceedance. Summary of exceedances recorded during the reporting month are summarized in *Table 5.3*.



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	Parameter	DO (S	S&M)	DO (Bo	DO (Bottom)		DO (Bottom) Turbidity		SS		Exceedance count	
Station	Level	Mid Ebb	Mid	Mid Ebb	Mid	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid	Mid	
	exceeded		Flood		Flood					Ebb	Flood	
W1	Action	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	
	Limit	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	
W2	Action	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	
	Limit	N/A	-	N/A	-	12/06/23	-	12/06/23	-	N/A	2	
W4	Action	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-	
	Limit	N/A	-	N/A	-	12/06/23	-	12/06/23	-	N/A	2	
W5	Action	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
	Limit	-	N/A	-	N/A	-	N/A	-	14/06/23	1	N/A	
W6	Action	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
	Limit	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
W7	Action	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
	Limit	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
W8	Action	-	N/A	-	N/A	-	N/A	-	N/A	1	N/A	
Surface	Limit	-	N/A	-	N/A	-	N/A	-	N/A	1	N/A	
W8	Action	-	N/A	-	N/A	-	N/A	-	N/A	1	N/A	
Bottom	Limit	-	N/A	-	N/A	-	N/A	-	N/A	-	N/A	
Total	Action	-	-	-	-	-	-	-	-	-	-	
	Limit	-	-	-	-	2	-	2	1	1	4	

 Table 5.1
 Summary of Water Quality Exceedances

- 5.3.3 Limit level exceedance on Turb and SS was recorded at station W2 and W4 during mid-flood on 12 June. Investigation revealed this exceedance could be due to: Turb and SS exceedances was related to extremely low water level during mid-flood which may stir up the muddy sediment near W2 and W4; many trapped rubbish were found near W2 and W4 which may also cause the exceedances; extremely low water current flow during mid-flood which may cause the rubbish to stayed at W2 and W4; no exceedances were recorded upstream at W1 and downstream W5; no river channel blockage was observed.
- 5.3.4 Limit level exceedance on SS was recorded at station W5 during mid-ebb on 14 June. Investigation revealed this exceedance could be due to: SS exceedance was related to the high SS (25.6 mg/L) recorded at W4; remaining trapped rubbish found from previous monitoring near W4 were flowing to W5 may also cause the exceedance; no exceedances were recorded upstream at W1; no river channel blockage was observed.

5.4 Waste Management

5.4.1 The quantities of waste for disposal in the Reporting Period are summarized in *Table 5.2* and *Table 5.3*. The Monthly Summary Waste Flow Table is shown in <u>Appendix 5.5</u>. Whenever possible, materials were reused on-site as far as practicable.



Waste Type	Quantity (this month)	Quantity (Project commencement to the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m ³)	0	0.007	0.007
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m ³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0	0.401	0.401

Table 5.2 Summary of Quantities of Inert C&D Materials

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Table 5.3 Summary of Quantities of C&D Wastes

Waste Type	Quantity (this month)	Quantity (Project commencement to the end of last month)	Cumulative Quantity-to-Date
Metals (in '000kg)	0	0	0
Paper / Cardboard Packing (in '000kg)	0	0	0
Plastics (in '000kg)	0	0.03	0.03
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000m³)	0	0.1735	0.1735



6 Compliance Audit

- 6.1.1 The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.
- 6.1.2 The summary of exceedance is presented in <u>Appendix 6.2</u>.

6.2 Noise Monitoring.

6.2.1 No action or limit level exceedance was recorded in this reporting period.

6.3 Air Quality Monitoring

6.3.1 No action or limit level exceedance was recorded in this reporting period.

6.4 Water Quality Monitoring

- 6.4.1 Limit level exceedance on Turb and SS was recorded at station W2 and W4 during mid-flood on 12 June. Investigation revealed this exceedance could be due to: Turb and SS exceedances was related to extremely low water level during mid-flood which may stir up the muddy sediment near W2 and W4; many trapped rubbish were found near W2 and W4 which may also cause the exceedances; extremely low water current flow during mid-flood which may cause the rubbish to stayed at W2 and W4; no exceedances were recorded upstream at W1 and downstream W5; no river channel blockage was observed.
- 6.4.2 Limit level exceedance on SS was recorded at station W5 during mid-ebb on 14 June. Investigation revealed this exceedance could be due to: SS exceedance was related to the high SS (25.6 mg/L) recorded at W4; remaining trapped rubbish found from previous monitoring near W4 were flowing to W5 may also cause the exceedance; no exceedances were recorded upstream at W1; no river channel blockage was observed.

6.5 Review of the Reasons for and the Implications of Non-compliance

6.5.1 No environmental non-compliance was recorded in the reporting month.

6.6 Summary of action taken in the event of and follow-up on non-compliance

6.6.1 There was no particular action taken since no non-compliance was recorded in the reporting period.



7 Environmental Site Audit

- 7.0.1. Within this reporting month, weekly environmental site audits were conducted on 8, 14, 21 and 28 June 2023. IEC attended the joint site inspection on 28 June 2023.
- 7.0.2. No non-compliance was found during the site inspection while reminders on environmental measures were recommended. Results and findings of these inspections in this reporting month are listed below in *Table 7.1*.

Reminder(s)/ Action taken by Item Date Outcome Observation(s) Contractor Nil. 20230608_1 08 June 2023 Nil. Nil. 20230614 1 14 June 2023 Nil. Nil. Nil. Reminder: **Construction materials** All materials 20230621_1 21 June 2023 should be covered and covered and stored Completed. stored properly after properly. use. Obs. 1: Chemicals should be Chemicals were put 20230628_1 28 June 2023 Completed. placed on the drip tray on the drip tray. and stored properly.

Table 7.1 Summary of Environmental Inspections

- 7.0.3. Within this reporting month, monthly landscape site audits were conducted on 28 June 2023.
- 7.0.4. No non-compliance was found during the landscape site inspection. Results and findings of these inspections in this reporting month are listed below in *Table 7.2*.

Table 7.2 Summary of Landscape site inspections

ltem	Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
-	-	-	-	-



8. Complaints, Notification of Summons and Prosecution

- 8.0.1. No environmental complaint, notification of summons and successful prosecution regarding construction works was recorded in the reporting period.
- 8.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 8.1*.
- 8.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 8.1* and *Table 8.2* respectively.

Table 8.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
June 2023	0
Project commencement to the end of last reporting month	-
Total	0

Table 8.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



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9. Conclusion

- 9.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 9.0.2. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.
- 9.0.3. The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in *Table 9.1*. The construction programmes of the Project are provided in <u>Appendix 9.1</u>.

Table 9.1 Construction Activities and Recommended Mitigation Measures in ComingReporting 3 Months

Ke	y Construction Works	Re	commended Mitigation Measures
•	Retaining Wall Construction – Bay N1,	•	Dust control during dust generating works;
	N2 and N3	•	Implementation of proper noise pollution control;
•	Utility Dusting Installation	•	Covering noisy part of piling machine with proper
•	Utility Diversion		sound insulation material;
		•	Provision of surface runoff collection and
			perimeter protection to properly treat runoff
			without direct discharge into Wang Tong River;
		•	Provision of water-tight cofferdam for piling
			construction in Wang Tong River; and
		•	Proper waste handling and storage.



Figure 2.1

Project Layout



N N	PRINCIPAL DA 2. CO-ORDINATE SYSTEM. 3. ALL LEVELS AI 4. CHANNELS AR WIDTHS ARE G	ES ARE OF HONG KONG 1980 GRIE LONG KERB ARE KERB BOTTOM LE E U SHAPED EXCEPT WHERE STAT) EVEL. ED,
	LEGEND:		
I		LIMIT OF WORKS SITE	
	<u> </u>	HIGH WATER MARK (AS AT NOV.2020)	
		PROPOSED PILECAP AND SOCKETED H PILES	
		EXCAVATION AND PILING WC AREA WITHIN COFFERDAM	RKS
		EXCAVATION AREAS BELOW HIGH WATER MARK	
		PROPOSED BRIDGE PIERS	
		EXTENT OF ABUTMENTS	
		WORKS LAYOUT	
	SOURCE		
		× / 1 /	
	HY/2019/14		
	NEW WANG TONG RIVER Bridge		
	DRAWING TITLE		
	LOCATION PLAN		
	SCALE	A1 59-	4X841
	drawing no. CLF	P-EP-01	REV. -
	Į		



Figure 2.2

Project Organization Chart



Project Organization Chart

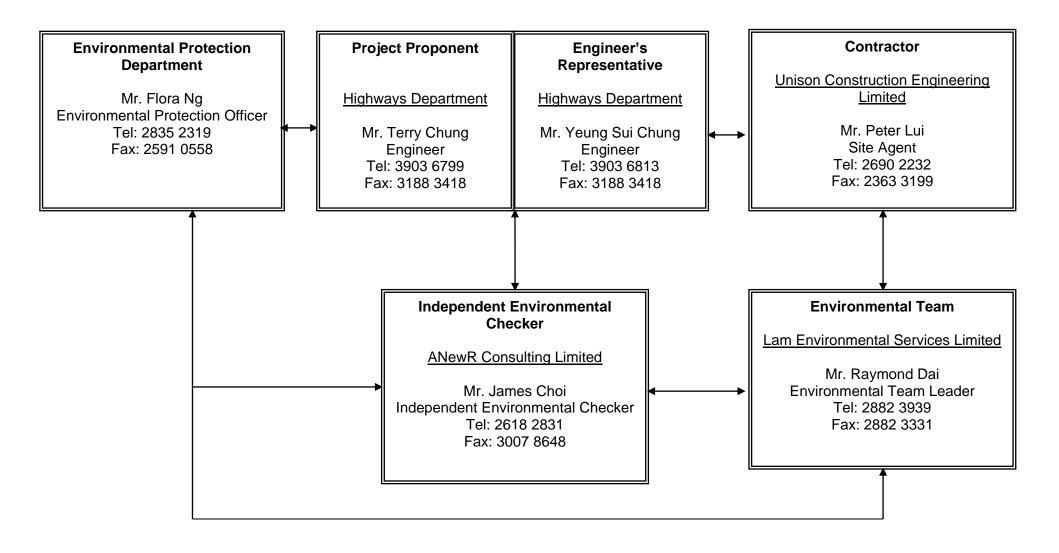
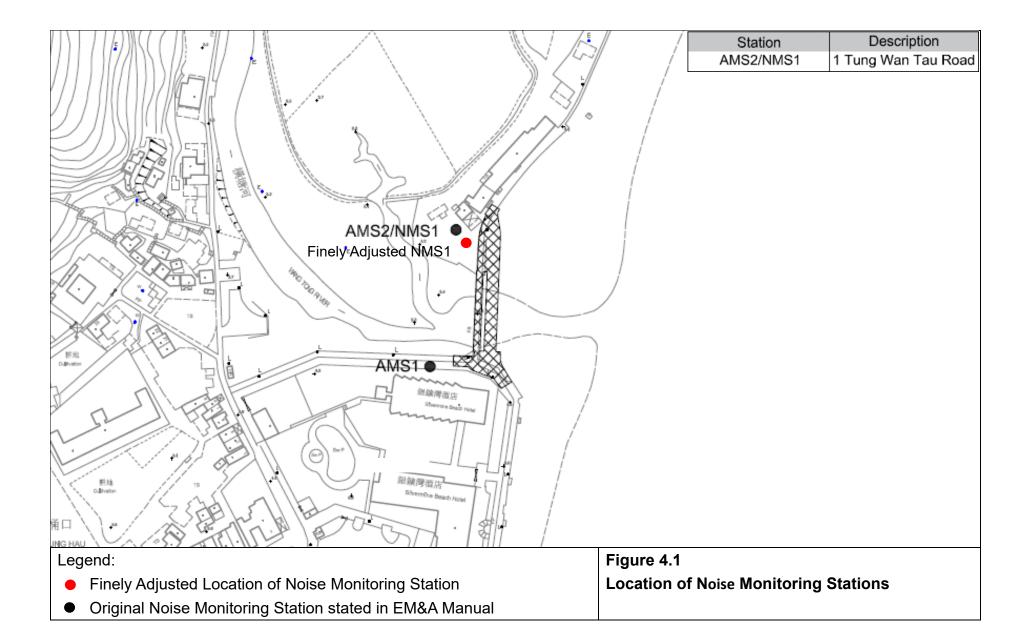
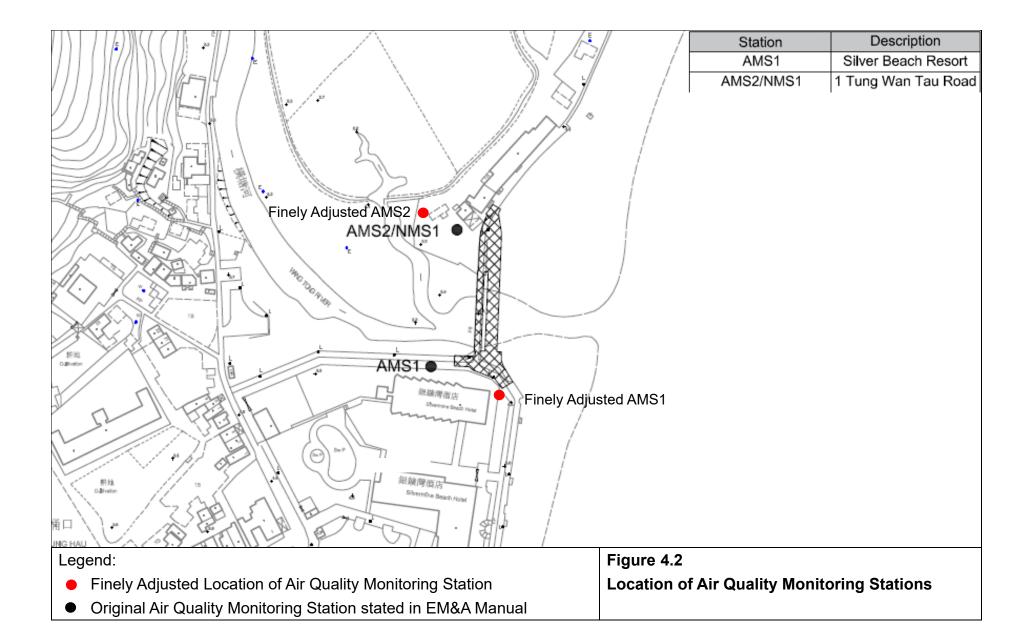


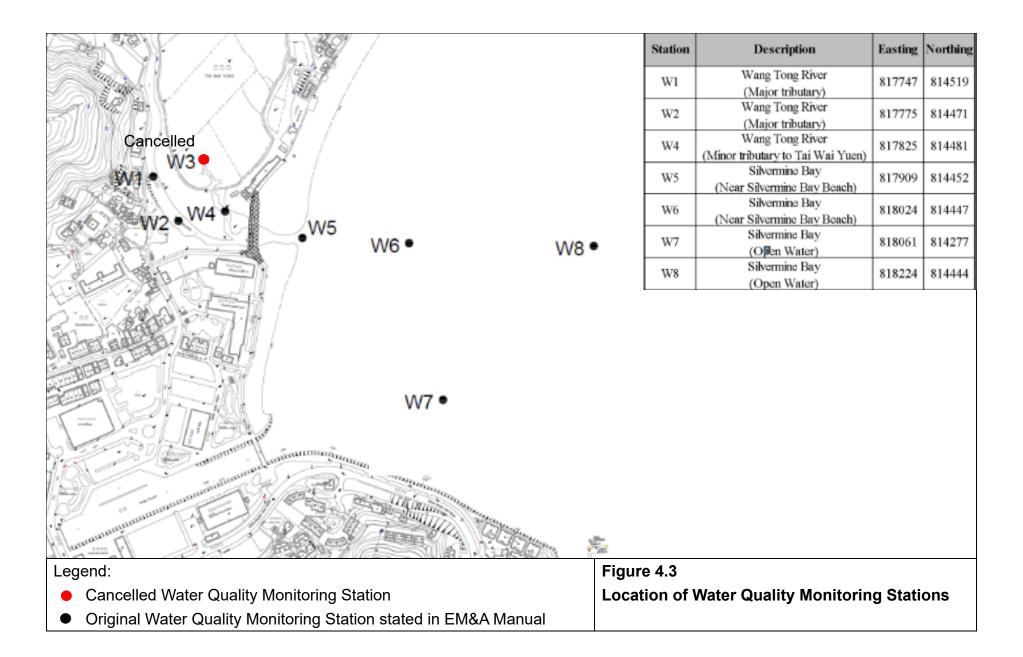


Figure 4.1 to Figure 4.3

Locations of Monitoring Stations









Appendix 3.1

Environmental Mitigation Implementation Schedule

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
	tion Phase					
A1	Good housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	To minimize dust generation	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A2	Adopt dust control measures, such as dust suppression using water spray on exposed soil, in areas with dusty construction activities, and during material handling	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A3	Dust suppression shall be applied to the working area immediately before, during and immediately after site clearance, excavation or earth moving operation to keep the surface wet.	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A4	Use water spray to wet the remaining dusty materials on the floor after removing stockpile. The surface of roads or streets shall be free from dust	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A5	Storage of dusty materials and debris shall be either entirely covered by impervious sheeting or stored in a three-side and top enclosed area. Alternatively, it should be sprayed with water or a dust suppression chemical to maintain the entire surface wet	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A6	All demolished items (e.g. trees, vegetation, structures, debris and rubbish) that may dislodge dust particles shall be covered entirely by impervious sheeting or placed in a three-side and top enclosed area within a day of demolition.	To minimize dust generation	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A7	Store cement bags in shelter with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags	To prevent leakage of cement	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A8	Cement bag shall be debagged, batched and mixed in a three- side and top enclosed area	To minimize dust generation	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A9	Maintain a reasonable height when dropping excavated materials to limit dust generation	To minimize dust generation during movement of excavated materials	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A10	Minimize exposed earth after completion of work in a certain area by hydroseeding, vegetating, soil compacting or paving	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO

Appendix 3.1 - Implementation Schedule of Recommended Mitigation Measures

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
A11	Cover materials on trolleys and trucks before leaving the site to prevent debris from dropping during traffic movement or being blown away by wind	To prevent falling of debris during traffic movement and by wind	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A12	Water or a dust suppression chemical shall be continuously sprayed on the surface where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation is carried out, unless the process is accompanied by the operation of an effective dust extraction and filtering device	To minimize dust emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A13	Regular maintenance of plant equipment to prevent black smoke emission	To minimize black smoke emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A14	Throttle down or switch off unused machines or machine in intermittent use	To minimize unncessary emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A15	Minimize excavation area as far as possible	To minimize dust emission and potential release of odour from exposed ground	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A16	Cover open stockpiles of construction materials (e.g. aggregates, sand and fill materials) with impermeable materials such as tarpaulin during rainstorms.	To prevent soil erosion under rainstorm	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A17	Hoarding of not less than 2.4 m high shall be erected from ground level to surround the work area except for a site entrance or exit	To minimize dust emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO
A18	Carry out air quality monitoring throughout the construction period	To monitor construction dust level	HyD's Contractor	At representative ASRs	Prior to and throughout construction phase	EIAO-TM
A19	Carry out regular site inspection to audit the implementation of mitigation measures	To check the implemenation status and effectiveness of mitigation measures	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
Noise Im						
Construct	tion Phase		1		I	
N1	Schedule noisy activities to minimise exposure of nearby NSRs to high levels of construction noise	To minimize construction noise level	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N2	Use hand-held plant equipment or manual equipment as far as possible	To minimize construction noise level	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N3	Use Quality Powered Mechanical Equipment (QPME) which produces lower noise level	To minimize construction noise level	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N4	In the direction of noise sensitive receivers, erect mobile barriers with 3m in height from a few metres of stationary plants, and from about 5m of more mobile plant such as hydraulic breaker to prevent direct view. The barrier should have skid footing and a small cantilevered upper portion. The minimum surface density of the movable noise barrier is 7 kg/m ² and provide with noise absorbing material.	To lower noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N5	Position mobile noisy equipment in location and direction away from NSR	To minimize noise transmission to NSR	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N6	Use silencer or muffler on plant equipment and should be properly maintained	To minimize noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N7	Operate noisy plant equipment such as air compressor, generator and concrete pump within enclosure	To minimize noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N8	Cover the noisy part of piling machine with acoustic mat	To minimize noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N9	Throttle down or switch off unused machines or machine in intermittent use between work	To mimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N10	Avoid carrying out noisy activities at the same time	To mimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
N11	Reduce the percentage on-time for some noisy PMEs	To mimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO, EIAO-TM
N12	Carry out noise monitoring throughout the construction period	To monitor construction noise level	HyD's Contractor	At representative NSRs	Prior to and throughout construction phase	EIAO-TM

EM&A Ref.	Recommended Mitigation Measures uality Impact	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
	tion Phase					
W1	Works in the river (excavation within highwater mark and cutting of pier of Old Bridge) shall be carried out inside the watertight cofferdam. The cofferdam can only be removed after completion of work.	To prevent the excavated materials or cuttings from falling into the water and being carried into the sea	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM
W2	Install sheet piles by vibratory action.	To minimize dispersion of sand	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W3	Erect water-tight temporary working platform that can contain falling debris above Wang Tong River. The platform shall be sheltered by tarpaulin for directing rainwater away from the working platform.	To prevent falling of debris and generation of surface runoff into the river	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W4	Water removed from the cofferdam should be desilted before discharge.	To prevent discharge of silty water	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM
W5	Set up sedimentation tank for settling suspended solids in wastewater before discharge into storm drains. Sand/silt removal facilities such as sand traps, silt traps and sedimentation basin should be provided with adequate capacity.	To reduce the amount of suspended solid in wastewater	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W6	Maintain silt removal facilities, channels, manholes before and after rainstorm.	To prevent failure that may lead to flooding	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W7	Remove silt and grit from silt trap at regular interval.	To prevent blockage that may lead to flooding	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W8	Design works program carefully to minimize work areas, hence minimize soil exposure and site runoff.	To minimize surface runoff and chance of erosion	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W9	 Arrange excavation works outside rainy seasons (April to September) as far as possible. If this cannot be achieved, the following measures should be implemented: Cover temporary exposed slope surfaces with impermeable materials, e.g. tarpaulin Protect temporary access roads by crushed stone or gravel Carry out adequate surface protection measures well before the arrival of a rainstorm 	To minimize surface runoff and chance of erosion	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
W10	Minimize exposed earth after completion of work in a certain area by hydroseeding, vegetating, soil compacting or paving	To prevent soil erosion under rainstorm	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W11	Cover open stockpiles of construction materials (e.g. aggregates, sand and fill materials) with impermeable materials such as tarpaulin during rainstorms.	To prevent soil erosion under rainstorm	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W12	Cover and temporary seal manholes to prevent silt, construction materials or debris and surface runoff from entering foul sewers.	To prevent overloading of foul sewers	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W13	Placing equipment, materials and wastes away from Wang Tong River and Silver Mine Bay	To prevent water contamination	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM
W14	Remove waste from the site regularly.	To prevent waste accumulation	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
W15	Apply discharge license for effluent discharge. Treat the discharge to comply with the requirement in TM-DSS.	To ensure compliance with effluent discharge requirement	HyD's Contractor	Whole construction site	Throughout construction phase	WPCO, TM-DSS, EIAO-TM
W16	Reuse treated effluent onsite, e.g. dust suppression and general cleaning.	To minimize wastewater generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
W17	Monitor effluent water quality.	To ensure compliance with effluent discharge requirement	HyD's Contractor	Whole construction site	Throughout construction phase	WPCO, EIAO-TM
W18	Register as chemical waste producer if chemical waste will be generated.	To control chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
W19	Perform maintenance of vehicles and equipment that have oil leakage and spillage potential on hard standings within a bunded area with sumps and oil interceptors.	To prevent oil leakage or spillage	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
W20	Dispose chemical waste in accordance to Waste Disposal Ordinance. Follow the <i>Code of Practice on the Packaging,</i> <i>Labelling and Storage of Chemical Wastes</i> , examples as follows: - Store chemical wastes at designated safe location with adequate space	To avoid accident in waste storage and handling	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
W21	Placing chemical toilet away from waterbodies as far as possible and on stable, impermeable surface	To minimize accidental leakage of sewage into waterbodies	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
W22	Carry out water quality monitoring at water sensitive receivers	To identify any water quality impact due to the project	HyD's Contractor	Whole construction site	Before, throughout and after construction phase	EIAO-TM
W23	Carry out regular site inspection to audit the implementation of mitigation measures	To check the implemenation status and effectiveness of mitigation measures	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
Ecologic	al Impact					
Construc	tion Phase					
E1	Before site clearance, the work area should be inspected by ecologist to confirm no active bird nest is present. If any active bird nest is identified, suitable size of buffer area should be established until the nest is abandoned.	To minimize direct impact on the breeding activity of Black- collared Starling	HyD's Contractor	Whole construction site	Before site clearance	EIAO-TM
E2	Erection of hoarding, fencing or provision of clear demarcation of work zones	To minimize direct impact outside work boundary	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
	lanagement					
Construc	tion Phase		1	1	T	
WM1	Allocate an area for waste sorting and storage of C&D materials into the following categories for reuse, recycle or disposal if possible. Remove waste from the Site for sorting once generated if no suitable space can be identified. - excavated material suitable for reuse - inert C&D materials for reuse/disposal offsite - non-inert C&D materials for disposal at landfills - chemical waste - general refuse	To minimize waste generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
WM2	Adopt good site practice as follows: - Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures - Provide sufficient waste collection points and regular removal - Cover waste materials with tarpaulin or in enclosure during transportation - Maintain drainage systems, sumps and oil interceptors - Sort out chemical waste for proper handling and treatment onsite or offsite	To proper handling of waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
WM3	Adopt waste reduction measures as follows: - Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans). Remove waste from the Site for sorting once generated if no suitable space can be identified. - Allocate area for proper storage of construction materials to prevent contamination	To minimize waste generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
WM4	Prepare and implement a site specific Waste Management Plan (WMP) as part of Environmental Management Plan (EMP) in accordance with ETWB TCW No. 19/25. Detail waste management method in the form of avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal according to the recommendations on the EIA and EM&A Manual. It should be approved by the ER and regularly reviewed.	To provide guidance to waste management	HyD's Contractor	Whole construction site	Throughout construction phase	ETWB TCW No. 19/2005, EIAO- TM
	Store waste materials properly as follows:					
	- Avoid contamination by proper handling and storing waste	To properly store waste	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM
WM5	 Prevent erosion by covering waste Maintain and clean storage area regularly 					
	- Sort and stockpile different materials at designated location to enhance reuse			site	phuse	
WM6	Apply for relevant waste disposal permits in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28).	To properly dispose waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), Dumping at Sea Ordinance (Cap. 466), EIAO- TM
WM7	Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes	To monitor movement of waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, Waste Disposal Ordinance, EIAO-TM
WM8	Reduce water content in wet spoil generated from piling work by mixing with dry materials. Only dispose treated spoil with less than 25% dry density to Public Fill Reception Facilities	To minimize load to reception facilities	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
WM9	Dispose dry waste or waste with less than 70% water content by weight to landfill	To minimize load to reception facilities	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
WM10	 Follow the <i>Code of Practice on the Packaging, Labelling and</i> <i>Storage of Chemical Waste</i> as follows: Store chemical wastes with suitable containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation The container capacity should be smaller than 450 litres unless agreed by the EPD 	To avoid accident in waste storage and handling	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
W11	Comply with the requirement of the chemical storage area: - Store only chemical waste and label clearly the chemical characters of the waste - Have at least 3 sides enclosed and protected from rainfall with cover - Provide sufficient ventilation - Have impermeable floor and has bunds to contain 110% of the capacity of the largest container or 20% of the total volume of the stored waste in the area, whichever is larger - Adequately spaced incompatible materials	To ensure proper storage of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
W12	Transfer used lubricants, waste oils and other chemicals to oil recycling companies, if possible, and empty oil drums for reuse or refill. No direct or indirect discharge is permitted	To ensure proper disposal of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
W13	Hire licensed chemical waste disposal contractors for waste collection and removal. Dispose chemical waste at the approved CWTC at Tsing Yi or other licensed facility	To ensure proper disposal of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM
W14	Provide recycling bins for sorting out recyclables for collection by recycling companies. Non-recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance.	To ensure proper recycling and disposal of general refuse	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM
W15	Terminate excavation work if contaminated soil is found. Prepare Land Contamination Plan (CAP) in accordance with EPD's Guidance Note for Contaminated Land Assessment and Remediation for identifying soil and groundwater sampling locations, followed by testing and remediation where necessary.	To identify presence of contaminated soil and provide proper remediation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
W16	Marine sediment shall be cement solidified and and sent to laboratory for Toxicity Characteristics Leaching Procedure (TCLP) test according to USEPA Method 1311 and 6020. The results are considered satisfactory if Universal Treatment Standards (UTS) are being met as per Table 4.6 of Practice Guide of Investigation and Remediation of Contaminated Land. The Unconfined Compressive Strength (UCS) of the solidified sediment shall also reach 1000kPa according to the above Practice Guide. If the TCLP and UCS testing results cannot meet the criteria, the sediment shall be retreated by cement solidification. After passing the tests, the solidified sediment shall be backfilled on land after the piling work (e.g. for construction of new piers and abutments). Alternatively, the solidified sediment shall be delivered to public fill reception facilities for beneficial reuse as the last resort.	To prevent leakage of contaminants to water.	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO- TM, Practice Guide of Investigation and Remediation of Contaminated Land

