CONTRACT NO: SD 6/2020

CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

UNDER ENVIRONMENTAL PERMIT NO. EP-538/2017

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

JANUARY 2023 REVISION 3

CLIENTS:

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CERTIFIED BY:

/1/

Derek Lo

Environmental Team Leader

DATE:

13 February 2023



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Our ref:

7076811/L29501/AW/KL/TK/rw

13 February 2023

Drainage Services Department Sewage Services Branch Special Duty Division Group 3 42/F Revenue Tower 5 Gloucester Road Wan Chai, Hong Kong

By Email and Post (kschan04@dsd.gov.hk)

Attention: Mr. Silas CHAN

Dear Sir

Contract No. SD 7/2020
Independent Environmental Checker ("IEC") for Environmental Monitoring Work for South Lantau Sewerage Works
Verification of Monthly EM&A Report (January 2023)

With reference to the Monthly EM&A Report (January 2023) Revision 3 dated and certified by the ET Leader on 13 January 2023, please note that we have no adverse comments on the captioned and we hereby verify the captioned in accordance with Condition 3.4 of the Environmental Permit No. EP-538/2017.

Should you have questions please do not hesitate to contact the undersigned at tel. 3995-8140 or by email to kitty.lee@smec.com.

Yours faithfully

Lam

Kitty LEE

Independent Environmental Checker

cc Binnies - Mr. Clarence CHAK/ Mr Clayton LEI

Mr. Clarence CHAK/ Mr Clayton LEI by email Mr. Derek LO / Mr Raymond DAI by email

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EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report January 2023 for the Outlying Islands Sewerage Stage 2 – South Lantau Sewerage Works under Environmental Permit No. EP-538/2017 (Hereafter as "the Project"). The construction works of the Project was commenced on 3 November 2021 and the tentative completion date is Q1 2026. This Monthly EM&A Report presents the environmental monitoring findings and information recorded during the period of 1 to 31 January 2023. The cut-off date of reporting is at the end of each reporting month.
- ii. In the reporting period, the principal work activities undertaken are as follows:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau road, Pui O Beach
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
 - Horizontal Directional Drilling (HDD) works at marine and SSWSTW
 - Superstructure Reinforced Concrete (RC) Works

Exceedances of Action/Limit Levels

Noise Monitoring

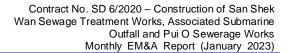
- iii. Noise monitoring was conducted at eight (8) noise monitoring stations (*N12a*, *N12b*, *N13*, *N14*, *N15b*, *N16a*, *N16b* and *N17*) once per week in the reporting period.
- iv. No school examination was taken place at N17 Bui O Public School in the reporting period.
- v. No Action/Limit Level exceedances were recorded in this reporting period.

Water Quality Monitoring

- vi. Water quality monitoring had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- vii. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

Ecological Impact Monitoring

- viii. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- ix. As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with



conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.

- x. The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- xi. The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaint log

xii. No environmental complaint regarding the construction works was recorded in the reporting period.

Notifications of Any Summons and Successful Prosecutions

xiii. No environmental notification of any 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 are listed as follows:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
 - HDD works at marine and SSWSTW
 - Site formation works
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
- xvi. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

Ke	Key Construction Works		commended Mitigation Measures
•	Excavation, sewer laying,	•	Implementation of noise pollution control in accordance
	construction of manhole at Pui O		with Construction Noise Mitigation Plan;
	Lo Uk Tsuen, South Lantau Road,	•	Dust control during dust generating works;
	Pui O Beach	•	Silt curtain should be maintained in good condition;
•	HDD works at marine and	•	Adopt surface drainage and sediment control facilities for
	SSWSTW		sewage installation in village and public roads;
•	Site formation works for POSPS	•	Adopt temporary drainage and sediment control facilities
•	Drilling works		on Site;

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Key Construction Works	Recommended Mitigation Measures		
Excavation works	Vehicle wheel-washing and body washing facilities should		
ELS works	be provided at the site entrance;		
Superstructure RC Works	Regular water spraying on excavation works for dust control; and		
	Proper waste handling, recycling and storage.		



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-538/2017 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 the Outlying Islands Sewerage Stage 2 South Lantau Sewerage Works (Register No.: AEIAR-210/2017).
- 1.1.2. In accordance with Clause 3.4 stated in EP-538/2017, 4 hard copies and 1 electronic copy of Monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month.
- 1.1.3. According to Section 12.2 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 Basic project Information and *Environmental Status* summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
- **Section 3** Implementation Status advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
- **Section 4** *Monitoring Results* summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration.
- Section 5 Report on Complaints, Notification of Summons and Successful Prosecutions – summarizes:

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Record of all complaints received (written or verbal) for each media, including locations and nature of complaints investigation, liaison and consultation undertaken, actions and follow-up procedures taken, results and summary;

Record of notifications of summons and successful prosecutions for breaches of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken,

results and summary;

Review of the reasons for and the implications of non-compliance, complaints, summons and prosecutions including review of pollution sources and working procedures; and

Description of the actions taken in the event of non-compliance and deficiency reporting and any follow-up procedures related to non-compliance.

Section 6 Future Key Issues – An account of the future key issues as reviewed from the works programme and work method statements.

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Section 7 Conclusion



2 Basic project Information and Environmental Status

2.1 Basic Project Information

2.1.1. Drainage Services 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. Key personnel and contact particulars are summarized in *Table 2.1:*

Table 2.1 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
Drainage Services Department (DSD)	The Engineer for the Contract	Engineer	Mr. Silas Chan	2594 7272	3104 6426
Binnies Hong Kong Limited	Engineer's Representative	Assistant Resident Engineer	Mr. Clayton Lei	3529 3013	-
Kwan Lee – Chun	Contractor	Site Agent	Mr. Charles Tse	9270 3384	2744 6937
Wo Joint Venture	Contractor	Environmental Officer	Ms. Shirley Kong	5162 5933	
SMEC Hong Kong	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Kitty Lee	3995 8140	3995 8101
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Derek Lo	2882 3939	2882 3331

2.2 Construction Programme

- 2.2.1. The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O/ Chi Ma Wan via a submarine outfall.
- 2.2.2. The entire Project are divided into three contracts. Contract No. DC/2020/20 (the Contract) would have the following implementations as demonstrated in *Figure 2.1*.
- 2.2.3. The major components of the Contract under Environmental Permit (EP) (EP No. EP-538/2017) comprises: (i) construction of sewage treatment works at San Shek Wan (SSWSTW) and associated submarine outfall; (ii) construction of sewage pumping station at Pui O (POSPS); (iii) village sewage works at Pui O; and (iv) trunk sewers and rising mains on carriageways.





2.2.4. The performance of the environmental management system of the reporting period was generally satisfied. 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.

2.3 Works undertaken during the month

- 2.3.1. In the reporting month, the principal work activities conducted are as follow:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau road, Pui O Beach
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
 - · HDD works at marine and SSWSTW
 - Superstructure RC Works

The locations of works are shown in <u>Figure 2.2</u>.

- 2.4 Drawing showing the project area, environmental sensitive receivers and monitoring locations
- 2.4.1. Noise and water monitoring location plans with sensitive receivers are shown in <u>Figure 2.3</u> and <u>Figure 2.4</u>.
- 3 Implementation Status
- 3.1 Advice on the implementation status of environmental protection and pollution control/mitigation measures
- 3.1.1. Mitigation measures according to the environmental mitigation implementation schedule in Annex A of EM&A Manual were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained.

3.2 Environmental Mitigation Measures

3.2.1. Environmental mitigation measures mentioned the EIA Report were weekly reviewed and recorded in Weekly Environmental Site Audit Checklist. Also, a summary of the current status on submissions and measures mentioned in Environmental Permit (EP-538/2017) are shown in *Table 3.1*.

Table 3.1 Summary of submission status under EP-538/2017

EP Condition	Submission	Date of Latest Submission to EPD^ / EPD Approval#
Condition 2.10	Waste Management Plan (Rev. 5) (electronic copy)	4 April 2022#
Condition 2.11	Submission of Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (Rev. 23)	9 September 2022#
Condition 2.12	Submission of Compensatory Woodland Planting Plan (Rev. 16)	23 September 2022^
Condition 2.13	Silt Curtain Deployment Plan (Rev. 17)	6 December 2022^
Condition 2.14	Landscape Mitigation Plan	To be confirmed
Condition 2.15	Construction Noise Mitigation Plan (Rev. 20)	4 August 2022#

3.3 Environmental monitoring requirements and contractual requirements

3.3.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.2*.

Table 3.2 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.	Issued Date	Valid Period & Expiry Date	Status
Notification of Works Under APCO	466408	14 Apr 2021	N/A	Valid
	SSWSTW: WT00039636-2021	30 Dec 2021	30-12-2021 to 31-12-2026	Valid
Wastewater Discharge Licence under <i>Water</i> Pollution Control	POPS: WT00039820-2021	31 Dec 2021	31-12-2021 to 31-12-2026	Valid
Ordinance	SSWSTW: Gravity Sewer & Raising Main: WT00042613-2022	09 Jan 2023	09-01-2023 to 31-01-2028	Valid
Billing account under Waste Disposal Ordinance	Account No.: 7040411	05 May 2021	N/A	Valid
Registration as a Chemical Waste Producer	0000-931-K3428-01	13 May 2021	N/A	Valid
Construction Noise Permit under Noise Control Ordinance for SSWSTW	GW-RS0642-22	3 Aug 2022	05-08-2022 to 02-02-2023	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0840-22	3 Oct 2022	05-10-2022 to 26-03-2023	Valid

Note: Only include those valid or under application; fill in "N/A" for non-applicable item(s).

3.4 Site Inspection and Audit Reports

- 3.4.1. Within this reporting month, weekly environmental site inspections were conducted on 03, 06,10, 16, 26 and 31 January 2023. IEC attended the SSEMC meeting held on 16 January 2023.Holding nursery visit for transplanted trees on 06 January 2023.
- 3.4.2. 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 3.3*.

Table 3.3 Summary of Environmental Inspections

Inspection Date	Reminder and Recommendations	Close-out Date / Status
3 January 2023	Dark smoke emission from generator observed, contractor was requested to provide regular maintenance and checking of the plant.	6 January 2023
6 January 2023	 Transplanted trees in holding nursery at Kam Tin The Contractor was reminded to remove other herbaceous plant species from the plant species of conservation importance, Aquilaria sinensis (T392). The Contractor was reminded to maintain the irrigation bags used for the plant species of conservation importance, Gmelina chinensis (T751), in a good condition. The Contractor was reminded to provide watering practice for all plant species of conservation importance temporarily transplanted to holding nursery on a regular basis, especially during dry season. The Contractor was reminded to keep in view for the health of the plant species of conservation importance, Gmelina chinensis (T742 & T751), with respect to the fact that the increased percentage of necrotic foliage (for T742) and unusual leave shedding (for T751) were noted as compared to the same species temporarily transplanted to holding nursery (i.e. T758). Indeed, the presence of sign of defects indicates that the plant species of conservation importance are likely dying, the Contractor was strongly advised to follow the requirement as stipulated in Section 8.6 of the Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (i.e. replacement of tree) in advance. 	14 January 2023 & On-going
10 January 2023	Pui O Sewage Pumping Station 1. Debris in the u-channel and near site boundary should be removed regularly. South Lantau Road sewer works TTA (Lo Uk Tsuen) 2. Measures should be provided to prevent generation of mud/soil on public road.	14 January 2023
16 January 2023	No particular findings	N/A
26 January 2023	No particular findings	N/A
31 January 2023	Pui O Sewage Pumping Station 1. Contractor was reminded to replace damaged impervious sheet on the exposed slope to reduce dust nuisance.	On-going

4 Monitoring Results

4.1 Noise Monitoring

MONITORING METHODOLOGY

4.1.1 Monitoring Procedure

- (a) The impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.
- (b) 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.
- (c) Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3 dB (A) would be applied.
- (d) The battery condition was checked to ensure the correct functioning of the meter.
- (e) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- (f) Frequency weighting: A, Time weighting: Fast, Measurement time set: continuous 5 mins
- (g) 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 ±1.0 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- (h) Noise measurements will be made in accordance with standard acoustical principles and shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

4.1.2 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 4.1*.

Table 4.1 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	Larson Davis LxT1	0006346
Acoustic Calibrator	Honglim HLES-02	2016611465

4.1.3 The calibration certificates of the noise monitoring equipment are attached in **Appendix 4.1.**

4.1.4 Calibration Details

- (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.