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve	
	indscape and Visual						
Construct	tion Phase			r			
CM1	The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape. (Measure for mitigating Landscape and Visual impacts)	To minimise landscape footprint and reduce potential for visual impact	HyD's Contractor	Adjacent to existing bridge	Construction Phase	To approved Detailed Design and RLA's Approval	
CM2	Reduction of construction period to practical minimum. (Measure for mitigating Visual impact)	To reduce duration of impacts	HyD's Contractor	N/A	Construction Phase	To approved Detailed Design and RLA's Approval	
CM3	Construction traffic (land and sea) including construction plant, construction vessels and barges should be kept to a practical minimum. (Measure for mitigating Visual impact)	To minimise temporary visual impacts	HyD's Contractor	Connecting roads to site and Silver Mine Bay	Construction Phase	To approved Detailed Design and RLA's Approval	
CM4	Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours. (Measure for mitigating Visual impact)	To screen works sites and plant	HyD's Contractor	Around works areas	Construction Phase	To approved Detailed Design and RLA's Approval	
CM5	Avoidance of excessive height and bulk of site buildings and structures. (Measure for mitigating Visual impact)	To reduce temporary visual impacts	HyD's Contractor	Within works sites	Construction Phase	To approved Detailed Design and RLA's Approval	
CM6	Control of night-time lighting by hooding all lights and through minimisation of night working periods. (Measure for mitigating Visual impact)	To reduce temporary visual impacts	HyD's Contractor	Within works sites	Construction Phase	To approved Detailed Design and RLA's Approval	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve
CM7	All existing trees shall be carefully protected before, during construction and after construction. A Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees or trees to be transplanted, including trees in contractor's works areas for approval by the Registered Landscape Architect (RLA). This method statement for tree protection and transplanting shall make reference to "Guidelines on Tree Preservation during Construction" and "Guidelines on Tree Transplanting" published by GLTM of the DEVB. Early preparation of trees to be transplanted shall be undertaken to increase their likely survival rate following transplanting. (Measure for mitigating Landscape impact)	To minimise tree impacts and maximise tree preservation	HyD's Contractor	Within and adjacent to works sites	Construction Phase	To approved Detailed Design and RLA's Approval
CM8	Minimisation of Impacts to Wang Tong River through minimised and carefully controlled dredging for pile/abutment removal/construction works. (Measure for mitigating Landscape impact)	To minimise contamination of Wang Tong River	HyD's Contractor	Wang Tong River	Construction Phase	To approved Detailed Design and RLA's Approval



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Monitoring Station ID	Time Period	Parameter	Action Level	Limit Level dB(A)
NMS1	0700-1900 hrs on normal weekdays	Leq, 30min	When one documented complaint is received	75

Baseline Level for Noise Monitoring (For reference and calculation of Construction Noise Levels (CNLs))

Monitoring		0700-1900 hrs on	normal weekdays	
Station ID	Monitoring Station	L _{eq (30min)} , dB(A)		
Station ib		Average	Range	
NMS1	1 Tung Wan Tau Road	60.1	52.7 – 64.4	

Remark:

Each of daily 30-minute sampling period includes six consecutive Leq (5min) readings.

Due to free-field measurement, a correction factor of +3 dB(A) is adopted.

All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance.

Action and Limit Level for Air Quality Monitoring

Monitoring Station	1-hour T	SP Level	24-hour T	SP Level
ID	Action Level (µg/m³)	Limit Level (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
AMS1	276.5	500.0	176.0	260.0
AMS2	283.7	500.0	176.0	260.0



Action and Limit Level for Water Monitoring

Monitoring		DO (m	ng/L) +	Turbidity	/ (NTU) ~	SS (m	ig/L)~
Station	Depth	Action	Limit	Action	Limit	Action	Limit
Station		Level	Level	Level	Level	Level	Level
W1				7.7 NTU or 120% of upstream control	12.4 NTU or 130% of upstream control	8.9 mg/L or 120% of upstream control	11.3 mg/L or 130% of upstream control
W2	Middle	e 6.5 5.3 station's turbidity at the same tide of the same day, whichever is	station's turbidity at the same tide of the same day, whichever is	the same tide of the same day,	station's SS at the same tide of the same day, whichever is		
W4				higher	higher	higher	higher
W5					10.5 NTU or		
W6	Middle			9.8 NTU or 120% of	130% of	12.6 mg/L or 120% of	15.0 mg/L or 130% of
W7				upstream	upstream	upstream	upstream
W8	Surface & Middle	5.9	5.5	control station's turbidity at the same tide of the same day, whichever is higher	the of lay, day, control station's turbidity at the same tide of the same	control station's SS at the same tide of the same day, whichever is higher	control station's SS at the same tide of the same day, whichever is higher
	Bottom	5.9	5.5		nigher		

Remarks +: For DO, non-compliance occurs when monitoring results is lower than the limits. Remarks ~: For SS and Turbidity, non-compliance occurs when monitoring results is larger than the limits.



Appendix 4.2

Copies of Calibration Certificates



Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



CERTIFICATE OF CALIBRATION

Certificate No.:	22CA1101 02-02	2	Page:	1 of 2
Item tested				
Description:	Acoustical Calib	rator (Class 1)		
Manufacturer:	Larson Davis			
Type/Model No.:	CAL200			
Serial/Equipment No.:	13437			
Adaptors used:	-			
Item submitted by				
Curstomer:	Lam Environmer	ntal Services Ltd.		
Address of Customer:	-			
Request No.:	-			
Date of receipt:	01-Nov-2022			
Date of test:	04-Nov-2022			
Reference equipmen	t used in the cali	bration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	23-May-2023	SCL
Preamplifier	B&K 2673	2743150	28-Jun-2023	CEPREI
	B&K 2610	2346941	30-Jun-2023	CEPREI
Measuring amplifier			04 1 0000	05005
Measuring amplifier Signal generator	DS 360	33873	21-Jan-2023	CEPREI
	DS 360 34401A	33873 US36087050	21-Jan-2023 30-May-2023	CEPREI
Signal generator				

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

1

Feng Junqi



Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

Date:

05-Nov-2022

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Approved Signatory:

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

Company Chop:

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



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA1101 02-02

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or

2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	93.76	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.011 dB
Estimated expanded uncertainty	0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 1000.0 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.7%
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Λ		- End -	~ 1	
Calibrated by:	NY.	Checked by:	and .	
Fu	ing Chi Yip		Chan Yuk Yiu	
Date: 04-	Nov-2022	Date:	05-Nov-2022	

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005

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CERTIFICATE OF CALIBRATION

Certificate No.:	22CA1101 02-01		Page	1	of	2
Item tested						
Description:	Sound Level Mete	r (Type 1)	Microphone		Preamp	
Manufacturer:	Larson Davis	,	PCB		PCB '	
Type/Model No.:	LxT1		377B02		PRMLxT	1L
Serial/Equipment No.:	0004797		340739		042622	
Adaptors used:	-		-		-	
Item submitted by						
Customer Name:	Lam Environmenta	al Services Limited.				
Address of Customer:	-					
Request No.:	-					
Date of receipt:	01-Nov-2022					
Date of test:	04-Nov-2022					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:		Traceat	le to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2023		CIGISME	С
Signal generator	DS 360	33873	21-Jan-2023		CEPREI	
Ambient conditions						
Temperature:	22 ± 1 °C					
Relative humidity:	55 ± 10 %					
Air pressure:	1005 ± 5 hPa					

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Date: 05-Nov-2022 **Company Chop:** Fera Junai

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA1101 02-01

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Page

1, **Electrical Tests**

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
5	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leg	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
, , , ,	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
0 0	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leg	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

			Expanded	Coverage
Test:	Subtest	Status	Uncertanity (dB)	Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

	1	- End -	71
Calibrated by:	IN	Checked by:	Jalv
	Fung Chi Yip		Chan Yuk Yiu
Date:	04-Nov-2022	Date:	05-Nov-2022

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007

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





Test Data for So	und Level Me	eter			P	age 1 of 5
Sound level me	eter type:	LxT1	Serial No.	0004797	Date 04-Nov	-2022
Microphone Preamp	type: type:	377B02 PRMLxT1L	Serial No. Serial No.	340739 042622	Report: 22CA11	01 02-01
Treamp	type.		Senarito.	042022	Report. 22CATT	01 02-01

SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	8.7	dB
Noise level in C weighting	12.1	dB
Noise level in Lin	20.4	dB

LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

Reference/Expected level	Actua	llevel	Tolerance	Devia	Deviation	
	non-integrated	integrated		non-integrated	integrated	
dB	dB	dB	+/- dB	dB	dB	
94.0	94.0	94.0	0.7	0.0	0.0	
99.0	99.0	99.0	0.7	0.0	0.0	
104.0	104.0	104.0	0.7	0.0	0.0	
109.0	109.0	109.0	0.7	0.0	0.0	
114.0	114.0	114.0	0.7	0.0	0.0	
115.0	115.0	115.0	0.7	0.0	0.0	
116.0	116.0	116.0	0.7	0.0	0.0	
117.0	117.0	117.0	0.7	0.0	0.0	
118.0	118.0	118.0	0.7	0.0	0.0	
119.0	119.0	119.0	0.7	0.0	0.0	
120.0	120.0	120.0	0.7	0.0	0.0	
89.0	89.0	89.0	0.7	0.0	0.0	
84.0	84.0	84.0	0.7	0.0	0.0	
79.0	79.0	79.0	0.7	0.0	0.0	
74.0	74.0	74.0	0.7	0.0	0.0	
69.0	69.0	69.0	0.7	0.0	0.0	
64.0	64.0	64.0	0.7	0.0	0.0	
59.0	59.0	59.0	0.7	0.0	0.0	
54.0	54.0	54.0	0.7	0.0	0.0	
49.0	49.0	49.0	0.7	0.0	0.0	
44.0	44.0	44.0	0.7	0.0	0.0	
39.0	38.9	38.9	0.7	-0.1	-0.1	
34.0	34.0	34.0	0.7	0.0	0.0	
33.0	33.0	33.0	0.7	0.0	0.0	

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Page 2 of 5

Test Data for Sound Level Meter

Sound level me	eter type:	LxT1	S	erial No.	0004797	Dat	e 04-Nov	-2022
Microphone Preamp	type: type:	377B02 PRMLxT1L		erial No. erial No.	340739 042622	Rep	ort: 22CA11	01 02-01
32.0		32.0	32.0	0.7		0.0	0.0	
31.0		30.9	30.9	0.7		-0.1	-0.1	
30.0		30.0	30.0	0.7		0.0	0.0	

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	30.0	30.0	0.7	0.0
20-120	118.0	118.0	0.7	0.0

FREQUENCY WEIGHTING TEST

The frequency response of the weighting netwoks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL. Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.6	1.5	1.5	0.0
63.1	94.0	67.8	67.8	1.5	1.5	0.0
125.9	94.0	77.9	77.9	1.0	1.0	0.0
251.2	94.0	85.4	85.4	1.0	1.0	0.0
501.2	94.0	90.8	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.7	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerar	nce(dB)	Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	91.0	1.5	1.5	0.0
63.1	94.0	93.2	93.1	1.5	1.5	-0.1
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0

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SMECLab

Page 3 of 5

Test Data for Sound Level Meter

Sound level m	eter type:	LxT	1	Serial No.	000	4797	Date 04-	Nov-2022
Microphone	type:	377	'B02	Serial No.	340	739		
Preamp	type:	PR	MLxT1L	Serial No.	042	622	Report: 22C	A1101 02-01
1995.0	94.	0	93.8	93.8	1.0	1.0	0.0	
3981.0	94.	0	93.2	93.2	1.0	1.0	0.0	
7943.0	94.	0	91.0	91.0	1.5	3.0	0.0	
12590.0	94.	0	87.8	87.7	3.0	6.0	-0.1	
Frequency we	ighting Lin:							
Frequency	Ref. le	evel	Expected level	Actual level	Tolerar	nce(dB)	Deviation	
Hz	dE	}	dB	dB	+	-	dB	
1000.0	94.	0	94.0	94.0	0.0	0.0	0.0	
31.6	94.	0	94.0	93.9	1.5	1.5	-0.1	
63.1	94.	0	94.0	94.0	1.5	1.5	0.0	
125.9	94.	0	94.0	94.0	1.0	1.0	0.0	
251.2	94.	0	94.0	94.0	1.0	1.0	0.0	
501.2	94.	0	94.0	94.0	1.0	1.0	0.0	
1995.0	94.	0	94.0	94.0	1.0	1.0	0.0	
3981.0	94.	0	94.0	94.0	1.0	1.0	0.0	
7943.0	94.	0	94.0	94.0	1.5	3.0	0.0	
12590.0	94.	0	94.0	94.0	3.0	6.0	0.0	

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A. Maximum hold)

Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	115.0	114.9	1.0	1.0	-0.1

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	111.9	111.8	1.0	1.0	-0.1

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range. Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	118.5	2.0	-0.5

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Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



Sound level m	eter type:	LxT1		Serial No.	0004797	Date	04-Nov-2022
Microphone Preamp	type: type:	377E PRM	302 ILxT1L	Serial No. Serial No.	340739 042622	Report:	22CA1101 02-01
Negative polar	ities:						
Re	ef. level		Response to 10 ms	Response to 100 us	Tolerance	Deviatior	ı
	dB		dB	dB	+/- dB	dB	
1	19.0		119.0	118.5	2.0	-0.5	

he RMS detector	accuracy is tested	I on the reference ra	inge for a crest factor	of 3.	
Test frequency		2000 Hz	-		
Amplitude:		2 dB below the up	per limit of the primar	y indicator range.	
Burst repetition		40 Hz			
Tone burst sig	nal:	11 cycles of a sine	e wave of frequency 2	000 Hz. (Set	to INT)
	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	114.0+6.6	114.0	113.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax) Test frequency: 2000 Hz Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burs	t indication	Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/~ dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	117.3	117.1	1.0	-0.2

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz Duration of tone burst: 1 mc

Repetition Time	Level of	Expected	Actual	Tolerance	Deviation	Remarks
	tone burst	Leq	Leq			
msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	89.9	1.0	-0.1	60s integ.
10000	80.0	80.0	79.9	1.0	-0.1	6min. integ

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz Integration time: 10 sec

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SMECLab

Page 5 of 5

Test Data for Sound Level Meter

						8
Sound level me	eter type: L	xT1	Serial No.	0004797	Date	04-Nov-2022
Microphone Preamp	21.	77B02 PRMLxT1L	Serial No. Serial No.	340739 042622	Report:	22CA1101 02-01
The integrating	sound level me	ter set to Leq:				
Duration	Rms level o	f Expected	Actual	Tolerance	Deviation	
msec	tone burst (d	3) dB	dB	+/- dB	dB	
10	90.0	60.0	60.0	1.7	0.0	

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	90.0	70.0	70.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequer Amplitude: Burst repetit	•	2000 Hz 2 dB below the up 40 Hz	oper limit of the p	primary indicator r	ange.		
Tone burst signal:		11 cycles of a sine wave of frequency 2000 Hz.					
Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation		
at overload (dB)	1 dB	3 dB	dB	dB	dB		
113.2	112.2	109.2	3.0	1.0	0.0		

For integrating SLM, with the instrument indicating Leq.

118.9

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following: The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range Test frequency: 4000 Hz Integration time: 10 sec Single burst duration: 1 msec Rms level Level reduced by Expected level Actual level Tolerance Deviation at overload (dB) 1 dB dB dB dB dB

78.9

2.2

0.0

78.9

ACOUSTIC TEST

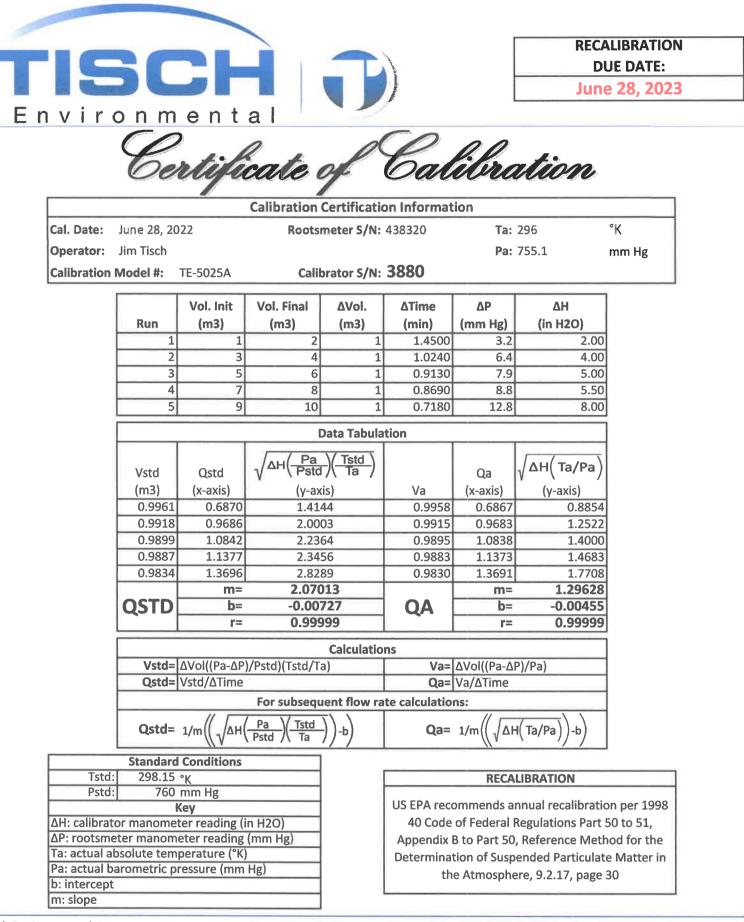
119.9

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	level Actual level		Tolerance (dB)		
Hz	dB	Measured (dB)	+	-	dB	
1000	94.0	94.0	0.0	0.0	0.0	
125	77.9	77.9	1.0	1.0	0.0	
8000	92.9	93.9	1.5	3.0	1.0	

-----END------

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Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009



Certificate No. 211035

Calibration Certificate

Page 1 of 2 Pages

Customer :	Lam Environmental Services Lir	nited			
Address :	19/F, Remex Centre, 42 Wong	Chuk Hang Road, H	ong Kong		
Order No. :	Q24331		Date of receipt	t :	24-Nov-22
Item Tested	Λ.	N			
Description	: Aerosol Mass Monitor				
Manufacturer			I.D.	;	
Model :	Aerocet 831		Serial No.	: W1544	19
Test Condit	ions				
Date of Test :	13-Dec-22		Supply Voltage	ə :	
Ambient Temp			Relative Humic		25) %
Test Specifi	cations				
Calibration cheo Calibration proc		mended method (gr	avimetric), Z28.		
Test Results	3				
A II					
	within the tolerance(s).				
The results are	shown in the attached page(s).				
Main Test equip	oment used:				
Equipment No.	Description	Cert. No.		Traceable t	<u>o</u>
S136B	Stop Watch	201879		SCL-HKSA	R
S238	Micro Balance	108228		NIM-PRC	
S201	Std. Test Dust	61291		NIST	
S207B	Std. Flowmeter	LL-2104002489		NIM-PRC	
will not include allow overloading, mis-ha	this Calibration Certificate only relate to t vance for the equipment long term drift, v indling, or the capability of any other labor age resulting from the use of the equipme	ariations with environme ratory to repeat the meas	ntal changes, vibratio	on and shock di	uring transportation,
	used for calibration are traceable to Inter oly to the above Unit-Under-Test only	national System of Units	(SI), or by reference	to a natural co	nstant.
Calibrated by This Certificate is issued b Hong Kong Calibration Ltc	-	App Date:	roved by :(Steve Kwan	
Unit 8B, 24/F., Well Fung Tel: 2425 8801 Fax: 2429	Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwa				0
LUE CODVIION OF THIS CONT	Cale is owned by mond Nond Lalinration Ltd. If may no	A DE CEDICICICECI EXCENT IN THE			11

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Calibration Certificate

Certificate No. 211035

Page 2 of 2 Pages

Results :

1. General

Internal Filters : checked and found clean.

2. Flow Meter

UUT Nominal	Measured Value	Tolerance	
Value (LPM)	(LPM)	(LPM)	Uncertainty
2.83	2.80	± 0.15	± 0.05

3. Timer

Reference Value	UUT Reading	Tolerance	Uncertainty
10' 00" 18	10 min	± 2 sec/hr	± 0.5 sec/hr

4. Dust Particle (PM10)

Applied Value	UUT Reading (µg/m ³)		
$(\mu g/m^3)$	K Factor : 0.62	Tolerance	Uncertainty
280	254	± 20 %	± 10 %

Remark : 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. ISO 12103-1 A1 respirable standard test dust was used for the calibration.

4. The K Factor had been adjusted from 1.00 to 0.62.

----- END -----



1600 Washington Blvd Grants Pass, OR 97526 (541) 471-7111 (541) 471-7116 (Fax) Service@metone.com

Calibration Certificate

specification		calibration. Ca	alibrati	on was	performed acc	ordin	lies with the produng to accepted industri r and ISO.
Recommend	led calibration in	terval is 12 mor	ths fro	m the fi	rst day of use.		
Instrument M	Iodel# Aeroc	cet 831			Instrument Se	rial#	Y23153
Date of Calib	oration 4/21/2	023					Sensor # 19493
J. Cheste	4 4 1				T	MAA	0 1 2023
Calibration 7				Qual	ity Check	1.11.21	
		22 ⁰ C		-	Relative Humidit	y 3	6 %
Test Procedu	ire: Aerocet &	331-6100					
	PSL Size (µm)	Test Results	Test	Spec.	Lot# NIST	Ex	piration
	0.3	Pass		0%	240943		/31/2024
	0.5	Pass	± 1	0%	252466		/31/2025
	1.0	Pass	± 1	0%	247589	12	/31/2024
	2.5	Pass	± 1	0%	REF		NA
	4.0	Pass	± 1	0%	REF		NA
	7.0	Pass	± 1	0%	REF		NA
	10.0	Pass	± 1	0%	REF		NA
	Standards	Model			SN		Cal Due
	FLOW SWIFT 6.0			i	B20458		11/8/2023
	DMM 189 Multimete			ter 92130180			10/31/2023
RH/	TEMP SENSOR	083E-1-6		R20313			10/21/2023
Pa	article Counter	GT-526S			X17421		5/29/2023
	ation certificate s		roduce	d excep	ot in full, witho	ut th	e written

Document Aerocet 831-9600 Rev A

62950



1600 Washington Blvd Grants Pass, OR 97526 (541) 471-7111 (541) 471-7116 (Fax) Service@metone.com

Calibration Certificate

As Received

						•			on was verified using le to NIST and ISO.
Instrun	nent Model	# A	eroce	et 831		Ins	trument Sei	rial# Y	′23153
Date of	compariso	n agains	t stand	ard 3-3	80-202	3		S	ensor # 19493
Qualit	y Control T	echnicia	in	J. Chest	ter 🔍	1			
	Temperature 22 °C Relative Humidity 29 %								
Test Pr	ocedure:	Aer	ocet	831-6100					
	As Rece			Value		Range			Condition
	Zero C			22	Les	ss than 5 particle			FAIL
	Air Fl	ow		.1		.092 to .108 C	CFM		PASS
	PSL Size Micron	LO NIS		As Receive PSL Cour Comparise	nt	Allowable PSL Count Comparison	Allowable Size Accuracy		As Received Condition
	0.3	2409	943	41.10		10% to 90%	+/- 10 %		PASS
	0.5	2524	166	47.71		10% to 90%	+/- 10 %		PASS
	1.0	247	589	45.96		10% to 90%	+/- 10 %		PASS
			_						
			_						
	Star	darde		Mode		SN			al Due
	Standards Mode FLOW SWIFT			B2045	8		/8/2023		
			189 Multir						/31/2023
									21/2023
	RH/TEMP SENSOR083E-1-6Particle CounterGT-526S					X1742			29/2023
				0. 02				<i>V</i>	
	C	alibrati	on wa	s performe	d by di	rect compariso	n to a cou	nt stand] lard.

Document Aerocet 831-9600 Rev A

62698



Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AMS1	Calbration Date	:	15-May-23
Equipment no.	: _	HVS020	Calbration Due Date	:	15-Jul-23

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	Condition				
Temperature, T _a	297.3			Kelvin	Kelvin Pressure, P a		1	010 m	mHg
			Orifice T	ransfer Sta	ndard Inform	nation			
Equipment No.		3880		Slope, m _c	1.29628		Intercept, bc	-0.00455	
Last Calibration Date		28-Jul-2	2		(Hx	r P _a / 10	13.3 x 298 /	(T _a) ^{1/2}	
Next Calibration Date		28-Jul-2	3		=	m _c x	$Q_{std} + b_c$		
Calibration of TSP									
Calibration	Manometer Reading		C	std	Contin	uous Flow	IC		
Point	Н (inches of water)		(m ³ / min.)		Recorder, W		(W(P _a /1013.3x298/T _a)	^{1/2} /35.31)
	(up)	(down)	(difference)	x-	axis	(CFM)		Y-axis	
1	1.2	1.2	2.4	1.1	1983	32		31.9918	
2	2.6	2.6	5.2	1.7	7622		46	45.9882	
3	3.4	3.4	6.8	2.0)147		54	53.9861	
4	5.0	5.0	10.0	2.4	1424		64	63.9835	
5	5.6	5.6	11.2	2.5846			68	67.9825	
By Linear Regression of	Y on X								
Slope, m = 25.9		0858 Intercept, b = 0.8038							
Correlation Coefficient* = 0.99		993							
Calibration Accepted = Yes/N		No**							

* if Correlation Coefficient < 0.990, check and recalibration again.

**	Delete	as	appropriate.
----	--------	----	--------------

Remarks :

Date

: Harry Po

15-May-23

:

Checked by

Alan Ng

:

:

Date

15-May-23



Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	AMS2	Calbration Date	:	15-May-15
Equipment no.	:	HVS019	Calbration Due Date	:	15-Jul-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a		297.3	3	8 Kelvin Pressure , P _a			1	1010 mmHg
			Orifice Tr	ransfer Sta	andard Inforr	mation		
Equipment No.	3880			Slope, m _c	pe, m_c 1.29628		Intercept, bc	-0.00455
Last Calibration Date		28-Jul-22	2	(H x P _a / 1013.3 x 298 / T _a) ^{1/2}				
Next Calibration Date	Date 28-Jul-23		3	$= m_c \times Q_{std} + b_c$				
				Calibratio	on of TSP			
Calibration	Manometer Reading		(ຊ _{std}	Contir	nuous Flow	IC	
Point	H (inches of water)		(m ³	n ³ / min.) Reco		order, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$	
	(up)	(down)	(difference)	X	-axis	((CFM)	Y-axis
1	1.2	1.2	2.4	1.	.1983		24	23.9938
2	1.8	1.8	3.6	1.	4668		30	29.9923
3	2.8	2.8	5.6	1.	8286		38	37.9902
4	4.0	4.0	8.0	2.	.1849		46	45.9882
5	4.8	4.8	9.6	2.	3931		52	51.9866
By Linear Regression of	By Linear Regression of Y on X							
	Slope, m	=	23.0	953	Inte	ercept, b =	= -3	3.9128
Correlation Coefficient* = 0.99		0.99	992					
Calibration Accepted = Yes/		No**	_					

* if Correlation Coefficient < 0.990, check and recalibration again.

Harry Po

15-May-15

**	Delete	as	appropriate.
----	--------	----	--------------

Remarks :

		•
· · · ·		
Calibrated	hv	
ounsiducu	Ny	

:

Checked by

Alan ng

:

:

Date

15-May-15

Date



1.

ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	DEREK LO LAM ENVIRONMENTAL SERVICES LTD	WORK ORDER:	HK2312013
ADDRESS:	19/F, REMEX CENTRE,	SUB-BATCH:	0
	42 WONG CHUK HANG ROAD,	LABORATORY:	HONG KONG
	HONG KONG	DATE RECEIVED:	29-Mar-2023
		DATE OF ISSUE:	03-Apr-2023

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the

laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Dissolved Oxygen, pH Value, Salinity and Temperature
Brand Name/ Model No.:	[YSI]/ [Professional Plus]
Serial No./ Equipment No.:	[14E100105/17G100383]/ [N/A]
Date of Calibration:	31-March-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ma Aij

Mr Chan Siu Ming, Vico Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER:	HK2312013		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 03-Apr-2023 LAM ENVIRONMENTAL SERVICE	s ltd	
Equipment Type: Brand Name/ Model No.: Serial No./	Multifunctional Meter [YSI]/ [Professional Plus]		
Equipment No.: Date of Calibration:	[14E100105/17G100383]/ [N/A] 31-March-2023	Date of Next Calibration:	30-June-2023

PARAMETERS:

Dissolved Oxygen Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.58	2.41	-0.17
5.26	5.10	-0.16
7.27	7.20	-0.07
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.93	-0.07
7.0	7.03	+0.03
10.0	9.97	-0.03
	Tolerance Limit (pH unit)	±0.20

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	1.7
10	9.86	-1.4
20	19.62	-1.9
30	29.37	-2.1
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Cha Ain

Mr Chan Siu Ming, Vico Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



SUB-BATCH:0DATE OF ISSUE:03-Apr-2023CLIENT:LAM ENVIRONMENTAL SERVICES LTDEquipment Type:Multifunctional MeterBrand Name/[YSI]/ [Professional Plus]	
Brand Name/ [YSI]/[Professional Plus]	
IYSU/ Professional Plus	
Model No.:	
Serial No./ [14E100105/17G100383]/[N/A] Equipment No.:	
Date of Calibration: 31-March-2023 Date of Next Calibration: 30-June-2023	

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.6	-0.4
23.0	22.7	-0.3
43.0	42.7	-0.3
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Cha Alin

Mr Chan Siu Ming, Vico Manager - Inorganics



J1010-00

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied	by customer:		
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-D21D3401
CLIENT:	LAM ENVIRONMENTAL SERVI	CES LTD.	
DATE RECEIVED:	21/04/2023		
DATE OF ISSUE:	28/04/2023		
ADDRESS:	19/F, REMAX CENTRE, 42 WON	G CHUK HANG ROAD,	
	HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of FT Laboratories Ltd will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807063	
Equipment No.:		
Date of Calibration:	27/04/2023	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Certified By:

WONG Chi Wai Sanjo Senior Chemist

Issue Date:

28/04/2023

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Page 1 of 2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:	22777053-D21D3401
DATE OF ISSUE:	28/04/2023
CLIENT:	LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807063	
Equipment No.:		
Date of Calibration:	27/04/2023	
Date of next Calibation:	28/07/2023	
Lab I.D.:	H230021-01	

Parameters:

Turbidity

2.

1

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.99	-0.2%	
10	10.00	0.0%	
40	40.00	0.0%	
100	99.99	0.0%	
400	400	-0.1%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

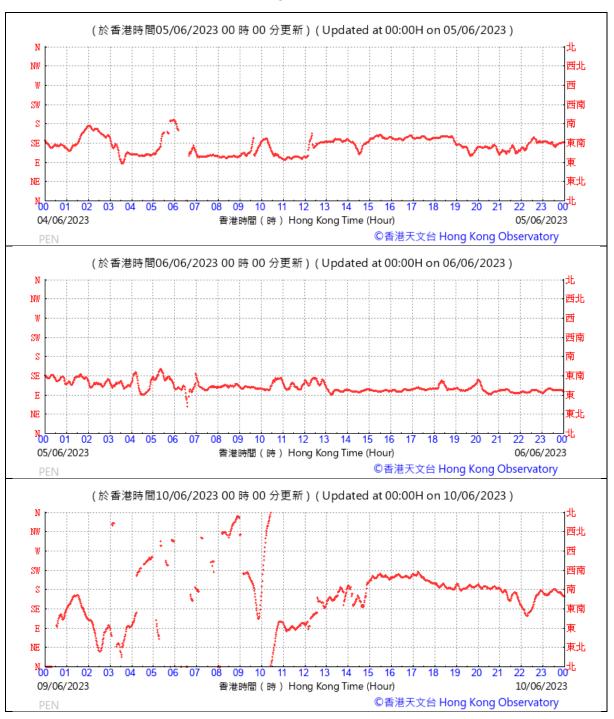
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ſŧ	FT Labora 科達測檢試	tories l 驗所有限	_td. 公 司		uth Road, Pin 7 Territories 758 4861 758 8962	i2 S.A. ss IRP g Che	
			<u>Transmittal Form</u>	2			
To:	Lam Environmental Servi	ces Ltd		Date: 28	April 2023		
Ref. No.:	FT-CHM-TR23- 0	10		Attention: M	r. Derek Lo (1	Tel 9108-0531)
Address:	19/F, Remax Centre, 42 W	Vong Chuk Hang R	oad, Hong Kong	Re: E	quipment perf	ormance check	¢
Project:							
Dear Sir/N	Madam,						
We are se	nding H	lerewith X	Under Separate Cover	Others			
Item No.		Description		Job No.	Reference No.	Test Date	No. of Copies
1 T	est report (H230021-01)			22777053	D21D3401	27/4/2023	1
	<u></u>						
			<u></u>				
* Select	if appropriate .						
F	For your review		For your approval		For your r	eference	
F	or your submission		X For your use				
	nvoice attached						
General re	emarks:						
If enclosi	ires received are not as list	ed above, kindly no	otify us at once.				
Yours sin	1-			Received	by:		
	Sanio Wong Senior Chemist				e & Signature bany Represen		ompany Chop

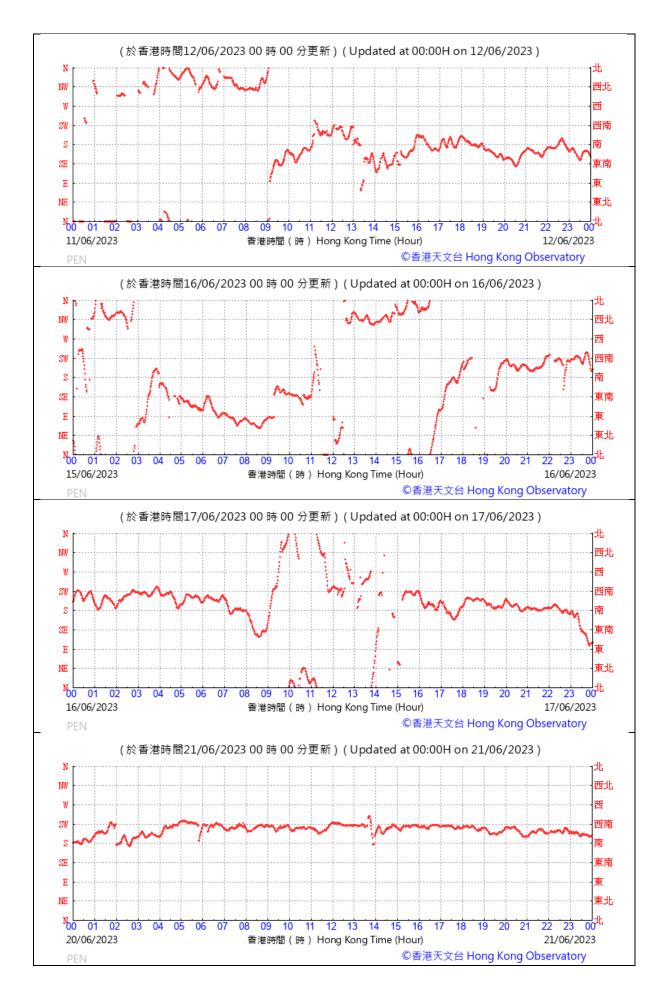


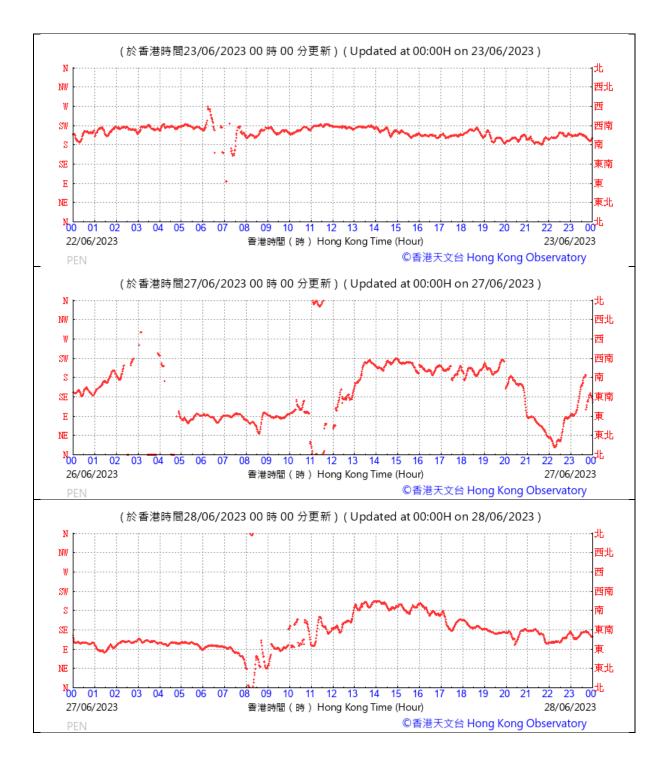
Appendix 4.3

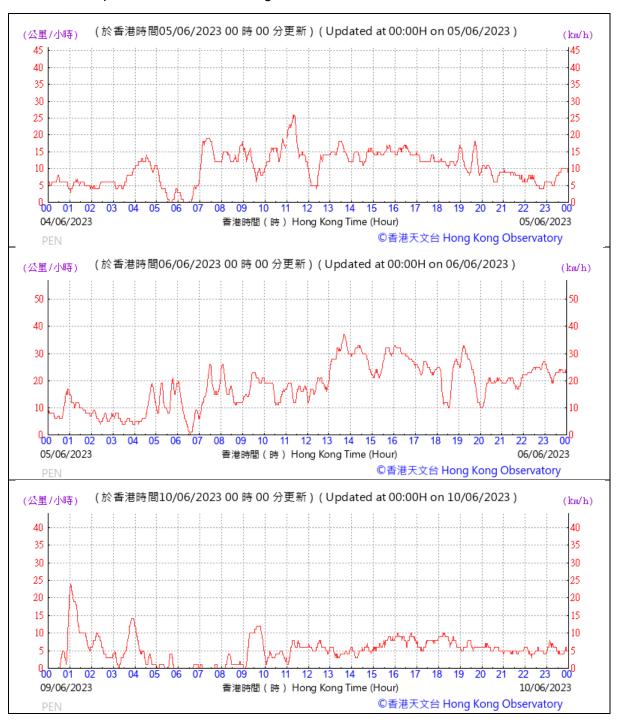
Wind data extracted from HKO Automatic Weather Station



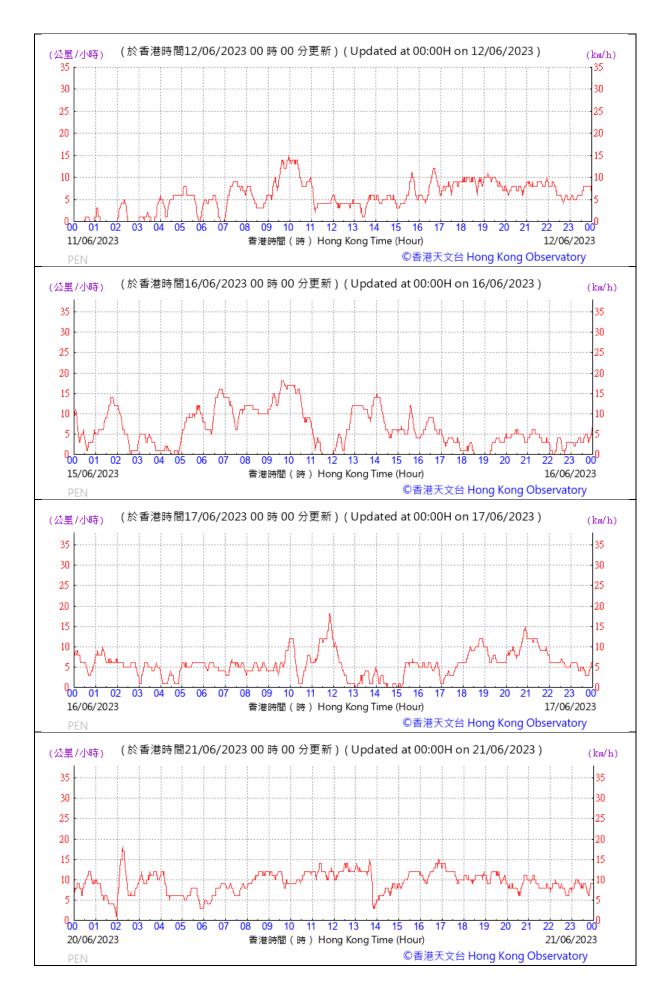
A. Wind Direction extracted from Peng Chau Automatic Weather

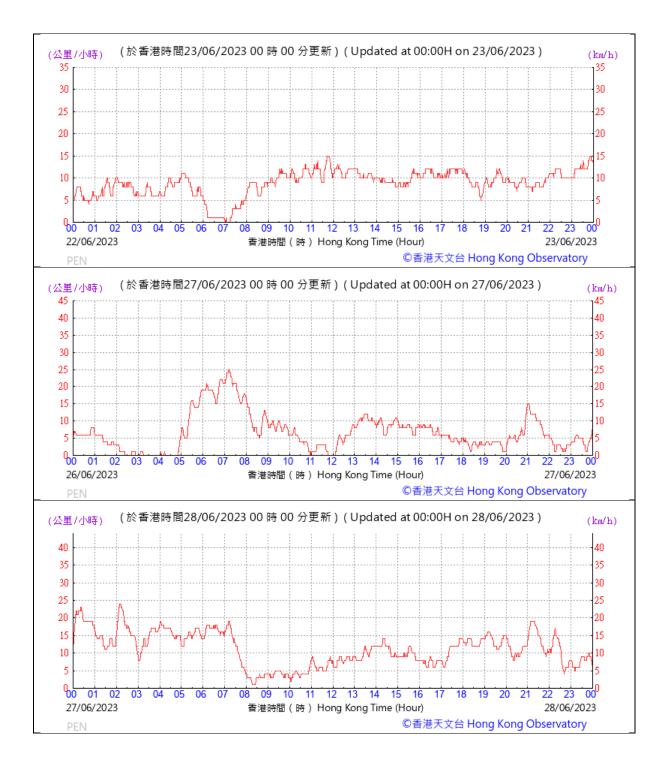






B. Wind Speed extracted from Peng Chau Automatic Weather Station







Appendix 5.1

Monitoring Schedules for Reporting Month



Contract No. HY/2019/14 New Wang Tong River Bridge

Tentative Impact Air Quality, Noise and Water Quality Monitoring Schedule Jun 2023

Rundau	Mandau	Tuesday	Jun 2023		Faider	Paturday
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28 May	29 May	30 May	31 May	01 Jun	02 Jun	03 Jun
					WQM Mid-Ebb 11:00 Mid-Flood 17:51	
04 Jun	05 Jun 24-hr TSP	06 Jun <mark>1-hr TSP</mark> NM	07 Jun	08 Jun	09 Jun	10 Jun 24-hr TSP
	WQM Mid-Ebb 13:30 Mid-Flood 18:30		WQM Mid-Ebb 14:40 Mid-Flood 7:00		WQM Mid-Ebb 16:33 Mid-Flood 9:15	
11 Jun	12 Jun <mark>1-hr TSP</mark> NM	13 Jun	14 Jun	15 Jun	16 Jun 24-hr TSP	17 Jun 1-hr TSP
	WQM Mid-Ebb 8:05 Mid-Flood 13:33		WQM Mid-Ebb 9:52 Mid-Flood 16:05		WQM Mid-Ebb 11:13 Mid-Flood 18:13	
18 Jun	19 Jun	20 Jun	21 Jun 24-hr TSP	22 Jun	23 Jun <mark>1-hr TSP</mark> NM	24 Jun
	WQM Mid-Ebb 13:09 Mid-Flood 18:30		WQM Mid-Ebb 14:23 Mid-Flood 7:30		WQM Mid-Ebb 15:30 Mid-Flood 7:36	
25 Jun	26 Jun	27 Jun 24-hr TSP	28 Jun <mark>1-hr TSP</mark> NM	29 Jun	30 Jun	01 Jul
	WQM Mid-Ebb 17:31 Mid-Flood 10:41		WQM Mid-Ebb 8:15 Mid-Flood 14:13		WQM Mid-Ebb 9:51 Mid-Flood 16:54	

Remarks:

24-hr TSP stands for 24-hour Total Suspended Particulates Monitoring;

1-hr TSP stands for 1-hour Total Suspended Particulate Monitoring;

NM stands for Noise Monitoring;

WQM stands for Water Quality Monitoring tenatively scheduled and

Based on previous discussion with contractor and IEC, all monitoring will not be scheduled on any public holidays and Sundays as there will be no construction works.



Contract No. HY/2019/14 New Wang Tong River Bridge

Tentative Impact Air Quality, Noise and Water Quality Monitoring Schedule Jul 2023

Sunday	Manday	Tuesday	Jul 2023	Thursday	Friday	Coturdou
Sunday 25 Jun	Monday 26 Ju	Tuesday In 27 Jur	Wednesday 28 Jun	Thursday 29 Jun	Friday 30 Jun	Saturday 01 Jul
25 Jun	20 Ji	n <i>21</i> Jur	28 Jun	29 Jun	30 Jun	UT Ju
02 Jul	03 .	ul 04 Ju	lut 30	liut ao	lut 70	lut 80
	24-hr TSP	1-hr TSP NM				24-hr TSP
	WQM Mid-Ebb 11:: Mid-Flood 18:3	0	WQM Mid-Ebb 13:43 Mid-Flood 8:00		WQM Mid-Ebb 15:24 Mid-Flood 8:25	
Jul	10 J 1-hr TSP NM	ul 11 Ju	12 Jul	13 Jul	14 Jul 24-hr TSP	15 Jul <mark>1-hr TSP</mark>
	WQM Mid-Ebb 18: Mid-Flood 11:4	6	WQM Mid-Ebb 8:35 Mid-Flood 14:53	00.141	WQM Mid-Ebb 10:22 Mid-Flood 17:00	20 kt
16 Jul	17、	ul 18 Ju		20 Jul 24-hr TSP	1-hr TSP NM	22 Jul
	WQM Mid-Ebb 12: Mid-Flood 18:		WQM Mid-Ebb 13:29 Mid-Flood 7:30		WQM Mid-Ebb 14:30 Mid-Flood 7:26	
23 Jul	24 .	ul 25 Ju	26 Jul 24-hr TSP	27 Jul <mark>1-hr TSP</mark> NM	28 Jul	29 Jul
	WQM Mid-Ebb 16: Mid-Flood 9:2		WQM Mid-Ebb 18:00 Mid-Flood 12:14		WQM Mid-Ebb 8:29 Mid-Flood 15:53	
30 Jul	31 ა	ul 01 Aug	02 Aug	03 Aug	04 Aug	05 Aug
	WQM Mid-Ebb 10: Mid-Flood 18:					

Remarks:

24-hr TSP stands for 24-hour Total Suspended Particulates Monitoring;

1-hr TSP stands for 1-hour Total Suspended Particulate Monitoring;

NM stands for Noise Monitoring;

WQM stands for Water Quality Monitoring tenatively scheduled and

Based on previous discussion with contractor and IEC, all monitoring will not be scheduled on any public holidays and Sundays as there will be no construction works.