PARAMETERS MONITORED

- 4.1.5 The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq(30min) should be used as the monitoring parameter. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.6 For impact monitoring for construction of village sewers / rising main, noise monitoring should be undertaken on weekly basis. One set of L_{eq(30min)} noise level as six consecutive L_{eq(5min)} between 07:00-19:00 hours on normal weekdays.

MONITORING STATIONS

4.1.7 The noise monitoring stations for the Project are listed and shown in *Table 4.2*, impact noise monitoring was conducted at Eight (8) noise monitoring stations N12a, N12b, N13, N14, N15b, N16a, N16b and N17 once per week in the reporting month.

Table 4.2 Noise Monitoring Station

Monitoring Station ID (1)	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N01a	Shui Hau Village	Free-Field	G/F
N01c	Shui Hau Village	Free-Field	G/F
N03a	Tong Fuk Village	Free-Field	G/F
N05a	Residences at Cheung Fu Street	Free-Field	G/F
N07	Government Holiday Bungalows	Free-Field	G/F
N08	Cheung Sha Ha Tsuen	Free-Field	G/F
N10	Cheung Sha Sheung Tsuen	Façade	G/F
N11b	San Shek Wan – Ming Garden	Free-Field	G/F
N12a	Lo Uk Tsuen	Free-Field	G/F
N12b	Lo Uk Tsuen	Façade	G/F
N13	Pui O San Wai Tsuen	Façade	G/F
N14	South Lantau Community Centre	Free-Field	G/F
N15b	Pui O Lo Wai Tsuen	Façade	G/F
N16a	Residences at Ham Tin	Free-Field	G/F

Monitoring Station ID (1)	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
N16b	Residences at Ham Tin	Free-Field	G/F
N17	Bui O Public School	Façade	R/F

Remarks (1): Fine adjustment of noise monitoring stations at all locations was proposed as per EP Condition 3.1.

MONITORING DATE, TIME, FREQUENCY AND DURATION

4.1.8 For daytime construction work on normal weekdays, monitoring of L_{eq(30min)} should be carried out at each station at 0700-1900 hours on normal weekdays at a frequency of once a week.
Impact monitoring schedule can be referred to <u>Appendix 4.2</u>.

NOISE MONITORING RESULTS

- 4.1.9 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 4.3*.
- 4.1.10 No school examination was taken place at N17 Bui O Public School in the reporting month,
- 4.1.11 No action or limit level exceedance was recorded in construction noise level in this reporting period.



4.2 Water Quality Monitoring

MONITORING METHODOLOGY

4.2.1 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.
- (h) 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.

NAME OF LABORATORY AND EQUIPMENT USED AND CALIBRATION DETAILS

LABORATORY MEASUREMENT / ANALYSIS

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

EQUIPMENT USED

Dissolved Oxygen, pH And Temperature Measuring Equipment

4.2.3 Multifunctional Meter and Turbid Meter are used at each designated monitoring station. They are capable of measuring:



- (a) a dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation (Detection Limit: 0.1mg/L)
- (b) a temperature of 0-45 degree Celsius (Detection Limit: 0.1 degree Celsius)
- (c) turbidity level between 0-1000NTU (Detection Limit: 0.1NTU)
- (d) salinity in the range of 0-40ppt (Detection Limit: 0.1ppt)
- (e) pH value in range of 0.0 14.0 (Detection Limit: 0.1units)

Other monitoring equipment namely water depth meter, water current meter, dGPS positioning device, water sampler listed below were also deployed,

- (a) Water depth meter (Range: 0.6 -100m, Resolution: 0.1m)
- (b) Water current meter (Range: 0-360°, Detection Limit: 1mm/s)
- (c) dGPS positioning device (Resolution: Horizontal: 0.25m; Vertical: 0.50 m)
- (d) Water sampler (Horizontal discrete type, Capacity: 2.2L)

Sampler Container and Storage

4.2.4 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

4.2.5 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.

CALIBRATION DETAILS

- 4.2.6 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.
- 4.2.7 Brand and model of the equipment are given in *Table 4.3*.

Table 4.3 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	Sonde YSI Professional Plus	16J104708/17F100236
Turbid meter	Xin Rui WGZ-3B	2202001



Calibration certificates of the water quality monitoring equipment are attached in Appendix 4.1.

PARAMETERS MONITORED

4.2.8 In construction phase, the levels of dissolved oxygen (DO), temperature, turbidity and salinity should be measured in situ while suspended solids (SS) is determined by laboratory analysis.

MONITORING STATIONS

4.2.9 Water quality monitoring involves 9 monitoring stations. The locations of water quality monitoring station are shown in *Table 4.4*.

Marine Water Quality Stations for Water Quality Monitoring

Station	Description	Easting	Northing
CE	Upstream control station at ebb tide	810838	807538
CF	Upstream control station at flood tide	815886	808081
SR4 ⁽¹⁾	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814938	810975
SR5	Ecological Sensitive Receiver (Coral Communities) at Pui O Wan	814326	810540
SR6	Gazetted Bathing Beach at Lower Cheung Sha	810553	810475
SR9 (1)	Ecological Important Stream at Tong Fuk	811325	809787
SR10	Secondary Contact Recreational Zones at South Lantau	810561	809494
SR12 ⁽¹⁾	Proposed Special Site of Scientific Interest (SSSI) at Shui Hau Wan	810359	808989
SR15	Gazetted Bathing Beach at Pui O and Ecologically Important Stream at Pui O	816037	810722

Remarks (1): Fine adjustment of water quality monitoring stations at SR4, SR9 and SR12 was proposed as per EP Condition 3.1, and baseline monitoring was conducted at corresponding fine adjusted locations.

MONITORING DATE, TIME, FREQUENCY AND DURATION

- 4.2.10 Water quality monitoring had been commenced on 12 April 2022 the designated monitoring stations three days per week with respect to marine-based construction works commenced on 19 April 2022. HDD casing works commenced on 30 May 2022.
- 4.2.11 The levels of dissolved oxygen (DO), temperature, turbidity and salinity were measured in situ while suspended solids (SS) is determined by laboratory analysis at all the monitoring stations in Table 4.4 three times a week. Impact monitoring schedule can be referred to Appendix 4.2.
- 4.2.12 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.
- 4.2.13 Impact Monitoring shall be carried out three 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.
- 4.2.14 The sampling frequency of at least three days per week should be undertaken. 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.
- 4.2.15 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.

MONITORING RESULTS

- 4.2.16 Marine water quality monitoring results measured in this reporting period are reviewed and summarized. Details of marine water quality monitoring results and graphical presentation can be referred in <u>Appendix 4.4</u>
- 4.2.17 Water quality monitoring is evaluated against Action and Limit Levels. The derived Action and Limit Level proposed in Baseline Monitoring Report Rev. 9.2 was agreed by EPD on 2 September 2022. Action and Limit Levels of marine water quality monitoring have been set with reference to the derived criteria as shown in *Table 4.5* below for reference.

Table 4.5 Action and Limit Levels of Water Quality

Parameters	Action Level	Limit Level
Construction Phase Mari		
DO in mg/L ^B	Surface and Middle: 5.8 mg/L	Surface and Middle: 4 mg/L
DO III IIIg/L -	Bottom: 5.9 mg/L	Bottom: 2 mg/L
	14.4 NTU <u>and</u>	23.5 NTU <u>and</u>
Turbidity in NTU	20% exceedance of value at any impact	30% exceedance of value at any impact
(Depth-averaged A) ^C	station compared with corresponding	station compared with corresponding data
	data from control station D	from control station D
	13.1 mg/L <u>and</u>	30.4 mg/L <u>and</u>
SS in mg/L	20% exceedance of value at any impact	30% exceedance of value at any impact
(Depth-averaged A) C	station compared with corresponding	station compared with corresponding data
	data from control station D	from control station D

Notes (with proposed amendments in AL/LL in underlined text):

- A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- C. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data " $\frac{1}{20}$ " 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.
- 4.2.18 Number of exceedances recorded during the reporting month are summarized in *Table 4.6*.

Table 4.6 Summary of Marine Water Quality Exceedances

	Parameter	DO (S	S&M)	DO (B	ottom)	Turb	idity	S	S		edance
										CC	ount
Station	Level	Mid Ebb	Mid	Mid Ebb	Mid	Mid Ebb	Mid	Mid Ebb	Mid Flood	Mid	Mid
	exceeded		Flood		Flood		Flood			Ebb	Flood
SR4	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	/	/	0	0



	Parameter	DO (8	S&M)	DO (Bo	ottom)	Turb	idity	S	S		edance ount
Station	Level exceeded	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood
	Limit	/	/	/	/	/	/	/	/	0	0
SR6	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR9	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR10	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR12	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR15	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
Total	Action	0	0	0	0	0	0	0	0		0
	Limit	0	0	0	0	0	0	0	0		0

4.2.19 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

4.3 Ecology

MONITORING METHODOLOGY

- 4.3.1 The weekly site audit to be carried out by the ET should include checking whether good site practices are being properly implemented by the Contractor.
- 4.3.2 Impact monitoring of the transplanted *Aquilaris sinensis* at holding nursery and one retain tree of *Aquilaris sinensis* in SSWSTW Project Site, establishment and after-establishment caring measures of the compensatory mixed woodland to ensure the affected tree would not be affected by any unacceptable construction works. The trees would be treated with establishment works immediately after transplanting.

PARAMETERS MONITORED

- 4.3.3 The extent of the work site boundaries should be checked by the ET during the weekly site audit. Any disturbance by the Contractor outside the works area especially any damage to the vegetation and surrounding habitats outside the Project area shall be reported to ER and IEC.
- 4.3.4 To identify any unacceptable construction works for the trees of *Aquilaris sinensis* during transplanting, establishment and after-establishment caring measures of the compensatory mixed woodland.

MONITORING LOCATION

4.3.5 As per latest version of PTP, four tree found (1 no. of Aquilaria sinensis and 3 nos. of Gmelina

chinensis) within the site of SSWSTW (<u>Figure 2.5</u>) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (<u>Figure 2.6</u>) at Kam Tin and eventually be transplanted to Pui O Pumping Station.

MONITORING DATE, TIME, FREQUENCY AND DURATION

- 4.3.6 The recommended good site practices to be audited once every week as part of the site audit programme. The weekly site audit to be carried out by the ET includes checking whether good site practices are being properly implemented by the Contractor. Results are recorded in Weekly Environmental Site Audit Checklist.
- 4.3.7 Monitoring programme for post-transplantation will be conducted once per month (06 January 2023).

MONITORING RESULTS

- 4.3.8 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 4.3.9 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 4.3.10 Results and findings of site audit in this reporting month are listed in *Table 3.3*.

4.4 Waste Management

4.4.1 The quantities of waste for disposal in the Reporting Period are summarized in *Table 4.7*. The Monthly Summary Waste Flow Table is shown in *Appendix 4.5*.

Table 4.7 Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m ³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0.13069	0.36765	9.19043
Metals (in '000kg)	0.0055	5.92	7.49760
Paper / Cardboard Packing (in '000kg)	0.0519	0	0.28998



Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Plastics (in '000kg)	0.0038	0	0.02976
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	13.75	14.77	430.03

^{*:} Further breakdown into sub-group if considered applicable;

5 Complaints, Notification of Summons and Prosecution

- 5.1.1 No environmental complaint, notification of summons and successful prosecution regarding construction works was recorded in the reporting period.
- 5.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting period.
- 5.1.3 Cumulative statistic on complaints and successful prosecutions are summarized in *Table 5.1* and *Table 5.2* respectively.

Table 5.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
January 2023	1
Project commencement to the end of last reporting month	2
Total	2

Table 5.2 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
Other	-	0	0
Total	-	0	0

6 Future Key Issues

- 6.1.1 In coming reporting 3 months, the scheduled construction activities are listed as follows:
 - Excavation, sewer laying, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Pui O Beach
 - HDD works at marine and SSWSTW
 - Site formation works for POSPS
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
- 6.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in *Table 6.1*. The major construction activities for the next 3 months are summarized in Three Months Rolling Programme February 2023 to April 2023 in *Appendix 6.1*.

Table 6.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting 3 Months

Key Construction Works	Recommended Mitigation Measures
Excavation, sewer laying,	Implementation of noise pollution control in accordance
construction of manhole at Pui O	with Construction Noise Mitigation Plan;
Lo Uk Tsuen, South Lantau Road,	Dust control during dust generating works;
Pui O Beach	Silt curtain should be maintained in good condition;
HDD works at marine and	Adopt surface drainage and sediment control facilities for
SSWSTW	sewage installation in village and public roads;
Site formation works for POSPS	Adopt temporary drainage and sediment control facilities
Drilling works	on Site;
Excavation works	Vehicle wheel-washing and body washing facilities should
ELS works	be provided at the site entrance;
Superstructure RC Works	Regular water spraying on excavation works for dust
	control; and
	Proper waste handling, recycling and storage.