Appendix 5.2

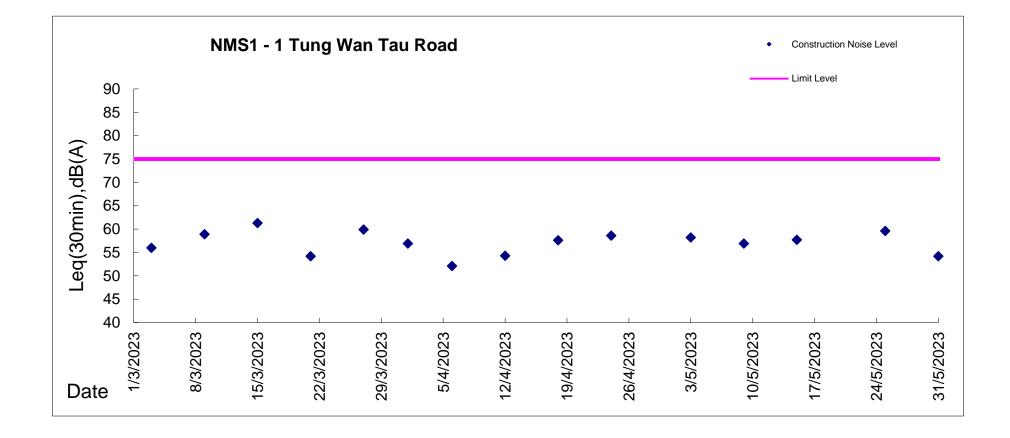
Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: NMS1 - 1 Tung Wan Tau Road

			Measure	ement Noi	se Level	Average Noise Level#	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	L _{eq}	L _{eq}
			Unit:	dB(A), (30)-min)		Unit: dl	B(A), (30-min)	
3 May 2023	Sunny	10:30	58.2	60.3	46.8	58.2	60.1	<baseline level<="" td=""><td>75</td></baseline>	75
9 May 2023	Sunny	10:30	56.9	59.1	43.2	56.9	60.1	<baseline level<="" td=""><td>75</td></baseline>	75
15 May 2023	Sunny	10:30	57.7	59.9	45.0	57.7	60.1	<baseline level<="" td=""><td>75</td></baseline>	75
25 May 2023	Sunny	10:30	59.6	62.8	47.3	59.6	60.1	<baseline level<="" td=""><td>75</td></baseline>	75
31 May 2023	Sunny	10:30	54.2	56.9	42.9	54.2	60.1	<baseline level<="" td=""><td>75</td></baseline>	75





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Report on 1-hour TSP monitoring at AMS1 - Slivermine Beach Resort Limit Level ($\mu g/m^3)$ -

500.0

Date	Weather Condition	Time	TSP Level (µg/m³)
6-Jun-23	Rainy	9:05	32.3
6-Jun-23	Rainy	10:05	29.8
6-Jun-23	Rainy	11:05	31.4
12-Jun-23	Rainy	9:41	12.7
12-Jun-23	Rainy	10:41	10.9
12-Jun-23	Rainy	11:41	13.2
17-Jun-23	Rainy	9:22	107.7
17-Jun-23	Rainy	10:22	15.3
17-Jun-23	Rainy	11:22	12.1
23-Jun-23	Rainy	9:47	19.1
23-Jun-23	Rainy	10:47	19.2
23-Jun-23	Rainy	11:47	20.1
28-Jun-23	Sunny	9:54	14.2
28-Jun-23	Sunny	10:54	11.3
28-Jun-23	Sunny	11:54	11.1



Report on 1-hour TSP monitoring at AMS2 - 1 Tung Wan Tau Road Limit Level ($\mu g/m^3)$ -

500.0

Date	Weather Condition	Time	TSP Level (µg/m³)
6-Jun-23	Rainy	9:15	111.7
6-Jun-23	Rainy	10:15	87.8
6-Jun-23	Rainy	11:15	157.1
12-Jun-23	Rainy	9:00	37.1
12-Jun-23	Rainy	10:00	33.0
12-Jun-23	Rainy	11:00	39.6
17-Jun-23	Rainy	9:41	154.6
17-Jun-23	Rainy	10:41	48.9
17-Jun-23	Rainy	11:41	41.0
23-Jun-23	Rainy	10:06	59.0
23-Jun-23	Rainy	11:06	58.8
23-Jun-23	Rainy	12:06	63.7
28-Jun-23	Sunny	10:12	42.9
28-Jun-23	Sunny	11:12	36.2
28-Jun-23	Sunny	12:12	34.9



Contract No. HY/2019/04

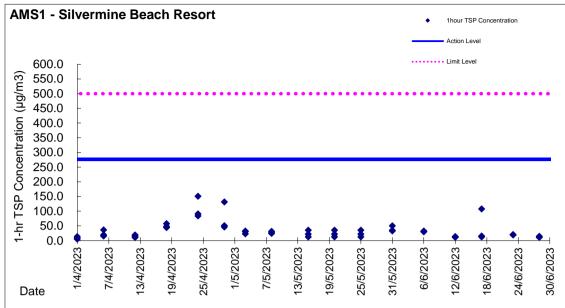
New Wang Tong River Bridge

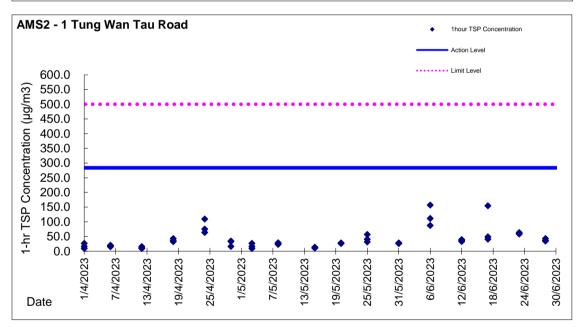
	Date	Sampling	Weather	Filter paper no.	Filter W	/eight, g	Elapse	Time, hr	Sampling	Fle	ow Rate, m ³ /m	nin	Total	TSP Level,
	Date	Time	Condition	Filter paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Qsf	Average	Volume, m°	µg/m°
AMS1	05/06/23	8:00	Rainy	009733	2.8008	2.8353	3805.32	3829.32	24.00	1.05	1.18	1.11	1604	21.5
AMS1	10/06/23	8:00	Rainy	009734	2.7988	2.8214	3829.32	3853.32	24.00	1.07	1.18	1.12	1619	14.0
AMS1	16/06/23	8:00	Rainy	009735	2.8021	2.8250	3853.32	3877.32	24.00	0.97	1.19	1.08	1553	14.7
AMS1	21/06/23	8:00	Rainy	009736	2.7975	2.8249	3877.32	3901.32	24.00	1.11	1.18	1.14	1648	16.6
AMS1	27/06/23	8:00	Rainy	009737	2.7941	2.8148	3901.32	3925.32	24.00	1.06	1.18	1.12	1615	12.8
AMS2	05/06/23	8:00	Rainy	009757	2.8048	2.8482	4319.86	4343.86	24.00	1.65	1.65	1.65	2377	18.3
AMS2	10/06/23	8:00	Rainy	009758	2.7914	2.8191	4343.86	4367.86	24.00	1.65	1.65	1.65	2370	11.7
AMS2	16/06/23	8:00	Rainy	009759	2.7990	2.8426	4367.86	4391.86	24.00	1.66	1.66	1.66	2386	18.3
AMS2	21/06/23	8:00	Rainy	009760	2.7934	2.8355	4391.86	4415.86	24.00	1.65	1.65	1.65	2373	17.7
AMS2	27/06/23	8:00	Rainy	009738	2.7996	2.8197	4415.86	4439.86	24.00	1.65	1.65	1.65	2378	8.5

Remarks:



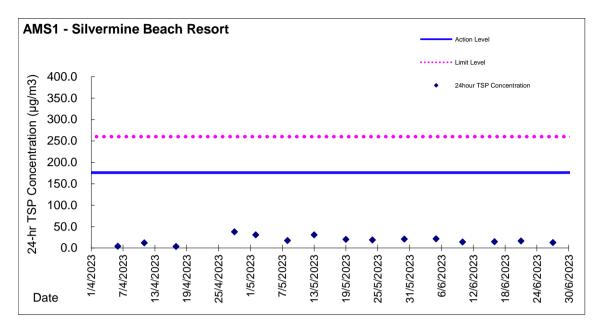
Graphic Presentation of TSP Result

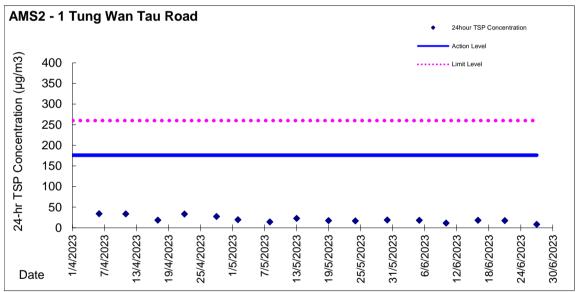






Graphic Presentation of TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

Water Quality Monitori	ng Results																								New War	ng Tong Rive
Water Quality Monito	oring at Station	n W1 (Middle)	- Ebb Tide																							
	0		0	Water	0	Sampling	Te	emperatur	е		pН			Salinity		DC) Saturatio	n		DO		Т	urbidity		S:	S
Station Reference	Sampling Date	Weather	Sampling Time	Depth	Sampling Level	Depth		°C			-			ppt			%			mg/L			NTU		mç	I/L
	Date		THIC	m	LOVOI	m	Val	ue	Average	Val	ue	Average	Val	ue	Average	Valu	le	Average	Value		Average	Value	э	Average	Value	Average
	2/6/2023	Sunnv	10:15	0.50		0.25	29.40	29.40	29.4	7.20	7.20		7.26	7.26	7.2	76.00	75.50	75.8	7.06	6.93	7.0	7.40	7.40	7.4	4.00	2.0
	2/0/2023	Sunny	10:20	0.50		0.25	29.40	29.40	25.4	7.20	7.20	1.2	7.26	7.26	7.5	76.00	75.50	75.0	7.06	6.93	7.0	7.40	7.40	1.4	3.50	3.0
	5/6/2023	Sunnv	12:30	0.50		0.25	27.80	27.80	27.8	7.33	7.33	7.0	6.48	6.48	6.5	75.90	75.20	75.6	6.98	6.84	6.0	4.36	4.36	44	2.90	2.0
	5/0/2023	Sunny	10.05	0.50		0.05	07.00	07.00	27.0	= 0.0	= 00	1.5	0.40	0.10	0.5	75.00	75.00	13.0	0.00	0.04	0.9	1.00	1.00	4.4	0.00	2.0

7.33

7.74

7.74

7.36

7.36

7.34

7.34

7.56

7.56

773

7.73

7.46

7.46

7.69

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7.20

7.20

7.34

7.34

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7.34

7.33

7.74

7.74

7.36

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7.56

7.56

7.73

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7.20

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7.36

7.7

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7.2

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7.3

6.48

3.32

3.32

1.32

1.32

0.71

0.71

0.34

0.34

0.21

0.21

1.10

1.10

0.73

0.73

0.31

0.31

0.17

0.17

3.00

3.00

6.48

3.32

3.32

1.32

1.32

0.71

0.71

0.34

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0.21

0.21

1.10

1.10

0.73

0.73

0.31

0.31

0.17

0.17

3.00

3.00

3.3

1.3

0.7

0.3

0.2

1.1

0.7

0.3

0.2

3.0

75.90

82.20

82.20

76.30

76.30

82.00

82.00

82.80

82.80

78.60

78.60

80.70

80.70

82.10

82.10

87.00

87.00

84.80

84.80

83.80

83.80

75.20

81.20

81.20

75.60

75.60

81.40

81.40

82.00

82.00

77.50

77.50

79.80

79.80

81.10

81.10

86.40

86.40

84.50

84.50

83.10

83.10

81.7

76.0

81.7

82.4

78.1

80.3

81.6

86.7

84.7

83.5

6.98

7.07

7.07

6.80

6.80

7.66

7.66

7.37

7.37

7 14

7.14

7.19

7.19

7.78

7.78

7.12

7.12

8.52

8.52

7.51

7.51

6.84

7.00

7.00

6.75

6.75

7.56

7.56

7.27

7.27

7.07

7.07

7.11

7.11

7.68

7.68

7.08

7.08

8.48

8.48

7.45

7.45

7.0

6.8

7.6

7.3

7.1

7.2

7.7

7.1

8.5

7.5

4.36

4.02

4.02

19.53

19.53

4.59

4.59

19.57

19.57

33.30

33.30

9.27

9.27

5.55

5.55

4.50

4.50

2.91

2.91

3.38

3.38

4.36

4.02

4.02

19.53

4.59

4.59

19.57

19.57

33.30

33.30

9.27

9.27

5.55

5.55

4.50

2.90

2.90

3.38

3.38

4.50

19.53

4.0

19.5

4.6

19.6

33.3

9.3

5.6

4.5

2.9

3.4

30/6/2023 Rainny 9:05 0.50 Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

12:35

13:45

13:50

15:30

15:35

7:00

7:05

9:00

9:05

12:15

12:20

13:15

13:20

14:45

14:50

16:30

16:35

7:20

7:15

9:00

Sunny

Sunnv

Sunnv

Rainnv

Sunny

Sunny

Cloudy

Sunny

Cloudy

0.50

0.50

0.50

0.50

0.50

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0.50

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0.50

Middle

0.25

0.25

0.25

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0.25

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0.25

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0.25

0.25

27.80

26.80

26.80

26.50

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26.50

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25.90

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26.30

26.10

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26.8

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25.2

25.9

26.3

26.1

27.2

26.4

27.4

Water Quality Monitoring at Station W1 (Middle) - Flood Tide

7/6/2023

9/6/2023

12/6/2023

14/6/2023

19/6/2023

21/6/2023

23/6/2023

26/6/2023

28/6/2023

	Sampling		Sampling	Water	Complian	Sampling	Te	emperature			pН			Salinity		DC	O Saturatio	on		DO			Turbidity		S	S
Station Reference	Date	Weather	Time	Depth	Sampling Depth	Depth		°C			-			ppt			%			mg/L			NTU		mg	g/L
	Bato			m	Boptii	m	Valu	ue	Average	Val	ue	Average	Valu	le	Average	Valu	ue	Average	Val	ue	Average	Val	ue	Average	Value	Average
	2/6/2023	Sunnv	17:00	0.50		0.25	29.00	29.00	29.0	7.36	7.36	7.4	2.42	2.42	2.4	73.90	72.60	73.3	6.62	6.49	66	6.50	6.49	6.5	3.20	3.3
	2/0/2023	Sunny	17:00	0.50		0.25	29.00	29.00	23.0	7.36	7.36	7.4	2.42	2.42	2.4	73.90	72.60	73.5	6.62	6.49	0.0	6.50	6.49	0.5	3.40	3.5
	5/6/2023	Sunnv	17:30	0.50		0.25	26.80	26.80	26.8	7.44	7.44	7.4	5.12	5.12	5.1	73.90	72.80	73.4	6.84	6.84	6.8	4.56	4.56	4.6	2.00	2.1
	3/0/2023	Sulliny	17:35	0.50		0.25	26.80	26.80	20.0	7.44	7.44	7.4	5.12	5.12	3.1	73.90	72.80	73.4	6.84	6.84	0.0	4.56	4.56	4.0	2.20	2.1
	7/6/2023	Sunny	6:30	0.50		0.25	26.10	26.10	26.1	7.50	7.50	7.5	1.87	1.87	10	74.20	73.70	74.0	6.61	6.55	6.6	5.21	5.20	5.2	3.50	3.7
	110/2023	Sunny	6:35	0.50		0.25	26.10	26.10	20.1	7.50	7.50	7.5	1.87	1.87	1.5	74.20	73.70	74.0	6.61	6.55	0.0	5.21	5.20	J.2	3.90	3.7
	9/6/2023	Sunnv	8:30	0.50		0.25	25.70	25.70	25.7	7.27	7.27	7.2	0.66	0.66	0.7	77.40	77.00	77.2	7.22	7.15	7.2	1.62	13.62	76	7.70	7.9
	9/0/2023	Sunny	8:35	0.50		0.25	25.70	25.70	23.1	7.27	7.27	7.5	0.66	0.66	0.7	77.40	77.00	11.2	7.22	7.15	1.2	1.62	13.62	7.0	8.10	1.5
	12/6/2023	Sunnv	12:30	0.50		0.25	29.00	29.00	29.0	7.68	7.68	7.7	0.70	0.70	0.7	77.10	76.20	76.7	6.50	6.53	6.5	6.80	6.79	6.8	4.10	4.2
	12/0/2023	Sunny	12:35	0.50		0.25	29.00	29.00	29.0	7.68	7.68	1.1	0.70	0.70	0.7	77.10	76.20	/0./	6.50	6.53	0.5	6.80	6.79	0.0	4.20	4.2
W1	14/6/2023	Rainny	15:15	0.50		0.25	25.50	25.50	25.5	7.81	7.81	7.8	0.52	0.52	0.5	79.40	78.70	79.1	7.24	7.14	7.2	2.40	2.40	2.4	5.70	5.8
Wang Tong River	14/0/2023	Raininy	15:20	0.50	Middle	0.25	25.50	25.50	20.0	7.81	7.81	7.0	0.52	0.52	0.5	79.40	78.70	75.1	7.24	7.14	1.2	2.40	2.40	2.4	5.90	5.0
(Major tributary)	19/6/2023	Sunny	17:30	0.50	Wilduic	0.25	25.80	25.80	25.8	7.87	7.87	79	0.33	0.33	0.3	86.70	85.60	86.2	7.99	7.89	7 9	7.69	7.69	77	3.40	3.7
())	13/0/2023	Gaility	17:35	0.50		0.25	25.80	25.80	20.0	7.87	7.87	1.5	0.33	0.33	0.0	86.70	85.60	00.2	7.99	7.89	1.5	7.69	7.69	1.1	3.90	5.7
	21/6/2023	Sunnv	7:00	0.50		0.25	26.50	26.50	26.5	7.21	7.21	7.2	1.98	1.98	2.0	84.00	83.40	83.7	7.78	7.68	7.7	7.27	7.27	7.3	2.60	2.6
	21/0/2023	Sunny	7:05	0.50		0.25	26.50	26.50	20.5	7.21	7.21	1.2	1.98	1.98	2.0	84.00	83.40	03.7	7.78	7.68	1.1	7.27	7.27	1.5	2.60	2.0
	23/6/2023	Sunny	6:30	0.50		0.25	25.30	25.30	25.3	7.70	7.70	7.7	0.21	0.21	33	76.00	75.40	75.7	7.12	7.06	7.1	10.45	10.45	10.5	18.00	17.9
	20/0/2020	Gaility	6:35	0.50		0.25	25.30	25.30	20.0	7.70	7.70	7.1	0.21	12.51	0.0	76.00	75.40	13.1	7.12	7.06	7.1	10.45	10.45	10.5	17.80	17.5
	26/6/2023	Sunnv	10:00	0.50		0.25	26.50	26.50	26.5	6.87	6.87	6.9	0.30	0.30	0.2	81.80	81.20	81.5	7.59	7.50	7.5	4.78	4.78	10	2.40	2.5
	20/0/2023	Sulliny	10:05	0.50		0.25	26.50	26.50	20.5	6.87	6.87	0.9	0.30	0.30	0.5	81.80	81.20	01.5	7.59	7.50	7.5	4.78	4.78	4.0	2.60	2.5
	28/6/2023	Cloudy	13:15	0.50		0.25	25.80	25.80	25.8	7.74	7.74	7.7	0.36	0.36	0.4	74.70	74.30	74.5	6.56	6.51	6.5	2.41	2.41	2.4	2.30	2.4
	20/0/2023	Cloudy	13:20	0.50		0.25	25.80	25.80	23.0	7.74	7.74	1.1	0.36	0.36	0.4	74.70	74.30	74.5	6.56	6.51	0.5	2.41	2.41	2.4	2.40	2.4
	30/6/2023	Sunnv	15:45	0.50]	0.25	26.70	26.70	26.7	7.51	7.51	7.5	0.30	0.30	0.3	83.40	82.70	83.1	7.23	7.15	7.2	12.22	12.21	12.2	6.80	6.6
	30/0/2023	Gallity	15:50	0.50		0.25	26.70	26.70	20.7	7.51	7.51	7.5	0.30	0.30	0.5	83.40	82.70	03.1	7.23	7.15	1.2	12.22	12.21	12.2	6.40	0.0

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

General Note: Additional data of temperature, pH, salinity, DO saturation, DO and turbidty were obtained in each duplicate set for better representativeness.

Lam Environmental Services Limited

W1

Wang Tong River

(Major tributary)

Contract No. HY/2019/14 New Wang Tong River Bridge

2.0

6.6

2.9

9.5

4.6

5.2

2.6

2.9

2.0

3.7

2.60

2.00

2.00

6.70

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9.30

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5.20

5.10

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2.40

2.70

3.10

2.00

2.00

3.80

3.60

Lam Environmental Services Limited
Water Quality Monitoring Results

Water Quality Monitoring at Station W2 (Middle) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Tempe			pН			Salinity			aturatio	n		DO			urbidity		-	SS
Station Reference	Date	weather	Time	· · ·	Level		0			-			ppt			%			mg/L			NTU			ng/L
				m		m	Value	Average		le	Average	Valu		Average	Value		Average	Value		Average	Value	•	Average	Value	Avera
	2/6/2023	Sunny	10:30	0.50		0.25		9.30 29.3	7.48	7.48	7.5	12.78	12.78	12.8		71.30	71.7	6.32	6.25	6.3	9.83	9.83	9.8	5.70	5
			10:35	0.50		0.25		9.30	7.48	7.48		12.78	12.78	-		71.30		6.32	6.25		9.83	9.83		6.10	
	5/6/2023	Sunny	12:45	0.50		0.25		9.00 29.0	7.54	7.54	7.5	15.55	15.55	15.6		74.00	74.3	6.10	5.98	6.0	4.65	4.65	4.7	5.10	5
			12:50	0.50		0.25		9.00	7.54	7.54		15.55	15.55			74.00		6.10	5.98		4.65	4.65		5.30	
	7/6/2023	Sunny	14:00	0.50		0.25		7.00 27.0	7.60	7.60	7.6	12.27	12.27	12.3		72.80	73.2	6.51	6.45	6.5	4.06	4.06	4.1	2.00	
			14:05	0.50		0.25		7.00	7.60	7.60	-	12.27	12.27	-		72.80	-	6.51	6.45		4.06	4.06		2.00	
	9/6/2023	Sunny	15:45	0.50		0.25		7.50 27.5	7.20	7.20	7.2	4.31	4.31	4.3		74.50	74.8	6.22	6.08	6.2	10.35	10.35	10.4	10.00	- c
			15:50	0.50		0.25		7.50	7.20	7.20		4.31	4.31			74.50		6.22	6.08		10.35	10.35		9.60	
	12/6/2023	Sunny	7:15	0.50		0.25		6.70 26.7	7.17	7.17	7.2	2.74	2.74	2.7		75.40	75.7	6.26	6.16	6.2	6.59	6.59	6.6	9.10	
			7:20	0.50		0.25		6.70	7.17	7.17		2.74	2.74			75.40		6.26	6.16		6.59	6.59		9.50	_
W2	14/6/2023	Rainny	9:15	0.50		0.25		5.50 25.5	7.30	7.30	7.3	0.66	0.66	0.7	74.00	73.40	73.7	6.95	6.89	6.9	19.71	19.71	19.7	21.40	2
Wang Tong River		,	9:20	0.50	Middle	0.25		5.50	7.30	7.30		0.66	0.66			73.40		6.95	6.89		19.71	19.71		21.00	_
(Major tributary)	19/6/2023	Sunny	12:30	0.50		0.25		6.10 26.1	7.16	7.16	7.2	1.45	1.45	1.5		74.20	74.5	6.76	6.67	6.7	27.02	27.02	27.0	5.10	
		,	12:35	0.50		0.25		6.10	7.16	7.16		1.45	1.45			74.20		6.76	6.67		27.02	27.02		5.40	_
	21/6/2023	Sunny	13:30	0.50		0.25		6.70 26.7	7.33	7.33	7.3	2.20	2.20	2.2		80.50	81.0	6.38	6.29	6.3	5.53	5.53	5.5	11.70	1
		-	13:35	0.50		0.25		6.70	7.33	7.33		2.20	2.20			80.50		6.38	6.29		5.53	5.53		12.40	
	23/6/2023	Cloudy	15:00	0.50		0.25		7.20 27.2	7.39	7.39	7.4	4.67	4.67	4.7		73.70	74.2	6.46	6.35	6.4	8.70	8.69	8.7	19.60	19
		-	15:05	0.50		0.25	-	7.20	7.39	7.39		4.67	4.67			73.70		6.46	6.35		8.70	8.69		20.20	-
	26/6/2023	Sunny	16:45	0.50		0.25		8.50 28.5	7.22	7.22	7.2	0.83	0.83	0.8		86.30	86.6	7.23	7.17	7.2	5.78	5.77	5.8	8.10	6
			16:50	0.50		0.25		8.50	7.22	7.22		0.83	0.83			86.30		7.23	7.17		5.78	5.77		8.50	
	28/6/2023	Cloudy	7:30	0.50		0.25		6.60 26.6	7.30	7.30	7.3	1.31	1.31	1.3	76.60	76.20	76.4	6.97	6.88	6.9	2.54	2.54	2.5	2.70	- 2
			7:35	0.50		0.25		6.60	7.30	7.30		1.31	1.31		76.60	76.20		6.97	6.88		2.54	2.54		3.00	-
	30/6/2023	Rainny	9:15	0.50		0.25		7.70 27.7	7.70	7.70	7.7	8.54	8.54	8.5		77.10	77.5	6.42	6.32	6.4	3.99	3.99	4.0	2.20	
	WQM for 16 Jun	· · · · · ·	9:20	0.50		0.25	27.70 2	7.70	7.70	7.70		8.54	8.54		77.80	77.10	I	6.42	6.32		3.99	3.99		2.50	1

Water Quality Monitoring at Station W2 (Middle) - Elood Tide

vvater	Quality	Monitoring	at Station	VV2 (IV	/lidale) -	Flood I	ide

	Sampling		Sampling	Water	Sampling	Sampling	Te	emperatu	re		pН			Salinity		DO Satu	ration		DO		-	Turbidity		S	SS
Station Reference	Date	Weather	Time	Depth	Depth	Depth		°C			-			ppt		%			mg/L			NTU		mç	g/L
	Duic		TIME	m	Deptil	m	Valu	ue	Average	Valu	е	Average	Val	ue	Average	Value	Average	Va	lue	Average	Valu	le	Average	Value	Average
	2/6/2023	Sunnv	17:15	0.50		0.25	31.30	31.30	31.3	7.41	7.41	74	8.14	8.14	0 1	71.10 70	.20 70.7	6.70	6.75	67	7.50	7.50	7.5	6.90	6.7
	2/0/2023	Sunny	17:20	0.50		0.25	31.30	31.30	31.3	7.41	7.41	7.4	8.14	8.14	0.1	71.10 70	.20	6.70	6.75	0.7	7.50	7.50	7.5	6.50	0.7
	5/6/2023	Sunny	17:45	0.50		0.25	29.00	29.00	29.0	7.49	7.49	7.5	12.35	12.35	12.4	72.60 71	.70 72.2	6.72	6.77	6.7	6.91	6.91	6.9	5.60	5.5
	3/0/2023	Odinity	17:50	0.50		0.25	29.00	29.00	20.0	7.49	7.49	1.5	12.35	12.35	12.4	72.60 71	.70	6.72	6.77	0.7	6.91	6.91	0.5	5.30	0.0
	7/6/2023	Sunny	6:45	0.50		0.25	26.50	26.50	26.5	7.92	7.92	79	23.27	23.27	23.3	81.50 81	.00 81.3	6.60	6.55	6.6	3.93	3.93	3.9	3.70	3.8
	1/0/2023	Odiniy	6:50	0.50		0.25	26.50	26.50	20.5	7.92	7.92	1.5	23.27	23.27	20.0		.00	6.60	6.55	0.0	3.93	3.93	0.0	3.80	0.0
	9/6/2023	Sunny	8:45	0.50		0.25	25.60	25.60	25.6	7.18	7.18	72	1.72	1.72	17	78.00 77	.10 77.6	6.55	6.56	66	12.94	12.94	12.9	10.40	10.6
	0/0/2020	ounny	8:50	0.50		0.25	25.60	25.60	20.0	7.18	7.18	7.2	1.72	1.72			.10	6.55	6.56	0.0	12.94	12.94	12.0	10.80	10.0
	12/6/2023	Sunny	12:45	0.50		0.25	31.50	31.50	31.5	7.46	7.46	7.5	2.41	2.41	2.4		.40 70.8	6.54	6.57	6.6	29.17	29.17	29.2	18.60	19.2
	12/0/2020	ounny	12:50	0.50		0.25	31.50	31.50	01.0	7.46	7.46	7.0	2.41	2.41	2		.40	6.54	6.57	0.0	29.17	29.17		19.80	
W2	14/6/2023	Rainny	15:30	0.50		0.25	25.70	25.70	25.7	7.52	7.52	7.5	0.71	0.77	0.7		.50 72.7	6.55	6.50	6.5	2.64	2.64	2.6	6.60	6.4
Wang Tong River	1.002020	rtainiy	15:35	0.50	Middle	0.25	25.70	25.70	20.7	7.52	7.52	1.0	0.71	0.77	0.1		.50	6.55	6.50	0.0	2.64	2.64	2.0	6.10	0.
(Major tributary)	19/6/2023	Sunny	17:45	0.50		0.25	26.10	26.10	26.1	7.48	7.48	7.5	1.10	1.10	1.1		.80 70.3	6.75	6.78	6.8	7.07	7.07	7.1	3.20	3.0
		,	17:50	0.50		0.25	26.10	26.10		7.48	7.48		1.10	1.10			.80	6.75	6.78		7.07	7.07		2.80	
	21/6/2023	Sunny	7:15	0.50		0.25	26.70	26.70	26.7	7.57	7.57	7.6	22.12	22.12	22.1		.40 79.7	6.72	6.71	6.7		7.16	7.2	8.00	8.2
			7:20	0.50		0.25	26.70	26.70		7.57	7.57		22.12	22.12			.40	6.72	6.71		7.16	7.16		8.40	
	23/6/2023	Sunny	6:45	0.50		0.25	25.70	25.70	25.7	7.43	7.43	7.4	0.33	0.33	0.3		.60 71.8	6.56	6.50	6.5	10.34	10.33	10.3	10.40	10.7
		-	6:50	0.50		0.25	25.70	25.70		7.43	7.43		0.33	0.33			.60	6.56	6.50		10.34	10.33		10.90	
	26/6/2023	Sunny	10:15	0.50		0.25	26.70	26.70	26.7	6.85	6.85	6.9	0.72	0.72	0.7		.40 76.8	6.92	6.86	6.9	3.89	3.89	3.9	3.40	3.4
			10:20	0.50	-	0.25	26.70	26.70		6.85	6.85		0.72	0.72			.40	6.92	6.86		3.89	3.89		3.30	
	28/6/2023	Cloudy	13:30	0.50	4	0.25	26.20	26.20	26.2	7.54	7.54	7.5	0.79	0.79	0.8		.60 78.2	6.94	6.86	6.9	3.33	3.33	3.3	3.50	3.7
			13:35	0.50	-	0.25	26.20	26.20		7.54	7.54		0.79	0.79			.60	6.94	6.86		3.33	3.33		3.80	
	30/6/2023	Sunny	16:00 16:05	0.50	4	0.25	27.20	27.20	27.2	7.35	7.35	7.4	0.91	0.91	0.9		.60 77.9	6.96	6.86	6.9	10.23	10.33	10.3	6.20	6.1
			16:05	0.50		0.25	27.20	27.20	1	7.35	7.35		0.91	0.91	I	78.20 77	.60	6.96	6.86		10.23	10.33		6.00	1

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

Lam Environmental Services Lim

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Water Quality Monitoring at Station W4 (Middle) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Temperat °C	ure		pН			Salinity ppt		DOS	Saturatic %	on		DO ma/L			Turbidity NTU		-	SS Ia/L
Gladon relefence	Date	weather	Time	m	Level	m	Value	Average	Valu	e -	Average	Valu		Average	Value		Average	Valu	J	Average	Valu		Average	Value	Avera
		-	10:45	0.50		0.25	29.80 29.8	0	7.49	7.49		17.00	17.00		76.50	75.60		6.01	5.97		10.44	10.44		4.80	
	2/6/2023	Sunny	10:50	0.50		0.25	29.80 29.8		7.49	7.49	7.5	17.00	17.00	17.0	76.50	75.60	76.1	6.01	5.97	6.0	10.44	10.44	10.4	5.00	
	5/0/0000	0	13:00	0.50		0.25	29.50 29.5	0 29.5	7.61	7.61	7.0	20.03	20.03	20.0	74.60	73.60	74.1	6.12	5.99		4.37	4.37	4.4	2.00	2
	5/6/2023	Sunny	13:05	0.50		0.25	29.50 29.5	0 29.5	7.61	7.61	7.6	20.03	20.03	20.0	74.60	73.60	74.1	6.12	5.99	6.1	4.37	4.37	4.4	2.00	1 2
	7/6/2023	Sunny	14:15	0.50		0.25	27.60 27.6	0 27.6	7.67	7.67	7.7	14.81	14.81	14.8	73.60	72.70	73.2	6.30	6.11	6.2	4.82	4.82	4.8	2.00	2
	7/6/2023	Sunny	14:20	0.50		0.25	27.60 27.6	0 27.0	7.67	7.67	1.1	14.81	14.81	14.0	73.60	72.70	13.2	6.30	6.11	0.2	4.82	4.82	4.0	2.00	- Z.
	9/6/2023	Sunnv	16:00	0.50		0.25	28.30 28.3		7.41	7.41	7.4	12.63	12.63	12.6	77.30	77.00	77.2	6.20	6.00	6.1	6.58	6.58	6.6	3.70	- 3
	3/0/2023	Sunny	16:05	0.50		0.25	28.30 28.3	0 20.3	7.41	7.41	7.4	12.63	12.63	12.0	77.30	77.00	11.2	6.20	6.00	0.1	6.58	6.58	0.0	3.40	
	12/6/2023	Sunny	7:30	0.50		0.25	26.80 26.8	0 26.8	7.41	7.41	7.4	6.43	6.43	6.4	70.20	69.30	69.8	6.10	6.01	6.1	5.22	5.22	5.2	3.40	3
	12/0/2020	ounny	7:35	0.50		0.25	26.80 26.8	0	7.41	7.41		6.43	6.43	0.1	70.20	69.30	00.0	6.10	6.01	0.1	5.22	5.22	0.2	3.70	ÿ
W4	14/6/2023	Rainny	9:30	0.50		0.25	25.80 25.8		7.28	7.28	7.3	0.74	0.74	0.7	81.70	81.00	81.4	6.47	6.39	6.4	21.01	21.00	21.0	25.30	25
Wang Tong River	1 1/0/2020	rtainiy	9:35	0.50	Middle	0.25	25.80 25.8	0	7.28	7.28	1.0	0.74	0.74	0.1	81.70	81.00	0	6.47	6.39	0.1	21.01	21.00	21.0	25.80	
(Minor tributary to Tai Wai Yuen)	19/6/2023	Sunny	12:45	0.50		0.25	25.60 25.6		7.13	7.13	7.1	3.77	3.77	3.8	72.30	71.40	71.9	6.30	6.24	6.3	11.40	11.40	11.4	3.40	3
wai tuen)			12:50	0.50		0.25	25.60 25.6		7.13	7.13		3.77	3.77		72.30	71.40	-	6.30	6.24		11.40	11.40		3.80	
	21/6/2023	Sunny	13:45	0.50		0.25	26.60 26.6		7.36	7.36	7.4	3.28	3.28	3.3	75.40	74.70	75.1	6.13	6.04	6.1	6.12	6.12	6.1	12.40	12
			13:50	0.50		0.25	26.60 26.6		7.36	7.36		3.28	3.28		75.40	74.70		6.13	6.04		6.12	6.12		12.00	
	23/6/2023	Cloudy	15:15	0.50		0.25	27.00 27.0		7.56	7.56	7.6	2.67	2.67	2.7	71.20	70.40	70.8	6.26	6.17	6.2	7.53	7.53	7.5	14.60	14
		-	15:20	0.50		0.25	27.00 27.0		7.56	7.56		2.67	2.67		71.20	70.40		6.26	6.17		7.53	7.53		15.10	-
	26/6/2023	Sunny	17:00	0.50		0.25	30.60 30.6		7.71	7.71	7.7	2.11	2.11	2.1	75.30	74.70	75.0	6.17	6.08	6.1	7.42	7.42	7.4	8.70	8
			17:05	0.50		0.25	30.60 30.6		7.71	7.71		2.11	2.11		75.30	74.70		6.17	6.08		7.42			8.20	_
	28/6/2023	Cloudy	7:45	0.50		0.25	26.60 26.6 26.60 26.6		7.34	7.34	7.3	1.48	1.48	1.5	75.40 75.40	75.00 75.00	75.2	6.78 6.78	6.71 6.71	6.7	2.89	2.89 2.89	2.9	2.00	
			9:30	0.50		0.25	27.80 27.8	0	8.00	8.00		12.41	12.41		79.00	78.30		6.40	6.35		3.57	3.57		2.00	
	30/6/2023	Rainny	9:35	0.50		0.25	27.80 27.8		8.00	8.00	8.0	12.41	12.41	12.4	79.00	78.30	78.7	6.40	6.35	6.4	3.57	3.57	3.6	2.40	
Remarks:	WQM for 16 Jun	e was suspend				0.20		- 1	5.00	5.00					. 5.00	. 5.66	i i	5.10	5.00		0.07	5.07		2.20	

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	Water Quality Monitoring at Station W4 (Middle) - Flood Tide	
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	Sampling		Sampling	Water	Sampling	Sampling	Te	emperatur	е		pН			Salinity		DO Sa	aturation	۱		DO			Turbidity		S	s
Station Reference	Date	Weather	Time	Depth	Depth	Depth		°C			-			ppt			%			mg/L			NTU		mg	J/L
	Bato			m	Bopai	m	Val	ue	Average	Val	ue	Average	Valu	ie	Average	Value	1	Average	Valu	le	Average	Valu	le	Average	Value	Average
	2/6/2023	Sunnv	17:30	0.50		0.25	31.90	31.90	31.9	7.54	7.54	7.5	9.30	9.30	9.3	74.70	73.60	74.2	6.66	6.58	6.6	7.55	7.54	7.5	4.00	4.2
	2/0/2023	Sunny	17:35	0.50		0.25	31.90	31.90	31.5	7.54	7.54	7.5	9.30	9.30	5.5	74.70	73.60	74.2	6.66	6.58	0.0	7.55	7.54	7.5	4.40	4.2
	5/6/2023	Sunny	18:00	0.50		0.25	29.20	29.20	29.2	7.62	7.62	7.6	10.30	10.30	10.3	74.60	73.80	74.2	6.56	6.59	6.6	6.35	6.35	6.4	4.30	4.5
	5/0/2025	Galility	18:05	0.50		0.25	29.20	29.20	20.2	7.62	7.62	7.0	10.30	10.30	10.5	74.60	73.80	74.2	6.56	6.59	0.0	6.35	6.35	0.4	4.70	4.5
	7/6/2023	Sunny	7:00	0.50		0.25	26.70	26.70	26.7	8.00	8.00	8.0	23.35	23.35	23.4	71.90	71.10	71.5	6.74	6.78	6.8	4.37	4.37		7.80	7.5
	110/2023	Guility	7:05	0.50		0.25	26.70	26.70	20.7	8.00	8.00	0.0	23.35	23.35	20.4		71.10	71.5	6.74	6.78	0.0	4.37	4.37	4.4	7.20	1.5
	9/6/2023	Sunny	9:00	0.50		0.25	25.70	25.70	25.7	7.13	7.13	71	8.55	8.55	86	77.20	76.80	77.0	6.51	6.57	65	6.01	6.01	6.0	2.70	2.9
	0/0/2020	Gallity	9:05	0.50		0.25	25.70	25.70	20.7	7.13	7.13	,	8.55	8.55	0.0		76.80	11.0	6.51	6.57	0.0	6.01	6.01	0.0	3.10	2.0
	12/6/2023	Sunny	13:00	0.50		0.25	32.00	32.00	32.0	7.81	7.81	7.8	7.34	7.34	7.3		71.10	71.4	6.63	6.62	6.6	28.10	28.10	28.1	21.10	21.1
	12/0/2020	Gallity	13:05	0.50		0.25	32.00	32.00	02.0	7.81	7.81	1.0	7.34	7.34	7.0	-	71.10	,	6.63	6.62	0.0	28.10	28.10		21.00	
W4	14/6/2023	Rainny	15:45	0.50		0.25	26.00	26.00	26.0	7.42	7.42	7.4	0.94	0.94	0.9		72.00	72.5	6.66	6.61	6.6	2.61	2.61	2.6	9.80	10.0
Wang Tong River	1 1/0/2020	rtainiy	15:50	0.50	Middle	0.25	26.00	26.00	20.0	7.42	7.42		0.94	0.94	0.0		72.00	72.0	6.66	6.61	0.0	2.61	2.61	2.0	10.10	10.0
(Minor tributary to Tai Wai Yuen)	19/6/2023	Sunny	18:00	0.50		0.25	26.20	26.20	26.2	7.45	7.45	7.5	1.12	1.12	1.1		74.70	75.0	6.66	6.61	6.6	7.65	7.65	7.7	4.30	4.4
wai ruen)		÷=)	18:05	0.50		0.25	26.20	26.20		7.45	7.45		1.12	1.12			74.70		6.66	6.61		7.65	7.65		4.50	
	21/6/2023	Sunny	7:30	0.50		0.25	26.60	26.60	26.6	7.72	7.72	7.7	20.08	20.08	20.1		80.50	80.8	6.72	6.59	6.7	6.33	6.33	6.3	6.40	6.6
			7:35	0.50		0.25	26.60	26.60		7.72	7.72		20.08	20.08			80.50		6.72	6.59		6.33	6.33		6.80	
	23/6/2023	Sunny	7:00	0.50		0.25	25.70	25.70	25.7	7.39	7.39	7.4	0.51	0.51	0.5		81.20	81.6	6.54	6.58	6.6	11.40	11.40	11.4	12.20	12.0
			7:05	0.50		0.25	25.70	25.70	-	7.39	7.39		0.51	0.51			81.20		6.54	6.58		11.40	11.40		11.70	
	26/6/2023	Sunny	10:30	0.50		0.25	26.90	26.90	26.9	7.00	7.00	7.0	0.88	0.88	0.9		73.60	73.8	6.56	6.47	6.5	4.23	4.23	4.2	4.20	4.2
			10:35	0.50		0.25	26.90	26.90		7.00	7.00		0.88	0.88			73.60		6.56	6.47		4.23	4.23		4.20	
	28/6/2023	Cloudy	13:45	0.50	4	0.25	26.20	26.20	26.2	7.59	7.59	7.6	0.73	0.73	0.7		75.10	75.4	6.55	6.47	6.5	2.31	2.31	2.3	3.00	2.8
		,	13:50	0.50	4	0.25	26.20	26.20		7.59	7.59		0.73	0.73			75.10		6.55	6.47		2.31	2.31		2.60	
	30/6/2023	Sunny	16:15	0.50	4	0.25	27.50	27.50	27.5	7.44	7.44	7.4	1.09	1.09	1.1		73.60	73.8	6.73	6.65	6.7	10.80	10.80	10.8	6.00	6.8
			16:20	0.50		0.25	27.50	27.50		7.44	7.44		1.09	1.09		74.00	73.60		6.73	6.65		10.80	10.80		7.60	

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

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es Limited Water Quality Monitoring Results

Contract No. HY/2019/14 New Wang Tong River Bridge

Water Quality Monitoring at Station W5 (Middle) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Tempera °C	ture		pН			Salinity		DOS	Saturatio %	on		DO ma/L			Turbidity NTU			SS Ia/L
Station Reference	Date	weather	Time	m	Level	m	Value	Average	Valu		Average	Valu	ppt	Average	Value		Average	Valu	3	Average	Valu		Average		ř
			11:00	0.50		0.25	29.50 29.5		7.64	7.64	Average	14.85	14.85	Average	72.00	71.00	Average	6.15	e 6.02	Average	7.65	e 7.65	Average	Value 2.00	Averaç
	2/6/2023	Sunny	11:05	0.50		0.25	29.50 29.5		7.64	7.64	7.6	14.85	14.85	14.9	72.00	71.00	71.5	6.15	6.02	6.1	7.65	7.65	7.7	2.00	2.0
			13:15	0.50		0.25	29.30 29.3	20	7.64	7.64		21.32	21.32		72.00	77.80		6.10	5.97		4.25	4.25		2.60	
	5/6/2023	Sunny	13:13	0.50		0.25	29.30 29.3		7.76	7.76	7.8	21.32	21.32	21.3	78.40	77.80	78.1	6.10	5.97	6.0	4.25	4.25	4.3	2.60	
			14:30	0.50		0.25	27.30 27.3	0	7.80	7.80		14.76	14.76		76.60	75.30		6.26	6.17		3.35	3.35		2.00	
	7/6/2023	Sunny	14:35	0.50		0.25	27.30 27.3		7.80	7.80	7.8	14.76	14.76	14.8	76.60	75.30	76.0	6.26	6.17	6.2	3.35	3.35	3.4	2.00	
			16:15	0.50		0.25	28.20 28.2	20	7.52	7.52		7.63	7.63		75.10	74.10		6.41	6.30		9.03	9.03		11.50	
	9/6/2023	Sunny	16:20	0.50		0.25	28.20 28.2		7.52	7.52	7.5	7.63	7.63	7.6	75.10	74.10	74.6	6.41	6.30	6.4	9.03	9.03	9.0	11.80	11.
		_	7:45	0.50		0.25	26.80 26.8	0	7.47	7.47		4.88	4.88		71.50	70.40		6.11	6.03		6.12	6.12		6.30	
	12/6/2023	Sunny	7:50	0.50		0.25	26.80 26.8		7.47	7.47	7.5	4.88	4.88	4.9	71.50	70.40	71.0	6.11	6.03	6.1	6.12	6.12	6.1	6.80	6.
W5	4.4/0/00000	- ·	9:45	0.50		0.25	25.90 25.9	0	7.20	7.20		1.66	1.66		71.30	70.60		6.39	6.34		20.74	20.74		33.40	
Silvermine Bay	14/6/2023	Rainny	9:50	0.50	Mariana.	0.25	25.90 25.9	25.9	7.20	7.20	7.2	1.66	1.66	1.7	71.30	70.60	71.0	6.39	6.34	6.4	20.74	20.74	20.7	35.10	34.
(Near Silvermine Bay	19/6/2023	0	13:00	0.50	Middle	0.25	26.20 26.2	26.2	7.30	7.30	7.0	3.88	3.88	3.9	70.10	69.90	70.0	6.34	6.27	0.0	9.58	9.58	0.0	7.30	
Beach)	19/6/2023	Sunny	13:05	0.50		0.25	26.20 26.2	20.2	7.30	7.30	7.3	3.88	3.88	3.9	70.10	69.90	70.0	6.34	6.27	6.3	9.58	9.58	9.6	7.20	7.3
	21/6/2023	Sunny	14:00	0.50		0.25	27.10 27.1	0 27.1	7.44	7.44	7.4	4.58	4.58	4.6	78.70	78.00	78.4	6.11	6.03	6.1	8.08	8.07	8.1	12.70	12.
	21/6/2023	Sunny	14:05	0.50		0.25	27.10 27.1	0 27.1	7.44	7.44	7.4	4.58	4.58	4.0	78.70	78.00	/0.4	6.11	6.03	0.1	8.08	8.07	0.1	12.10	12.
	23/6/2023	Cloudy	15:30	0.50		0.25	27.20 27.2	27.2	7.46	7.46	7.5	4.12	4.12	4.1	71.20	70.60	70.9	6.21	6.18	6.2	8.80	8.80	8.8	11.00	- 11.1
	20/0/2020	Cloudy	15:35	0.50		0.25	27.20 27.2	20	7.46	7.46	1.5	4.12	4.12	4.1	71.20	70.60	10.5	6.21	6.18	0.2	8.80	8.80	0.0	11.20	
	26/6/2023	Sunny	17:15	0.50		0.25	29.50 29.5		7.66	7.66	7.7	2.12	2.12	2.1	82.80	82.00	82.4	7.13	7.08	7.1	4.36	4.36	4.4	3.00	- 3(
	20/0/2020	ounny	17:20	0.50		0.25	29.50 29.5	i0	7.66	7.66		2.12	2.12	2	82.80	82.00	02.1	7.13	7.08		4.36	4.36		2.90	
	28/6/2023	Cloudy	8:00	0.50		0.25	26.80 26.8	26.8	7.35	7.35	7.4	2.72.	2.72	2.7	74.90	74.10	74.5	6.33	6.28	6.3	3.02	3.02	3.0	2.00	2.0
		,	8:05	0.50		0.25	26.80 26.8		7.35	7.35		2.72.	2.72		74.90	74.10		6.33	6.28		3.02	3.02		2.00	
	30/6/2023	Rainny	9:45	0.50		0.25	28.10 28.1		8.10	8.10	8.1	16.32	16.32	16.3	80.80	79.90	80.4	6.15	6.00	6.1	4.37	4.37	4.4	5.00	5.0
Į	WQM for 16 Jun		9:50	0.50		0.25	28.10 28.1	0	8.10	8.10		16.32	16.32		80.80	79.90		6.15	6.00		4.37	4.37		5.00	1