7 Conclusion

7.1 Noise Monitoring

- 7.1.1 No school examination was taken place at N17 Bui O Public School in the reporting month,
- 7.1.2 No action or limit level exceedance was recorded in construction noise level in this reporting period.

7.2 Water Quality Monitoring

- 7.2.1 Marine-based construction works commenced on 19 April 2022, HDD casing works commenced on 30 May 2022.
- 7.2.2 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, no action level and limit level exceedances were recorded in the reporting month.

7.3 Ecological Impact Monitoring

- 7.3.1 Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- 7.3.2 As per latest version of PTP, four tree found (1 no. of *Aquilaria sinensis* and 3 nos. of *Gmelina chinensis*) within the site of SSWSTW which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery at Kam Tin and eventually be transplanted to Pui O Pumping Station.
- 7.3.3 The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- 7.3.4 The extent of the work site boundaries was checked by the ET during the weekly site audit.
- 7.3.5 Within this reporting period, holding nursery visit for transplanted trees on 06 January 2023.
- 7.3.6 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 period are listed below in *Table 7.1*.



Table 7.1 Summary of Ecological Impact Monitoring

Inspection Date	Reminder and Recommendations	Close-out Date / Status
06 January 2023	 Transplanted trees in holding nursery at Kam Tin The Contractor was reminded to remove other herbaceous plant species from the plant species of conservation importance, Aquilaria sinensis (T392). The Contractor was reminded to maintain the irrigation bags used for the plant species of conservation importance, Gmelina chinensis (T751), in a good condition. The Contractor was reminded to provide watering practice for all plant species of conservation importance temporarily transplanted to holding nursery on a regular basis, especially during dry season. The Contractor was reminded to keep in view for the health of the plant species of conservation importance, Gmelina chinensis (T742 & T751), with respect to the fact that the increased percentage of necrotic foliage (for T742) and unusual leave shedding (for T751) were noted as compared to the same species temporarily transplanted to holding nursery (i.e. T758). Indeed, the presence of sign of defects indicates that the plant species of conservation importance are likely dying, the Contractor was strongly advised to follow the requirement as stipulated in Section 8.6 of the Preservation and/or Transplantation Plan for Plant Species of Conservation Importance (i.e. replacement of tree) in advance. 	14 January 2023 & On-going