Water Quality Monitoring at Station W5 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Sampling	Te	emperatur	е		pН			Salinity		DO Sat	uration		DO			Turbidity		S	SS
Station Reference	Date	Weather	Time	Depth	Depth	Depth		°C			-			ppt		%			mg/L			NTU		mç	g/L
	Date		Time	m	Depair	m	Val	ue	Average	Value	Э	Average	Va	ue	Average	Value	Average	Va	lue	Average	Valu	Je	Average	Value	Average
	2/6/2023	Sunnv	17:45	0.50		0.25	31.70	31.70	31.7	7.65	7.65	77	9.56	9.56	0.6	71.90 7	1.30 71.6	6.19	6.10	6.1	7.16	7.16	7.0	6.30	6.5
	2/0/2023	Sunny	17:50	0.50		0.25	31.70	31.70	31.7	7.65	7.65	1.1	9.56	9.56	9.0	71.90 7	1.30	6.19	6.10	0.1	7.16	7.16	1.2	6.70	0.5
	5/6/2023	Sunnv	18:15	0.50		0.25	29.10	29.10	29.1	7.66	7.66	7.7	15.06	15.06	15.1	74.90 7	3.60 74.3	6.15	6.08	6.1	7.65	7.65	77	5.20	5.0
	5/0/2025	Guility	18:20	0.50		0.25	29.10	29.10	23.1	7.66	7.66	1.1	15.06	15.06	10.1	74.90 7	3.60	6.15	6.08	0.1	7.65	7.65	1.1	4.80	0.0
	7/6/2023	Sunnv	7:30	0.50		0.25	26.60	26.60	26.6	8.11	8.11	8.1	28.01	28.01	28.0	76.60 7	6.00 76.3	6.38	6.20	6.3	2.80	2.79	2.8	2.60	2.8
	110/2023	Odinity	7:35	0.50		0.25	26.60	26.60	20.0	8.11	8.11	0.1	28.01	28.01	20.0	76.60 7	6.00	6.38	6.20	0.0	2.80	2.79	2.0	3.00	2.0
	9/6/2023	Sunny	9:15	0.50		0.25	25.70	25.70	25.7	7.44	7.44	74	2.29	2.29	2.3	72.80 7	2.00 72.4	6.27	6.19	62	14.17	14.17	14.2	12.60	12.6
	0/0/2020	odility	9:20	0.50		0.25	25.70	25.70	20.1	7.44	7.44		2.29	2.29	2.0	72.80 7	2.00	6.27	6.19	0.2	14.17	14.17		12.50	.2.0
	12/6/2023	Sunny	13:15	0.50		0.25	31.40	31.40	31.4	8.10	8.10	8.1	23.02	23.02	23.0		5.30 75.7	6.11	6.02	61	5.19	5.19	5.2	6.10	5.9
	12/0/2020	odility	13:20	0.50		0.25	31.40	31.40	0	8.10	8.10	0.1	23.02	23.02	20.0	76.10 7	5.30	6.11	6.02	0.1	5.19	5.19	0.2	5.70	0.0
W5	14/6/2023	Rainny	16:00	0.50		0.25	26.20	26.20	26.2	7.34	7.34	7.3	1.75	1.75	1.8		0.10 70.5	6.07	6.03	61	1.94	12.94	74	13.10	12.9
Silvermine Bay	1 1/0/2020	rtainity	16:05	0.50	Middle	0.25	26.20	26.20	20.2	7.34	7.34	1.0	1.75	1.75	1.0	70.80 7	0.10	6.07	6.03	0.1	1.94	12.94		12.60	12.0
(Near Silvermine Bay Beach)	19/6/2023	Sunny	18:15	0.50		0.25	26.30	26.30	26.3	7.35	7.35	7.4	2.10	2.10	2.1		0.90 71.3	6.55	6.48	6.5	7.68	7.68	7.7	5.70	5.9
Deach)		÷:,	18:20	0.50		0.25	26.30	26.30		7.35	7.35		2.10	2.10		-	0.90	6.55	6.48		7.68	7.68		6.00	
	21/6/2023	Sunny	17:45	0.50		0.25	26.60	26.60	26.6	7.82	7.82	7.8	26.31	26.31	26.3		3.20 74.0	6.16	5.99	6.1	12.31	12.31	12.3	22.40	22.8
		,	17:50	0.50		0.25	26.60	26.60		7.82	7.82		26.31	26.31			3.20	6.16	5.99		12.31	12.31		23.10	Ļ
	23/6/2023	Sunny	7:15	0.50		0.25	26.00	26.00	26.0	7.37	7.37	7.4	0.78	0.78	0.8		0.30 80.7	6.43	6.33	6.4	16.16	16.16	16.2	18.20	18.5
		,	7:20	0.50		0.25	26.00	26.00		7.37	7.37		0.78	0.78			0.30	6.43	6.33	-	16.16	16.16	-	18.80	L
	26/6/2023	Sunny	10:45	0.50		0.25	27.10	27.10	27.1	7.07	7.07	7.1	2.17	2.17	2.2		3.70 79.2	6.57	6.48	6.5	4.91	4.90	4.9	3.30	3.6
			10:50	0.50		0.25	27.10	27.10		7.07	7.07		2.17	2.17			3.70	6.57	6.48		4.91	4.90		3.90	
	28/6/2023	Cloudy	14:00	0.50		0.25	26.30	26.30	26.3	7.60	7.60	7.6	1.08	1.08	1.1		7.70 77.9	6.73	6.68	6.7	2.86	2.86	2.9	3.50	3.3
		,	14:05	0.50		0.25	26.30	26.30		7.60	7.60	-	1.08	1.08			7.70	6.73	6.68	-	2.86	2.86		3.10	L
	30/6/2023	Sunny	16:30	0.50		0.25	27.50	27.50	27.5	7.47	7.47	7.5	1.62	1.62	1.6		4.90 75.1	6.73	6.66	6.7	10.22	10.22	10.2	6.90	7.0
		,	16:35	0.50		0.25	27.50	27.50		7.47	7.47		1.62	1.62		75.30 7	4.90	6.73	6.66		10.22	10.22		7.00	1

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

m	Lam Environmental Services
	Water Quality Manitoring Re-

s Limited Water Quality Monitoring Results

Contract No. HY/2019/14 New Wang Tong River Bridge

Water Quality Monitoring at Station W6 (Middle) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Temperat °C	ure		pH -			Salinity ppt		DO	Saturatio	on		DO ma/L			Turbidity NTU			SS na/L
	Date		Time	m	Level	m	Value	Average	Valu	е	Average	Valu		Average	Valu		Average	Valu	3	Average	Valu		Average	Value	Avera
	2/6/2023	0	11:15	1.90		0.95	27.90 27.9	0 27.9	7.79	7.79	7.8	29.37	29.37	29.4	72.70	72.30	72.5	6.67	6.57	0.0	4.36	4.36	4.4	2.00	2.0
	2/6/2023	Sunny	11:20	1.90		0.95	27.90 27.9	0 27.9	7.79	7.79	7.8	29.37	29.37	29.4	72.70	72.30	72.5	6.67	6.57	6.6	4.36	4.36	4.4	2.00	2.0
	5/6/2023	Sunnv	13:30	1.80		0.90	28.50 28.5	0 28.5	8.01	8.01	8.0	29.41	29.41	29.4	79.20	78.50	78.9	6.22	6.13	6.2	5.19	5.19	5.2	3.80	3
	5/6/2023	Sunny	13:30	1.80		0.90	28.50 28.5	0 20.5	8.01	8.01	8.0	29.41	29.41	29.4	79.20	78.50	76.9	6.22	6.13	0.2	5.19	5.19	5.2	3.30	
	7/6/2023	Sunnv	14:45	1.80		0.90	28.20 28.2	0 28.2	7.96	7.96	8.0	26.64	26.64	26.6	72.30	71.30	71.8	6.29	6.12	6.2	2.90	2.90	2.9	2.00	2
	1/0/2023	Sunny	14:50	1.80		0.90	28.20 28.2	0 20.2	7.96	7.96	0.0	26.64	26.64	20.0	72.30	71.30	71.0	6.29	6.12	0.2	2.90	2.90	2.5	2.00	
	9/6/2023	Sunny	16:30	1.80		0.90	28.20 28.2		7.70	7.70	7.7	21.56	21.56	21.6	74.40	73.60	74.0	6.58	6.50	6.5	5.33	5.33	5.3	3.20	3
	0/0/2020	ounny	16:35	1.80		0.90	28.20 28.2	0	7.70	7.70		21.56	21.56	21.0	74.40	73.60	1 1.0	6.58	6.50	0.0	5.33	5.33	0.0	3.70	
	12/6/2023	Sunny	8:00	1.80		0.90	27.80 27.8		7.71	7.71	7.7	26.28	26.28	26.3	75.54	74.50	75.0	6.72	6.62	6.7	4.09	4.09	4.1	2.10	2
			8:05	1.80		0.90	27.80 27.8	0	7.71	7.71		26.28	26.28		75.54	74.50		6.72	6.62	*	4.09	4.09		2.40	
W6	14/6/2023	Rainny	10:00	1.90		0.95	26.40 26.4		7.65	7.65	7.7	21.79	21.79	21.8	76.20	75.20	75.7	6.15	6.05	6.1	9.74	9.74	9.7	12.50	
Silvermine Bay			10:05	1.90	Middle	0.95	26.40 26.4	0	7.65	7.65		21.79	21.79		76.20	75.20		6.15	6.05		9.74	9.74		11.80	1
(Near Silvermine Bay Beach)	19/6/2023	Sunny	13:15	1.90		0.95	28.20 28.2		7.62	7.62	7.6	17.17	17.17	17.2	70.00	69.40	69.7	6.05	5.99	6.0	7.28	7.28	7.3	2.00	
Deach)			13:20	1.90		0.95	28.20 28.2	0	7.62	7.62		17.17	17.17		70.00	69.40		6.05	5.99		7.28	7.28		2.00	
	21/6/2023	Sunny	14:15	1.80		0.90	29.00 29.0		8.03	8.03	8.0	26.26	26.26	26.3	76.50	75.50	76.0	6.25	6.19	6.2	4.38	4.37	4.4	4.20	4
			14:20	1.80		0.90	29.00 29.0		8.03	8.03		26.26	26.26		76.50	75.50		6.25	6.19		4.38	4.37		3.80	
	23/6/2023	Cloudy	15:45	1.80		0.90	27.40 27.4		7.89	7.89	7.9	25.24	25.24	25.2	81.20	80.50	80.9	6.19	6.06	6.1	4.72	4.72	4.7	4.70	4.
		-	15:50	1.80		0.90	27.40 27.4		7.89	7.89		25.24	25.24		81.20	80.50		6.19	6.06		4.72	4.72		4.80	
	26/6/2023	Sunny	17:30	1.80		0.90	29.10 29.1		8.35	8.35	8.4	20.28	20.28	20.3	82.10	81.50	81.8	6.86	6.77	6.8	2.78	2.78	2.8	3.30	
			17:35	1.80		0.90	29.10 29.1		8.35	8.35		20.28	20.28		82.10	81.50		6.86	6.77		2.78	2.78		3.60	
	28/6/2023	Cloudy	8:15 8:20	1.80 1.80		0.90	27.40 27.4 27.40 27.4	27.4	8.39 8.39	8.39 8.39	8.4	23.57 23.57	23.57 23.57	23.6	83.60 83.60	83.10 83.10	83.4	7.46	7.36	7.4	2.88	2.88	2.9	2.30	
					-		-	-										-							-
	30/6/2023	Rainny	10:00	1.90		0.95	28.60 28.6 28.60 28.6		8.51 8.51	8.51 8.51	8.5	23.74 23.74	23.74 23.74	23.7	77.40 77.40	77.10 77.10	77.3	6.51 6.51	6.45 6.45	6.5	3.53 3.53	3.53 3.53	3.5	3.80 4.10	- 4
	WQM for 16 Jun					0.95	20.00 28.0	0	8.51	6.51		23.74	23.74		77.40	77.10	I I	0.51	0.45		3.53	3.53	1	4.10	1

Water Quality Monitoring at Station W6 (Middle) - Flood Tide

| ampling
Date
//6/2023
//6/2023 | Weather
Sunny
Sunny
Sunny | Sampling
Time
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18:05
18:30
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| /6/2023 | Sunny | 18:05
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| /6/2023 | Sunny | 18:30
18:35 | | | 1.05 | |

 | 29.2 | 7.84

 | 7.84 | 7 9 29.0 | 29.01 | 29.0 | 77.70
 | 76.90 | 77.3 | 6.19 | 6.11 | 6.2 | 3.46
 | 3.46 | 2.5 | 3.10 | 3.3 |
| | | 18:35 | 2.20 | | 1.00 | 29.20 | 29.20

 | 23.2 | 7.84

 | 7.84 | 29.0 | 29.01 | 29.0 | 77.70
 | 76.90 | 11.5 | 6.19 | 6.11 | 0.2 | 3.46
 | 3.46 | 3.5 | 3.40 | 3.3 |
| | | | | | 1.10 | 28.90 | 28.90

 | 28.9 | 7.90

 | 7.90 | 5.9 28.1 | 28.10 | 28.1 | 75.90
 | 74.60 | 75.3 | 6.17 | 6.04 | 6.1 | 17.23
 | 17.23 | 17.2 | 30.10 | 29.9 |
| /6/2023 | Sunny | 7:45 | 2.20 | | 1.10 | 28.90 | 28.90

 | 20.0 | -

 | 7.90 | 28.1 | 28.10 |) 20.1 | 75.90
 | 74.60 | 10.0 | 6.17 | 6.04 | 0.1 | 17.23
 | 17.23 | | 29.60 | 20.0 |
| /0/2020 | | - | 3.30 | | 1.65 | | 26.80

 | 26.8 |

 | 8.22 | 8.2 27.7 | | | 76.80
 | 75.50 | 76.2 | 6.30 | 6.18 | 6.2 | 2.37
 | 2.37 | 2.4 | 2.00 | 2.0 |
| | | 7:50 | 3.30 | | 1.65 | | 26.80

 | 20.0 | 8.22

 | 8.22 | 27.7 | | 3 | 76.80
 | 75.50 | 10.2 | 6.30 | 6.18 | 0:2 | 2.37
 | 2.37 | 2.1 | 2.00 | 2.0 |
| /6/2023 | Sunny | | | | 1.10 | |

 | 26.9 |

 | | 7.6 | | 24.4 | 74.40
 | | 73.9 | 6.32 | | 6.3 | 4.36
 | 4.36 | 4.4 | 3.90 | 3.7 |
| | | 9:35 | | | 1.10 | 26.90 | 26.90

 | | 7.58

 | 7.58 | | | | 74.40
 | 73.40 | | 6.32 | 6.22 | | | |
 | 4.36 | | 3.40 | L |
| 2/6/2023 | Sunny | | | | | |

 | 29.4 |

 | | 82 | | 28.0 | | | |
 | | 74.5 | | - | 6.3 |
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 | | 27.9 | | | | | |
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| 4/6/2023 | Rainny | | | | | |

 | 26.7 |

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 | | 76.8 | | | 6.8 |
 | | 10.6 | | 8.9 |
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 | | | | L |
| 9/6/2023 | Sunny | | | | | |

 | 26.5 |

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 | | 75.8 | | | 6.1 |
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| 1/6/2023 | Sunny | | | | - | |

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| 3/6/2023 | Sunny | | | | - | |

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| 6/6/2023 | Sunny | | | | - | |

 | 28.5 | -

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| 8/6/2023 | Cloudy | - | | | - | |

 | 26.8 |

 | | 85 | | 23.9 |
 | | 79.4 | | | 7.0 | -
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| 0/6/2023 | Sunny | | | | - | |

 | 29.6 |

 | | 8.5 18.6 | 18.61 | 18.6 |
 | 84.60 | 84.8 | | | 6.5 | 7.88
 | 7.88 | 7.9 | | 9.1 |
| 2/6/
4/6/
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3/6/ | /2023 /
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Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

am	Lam Environmental Services Limite
	Water Quality Monitoring Results

Water Quality Monitoring at Station W7 (Middle) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Te	emperature °C)		pH			Salinity		DO Sa	turation %	_	DO mg/L			Turbidity NTU		-	SS Ia/L
Station Reference	Date	weather	Time	m	Level	m	Valu		Average	Valu	1	Average	Val	ppt	Average	Value	% Avera	10 V:	nig/L alue	Average	Valu		Average	Value	Avera
			11:30	2.90		1.45	28.40	28.40		7.97	7.97		29.88	29.88			0 60	6.17			5.07	5.07		2.00	
	2/6/2023	Sunny	11:35	2.90		1.45	28.40	28.40	28.4	7.97	7.97	8.0	29.88	29.88	29.9		9.60 79.9	6.17		6.1	5.07	5.07	5.1	2.00	
		_	13:45	2.80		1.40	28.30	28.30		8.22	8.22		29.94	29.94			0.80	6.26			3.88	3.88		2.30	
	5/6/2023	Sunny	13:50	2.80		1.40	28.30	28.30	28.3	8.22	8.22	8.2	29.94	29.94	29.9		71.0	6.26	6.10	6.2	3.88	3.88	3.9	2.50	
	7/0/0000	0	15:00	2.80		1.40	28.20	28.20	28.2	8.12	8.12		28.16	28.16	28.2	72.60	1.80 72.2	6.75	6.68	0.7	3.45	3.45	0.5	2.30	
	7/6/2023	Sunny	15:05	2.80		1.40	28.20	28.20	28.2	8.12	8.12	8.1	28.16	28.16	28.2	72.60	1.80	6.75	6.68	6.7	3.45	3.45	3.5	2.10	2.
	9/6/2023	Sunnv	16:45	2.80		1.40	28.10	28.10	28.1	7.99	7.99	8.0	25.75	25.75	25.8	78.40	7.90 78.2	6.16	6.09	6.1	4.25	4.25	4.3	2.40	- 2.
	9/0/2023	Sunny	16:50	2.80		1.40	28.10	28.10	20.1	7.99	7.99	0.0	25.75	25.75	23.0	78.40	7.90	6.16	6.09	0.1	4.25	4.25	4.3	2.10	2.
	12/6/2023	Sunny	8:15	2.80		1.40	28.10	28.10	28.1	7.93	7.93	7.9	28.44	28.44	28.4	73.70	2.70 73.2	6.20	6.05	6.1	3.52	3.52	3.5	3.20	3
	12/0/2025	Gunny	8:20	2.80		1.40	28.10	28.10	20.1	7.93	7.93	1.5	28.44	28.44	20.4	73.70	2.70	6.20	6.05	0.1	3.52	3.52	0.0	2.80	5
W7	14/6/2023	Rainny	10:15	2.90		1.45	26.40	26.40	26.4	7.81	7.81	7.8	27.07	27.07	27.1		3.70 74.0	6.70		6.7	5.81	5.81	5.8	7.20	
Silvermine Bay	110/2020	rtainiy	10:20	2.90	Middle	1.45	26.40	26.40	20.1	7.81	7.81	1.0	27.07	27.07	2	74.20	3.70	6.70	6.60	0.1	5.81	5.81	0.0	6.80	
(Open Water)	19/6/2023	Sunny	13:30	2.90	middio	1.45	28.70	28.70	28.7	7.72	7.72	7.7	26.02	26.02	26.0		2.50 72.9	6.16		6.1	5.81	5.80	5.8	2.00	
		,	13:35	2.90		1.45	28.70	28.70		7.72	7.72		26.02	26.02			2.50	6.16			5.81	5.80	0.0	2.00	
	21/6/2023	Sunny	14:30	2.80		1.40	29.50	29.50	29.5	8.22	8.22	8.2	26.69	26.69	26.7		2.60 73.1	6.09		6.0	4.15	4.14	4.1	4.20	4
			14:35	2.80		1.40	29.50	29.50		8.22	8.22	-	26.69	26.69	-		2.60	6.09			4.15	4.14		3.80	_
	23/6/2023	Cloudy	16:00	2.80		1.40	27.40	27.40	27.4	8.19	8.19	8.2	26.69	26.69	26.7		6.30 77.0	6.28		6.3	4.12	4.12	4.1	4.10	4.
		-	16:05	2.80		1.40	27.40	27.40		8.19	8.19		26.69	26.69			6.30	6.28	-		4.12	4.12		3.90	-
	26/6/2023	Sunny	17:45	2.80		1.40	29.20	29.20	29.2	8.48	8.48	8.5	24.25	24.25 24.25	24.3		9.00 79.4	6.06	5.99 5.99	6.0	3.14	3.14	3.1	4.20	- 4
			17:50	2.80		1.40	29.20	29.20		8.48	8.48		24.25				9.00	6.06			3.14	3.14		3.80	
	28/6/2023	Cloudy	8:30 8:35	2.80	-	1.40	27.40 27.40	27.40 27.40	27.4	8.47 8.47	8.47 8.47	8.5	24.63 24.63	24.63 24.63	24.6		80.50 80.9	6.17	6.08 6.08	6.1	1.82	1.82 1.82	1.8	3.20	- 3.
			8:35	2.80	-	1.40	27.40	27.40		-	8.47		24.63	24.63			5.80 TO 10	6.60	6.08		3.59	3.59		4.50	
	30/6/2023	Rainny	10:15	2.90		1.45	28.50	28.50	28.5	8.57 8.57	8.57	8.6	26.11	26.11	26.1		5.80 76.0	6.60		6.6	3.59	3.59	3.6	4.50	
Demedia	WQM for 16 Jun	o waa awaaad				1.45	20.00	20.00		0.57	0.57		20.11	20.11		70.20	0.00	0.00	0.50	1	3.59	3.59		4.60	1

Water Quality Monitoring at Station W7 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Sampling	T	emperatur	е		pН			Salinity	1	DO	Saturatio	n		DO			Turbidity	1	S	S
Station Reference	Date	Weather	Time	Depth	Depth	Depth		°C			-			ppt			%		n	ng/L			NTU		mg	J/L
	Dute		Time	m	Dopui	m	Val	ue	Average	Valu	ie	Average	Va	lue	Average	Value	е	Average	Value	A	verage	Valu	Je	Average	Value	Average
	2/6/2023	Sunnv	18:15	3.10		1.55	29.10	29.10	29.1	8.12	8.12	8.1	29.90	29.90	29.9	75.20	74.00	74.6	6.00	5.91	60	3.37	3.37	3.4	2.10	2.2
	2/0/2023	Sunny	18:20	3.10		1.55	29.10	29.10	23.1	8.12	8.12	0.1	29.90	29.90	23.5	75.20	74.00	74.0	6.00	5.91	0.0	3.37	3.37	3.4	2.30	2.2
	5/6/2023	Sunnv	18:45	3.20		1.60	28.50	28.50	28.5	8.27	8.27	8.3	29.95	29.95	30.0	71.70	70.70	71.2	6.14	6.00	6.1	4.81	4.81	4.8	4.40	4.6
	3/0/2023	Gaility	18:50	3.20		1.60	28.50	28.50	20.0	8.27	8.27	0.5	29.95	29.95	50.0	71.70	70.70	71.2	6.14	6.00	0.1	4.81	4.81	4.0	4.80	4.0
	7/6/2023	Sunnv	7:45	3.30		1.65	26.80	26.80	26.8	8.22	8.22	8.2	27.78	27.78	27.8	76.80	75.50	76.2	6.30	6.18	6.2	2.37	2.37	24	2.00	2.0
	1/0/2023	Sunny	7:50	3.30		1.65	26.80	26.80	20.0	8.22	8.22	0.2	27.78	27.78	21.0	76.80	75.50	70.2	6.30	6.18	0.2	2.37	2.37	2.4	2.00	2.0
	9/6/2023	Sunny	9:45	3.20		1.60	26.70	26.70	26.7	7.93	7.93	79	28.23	28.23	28.2	79.80	78.80	79.3	6.21	6.14	6.2	3.02	3.02	3.0	2.00	2.0
	3/0/2023	Guility	9:50	3.20		1.60	26.70	26.70	20.7	7.93	7.93	1.5	28.23	28.23	20.2	79.80	78.80	13.5	6.21	6.14	0.2	3.02	3.02	5.0	2.00	2.0
	12/6/2023	Suppy	13:45	3.10		1.55	28.80	28.80	28.8	8.26	8.26	8.3	28.76	28.76	28.8	74.00	73.30	73.7	6.11	6.09	6.1	3.90	3.90	3.9	5.90	6.1
	12/0/2023	Sunny	13:50	3.10		1.55	28.80	28.80	20.0	8.26	8.26	0.5	28.76	28.76	20.0	74.00	73.30	73.7	6.11	6.09	0.1	3.90	3.90	0.0	6.30	0.1
W7	14/6/2023	Rainny	16:30	3.10		1.55	26.70	26.70	26.7	7.94	7.94	79	16.38	16.38	16.4	74.80	74.40	74.6	6.22	6.15	6.2	10.98	10.98	11.0	9.10	9.3
Silvermine Bav	14/0/2023	Rainiy	16:35	3.10	Middle	1.55	5 26.70 26.70	20.7	7.94	7.94	1.5	16.38	16.38	3	74.80	74.40	74.0	6.22	6.15	0.2	10.98	10.98	11.0	9.50	5.5	
(Open Water)	19/6/2023	Sunny	18:45	3.10		1.55	26.50	26.50	26.5	7.88	7.88	79	22.93	22.93	22.9	78.60	77.40	78.0	6.12	6.06	61	7.87	7.87	79	12.40	12.6
	10/0/2020	Gainty	18:50	3.10		1.55	26.50	26.50	20.0	7.88	7.88	1.0	22.93	22.93	22.0	78.60	77.40	10.0	6.12	6.06	0.1	7.87	7.87	1.0	12.80	12.0
	21/6/2023	Sunny	8:15	3.30		1.65	26.70	26.70	26.7	7.97	7.97	8.0	27.47	27.47	27.5	78.70	78.00	78.4	6.14	6.09	6.1	5.41	5.41	54	2.70	2.7
	2110/2020	Ganny	8:20	3.30		1.65	26.70	26.70	20.7	7.97	7.97	0.0	27.47	27.47	27.0	78.70	78.00	70.1	6.14	6.09	0.1	5.41	5.41	0.1	2.60	2
	23/6/2023	Sunny	7:45	3.20		1.60	26.60	26.60	26.6	8.03	8.03	8.0	27.03	27.03	27.0	71.70	71.20	71.5	6.16	6.03	6.1	2.39	2.39	2.4	2.30	2.3
	20/0/2020	Gainty	7:50	3.20		1.60	26.60	26.60	20.0	8.03	8.03	0.0	27.03	27.03	27.0	71.70	71.20	11.0	6.16	6.03	0.1	2.39	2.39	2	2.20	2.0
	26/6/2023	Sunny	11:15	3.20		1.60	29.30	29.30	29.3	7.88	7.88	7.9	26.09	26.09	26.1	75.10	74.70	74.9	6.46	6.27	6.4	2.20	2.20	2.2	3.40	3.6
			11:20	3.20		1.60	29.30	29.30		7.88	7.88		26.09	26.09		75.10	74.70		6.46	6.27	••••	2.20	2.20		3.80	
	28/6/2023	Cloudy	14:30	3.20		1.60	26.70	26.70	26.7	8.61	8.61	8.6	25.32	25.32	25.3	81.10	80.20	80.7	6.26	6.18	6.2	2.37	2.37	2.4	3.20	3.5
	20.0.2020	2.544)	14:35	3.20		1.60	26.70	26.70	20.7	8.61	8.61	8.61	25.32	25.32	20.0	81.10	80.20	00.1	6.26	6.18	0.2	2.37	2.37	2	3.70	0.0
	30/6/2023	Sunny	17:00	3.20		1.60	29.80	29.80	29.8	8.69	8.69	8.7	24.12	24.12	24.1	88.80	87.80	88.3	6.80	6.76	6.8	3.99	3.99	4.0	4.80	4.6
		22.009	17:05	3.20		1.60	29.80	29.80	20.0	8.69	8.69	0.1	24.12	24.12		88.80	87.80	00.0	6.80	6.76	0.0	3.99	3.99		4.40	

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

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Water Quality Monitoring at Station W8 (Surface) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Т	emperatur °o	e		pН			Salinity		DC	Saturatio	on		DO			Turbidity			SS
Station Reference	Date	weather	Time		Level			°C			-			ppt			%			mg/L			NTU			ig/L
				m		m	Val		Average	Valu	-	Average	Valu		Average	Valu		Average	Valu		Average	Valu		Average	Value	Aver
	2/6/2023	Sunny	11:45	3.90		1.00	28.20	28.20	28.2	8.06	8.06	8.1	29.85	29.85	29.9	72.10	71.30	71.7	6.18	6.02	6.1	3.77	3.77	3.8	2.00	2
			11:50	3.90		1.00	28.20	28.20		8.06	8.06		29.85	29.85		72.10	71.30		6.18	6.02		3.77	3.77		2.00	
	5/6/2023	Sunny	14:00	3.80		1.00	28.30	28.30	28.3	8.32 8.32	8.32	8.3	30.12	30.12	30.1	71.30	70.30	70.8	6.19	5.99	6.1	3.66 3.66	3.66	3.7	3.10	
			14:00 15:15	3.80 3.80		1.00	28.30 28.10	28.30 28.10		8.32	8.32 8.20		30.12 28.10	30.12 28.10		71.30	70.30 72.60		6.19 6.61	5.99 6.57		2.41	3.66 2.41		3.30	
	7/6/2023	Sunny	15:20	3.80		1.00	28.10	28.10	28.1	8.20	8.20	8.2	28.10	28.10	28.1	73.60	72.60	73.1	6.61	6.57	6.6	2.41	2.41	2.4	2.00	
			17:00	3.80		1.00	27.90	27.90		8.13	8.13		25.49	25.49		79.90	78.50		6.25	6.13		3.89	3.89		3.20	-
	9/6/2023	Sunny	17:05	3.80		1.00	27.90	27.90	27.9	8.13	8.13	8.1	25.49	25.49	25.5	79.90	78.50	79.2	6.25	6.13	6.2	3.89	3.89	3.9	3.10	
			8:30	3.80		1.00	27.90	27.90		8 10	8.10		28.43	28.43		80.30	79.70		6.05	5.99		3.35	3.35		2.38	
	12/6/2023	Sunny	8:35	3.80		1.00	27.90	27.90	27.9	8.10	8.10	8.1	28.43	28.43	28.4	80.30	79.70	80.0	6.05	5.99	6.0	3.35	3.35	3.4	3.00	
			10:30	3.90		1.00		26.40 26.40		7.93	7.93		24.23	24.23		74.70	74.20		6.26	6.14		6.96	6.96		7.50	
W8	14/6/2023	Rainny	10:35	3.90		1.00	26.40	26.40	26.4	7.93	7.93	7.9	24.23	24.23	24.2	74.70	74.20	74.5	6.26	6.14	6.2	6.96	6.96	7.0	7.80	
Silvermine Bay (Open Water)	10/0/0000		13:45	3.90	Surface		28.10		7.91	7.91		26.30	26.30		74.80	73.80		6.00	5.95		3.51	3.51		2.30		
(Open water)	19/6/2023	Sunny	13:50	3.90		1.00	28.10	28.10	28.1	7.91	7.91	7.9	26.30	26.30	26.3	74.80	73.80	74.3	6.00	5.95	6.0	3.51	3.51	3.5	2.60	
	04/0/0000	0	14:45	3.80		1.00	29.40	29.40	29.4	8.33	8.33	0.0	26.58	26.58	26.6	70.80	70.10	70.5	6.13	6.04	0.4	3.99	3.98	4.0	4.20	
	21/6/2023	Sunny	14:50	3.80		1.00	29.40	29.40	29.4	8.33	8.33	8.3	26.58	26.58	20.0	70.80	70.10	70.5	6.13	6.04	6.1	3.99	3.98	4.0	4.50	
	23/6/2023	Cloudy	16:15	3.80		1.00	27.40	27.40	27.4	8.30	8.30	8.3	26.92	26.92	26.9	80.80	79.30	80.1	6.15	6.06	6.1	2.96	2.96	3.0	3.50	
	23/0/2023	Cloudy	16:20	3.80		1.00	27.40	27.40	27.4	8.30	8.30	0.5	26.92	26.92	20.9	80.80	79.30	00.1	6.15	6.06	0.1	2.96	2.96	3.0	3.20	
	26/6/2023	Sunny	18:00	3.80		1.00	29.10	29.10	29.1	8.49	8.49	8.5	23.95	23.95	24.0	83.30	82.30	82.8	6.18	6.13	6.2	2.41	2.41	2.4	3.70	
	20/0/2023	Ganny	18:05	3.80		1.00	29.10	29.10	23.1	8.49	8.49	0.5	23.95	23.95	24.0	83.30	82.30	02.0	6.18	6.13	0.2	2.41	2.41	2.4	4.00	
	28/6/2023	Cloudy	8:45	3.80		1.00	27.60	27.60	27.6	8.51	8.51	8.5	24.77	24.77	24.8	82.50	81.40	82.0	6.29	6.23	6.3	1.12	1.11	1.1	2.00	-
	20.0.2020	2.5449	8:50	3.80		1.00	27.60	27.60	0	8.51	8.51	2.0	24.77	24.77	20	82.50	81.40		6.29	6.23	2.0	1.12	1.11		2.00	
	30/6/2023	Rainny	10:30	3.90		1.00	28.50	28.50	28.5	8.62	8.62	8.6	24.51	24.66	24.6	80.04	79.70	79.9	6.60	6.51	6.6	3.01	3.00	3.0	3.90	
Remarks:	55.5.E0E0		10:35	3.90		1.00	28.50	28.50	_5.0	8.62	8.62	2.0	24.51	24.66		80.04	79.70		6.60	6.51	2.0	3.01	3.00	2.0	4.00	1

Water Quality Monitoring at Station W8 (Surface) - Flood Tide

	0		0	Water	0	Sampling	Te	mperature	е		pН			Salinity		DC	O Saturation	on		DO			Turbidity		S	S
Station Reference	Sampling Date	Weather	Sampling Time	Depth	Sampling Depth	Depth		°C			-			ppt			%			mg/L			NTU		mg	g/L
	Date		TITLE	m	Deptil	m	Valu	ie	Average	Valu	е	Average	Val	ue	Average	Valu	ue	Average	Val	ue /	Average	Val	ue	Average	Value	Average
	2/6/2023	Sunnv	18:30	4.10		1.00	29.00	29.00	29.0	8.17	8.17	8.2	29.93	29.93	29.9	79.80	79.10	79.5	6.01	5.92	6.0	2.06	2.06	21	2.00	2.0
	2/0/2023	Sunny	18:35	4.10		1.00	29.00	29.00	29.0	8.17	8.17	0.2	29.93	29.93	29.9	79.80	79.10	79.5	6.01	5.92	0.0	2.06	2.06	2.1	2.00	2.0
	5/6/2023	Sunnv	19:00	4.20		1.00	28.40	28.40	28.4	8.37	8.37	8.4	29.90	29.90	29.9	73.00	72.10	72.6	6.21	6.08	6.1	4.82	4.82	4.9	5.40	5.3
	3/0/2023	Sunny	19:05	4.20		1.00	28.40	28.40	20.4	8.37	8.37	0.4	29.90	29.90	23.5	73.00	72.10	72.0	6.21	6.08	0.1	4.82	4.82	4.0	5.20	5.5
	7/6/2023	Sunnv	8:00	4.30		1.00	26.70	26.70	26.7	8.26	8.26	8.3	28.94	28.94	28.9	73.00	72.50	72.8	6.18	6.10	6.1	2.19	2.19	2.2	2.00	2.0
	1/0/2023	Sunny	8:05	4.30		1.00	26.70	26.70	20.7	8.26	8.26	0.3	28.94	28.94	20.9	73.00	72.50	12.0	6.18	6.10	0.1	2.19	2.19	2.2	2.00	2.0
	9/6/2023	Sunnv	10:00	4.20		1.00	26.90	26.90	26.9	8.05	8.05	8.1	27.97	27.97	28.0	75.60	74.80	75.2	6.23	6.12	6.0	2.80	2.80	2.0	2.20	2.3
	9/0/2023	Sunny	10:05	4.20		1.00	26.90	26.90	20.9	8.05	8.05	0.1	27.97	27.97	20.0	75.60	74.80	75.2	6.23	6.12	0.2	2.80	2.80	2.0	2.30	2.3
	12/6/2023	Sunnv	14:00	4.10		1.00	28.90	28.90	28.9	8.35	8.35	8.4	28.77	28.77	28.8	74.40	73.40	73.9	6.22	6.02	6.1	3.92	3.92	2.0	3.60	3.4
	12/0/2023	Sunny	14:05	4.10		1.00	28.90	28.90	20.9	28.9 8.35	8.35	0.4	28.77	28.77	20.0	74.40	73.40	73.9	6.22	6.02	0.1	3.92	3.92	3.9	3.20	3.4
	14/6/2023	Rainny	16:45	4.10		1.00	26.70	26.70	26.7	8.09	8.09	0.1	14.15	14.15	14.2	74.60	74.10	74.4	6.35	6.28	6.3	12.47	12.47	12.5	8.10	8.0
W8	14/0/2023	Raininy	16:50	4.10	0	1.00	26.70	26.70	20.7	8.09	8.09	0.1	14.15	14.15	5	74.60	74.10	74.4	6.35	6.28	0.3	12.47	12.47	12.5	7.80	0.0
Silvermine Bay (Open Water)	19/6/2023	Sunnv	19:00	4.10	Surface	1.00	26.40	26.40	26.4	7.98	7.98	8.0	19.39	19.39	10.4	72.90	72.00	72.5	6.10	6.00	6.1	7.65	7.65	77	11.10	11.4
(Open Water)	19/0/2023	Sunny	19:05	4.10		1.00	26.40	26.40	20.4	7.98	7.98	0.0	19.39	19.39		72.90	72.00	72.5	6.10	6.00	0.1	7.65	7.65	1.1	11.60	11.4
	21/6/2023	Sunnv	8:30	4.30		1.00	26.50	26.50	26.5	8.05	8.05	8.1	27.21	27.21	27.2	77.80	76.70	77.3	6.61	6.53		5.32	5.32	5.0	2.80	2.6
	21/0/2023	Sunny	8:35	4.30		1.00	26.50	26.50	20.5	8.05	8.05	0.1	27.21	27.21	21.2	77.80	76.70	11.5	6.61	6.53	6.6	5.32	5.32	5.3	2.40	2.0
	23/6/2023	Sunnv	8:00	4.20		1.00	26.50	26.50	26.5	8.19	8.19	8.2	26.40	26.40	26.4	72.90	72.40	72.7	6.20	6.15	6.2	2.13	2.13	2.1	2.10	2.2
	23/0/2023	Sunny	8:05	4.20		1.00	26.50	26.50	20.5	8.19	8.19	0.2	26.40	26.40	20.4	72.90	72.40	12.1	6.20	6.15	0.2	2.13	2.13	2.1	2.20	2.2
	26/6/2023	Sunnv	11:30	4.20		1.00	28.70	28.70	28.7	8.04	8.04	8.0	26.11	26.11	26.1	76.70	76.10	76.4	6.36	6.26	6.2	2.32	2.32	2.2	4.90	4.8
	20/0/2023	Sunny	11:35	4.20		1.00	28.70	28.70	20.7	8.04	8.04	0.0	26.11	26.11	20.1	76.70	76.10	70.4	6.36	6.26	0.3	2.32	2.32	2.3	4.60	4.0
	28/6/2023	Cloudy	14:45	4.20		1.00	26.40	26.40	26.4	8.66	8.66	8.7	25.17	25.17	25.2	76.10	75.50	75.8	6.26	6.18	6.2	1.47	1.47	1.5	4.00	4.1
	20/0/2023	Cioudy	14:50	4.20		1.00	26.40	26.40	26.4	8.66	8.66	8.7	25.17	25.17	25.2	76.10	75.50	/5.8	6.26	6.18	6.2	1.47	1.47	1.5	4.20	4.1
	30/6/2023	0	17:15	4.20	1	1.00	29.80	29.80	00.0	8.76	8.76	0.0	22.97	22.97	00.0	86.30	85.70	00.0	6.39	6.31	0.4	3.94	3.94	0.0	4.20	4.5
	30/6/2023	Sunny	17:20	4.20	1	1.00	29.80	29.80	29.8	8.76	8.76	8.8	22.97	22.97	23.0	86.30	85.70	86.0	6.39	6.31	6.4	3.94	3.94	3.9	4.80	4.5

Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.

m	Lam Environmental Services
	Water Quality Manitaring Rea

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Water Quality Monitoring at Station W8 (Bottom) - Ebb Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling	Sampling Depth	Te	emperature °C	e		pH -			Salinity			turation			0	_	Turbidity NTU			SS na/L
Station Reference	Date	weather	Time	m	Level	m	Valu		Average	Valu		Average	Val	ppt	Average	Value	%	verage	m Value	g/∟ Avera		lue	Average	Value	Avera
			11:55	3.90		2.90	27.90	27.90		8.11	e 8.11	Average	29.95	29.95			77.90	verage	6.15	5.97 of	3.68	3.68	Average	2.00	
	2/6/2023	Sunny	12:00	3.90		2.90	27.90	27.90	27.9	8.11	8.11	8.1	29.95	29.95	30.0		77.90	78.3	6.15	5.97 6.1	3.68	3.68	3.7	2.00	
			14:10	3.80		2.80	28.00	28.00		8.39	8.39		30.17	30.17			77.40		6.28	6 15	3.66	3.66		3.20	1
	5/6/2023	Sunny	14:15	3.80		2.80	28.00	28.00	28.0	8.39	8.39	8.4	30.17	30.17	30.2		77.40	77.9	6.28	6.15 6.2	3.66	3.66	3.7	3.60	
			15:25	3.80		2.80	27.90	27.90		8.26	8.26		28.86	28.86			72 60		6.17	6.04	2.37	2.37		2.20	1
	7/6/2023	Sunny	15:30	3.80		2.80	27.90	27.90	27.9	8.26	8.26	8.3	28.86	28.86	28.9		73.60	74.0	6.17	6.04 6.1	2.37	2.37	24	2.40	2
	0/0/0000	0	17:10	3.80		2.80	27.80	27.80	27.8	8.14	8.14		28.38	28.38	28.4	74.40	73.60	74.0	6.09	5.99	3.87	3.87	0.0	4.40	
	9/6/2023	Sunny	17:15	3.80		2.80	27.80	27.80	27.8	8.14	8.14	8.1	28.38	28.38	28.4	74.40	73.60	74.0	6.09	5.99 6.0	3.87	3.87	3.9	4.80	4.
	12/6/2023	Sunny	8:40	3.80		2.80	27.80	27.80	27.8	8.15	8.15	8.2	28.67	28.67	28.7	74.00	73.20	73.6	6.20	6.09 6.1	3.27	3.27	3.3	3.40	3.
	12/6/2023 S	Sunny	8:45	3.80		2.80	27.80	27.80	21.0	8.15	8.15	0.2	28.67	28.67	20.7	74.00	73.20	73.0	6.20	6.09	3.27	3.27	3.3	3.80	. 3.
W8	14/6/2023	Poinny	10:40	3.90		2.90	26.30	26.30	26.3	7.96	7.96	8.0	25.75	25.75	25.8	76.50	75.30	75.9	6.18	6.10 6.1	6.01	6.01	6.0	8.00	8.
Silvermine Bav	14/0/2023	Rainny	10:45	3.90	Bottom	2.90	26.30	26.30	20.5	7.96	7.96	0.0	25.75	25.75	23.0	76.50	75.30	13.5	6.18	6.10	6.01	6.01	0.0	8.40	. 0.
(Open Water)	19/6/2023	Sunny	13:55	3.90	Dottom	2.90	28.20	28.20	28.2	7.96	7.95	8.0	20.75	20.75	20.8		75.30	75.6	6.18	6.12 6.2	4.95	4.94	4.9	2.00	
	10/0/2020	ounny	14:00	3.90		2.90	28.20	28.20	LUIL	7.96	7.95	0.0	20.75	20.75	20.0		75.30	10.0	6.18	6.12	4.95	4.94		2.00)
	21/6/2023	Sunny	14:55	3.80		2.80	29.20	29.20	29.2	8.36	8.36	8.4	27.38	27.38	27.4		87.70	88.1	6.24	6.15 6.2	3.89	3.89	3.9	4.70	- 4.
			15:00	3.80		2.80	29.20	29.20		8.36	8.36		27.38	27.38			87.70		6.24	6.15	3.89	3.89		4.30)
	23/6/2023	Cloudy	16:25	3.80		2.80	27.30	27.30	27.3	8.33	8.33	8.3	27.07	27.07	27.1		72.40	72.7	6.26	6.20 6.2	2.93	2.93		2.80	
		,	16:30	3.80		2.80	27.30	27.30		8.33	8.33		27.07	27.07			72.40		6.26	6.20	2.93	2.93		2.60	-
	26/6/2023	Sunny	18:10	3.80		2.80	28.80	28.80	28.8	8.52	8.52	8.5	24.61	24.61	24.6		84.00	84.2	6.45	6.37 6.4	2.54	2.54		4.00	
	20/0/2023		18:15	3.80		2.80	28.80	28.80		8.52	8.52		24.61	24.61			84.00		6.45	6.37	2.54	2.54		3.90	
	28/6/2023	Cloudy	8:55	3.80		2.80	27.50	27.50 27.50	27.5	8.53 8.53	8.53 8.53	8.5	25.07 25.07	25.07 25.07	25.1		82.70	83.0	6.23	6.18 6.2 6.18	1.96	1.96	2.0	3.00	
			9:00		-	2.80	27.50												6.23			1.96			-
	30/6/2023	Rainny	10:40 10:45	3.90		2.90 2.90	28.40 28.40	28.40 28.40	28.4	8.55 8.55	8.55 8.55	8.6	25.21 25.21	25.21 25.21	25.2		74.50	74.8	6.30 6.30	6.20 6.20 6.3	2.53	2.53 2.53		3.50 3.90	
Demedia	WQM for 16 Jur					2.90	26.40	28.40	I	6.55	6.55		25.21	25.21		75.00	/4.50	1	0.30	0.20	2.53	2.53	I	3.90	1

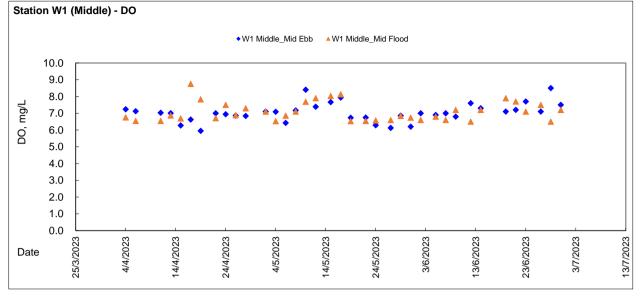
Water Quality Monitoring at Station W8 (Bottom) - Flood Tide

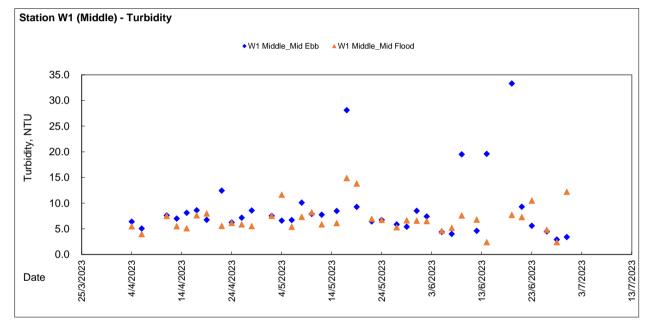
	Sampling		Sampling	Water	Sampling	Sampling	Te	emperature	Э		pН			Salinity		DC	Saturatio	n		DO			Turbidity		S	SS
Station Reference	Date	Weather	Time	Depth	Depth	Depth		°C			-			ppt			%			mg/L			NTU		m	g/L
	Duic		TIMO	m	Dopui	m	Val	ue	Average	Val	ue	Average	Val	ue	Average	Valu	ie	Average	Valu	Je	Average	Valu	le	Average	Value	Average
	2/6/2023	Sunnv	18:40	4.10		3.10	28.60	28.60	28.6	8.23	8.23	8.2	29.95	29.95	30.0	74.00	73.00	73.5	6.02	5.93	60	2.07	2.07	2.1	2.00	2.0
	2/0/2023	Sunny	18:45	4.10		3.10	28.60	28.60	20.0	8.23	8.23	0.2	29.95	29.95	30.0	74.00	73.00	73.5	6.02	5.93	0.0	2.07	2.07	2.1	2.00	2.
	5/6/2023	Sunny	19:10	4.20		3.20	28.40	28.40	28.4	8.40	8.40	84	29.88	29.88	29.9	72.80	72.20	72.5	6.25	6.09	62	4.93	4.93	49	5.50	5.
	0/0/2020	ounny	19:15	4.20		3.20	28.40	28.40	20.1	8.40	8.40	0.1	29.88	29.88	20.0	72.80	72.20	72.0	6.25	6.09	0.2	4.93	4.93		5.50	0.
	7/6/2023	Sunny	8:10	4.30		3.30	26.70	26.70	26.7	8.27	8.27	83	29.30	29.30	29.3	73.70	72.40	73.1	6.23	6.09	6.2	2.21	2.21	2.2	2.00	2.
	110/2020	Gainty	8:15	4.30		3.30	26.70	26.70	20.1	8.27	8.27	0.0	29.30	29.30	20.0	73.70	72.40	10.1	6.23	6.09	0.2	2.21	2.21	2.12	2.00	
	9/6/2023	Sunny	10:10	4.20		3.20	26.90	26.90	26.9	8.06	8.06	8.1	28.84	28.84	28.8	75.10	74.30	74.7	6.47	6.41	6.4	3.91	3.91	3.9	2.60	2.
			10:15	4.20		3.20	26.90	26.90		8.06	8.06		28.84	28.84		75.10	74.30		6.47	6.41		3.91	3.91		3.00	
	12/6/2023	Sunny	14:10	4.10		3.10	28.80	28.80	28.8	8.38	8.38	8.4	28.78	28.78	28.8	76.90	76.20	76.6	6.18	6.03	6.1	4.41	4.40	4.4	3.60	3.
			14:15	4.10		3.10	28.80	28.80		8.38	8.38		28.78	28.78		76.90	76.20		6.18	6.03		4.41	4.40		3.40	
W8	14/6/2023	Rainny	16:55	4.10		3.10	26.70	26.70	26.7	8.04	8.04	8.0	23.96	23.96	24.0	71.00	70.40	70.7	6.18	6.00	6.1	7.53	7.53	7.5	7.40	7.
Silvermine Bay			17:00	4.10	Bottom	3.10	26.70	26.70	-	8.04	8.04		23.96	23.96		71.00	70.40	-	6.18	6.00		7.53	7.53		7.50	i
(Open Water)	19/6/2023	Sunny	19:10	4.10		3.10	26.40	26.40	26.4	7.96	7.96	8.0	22.67	22.67	22.7	74.40	73.80	74.1	6.07	6.10	6.1	5.82	5.82	5.8	8.70	8.
		,	19:15	4.10		3.10	26.40	26.40		7.96	7.96		22.67	22.67		74.40	73.80		6.07	6.10		5.82	5.82		8.20	
	21/6/2023	Sunny	8:40	4.30		3.30	26.60	26.60	26.6	8.05	8.05	8.1	27.74	27.74	27.7	77.80	76.90	77.4	6.27	6.08	6.2	4.94	4.94	4.9	2.80	2.
			8:45	4.30		3.30	26.60	26.60		8.05	8.05		27.74	27.74		77.80	76.90		6.27	6.08		4.94	4.94		3.00	
	23/6/2023	Sunny	8:10	4.20		3.20	26.60	26.60	26.6	8.24	8.24	8.2	27.01	27.01	27.0	71.40	70.50	71.0	6.26	6.18	6.2	2.41	2.41	2.4	2.40	2.
			8:15	4.20		3.20	26.60	26.60		8.24	8.24		27.01	27.01		71.40	70.50		6.26	6.18		2.41	2.41		2.60	├ ──
	26/6/2023	Sunny	11:40	4.20		3.20	28.30	28.30	28.3	8.24	8.24	8.2	26.16	26.16	26.2	78.80	77.90	78.4	6.32	6.21	6.3	2.22	2.21	2.2	3.40	3.
			11:45	4.20		3.20	28.30	28.30		8.24	8.24		26.16	26.16		78.80	77.90		6.32	6.21		2.22	2.21		3.60	├ ──
	28/6/2023	Cloudy	14:55	4.20		3.20	26.60	26.60	26.6	8.67	8.67	8.7	25.35	25.35 25.35	25.4	83.10 83.10	82.10 82.10	82.6	6.22	6.17 6.17	6.2	2.33	2.33	2.3	3.20	3.
	L		15:00 17:25	4.20		3.20 3.20	26.60 29.50	26.60		8.67 8.70	8.67 8.70		25.35 24.80			83.10 85.60			6.22				2.33		2.90	<u> </u>
	30/6/2023	Sunny	17:25	4.20		3.20	29.50	29.50 29.50	29.5	8.70	8.70	8.7	24.80	24.80 24.80	24.8	85.60	85.10 85.10	85.4	6.32	6.26 6.26	6.3	2.96 2.96	2.96	3.0	5.00 4.40	4.
		o was suspend		-		3.20	29.50	29.50		8.70	8.70		24.80	24.80	1 1	05.60	05.10		6.32	0.20		2.96	2.96	I	4.40	1

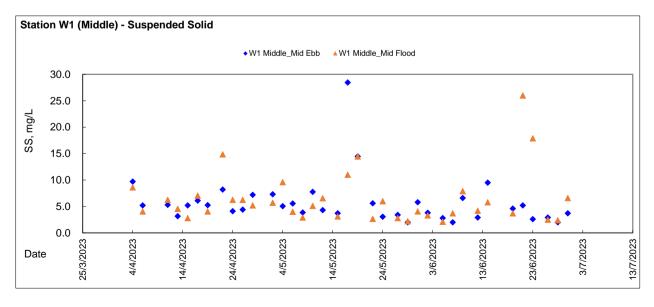
Remarks: WQM for 16 June was suspended due to Thunderstorm Warning.