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

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

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

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

Figure 2.1

Master Layout Plan

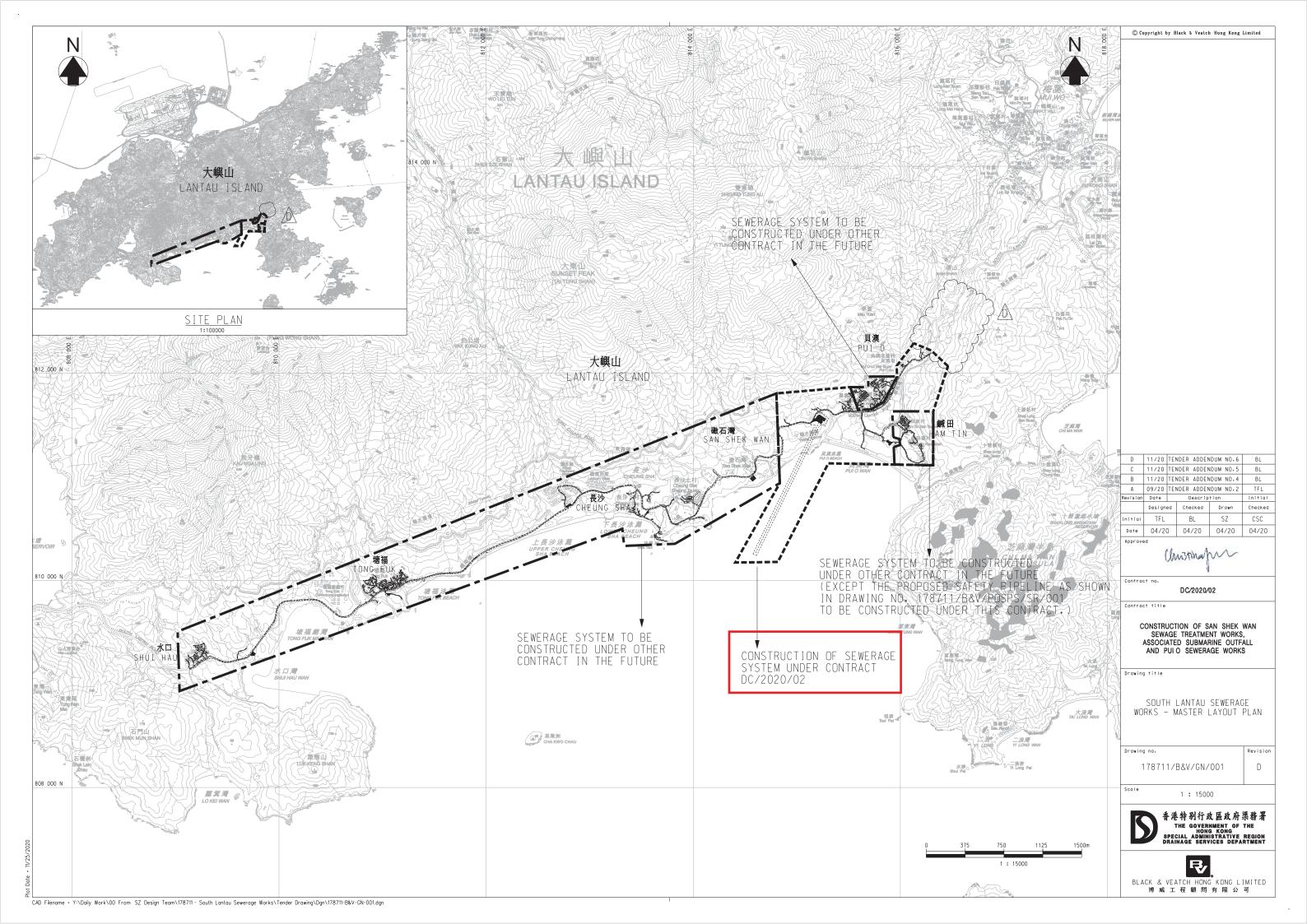


Figure 2.2

Contract Layout Plan

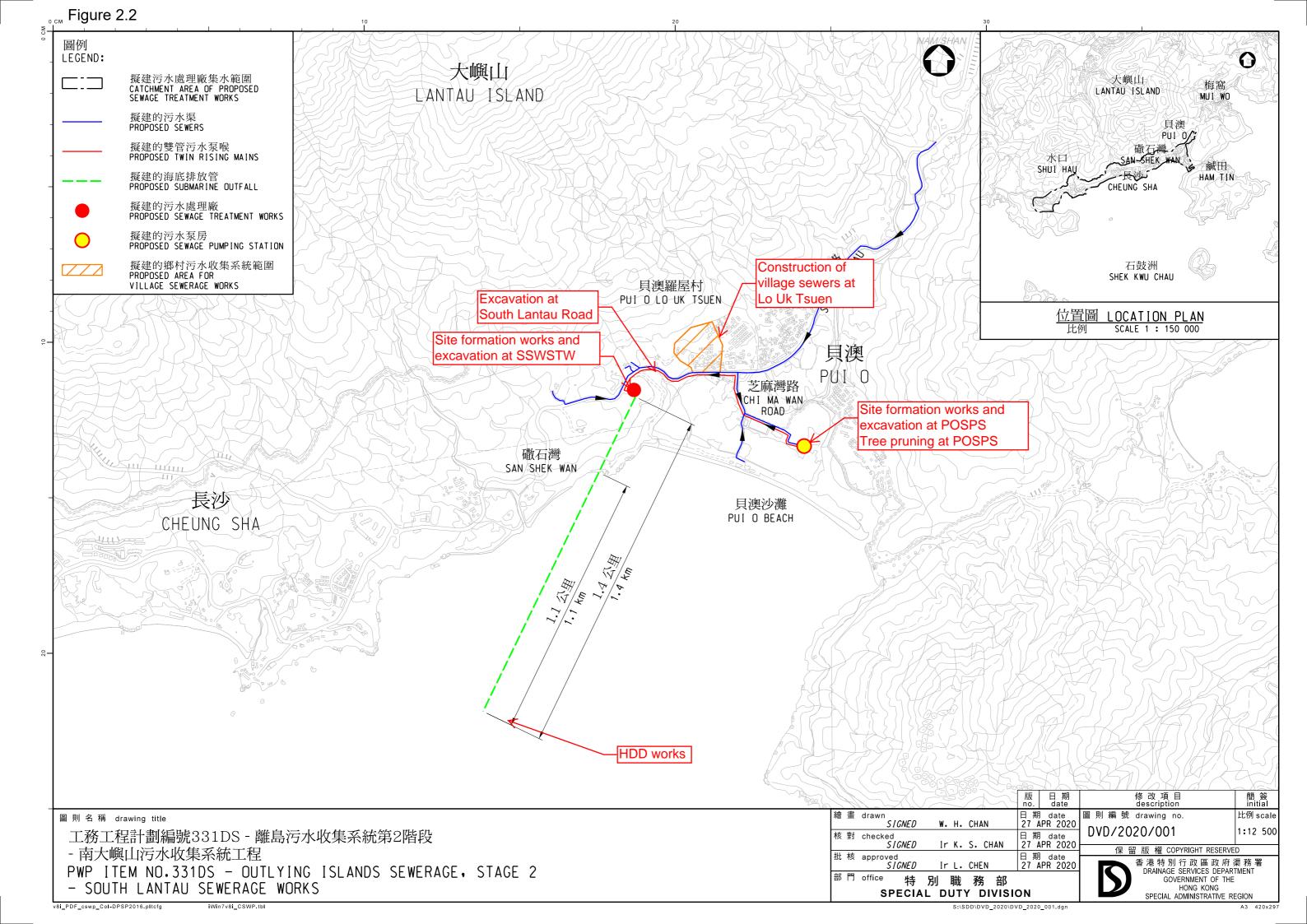


Figure 2.3

Locations of Noise Monitoring Station

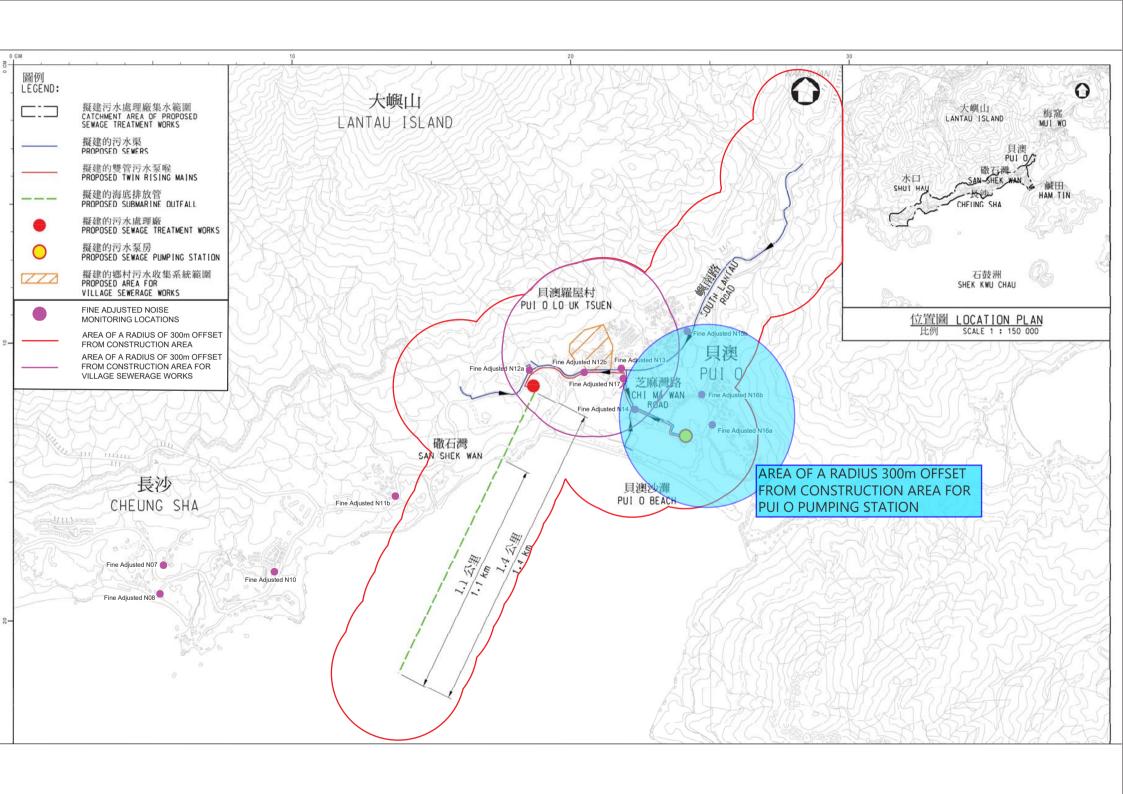


Figure 2.4 Locations of Water Quality Monitoring Stations

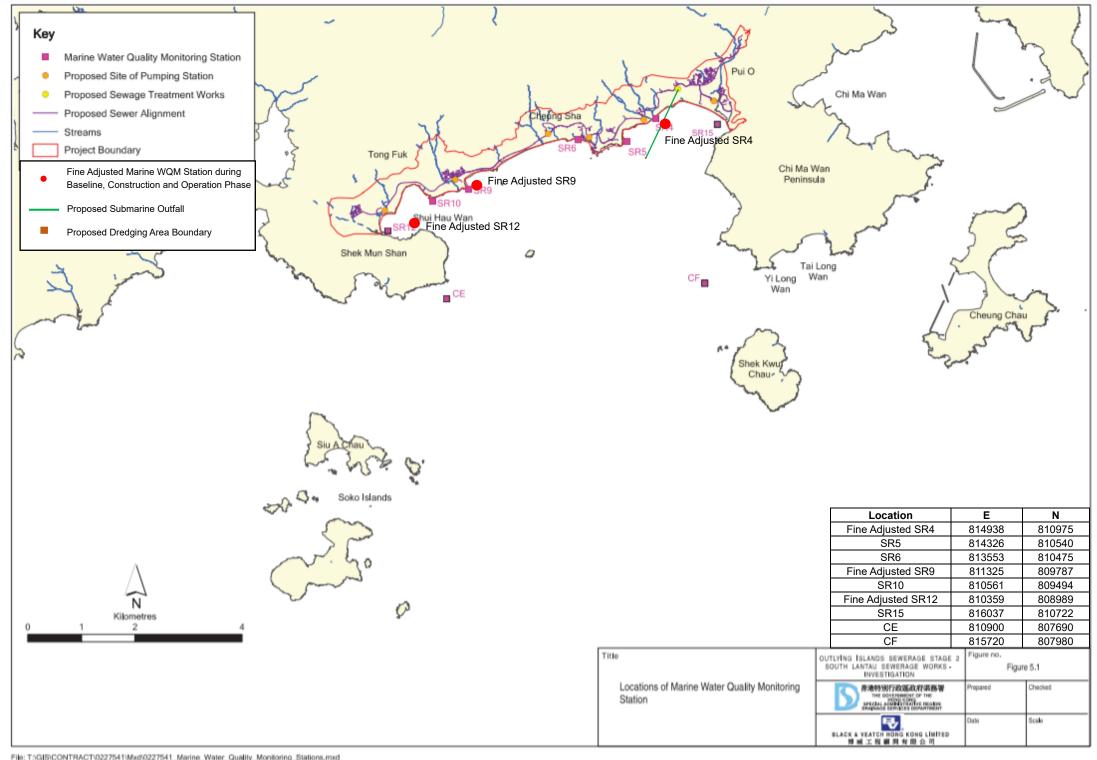


Figure 2.5

Mark up Figure 5.4i extracted from approved EIA Report (AEIAR-210/2017)

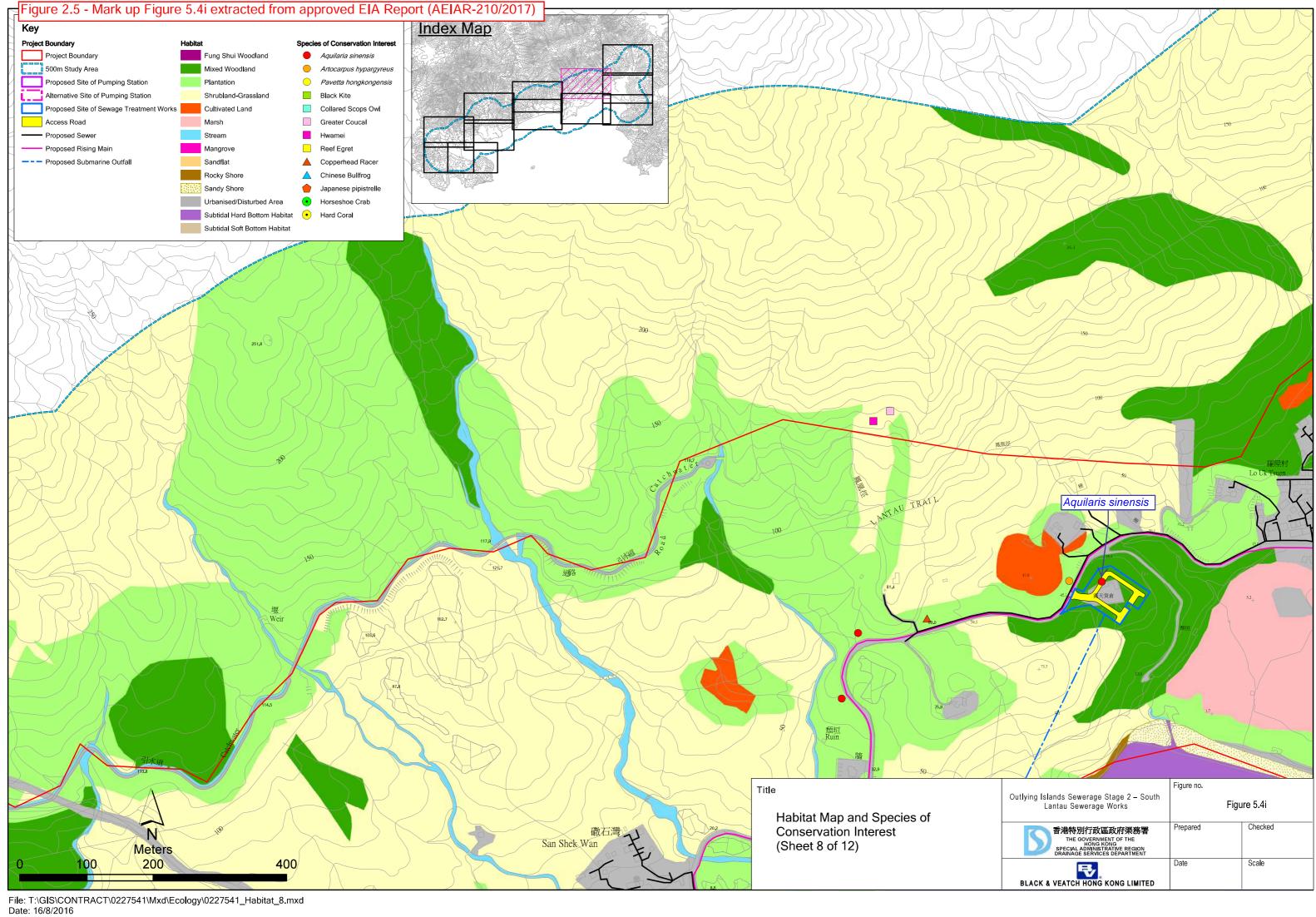
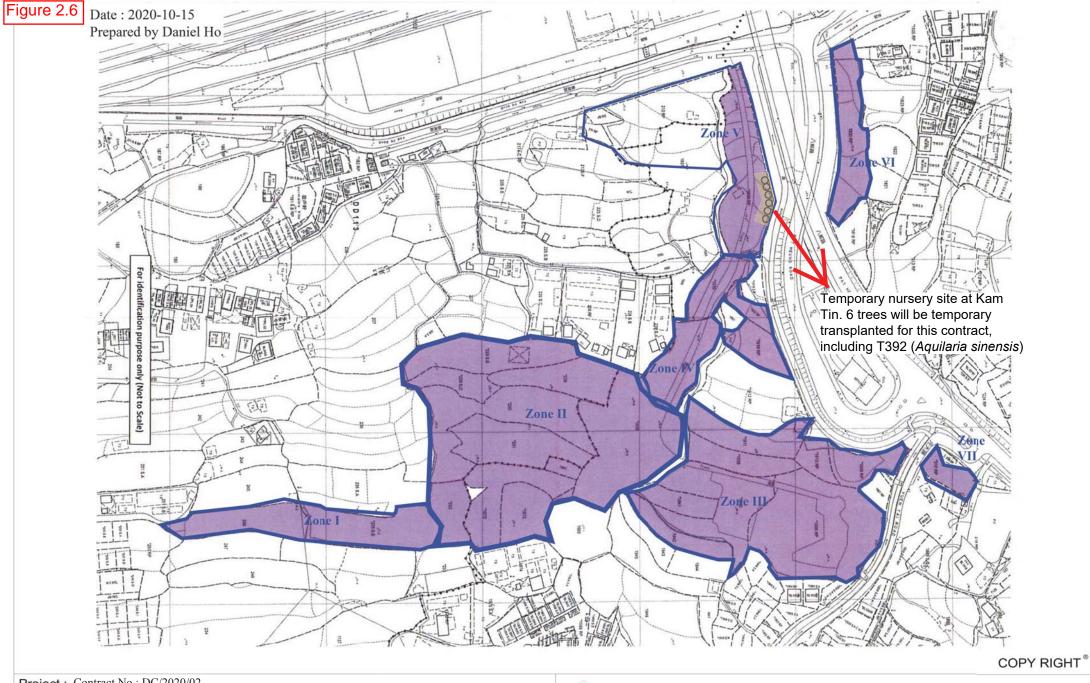


Figure 2.6 Location Plan for Temporary Holding Nursery



Project: Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,

Associated Submarine Outfall and Pui O Sewerage Works

Drawing Title: Location Plan for 6 nos. Trees on Kam Tin Nursery



Toyo Greenland Co., Ltd.

Check : Ho Tat Pui, Daniel	Scale : N.T.S.	Rev.
Ref : C3109/22/TGD0164	Date : 10 January 2022	00

Appendix 4.1

Copies of Calibration Certificates



香港新界葵涌水基路22-24號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com





CERTIFICATE OF CALIBRATION

Certificate No.:

22CA0412 03

Page

of

2

Item tested

Description:

Sound Level Meter (Class 1)

Microphone PCB

Preamp PCB

Manufacturer: Type/Model No.: Larson Davis LxT1

377B02 326425

PRMLxT1L 069995

Serial/Equipment No.: Adaptors used:

0006346

Item submitted by

Customer Name:

Lam Environmental Services Limited

Address of Customer:

Request No.:

Date of receipt:

12-Apr-2022

Date of test:

17-Apr-2022

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444 33873

23-Aug-2022 27-May-2022 CIGISMEC CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1005 ± 5 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 1, and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. 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.

1/

Fend Junqi

Approved Signatory:

Date:

19-Apr-2022

Company Chop:

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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CERTIFICATE OF CALIBRATION

(Continuation Page)

Cer	tific	cate	No	.:

22CA0412 03

Page

of

2

1, Electrical Tests

The electrical tests were performed 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.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
			0.0	
Self-generated noise	A	Pass	0.3	0.4
	С	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	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	
0 0	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	
3 3	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
= =	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	
STORIGE MELOCITOR	Leq	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.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
Section Control of the Both Control of Asia Control of	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.

Calibrated by:

Date:

Fung Chi Yip

End

Checked by:

Chan Yuk Yiu
Date: 19-Apr-2022

17-Apr-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



SMECLab

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Test Data for Sound Level Meter Page 1 of 5

Serial No.

Sound level meter type:

LxT1 Serial No.

0006346 Date 17-Apr-2022

Microphone Preamp type: type: 377B02 Serial No.

326425 069995 Report: 22CA0412 03

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

9.3

PRMLxT1L

dB

Noise level in C weighting

12.5

dB

Noise level in Lin

19.1

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	al level	Tolerance	Deviation		
Neierence/Expected level	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	48.9	48.9	0.7	-0.1	-0.1	
44.0	44.0	44.0	0.7	0.0	0.0	
39.0	39.0	39.0	0.7	0.0	0.0	
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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Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:		LxT1	Serial No. 0		0006346	Date	17-Apr-2022
Microphone Preamp	type: type:	377B02 PRMLxT1L		Serial No. Serial No.	326425 069995	Repo	ort: 22CA0412 03
32.0		31.9	31.9	0.7		-0.1	-0.1
31.0		30.9	30.9	0.7		-0.1	-0.1
30.0		29.9	29.9	0.7		-0.1	-0.1

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	29.9	0.7	-0.1
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	90.8	1.0	1.0	0.0
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	Expected level Actual level		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	93.2	1.5	1.5	0.0
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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Test Data for Sound Level Meter

Page 3 of 5

Sound level me	eter type:	LxT1	Serial No.	000	6346	Date	17-Apr-2022
Microphone Preamp	type: type:	377B02 PRMLxT1L	Serial No. Serial No.	***	425 995	Report:	22CA0412 03
1995.0	94.0	93.8	93.9	1.0	1.0	0.1	
3981.0	94.0	93.2	93.3	1.0	1.0	0.1	
7943.0	94.0	91.0	91.0	1.5	3.0	0.0	
12590.0	94.0	87.8	87.8	3.0	6.0	0.0	

Frequency weighting Lin:

Frequency	Ref. level	Expected level	d level Actual level		rce(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	94.0	94.0	1.5	1.5	0.0
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	94.1	1.5	3.0	0.1
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	Tolerance(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	xpected level Actual level Toleran		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	119.3	2.0	0.3



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Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type:

LxT1

Serial No.

0006346

Date 17-Apr-2022

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 326425 069995

Report: 22CA0412 03

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.3	2.0	0.3

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency:

Tone burst signal:

11 cycles of a sine wave of frequency 2000 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 burst 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 ms

diation of tone burst.	1 1113					
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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Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type:

LxT1

Serial No.

0006346

Date 17-Apr-2022

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 326425 069995

Report: 22CA0412 03

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	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 frequency:

2000 Hz

Amplitude:

2 dB below the upper limit of the primary indicator range.

Burst repetition frequency:

40 Hz

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
114.2	113.2	110.2	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

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: Single burst duration: 10 sec 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
120.9	119.9	79.9	79.9	2.2	0.0

ACOUSTIC TEST

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	xpected 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	90.8	1.5	3.0	-2.1	

----END-----



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CERTIFICATE OF CALIBRATION

Certificate No.:

22CA0329 03

Page:

1

of

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.:

Honglim Co., Ltd.

Serial/Equipment No.:

HLES-02 2016611465

Adaptors used:

_

Item submitted by

Curstomer:

Lam Environmental Services Limited.

Address of Customer:

-

Request No.: Date of receipt:

29-Mar-2022

Date of test:

30-Mar-2022

Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	Model: B&K 4180 B&K 2673 B&K 2610 DS 360 34401A 8903B 53132A	Serial No. 2341427 2239857 2346941 33873 US36087050 GB41300350 MY40003662	Expiry Date: 04-May-2022 31-May-2022 01-Jun-2022 27-May-2022 27-May-2022 28-May-2022 02-Jun-2022	Traceable to: SCL CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI
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Ambient conditions

Temperature:

 22 ± 1 °C

Relative humidity:

55 ± 10 %

Air pressure:

1010 ± 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.

Approved Signatory:

Date:

31-Mar-2022

Company Chop:

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.CARP156-1/issue 1/Rev.D/01/03/2007



综合試驗有限公司

SOILS & MATERIALS ENGINEERING CO., LTD. 香港新界葵涌永基路22-24號好爸爸創科大廈

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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

22CA0329 03

Page:

2 .

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.

			(Output level in dB re 20 μPa)
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.90	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 = 0.016 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 = 1004.3 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 = 0.3 %

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.

Calibrated by:

- End

Checked by:

Date:

Chan Yuk Yiu 31-Mar-2022

Date:

Fung Chi Yir 30-Mar-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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

DEREK LO

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER:

HK2247579

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED:

30-Nov-2022

DATE OF ISSUE:

09-Dec-2022

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.:

[16J104708/17F100236]/[N/A]

Date of Calibration:

08-December-2022

GENERAL COMMENTS

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



SUB-BATCH: 0

DATE OF ISSUE: 09-Dec-2022

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type: Brand Name/ Multifunctional Meter

Model No.:

[YSI]/[Professional Plus]

Serial No./

[16J104708/17F100236]/[N/A]

Equipment No.: Date of Calibration:

08-December-2022

Date of Next Calibration:

08-March-2023

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
2.01	1.83	-0.18	
4.54	4.44	-0.10	
7.42	7.30	-0.12	
	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	3.90	-0.10		
7.0	7.09	+0.09		
10.0	10.00	+0.00		
	Tolerance Limit (pH unit)	±0.20		

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.00		
10	9.82	-1.8	
20	18.79	-6.1	
30	28.79	-4.0	
	Tolerance Limit (%)	±10.0	

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2247579

ALS

SUB-BATCH:

0

DATE OF ISSUE:

09-Dec-2022

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type: Brand Name/ Multifunctional Meter

Brand Name/ Model No.: [YSI]/ [Professional Plus]

Serial No./

[16J104708/17F100236]/[N/A]

Equipment No.: Date of Calibration:

08-December-2022

Date of Next Calibration:

08-March-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)	
11.0	10.0	-1.0	
23.0	23.0	+0.0	
43.0	43.0	+0.0	
	Tolerance Limit (°C)	±2.0	

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

1:5

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied	•		
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-L18C3101
CLIENT:	LAM ENVIRONMENTAL SERVICE	CES LTD.	
DATE RECEIVED:	18/11/2022		
DATE OF ISSUE:	30/11/2022		
ADDRESS:	19/F, REMAX CENTRE, 42 WONG	G CHUK HANG ROAD,	
	HONG KONG		
PROJECT:			
METHOD OF PEDE	ORMANCE CHECK/ CALIBRATIO	N·	
Ref: APHA22nd ed 21			
COMMENTS			
	tem under performance check/calibration	n has been calibrated/checked b	v corresponding calibrated
equipment in the labor		ii nas soon canoratea enconca e	y corresponding currented
	and calibration frequency stated in the re	mort unless otherwise stated th	ne internal accentance criteria of
FT Laboratories Ltd w		port, uniess otherwise stated, tr	ie internar acceptance criteria or
r i Laudiaidiles Liu w	in be followed.		
Scope of Test:		Turbidity	
Equipment Type:		Turbidimeter	
Brand Name:		Xin Rui	
Model No.:		WGZ-3B	
Serial No.:		2202001	
Equipment No.:			
Date of Calibration:		29/11/2022	
Remarks:			
	rt. Results apply to sample(s) as submitte	ed. All pages of this report have	e been checked and approved
for release.	response upply to sumpro(s) as susmitted	The property of the property o	
Tor rerease.			
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) A 6		
	361 31.		
Contide 1 De-	11/	Inne Date	20/11/2022
Certified By:	MONGCINA	Issue Date:	30/11/2022
	WONG Chi Wai Sanio		
	Senior Chemist		

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Form No.: HG022-002 Rev 0 20190101

Page 1 of 2

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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:

22777053-L18C3101

DATE OF ISSUE:

30/11/2022

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	2202001	
Equipment No.:		
Date of Calibration:	29/11/2022	
Date of next Calibation:	01/03/2023	
Lab I.D.:	H220057-01	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
0	0.00	
4	4.00	0.0%
10	9.99	-0.1%
40	39.99	0.0%
100	99.99	0.0%
400	400	0.0%
1000	999.99	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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Page 2 of 2

Address: Lot No. DD77 Section 1552 S.A. ss 1RP, Ng Chow South Road, Ping Che, N.T., H.K. Tel: 27584861, Fax: 27588962

Appendix 4.2

Impact Monitoring Schedule for Reporting Month and Next Month



CONTRACT NO: SD 6/2020 Construction of San Shek Wan Sewage Treatment Works

ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS Impact Environmental Monitoring Schedule Jan 2023

Note:

*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

Sunday	Monday		Tuesday	Wedr	nesday	Thursday		Friday		Saturo	day
01 Jan		02 Jan	03 Jan		04 Jan		05 Jan		06 Jan		07 Jan
	Mid-Ebb Mid-Flood	8:56 14:56 09 Jan	10 Jan	Mid-Ebb Mid-Flood	10:53 15:52 11 Jan		12 Jan	Mid-Ebb Mid-Flood	11:54 16:45 13 Jan		14 Jan
	Mid-Ebb	13:37		Mid-Ebb	14:58			Mid-Ebb	16:37		
15 Jan	Mid-Flood Mid-Ebb		17 Jan Noise Monitoring	Mid-Flood Mid-Ebb	9:54 18 Jan		19 Jan	Mid-Flood	11:05 20 Jan		21 Jan
22 Jan	Mid-Flood	7:01* 12:58 23 Jan	24 Jan	Mid-Flood	9:18 14:20 25 Jan		26 Jan	Mid-Ebb Mid-Flood Noise Monitoring	11:21 16:02 27 Jan		28 Jan
	Mid-Ebb Mid-Flood	30 Jan 7:01* 12:55	31 Jan Noise Monitoring			Mid-Ebb Mid-Flood	16:11 10:27 02 Feb		03 Feb	Mid-Ebb Mid-Flood	17:11* 11:43 04 Feb

As confirmed by RSS and the Contractor, there is no marine works will be carried out between 23 and 25 Jan 2023. No WQM will be scheduled during 23-25 Jan 2023.



CONTRACT NO: SD 15/2022

Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024) Tentative Impact Marine Water Quality Monitoring Schedule Feb 2023

Note:

*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29 Jan	30 Jan	31 Jan	01 Feb	02 Feb	03 Feb	04 Feb
	Mid-Ebb 7:01* Mid-Flood 12:55 06 Feb		Mid-Ebb 18:45* Mid-Flood 10:17 08 Feb	,		Mid-Ebb 12:00 Mid-Flood 7:10 11 Feb
	Mid-Ebb 13:09 Mid-Flood 7:56		Mid-Ebb 13:57 Mid-Flood 8:28	3	Mid-Ebb 15:05 Mid-Flood 9:19	
12 Feb	13 Feb	14 Feb	15 Feb	16 Feb	17 Feb	18 Feb
	Mid-Ebb 17:34 Mid-Flood 10:49	04.5-1-	00 5-1	Mid-Ebb 18:30* Mid-Flood 9:00	ı	Mid-Ebb 11:22 Mid-Flood 16:05
19 Feb	20 Feb	21 Feb	22 Feb	23 Feb	24 Feb	25 Feb
	Mid-Ebb 12:54 Mid-Flood 7:23		Mid-Ebb 14:11 Mid-Flood 8:26	3	Mid-Ebb 15:22 Mid-Flood 9:17	
26 Feb	27 Feb	28 Feb		02 Mar		04 Mar
	Mid-Ebb 18:15 Mid-Flood 10:36		Mid-Ebb 18:30* Mid-Flood 8:38			Mid-Ebb 11:25 Mid-Flood 16:10

Appendix 4.3

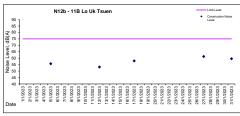
Noise Monitoring Results and Graphical Presentations

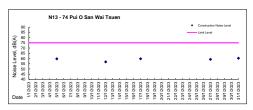
Graphic Presentation of Noise Monitoring Result

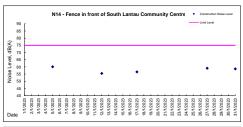
Day Time (0700 - 1900hrs on normal weekdays)

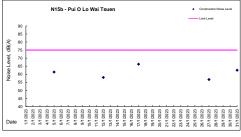
am

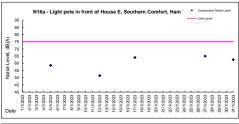


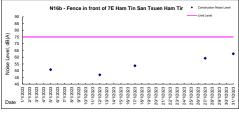


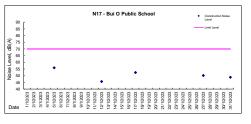














Day Time (0700 - 1900hrs on normal weekdays)