Graphic Presentation of WQM Result

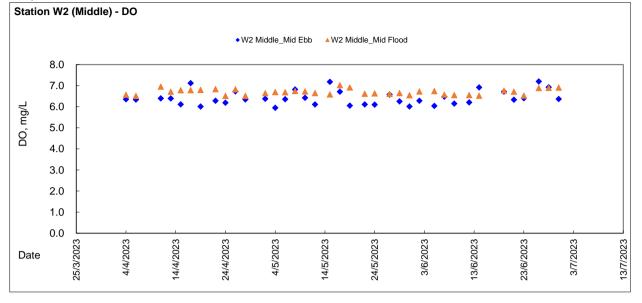


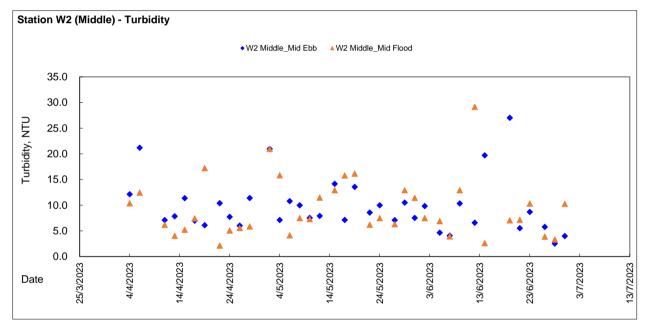


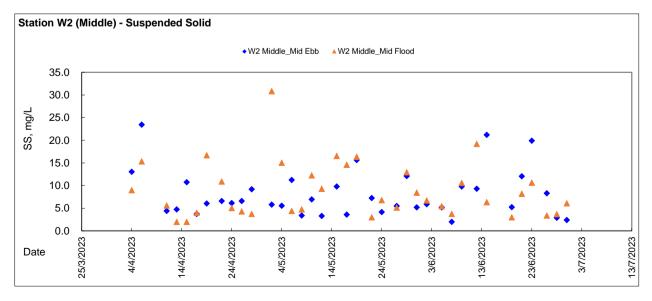




Graphic Presentation of WQM Result

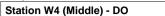


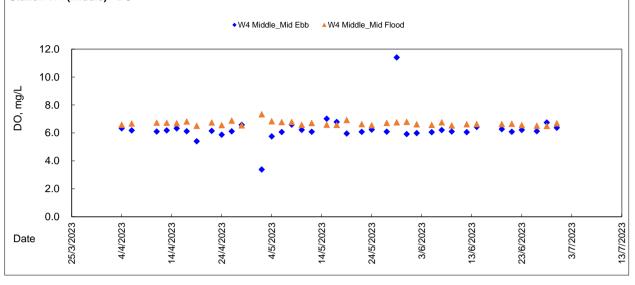


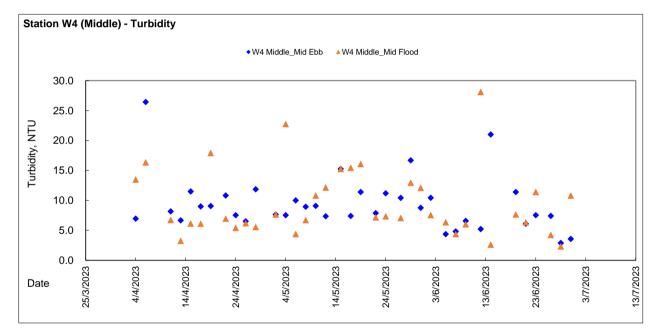


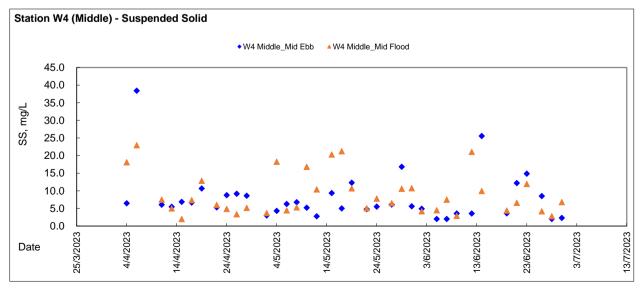


Graphic Presentation of WQM Result

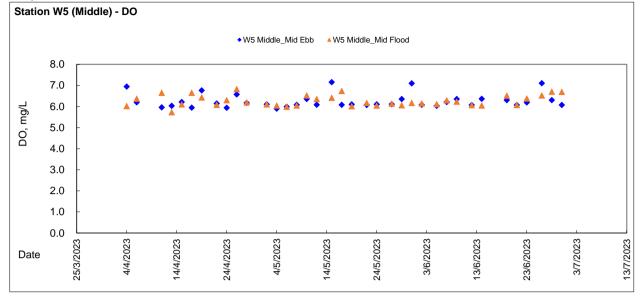


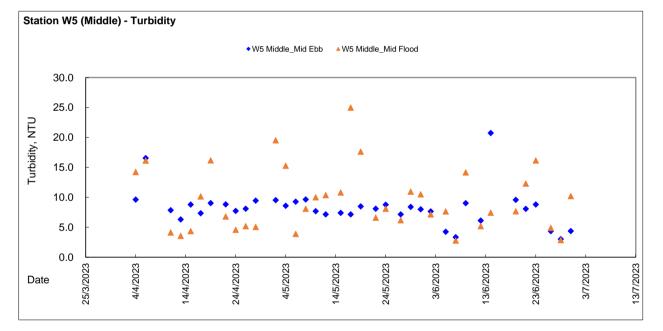


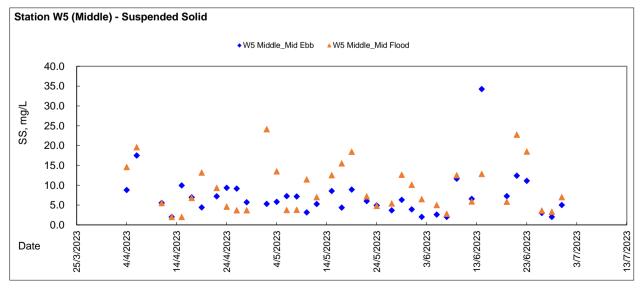




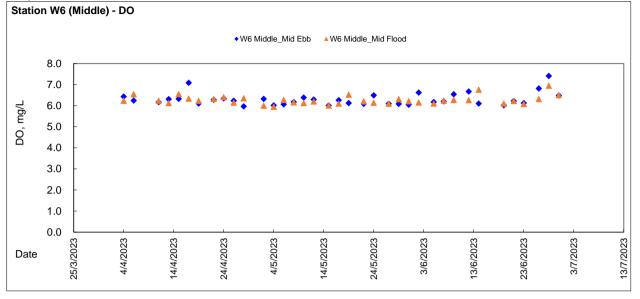


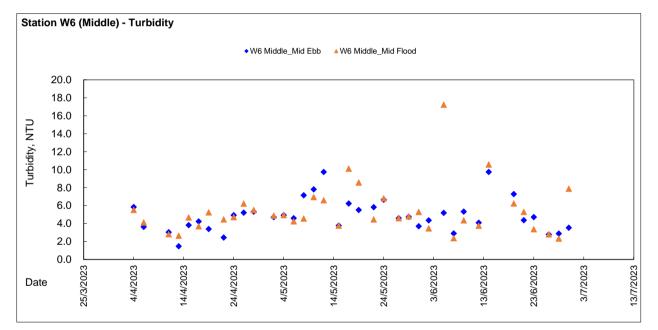


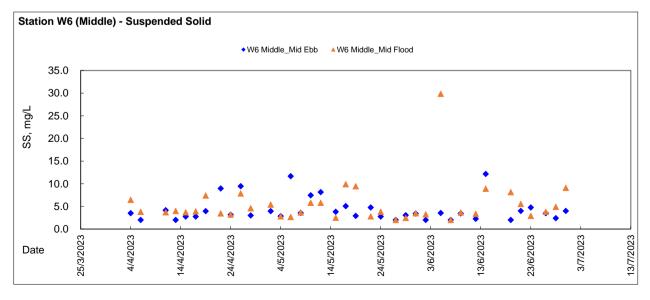




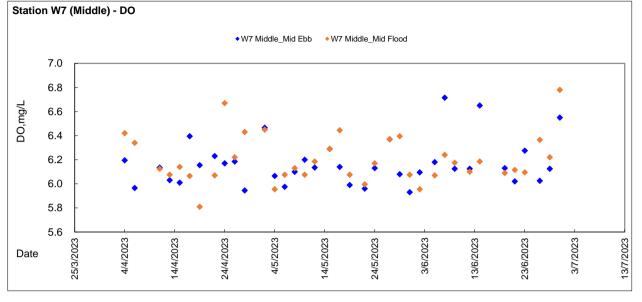


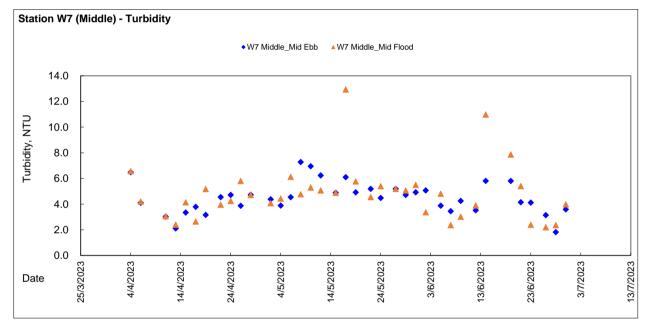


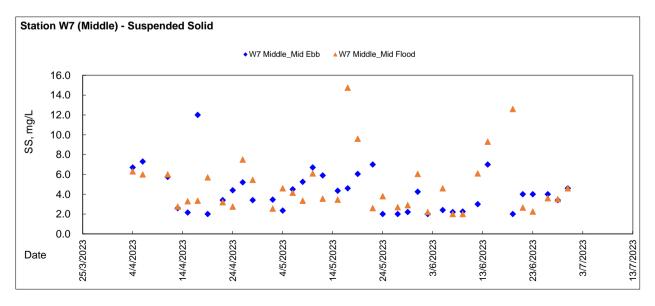




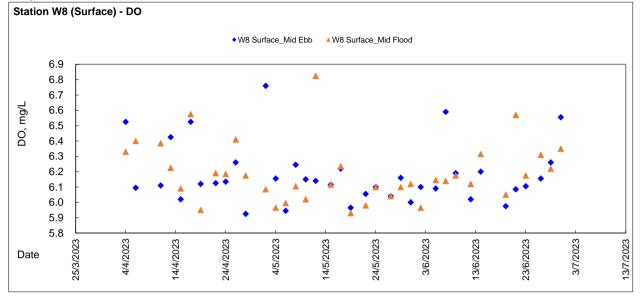


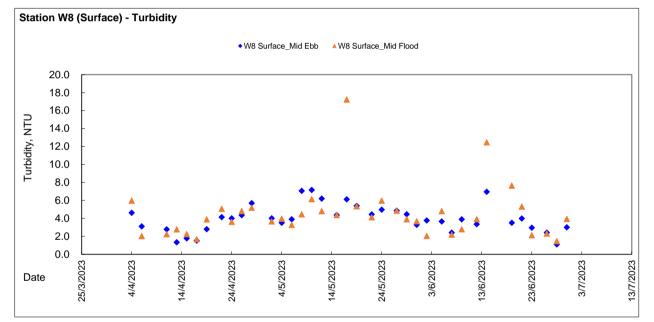


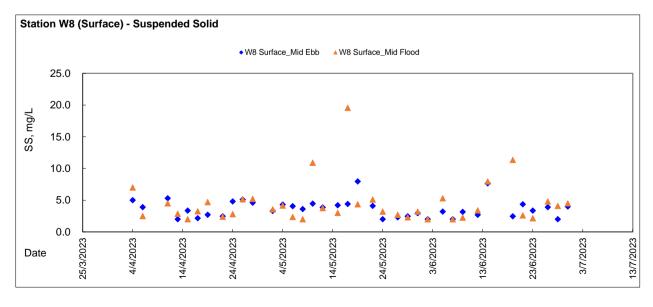




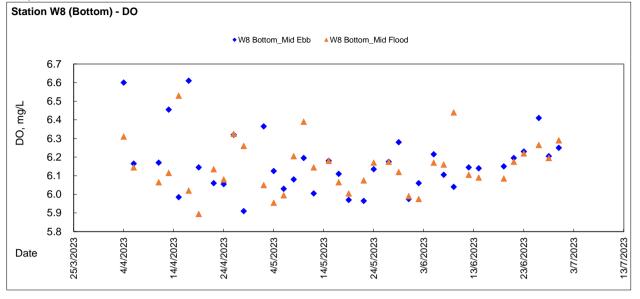


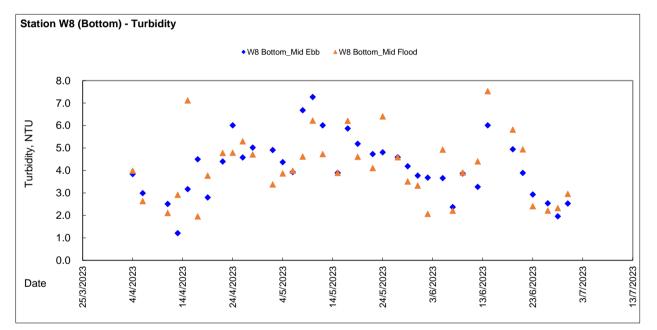


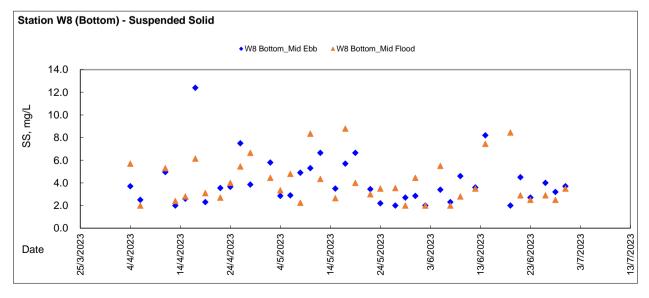














Appendix 5.5

Monthly Summary Waste Flow Table

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

Contract No.: <u>HY/2019/14</u>

(Notes: The following Waste Flow Table should be used for contracts either not included under the Pay for Safety and Environment Scheme or exempted from the full requirement for environmental management)

		Actual Quan	tities of Inert	C&D Materia	Actual Quantities of C&D Wastes Generated							
Monthly ending	Total Quantity Generated	Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000m ³)	
Jan	0	0	0	0	0	0	0	0	0	0	0	
Feb	Feb 0 0 0			0	0	0	0	0	0	0	0	
Mar	ar 0.01 0 0		0	0	0.01	0	0	0	0	0	0 0	
Apr	0.01	0 0	0	0	0.01	0 0	0 0	0	0			
May	0.019	0	0	0	0.019	0	0	0	0	0	0.015	
Jun	0	0	0 0		0	0	0	0	0	0	0	
Sub Total	0.039	0	0	0	0.039	0	0	0	0	0	0.015	
Jul	0.009	0	0	0	0.009	0	0	0	0	0	0	
Aug	0.056	0	0	0	0.056	0	0	0	0	0	0.0672	
Sept	0.25	0	0	0	0.25	0	0	0	0	0	0	
Oct	0.022	0	0	0	0.022	0	0	0	0	0	0	
Nov	0.004	0	0	0	0.004	0	0	0	0	0	0.0111	
Dec	0.013	0	0	0	0.013	0	0	0	0	0	0.0114	
Total	0.393	0	0	0	0.393	0	0	0	0	0	0.1047	

Monthly Summary Waste Flow Table for 2022

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

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

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

Contract No.: <u>HY/2019/14</u>

(Notes: The following Waste Flow Table should be used for contracts either not included under the Pay for Safety and Environment Scheme or exempted from the full requirement for environmental management)

		Actual Quan	tities of Inert	C&D Materia	lls Generated		A	Actual Quantities of C&D Wastes Generated				
Monthly ending	Total Quantity Generated	Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000m ³)	
Jan	0	0	0	0	0	0	0	0	0	0	0	
Feb	Feb 0 0 0				0	0	0	0	0	0	0	
Mar	0 0 0		0	0	0	0	0	0	0	0	0.0183	
Apr	0	0	0	0	0	0	0	0	0	0	0.0134	
May	0	0	0	0	0.008	0	0	0	0	0	0.0125	
Jun	0	0	0	0	0	0	0	0	0	0	0	
Sub Total	Sub Total 0.401 0 0		0	0	0.401	0	0	0	0	0	0.1489	
Jul	Jul											
Aug												
Sept												
Oct												
Nov												
Dec												
Total	0.401	0	0	0	0.401	0	0	0	0	0	0.1489	

Monthly Summary Waste Flow Table for 2023

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

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.



Appendix 6.1

Event Action Plans

Event and Action Plan for Construction Air Quality

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

Event and Action Plan for Construction Air Quality

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

Event and Action Plan for Construction Noise

EVENT			ACTION	
	ET	IEC	ER	CONTRACTOR
Action Level	 Notify IEC, ER and Contractor of exceedance; Identify source Investigate the causes of exceedance and propose remedial measures; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC, ER and Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to ER with copy to ET and IEC; Implement noise mitigation proposals.
Limit Level	 Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented; If exceedance continues, investigate what portion of the work is responsible and instruct the Contractor to terminate that portion of work until the exceedance ceases. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Terminate the relevant portion of works as determined by the ER until the exceedance ceases.

Event and Action Plan for Water Quality

EVENT		А	CTION	
EVENI	ET Leader	IEC	ER	Contractor
ACTION LEVEL				
Action level being exceeded by one sampling day	 Repeat in situ measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods. 	1. Check monitoring data submitted by ET and Contractor's working methods.	 Confirm receipt of notification of non-compliance in writing; Notify Contractor. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Supervise the implementation of mitigation measures. 	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures.

Event and Action Plan for Water Quality

EVENT			ACTION	
EVENT	ET Leader	IEC	ER	Contractor
LIMIT LEVEL				
Limit level being exceeded by one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to review the working methods. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER.
Limit level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of mitigation measures. 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	 Take immediate action to avoid further exceedance; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Parameter	Value	Unit	Level exceeded	Follow-up action	
X_W084	12/6/2023	Mid-flood	W2 Middle	Turb	29.2	NTU	Limit: 12.4 NTU (99%-tile)	Cause of Exceedance:	Turb and SS exceedances was related to extremely low water level during mid-flood which may stir up the muddy sediment near W2 and W4; many trapped rubbish were found near W2 and W4 which may also cause the exceedances; extremely low water current flow during mid-flood which may cause the rubbish to stayed at W2 and W4; no exceedances were recorded upstream at W1 and downstream W5; no river channel blockace was observed
		Mid-flood	W2 Middle	SS	19.2	mg/L	Limit: 11.3 mg/L (99%-tile)	ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures and cofferdam condition
		Mid-flood	W4 Middle	Turb	28.1	NTU	Limit: 12.4 NTU (99%-tile)	Contractor's actions to implement the mitigation:	Construction activities were checked; Cofferdam was checked and no linkage or discharge of polluted water was observed
		Mid-flood	W4 Middle	SS	25.6	mg/L	Limit: 11.3 mg/L (99%-tile)	Action required under EAP:	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods;
								Action taken under EAP: Comments/Remarks	 Discuss mitigation measures with IEC, ER and Contractor. 3 & 4 (1 & 5 - N/A due to not related project works) Exceedance recorded in the next monitoring event
X_W085	14/6/2023	Mid-ebb	W5 Middle	SS	34.3	mg/L	Limit: 33.2 mg/L (99%-tile)	Cause of Exceedance:	SS exceedance was related to the high SS (25.6 mg/L) recorded at W4; remaining trapped rubbish found from previous monitoring near W4 were flowing to W5 may also cause the exceedance; no exceedances were recorded upstream at W1: no river channel blockace was observed
								ET's conclusions and recommendations for mitigation:	Exceedance not related to project, advised contractor to maintain on-going water mitigation measures and cofferdam condition
								Contractor's actions to implement the mitigation: Action required under EAP:	Construction activities were checked; Cofferdam was checked and no linkage or discharge of polluted water was observed 1. Repeat measurement on next day of exceedance to confirm findings;
								notion required under LAF.	Identify source(s) of impact; I
									 Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor.
								Action taken under EAP: Comments/Remarks	2, 3 & 4 (1 & 5 - N/A due to not related project works) No exceedance recorded in the next monitoring event



Appendix 8.1

Complaint Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
-	-	-	-	-		-



Appendix 9.1

Construction Programme of Individual Contracts

識別碼	Task Name	Period	Start	End	6月		7月			8月
1	Reinforced Concrete Structure MCS1	18 days	5月29日星期一	6月17日星期六	17/6					
2	Reinforced Concrete Structure - UCS1	19 days	6月6日星期二	6月28日星期三	/6	28/6				
3	Reinforced Concrete Structure - Flow Meter Chamber	14 days	6月12日星期一	6月28日星期三	12/6	28/6				
4	Reinforced Concrete Structure - MCS2	12 days	6月28日星期三	7月12日星期三	28/6		12/7	ון		
5	Reinforced Concrete Structure - MCS3	12 days	7月12日星期三	7月25日星期二		12	2/7	25/7		
6	Reinforced Concrete Structure - Slab S1, S2	8 days	7月18日星期二	7月26日星期三			18/7	26/7	7	
7	Reinforced Concrete Structure Construction RCS1 and RCS2	8 days	7月26日星期三	8月3日星期四			26/7		3/8	
8	Temporary paving cycle track floor finish (Tentative)	9 days	7月26日星期三	8月4日星期五			26/7		4/8	
9	Temporary protective cover at Cycle Bridge	13 days	7月3日星期一	7月17日星期一	3,	7	_ 17/7	r		
10	Utilities ducting installation	15 days	7月26日星期三	8月11日星期五			26/7			11,
11	Traffic Diversion from eisting footbridge to new cycle bridge	2 days	7月27日星期四	7月28日星期五			27/7	28	/7	
12	Utilities diversion (Tentative)(2 months as adviced by HKT and HKBN)	50 days	6月13日星期二	8月11日星期五	13/6					11/
13	Erect Hoarding (Stage 2)	5 days	7月18日星期二	7月22日星期六			18/7 🎽 2	22/7		
14	Erect of Temporary Working Platform for Demolition of the Existing Footbridge	12 days	7月25日星期二	8月7日星期一			25/7		7/8	Ì
15	Demolition of Existing Footbridge deck	7 days	8月12日星期六	8月19日星期六					12/8	-
16	Construction of cofferdam MP1, MP2, MP3 and existing pier	12 days	8月21日星期一	9月2日星期六						21/
17	Demolition of Pier and Abutment of the Existing Footbridge	5 days	9月4日星期一	9月8日星期五						
18	Demolition of Pile Cap of the Existing Footbridge	5 days	9月9日星期六	9月14日星期四						
19	Piling works for MP3	15 days	9月15日星期五	10月4日星期三						