Location: N12a - Light Pole in front of 47 Lo Uk Tsuen

			0-111		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	M: G	Other Noise
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	
			CHECK		Unit:	dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				14:15	69.5	71.7	44.4						
				14:20	71.5	76.0	52.5						
5 Jan 2023	Sunny	0.2	94.1	14:25	71.2	75.9	47.1	70.0	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 0011 2020	Outliny	0.2	01.1	14:30	72.3	76.5	50.1	70.0	70.0	CDASCIIIC ECVCI	73	IWA	Hanne
				14:35	62.8	66.9	40.3						
				14:40	67.3	71.4	41.2						
				14:15	63.7	67.8	49.0						
				14:20	63.7	65.5	48.0						
12 Jan 2023	Cloudy	0.7	94.1	14:25	66.1	69.3	48.5	65.3	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="3">Traffic</td></baseline>	75	N/A	Traffic
12 3411 2023	Oloddy	0.7	01.1	14:30	63.6	68.8	48.5	00.0	70.0	ADDOMING EGYON		IWA	
				14:35	65.3	68.6	49.3						
				14:40	67.6	70.7	49.9						
		14:15 67.5 71.2 57.9											
				14:20	71.0	74.6	61.4						
17 Jan 2023	Sunny	0.1	94.1	14:25	61.1	64.8	51.5	66.7	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	65.1	68.8	55.5					1071	Tiurne
				14:35	64.8	68.5	55.2						
				14:40	63.6	67.3	50.0						
				14:15	68.8	71.9	50.4						
				14:20	63.6	66.7	45.2						
27 Jan 2023	Sunny	0.4	94.1	14:25	68.2	71.3	49.8	66.6	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	66.6	69.7	48.2					1 11 1	1141110
				14:35	56.5	59.6	38.1						
				14:40	67.9	71.0	49.5						
				14:15	66.5	71.6	41.7	1					
				14:20	58.7	63.6	40.8	ļ					
31 Jan 2023	Sunny	0.6	94.1	14:25	48.3	53.6	40.7	9.8	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	41.3	42.3	39.8			.s < coaseille Level			Trame
				14:35	56.7	61.5	41.2						
	1	1	1	14:40	64.8	67.5	50.8			1			

 $^{^{\}star}$ N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N12b - 11B Lo Uk Tsuen

					Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	04 17 1
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)			Source(s)
				13:40	53.2	58.6	42.3						
				13:45	53.0	58.7	44.6						
5 Jan 2023	Sunny	0.1	94.1	13:50	58.9	63.8	44.3	55.7	76.8	<baseline level<="" td=""><td>75</td><td>NI/A</td><td rowspan="2">Traffic</td></baseline>	75	NI/A	Traffic
0 0011 2020	Curry	0.1	0	13:55	56.2	61.3	45.8	00	70.0	ADGOOMIO EOVOI	70	IVA	
				14:00	54.6	59.7	42.8						
				14:05	55.5	60.1	43.7						
				13:40	55.8	59.7	52.5						
				13:45	55.3	59.6	44.0						
12 Jan 2023	Cloudy	0.4	94.1	13:50	44.4	45.5	41.7	53.2	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
12 0011 2020	,		*	13:55	51.2	55.7	42.2					17/74	Transc
				14:00	54.5	58.8	43.5						
				14:05	49.6	54.0	43.7						
				13:40	57.4	60.8	40.5						
				13:45	55.8	59.2	38.9						
17 Jan 2023	Sunny	0.6	94.1	13:50	56.9	60.3	40.0	57.9	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="3">Traffic</td></baseline>	75	N/A	Traffic
	,			13:55	57.7	61.1	40.8						
				14:00	58.6	62.0	41.7						
				14:05	60.0	63.4	43.1						
				13:40 13:45	60.9 59.3	64.7 63.1	43.6 42.0						
				13:50	60.4	64.2	43.1						
27 Jan 2023	Sunny	0.7	94.1	13:55	61.3	65.1	44.0	61.4	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:00	62.2	66.0	44.9						
				14:05	63.1	66.9	45.8						
				13:40	58.9	63.6	46.4						
				13:45	63.5	68.3	53.8						
				13:50	58.2	61.9	49.9						
31 Jan 2023	Sunny	Sunny 0.2 94.1 13.55 58.6 62.4 50.3	59.6	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic					
				14:00	52.8	66.5	52.1						
				14:05	59.5	64.8	42.0	1					

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N13 - 74 Pui O San Wai Tsuen

			0 17 17		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Main Control	Other
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Noise
			CHECK		Unit	: dB(A), (5	i-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s
				11:30	57.9	61.0	54.9						
				11:35	60.1	63.5	55.5						
5 Jan 2023	Sunny	0.0	94.1	11:40	57.5	59.4	55.1	59.7	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 0011 2020	ou,	0.0	0	11:45	63.2	66.7	57.3		70.0	ADGOOMIO EOVOI		17/74	Tianin
				11:50	60.0	63.3	55.0						
				11:55	54.1	57.5	53.8						
				11:30	56.9	59.6	51.6						
				11:35	58.5	62.1	51.3						
12 Jan 2023	Cloudy	0.0	94.1	11:40	55.5	58.8	50.1	56.8	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffi</td></baseline>	75	N/A	Traffi
12 0411 2020	Cioday	0.0	0	11:45	55.1	58.1	50.0	30.0	75.0	CDUSCHIIC ECVO	75	IVA	114111
				11:50	57.7	60.3	52.3						
				11:55	55.8	59.0	50.0						
				11:30	57.8	61.0	54.3						
				11:35	56.5	59.7	53.0					N/A	Traffic
17 Jan 2023	Sunny	0.0	94.1	11:40	59.3	62.5	55.8	59.7	73.6	<baseline level<="" td=""><td>75</td></baseline>	75		
17 001 2020	Odriny	0.0	0	11:45	59.8	63.0	56.3	55.1	75.0	CDUSCHIIC ECVO	75		
				11:50	58.2	61.4	54.7						
				11:55	63.2	66.4	59.7						
				11:30	55.3	58.5	51.8						
				11:35	56.5	59.7	53.0						
27 Jan 2023	Sunny	0.6	94.1	11:40	60.9	64.1	57.4	59.1	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
27 3811 2023	Odriny	0.0	34.1	11:45	61.8	65.0	58.3	33.1	75.0	CDUSCHIIC ECVO	75	N/A	Hain
				11:50	57.3	60.5	53.8						
				11:55	59.2	62.4	55.7						
				11:30	63.1	68.5	45.9						
				11:35	55.0	60.5	41.6						
31 Jan 2023	Sunny	0.2	94.1	11:40	58.7	64.0	43.2	60.2	73.6	<baseline level<="" td=""><td>75</td><td>NI/A</td><td>Troffi</td></baseline>	75	NI/A	Troffi
51 Jan 2023	Juliny	0.2	34.1	11:45	60.8	66.6	6.6 44.6 60.2 73.6 <baseline 75="" a<="" level="" n="" td=""><td>IN/A</td><td>Traffic</td></baseline>	IN/A	Traffic				
				11:50	59.8	65.3	46.8						
	l			11:55	60.3	66.1	45.6	1					

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N14 - South Lantau Community Centre

			Calibration		Measure	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Noise
			CHECK		Unit	dB(A), (5	i-min)		Unit:	dB(A), (30-min)	•	ion Noise	Source(s
				10:55	60.9	64.3	47.0						
				11:00	61.1	65.5	49.7						
5 Jan 2023	Sunny	0.0	94.1	11:05	56.5	60.5	50.5	60.1	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	ou,	***	•	11:10	58.2	62.7	58.6	00.1	02.2	4500min 2010i		IN/A	Transc
				11:15	63.4	66.9	50.3						
				11:20	54.9	58.4	47.2						
				10:55	49.2	52.6	37.9						
				11:00	55.5	59.8	39.4						
12 Jan 2023	Cloudy	0.2	94.1	11:05	54.9	59.6	42.1	55.5	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
12 0011 2020	Cioday	*	•	11:10	58.5	62.7	43.5	00.0	02.2	4500min 2010i		IN/A	Transc
				11:15	57.3	63.0	43.1						
				11:20	50.6	55.6	40.8						
				10:55	56.3	59.2	54.2						
				11:00	53.1	56.0	51.0						
17 Jan 2023	Sunny	0.0	94.1	11:05	55.2	58.1	53.1	56.5	62.2	<baseline level<="" td=""><td>75</td><td rowspan="2">N/A</td><td rowspan="2">Traffic</td></baseline>	75	N/A	Traffic
				11:10	60.0	62.9	57.9						
				11:15	52.3	55.2	50.2						
				11:20	57.5	60.4	55.4						
				10:55	58.0	60.9	55.9						
				11:00	59.4	62.3	57.3						
27 Jan 2023	Sunny	0.4	94.1	11:05	61.5	64.4	59.4	59.1	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	· 1			11:10	58.7	61.6	56.6					1011	
				11:15	58.5	61.4	56.4						
				11:20	57.0	59.9	54.9						
				10:55	55.4	60.1	39.4						
				11:00	49.5	54.0	38.8						
31 Jan 2023	Sunny	0.2	94.1	11:05	61.8	66.4	44.5	58.6	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	ĺ .			11:10	57.0	61.6	42.3	3	62.2	 	/5	1	
				11:15	58.6	63.0	46.8						
		I		11:20	60.8	65.3	45.5	1					

 $[\]ensuremath{^{*}}$ N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N15b - Pole in front of 7A Pui O Lo Wai Tsuen

			0-11111		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				15:00	50.7	66.4	50.0						
				15:05	55.4	58.5	50.5						
5 Jan 2023	Sunny	0.6	94.1	15:10	66.0	70.1	50.3	61.4	70.7	<baseline level<="" td=""><td>75</td><td>Construction Noise Other</td><td>Traffic</td></baseline>	75	Construction Noise Other	Traffic
0 0011 2020	Guilly	0.0	04.1	15:15	63.2	67.0	50.7	01.4	70.7	CDESCRITE LEVER	75	Hanne	
				15:20	60.9	64.6	50.6						
				15:25	57.4	60.9	50.6						
				15:00	50.6	53.4	47.8						
				15:05	56.3	60.4	48.3						
12 Jan 2023	Cloudy	0.1	94.1	15:10	60.5	63.1	51.5	58.0	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
12 3411 2023	Oloddy	0.1	04.1	15:15	54.6	56.9	48.6	00.0	70		,,	IVA	Hanne
				15:20	56.6	61.3	49.9						
				15:25	61.5	64.2	51.7						
				15:00	69.8	74.0	55.7						
				15:05	57.6	61.8	43.5						
17 Jan 2023	Sunny	0.0	94.1	15:10	54.4	58.6	40.3	66.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
11 00112020	Curry		•	15:15	60.0	64.2	45.9	00.0	70	ADDOOMING EGYOF	,,	17/7	Tranic
				15:20	71.0	75.2	56.9						
				15:25	61.3	65.5	47.2						
				15:00	61.7	65.9	47.6						
				15:05	46.9	51.1	32.8						
27 Jan 2023	Sunny	0.0	94.1	15:10	48.2	52.4	34.1	56.7	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			15:15	50.3	54.5	36.2					17/11	Tiuric
				15:20	52.6	56.8	38.5						
				15:25	59.8	64.0	45.7						
				15:00	61.8	66.5	52.4						
				15:05	64.4	67.9	54.2	1					
31 Jan 2023	Sunny	0.6	94.1	15:10	60.5	64.3	54.1	62.5	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				15:15	60.0	64.1	53.8	53.8 55.5		 		1.771	Tarric .
				15:20	65.6	69.7	55.5						
				15:25	58.6	62.5	51.6						

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N16a - Light pole in front of House E, Southern Comfort, Ham Tin

			0 11 11		Measure	ement Noi	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od - Notes
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise
			CHECK		Unit:	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Noise Source(s)*	Source(s)
				9:45	61.4	67.0	44.7						
				9:50	49.9	52.7	43.9						
5 Jan 2023	Sunny	0.3	94.1	9:55	62.6	64.4	46.8	58.6	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 0011 2020	Curiny	0.0	0 1.1	10:00	50.3	54.8	45.9	30.0	00.1	CDASCINC ECVO	75	INA	Hanne
				10:05	57.6	61.3	44.6						
				10:10	55.4	59.9	44.2						
				9:45	52.5	56.9	37.8						
				9:50	44.9	58.7	35.9						
12 Jan 2023	Cloudy	0.6	94.1	9:55	52.8	56.8	36.2	51.5	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			10:00	54.6	59.7	37.0					IVA	Titalic
				10:05	45.7	49.9	34.4						
				10:10	50.7	55.0	38.6						
				9:45	59.1	64.0	46.8					N/A	Traffic
				9:50	68.5	73.4	56.2						
17 Jan 2023	Sunny	0.3	94.1	9:55	64.5	69.4	52.2	64.0	68.1	<baseline level<="" td=""><td>75</td></baseline>	75		
				10:00	65.0	69.9	52.7						
				10:05	56.7	61.6	44.4						
				10:10 9:45	59.5	64.4 68.5	47.2						
				9:45	63.6 66.7	71.6	51.3						
				9:50	64.1	69.0	54.4						
27 Jan 2023	Sunny	1.2	94.1	10:00	68.8	73.7	51.8 56.5	65.0	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:05	57.9	62.8	45.6						
				10:00	61.2	66.1	48.9						
				9:45	61.5	65.5	49.0						
				9:50	68.3	72.3	56.6						
				9:55	55.8	60.0	43.6						
31 Jan 2023	Sunny	0.1	94.1		58.6	63.1	47.8	62.6	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="3">Traffic</td></baseline>	75	N/A	Traffic
				10:05	60.3	64.4	48.1						
				10:10	57.2	61.3	46.2						

^{*} N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N16b - Fence in front of 7E Ham Tin San Tsuen, Ham Tin

			0.17		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od. M.:
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Other Noise
			Crieck		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:20	51.7	55.1	44.7						
				10:25	56.2	58.7	46.4						
5 Jan 2023	Sunny	0.0	94.1	10:30	48.5	50.5	43.7	50.8	68.5	<baseline level<="" td=""><td>75</td><td>27/1</td><td>Traffic</td></baseline>	75	27/1	Traffic
3 3411 2023	Suring	0.0	34.1	10:35	44.3	46.3	45.0	30.0	00.5	Chaseline Level	73	N/A	Hanne
				10:40	41.2	45.0	38.7						
				10:45	46.8	48.9	44.5						
				10:20	50.5	52.9	36.8						
				10:25	42.8	45.2	36.9						
12 Jan 2023	Cloudy	0.0	94.1	10:30	40.8	43.2	37.1	46.9	68.5	<baseline level<="" td=""><td>75</td><td>27/1</td><td>Tr60.</td></baseline>	75	27/1	Tr60.
12 Jan 2023	Cloudy	0.0	94.1	10:35	44.8	47.2	35.4	40.9	08.5	 	75	N/A	Traffic
				10:40	44.4	46.6	36.7						
				10:45	49.8	52.1	34.1						
				10:20	53.5	57.6	43.6				1		
				10:25	51.2	55.3	41.3					N/A	Traffic
17 Jan 2023	Sunny	0.0	94.1	10:30	53.1	57.2	43.2	53.7	68.5	<baseline level<="" td=""><td>75</td></baseline>	75		
17 Jan 2023	Suriny	0.0	94.1	10:35	54.5	58.6	44.6	53.7	08.5	 	75		
				10:40	50.4	54.5	40.5						
				10:45	56.6	60.7	46.7						
				10:20	61.3	65.4	51.4						
				10:25	57.4	61.5	47.5						
27 Jan 2023	Sunny	0.0	94.1	10:30	56.8	60.9	46.9	59.3	68.5	<baseline level<="" td=""><td>75</td><td></td><td>m cc D: 1</td></baseline>	75		m cc D: 1
27 Jan 2023	Suriny	0.0	94.1	10:35	59.1	63.2	49.2	59.3	08.5	 	75	N/A	Traffic, Birds
				10:40	59.4	63.5	49.5						
				10:45	60.0	64.1	50.1						
				10:20	61.5	65.5	49.0						
				10:25	68.3	72.3	46.6						
31 Jan 2023	C	0.0	94.1	10:30	55.8	60.0	43.6	60.6	68.5	<baseline level<="" td=""><td>75</td><td></td><td>m or m .</td></baseline>	75		m or m .
31 Jan 2023	Sunny	0.0	94.1	10:35	58.6	63.0	47.8	7.8	08.5	 daseiine Level	/5	N/A	Traffic, Touris
				10:40	60.3	64.4	48.8						
				10:45	57.2	61.3	46.2	1					

 $^{^{\}star}$ N/A refers to no major construction noise observed during noise monitoring



Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				13:00	56.3	58.5	46.1						
				13:05	54.0	55.9	45.7						
5 Jan 2023	Sunny	0.4	94.1	13:10	56.4	59.5	48.2	55.9	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
0 0011 2020	Guilly	0.1	04.1	13:15	55.5	58.4	46.3	35.3	02.0	CDascillic Ecvel	70	IVA	Hanne
				13:20	58.9	60.1	49.2						
				13:25	50.3	52.8	46.5						
				13:00	45.8	48.5	40.5						
				13:05	46.2	48.6	41.2						
12 Jan 2023	Cloudy	0.0	94.1	13:10	45.7	48.7	41.9	45.7	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
12 3411 2023	Oloddy	0.0	04.1	13:15	44.3	46.5	41.3				70	N/A	Hanne
				13:20	44.9	47.3	41.4						1
				13:25	46.6	49.0	41.6						
				13:00	51.7	54.5	43.9						
				13:05	54.4	57.2	46.6						
17 Jan 2023	Sunny	0.0	94.1	13:10	50.1	52.9	42.3	52.4	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	51.9	54.7	44.1				• •	1771	Tranic
				13:20	54.8	57.6	47.0						
				13:25	47.6	50.4	39.8						
				13:00	51.2	54.0	43.4						
				13:05	50.8	53.6	43.0						
27 Jan 2023	Sunny	0.5	94.1	13:10	49.8	52.6	42.0	50.2	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	50.3	53.1	42.5					17/11	Tiuric
				13:20	49.6	52.4	41.8						
				13:25	48.9	51.7	41.1						
				13:00	48.8	51.4	43.7						
				13:05	49.9	52.0	45.2	1					
31 Jan 2023	Sunny	0.0	94.1	13:10	47.0	49.9	42.9	48.8	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	31 Jan 2023 Sunny			13:15 48.3	51.0	43.5	3.5	62.3	<baseline level<="" td=""><td></td><td>1.771</td><td>Tarric .</td></baseline>		1.771	Tarric .	
				13:20	49.6	51.6	45.8						
				13:25	48.8	51.5	43.9						

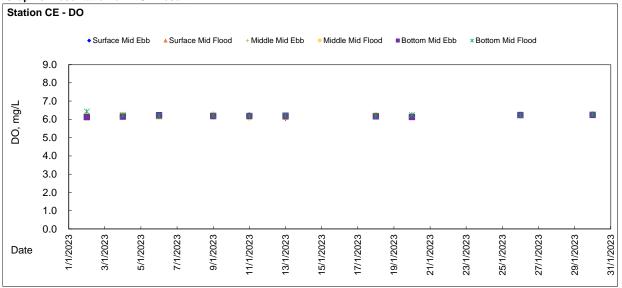
^{*} N/A refers to no major construction noise observed during noise monitoring

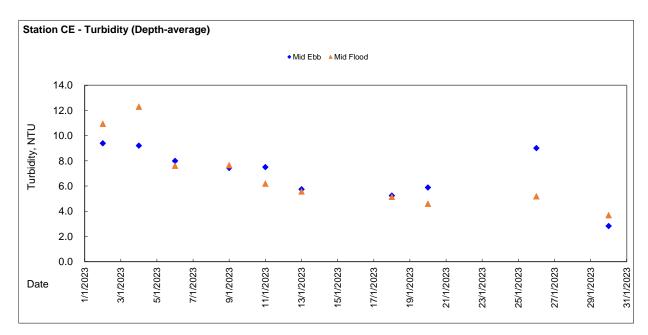
Appendix 4.4

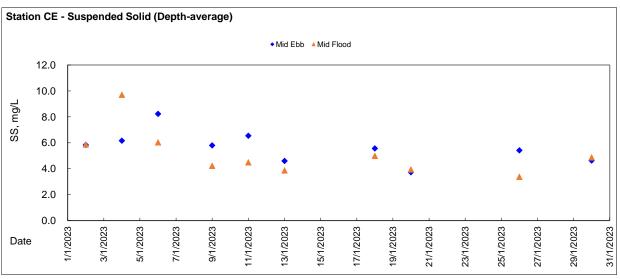
Marine Water Quality Monitoring Results and Graphical Presentations



Graphic Presentation of WQM Result



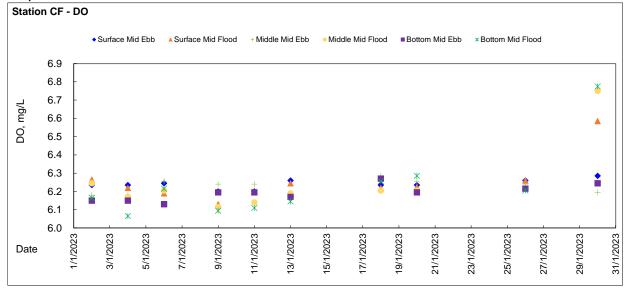


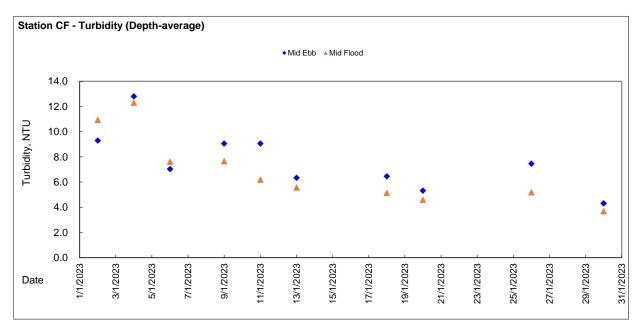


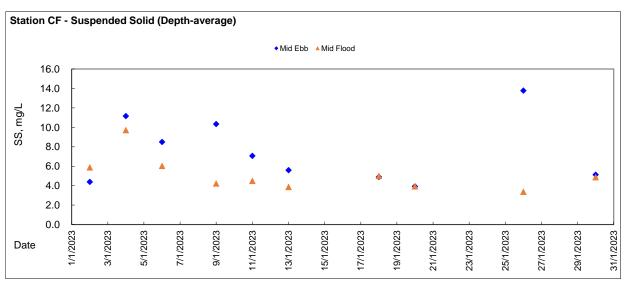


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)

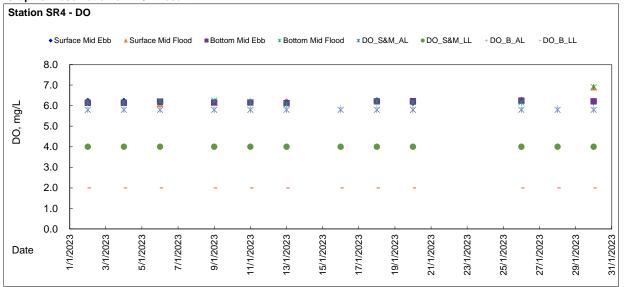


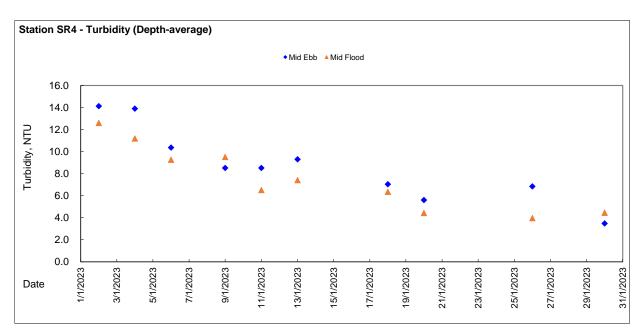


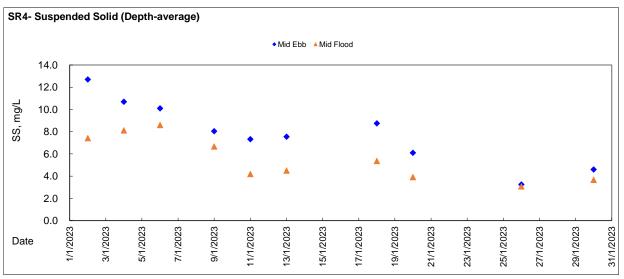




Graphic Presentation of WQM Result

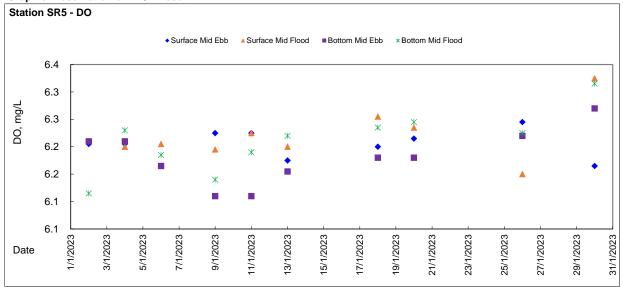


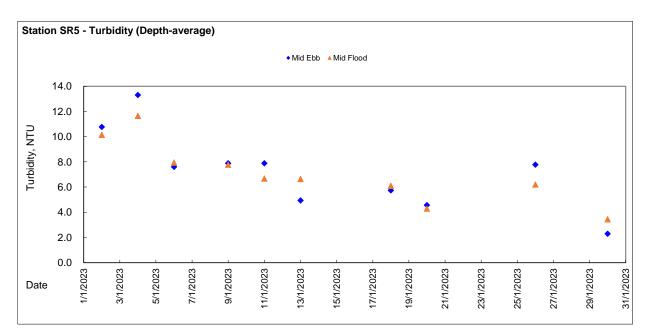


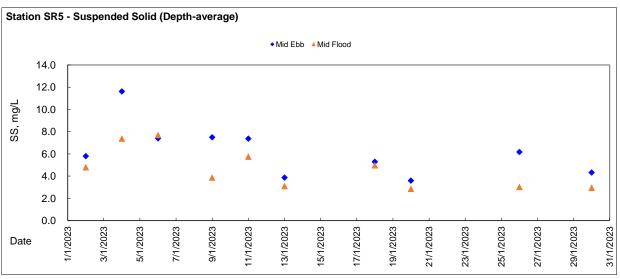




Graphic Presentation of WQM Result

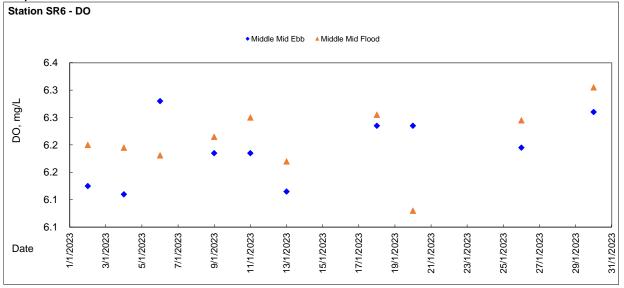


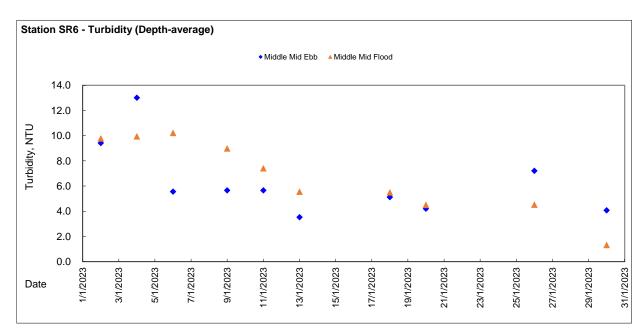


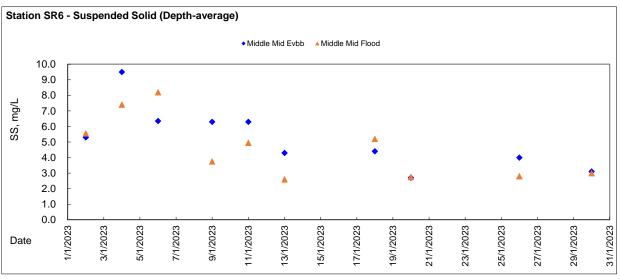


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)



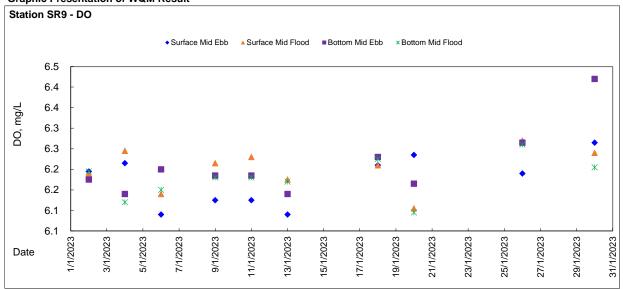


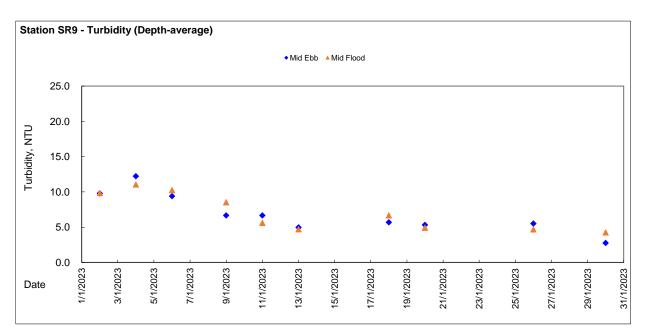


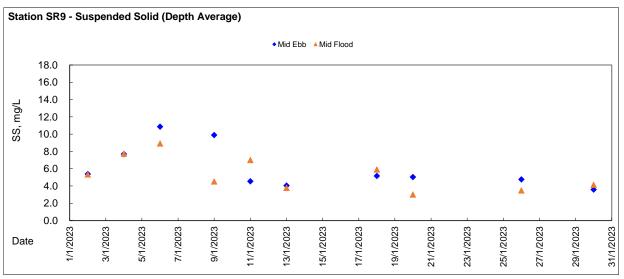




Graphic Presentation of WQM Result

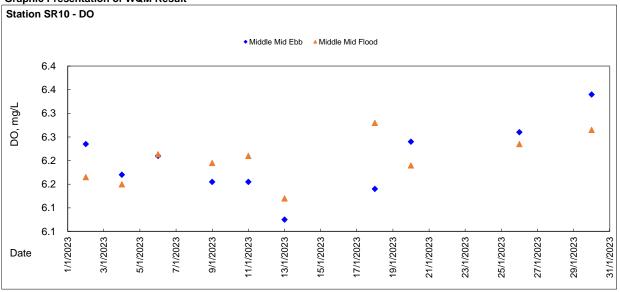


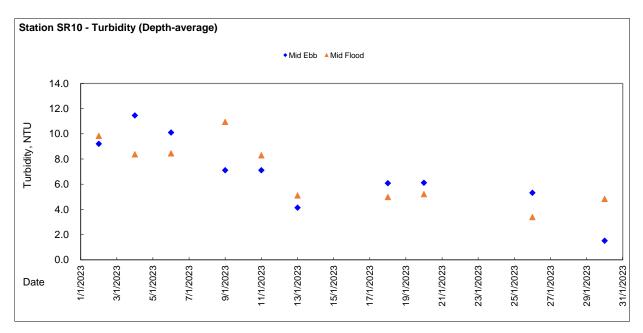


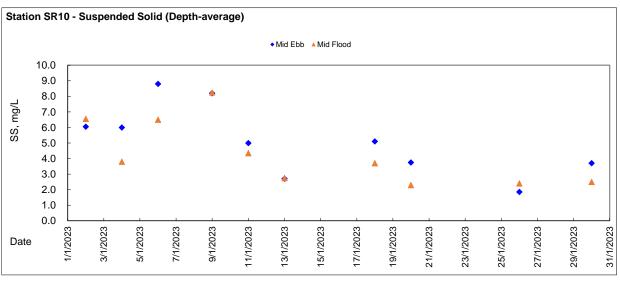






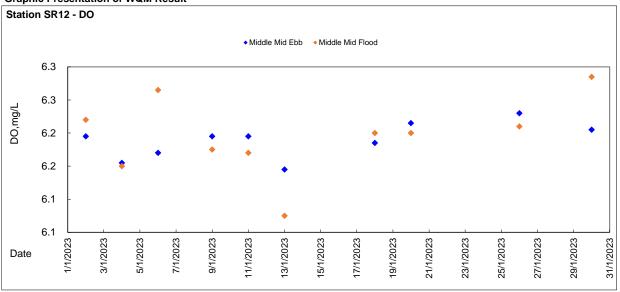


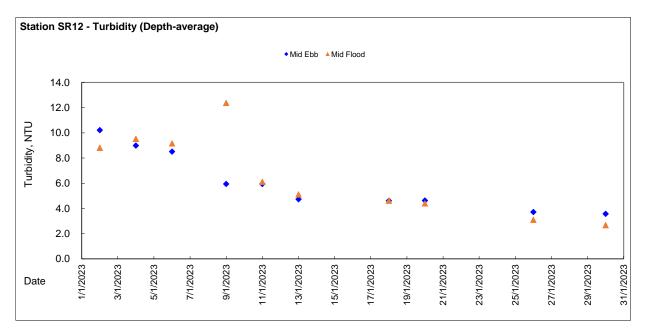


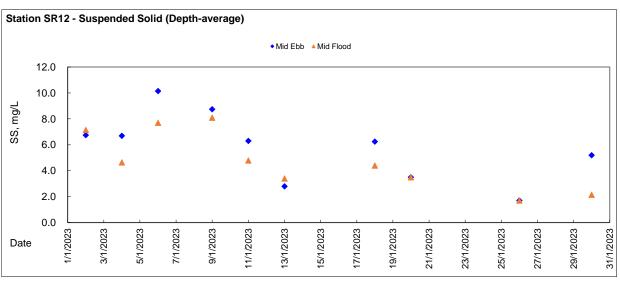




Graphic Presentation of WQM Result

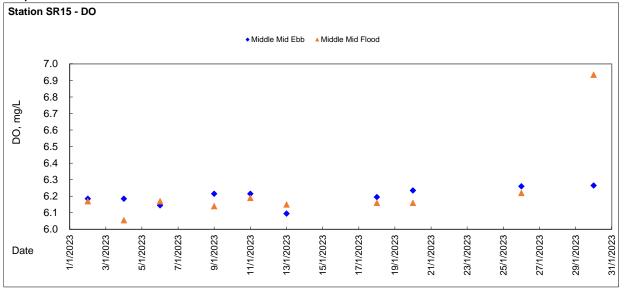


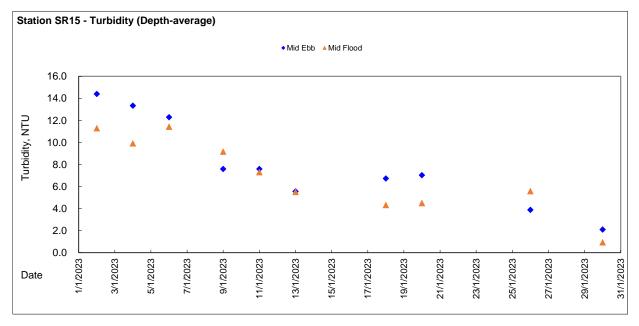


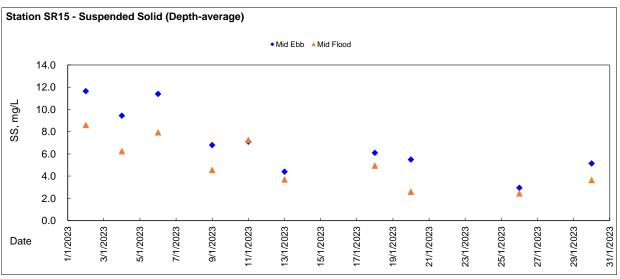


Associated Submarine Outfall and Pui O Sewerage Works - ET Services (2021 - 2022)











Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	H	Sali	nity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	C			pp	ot	9	%	mg		N'	TU	m	ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:25	3.6	1.0	17.80	17.80	8.09	8.09	32.70	32 70	79.40	78.60	6.29	6.23	13.87	13.61	13.0	13.
	2/1/2023	1 1110	9:26	3.6	1.0	17.80	17.00	8.09	0.03	32.70	32.70	77.80	70.00	6.16	0.23	13.35	13.01	13.4	15.
	4/1/2023	Cloudy	9:12	3.5	1.0	17.60	17 60	8.11	8 11	32.72	32 70	77.60	78.35	6.11	6.17	13.80	13.71	10.5	10.
	4/1/2023	Cidudy	9:13	3.5	1.0	17.60	17.60	8.11	0.11	32.68	32.70	79.10	70.33	6.23	0.17	13.62	13.71	10.1	10.
	6/1/2023	Fine	8:35	3.2	1.0	18.10	18 10	8.08	8.08	32.70	32 69	80.00	78.90	6.28	6 19	9.99	9.92	9.7	9.
	6/1/2023	FINE	8:36	3.2	1.0	18.10	10.10	8.08	0.00	32.68	32.09	77.80	70.90	6.09	0.19	9.85	9.92	9.5	9.
	9/1/2023	Cloudy	8:45	3.1	1.0	18.20	18.20	8.05	8.05	32.54	32.54	79.80	78.85	6.24	6.17	8.55	8.51	7.8	7.
	9/1/2023	Cioudy	8:46	3.1	1.0	18.20	10.20	8.05	0.00	32.54	32.34	77.90	70.00	6.09	0.17	8.47	0.51	7.4	,,
	11/1/2023	Cloudy	8:45	3.1	1.0	18.20	18.20	8.05	8.05	32.54	32 54	79.80	78.85	6.24	6.17	8.55	8.51	6.7	6.
	11/1/2023	Cidudy	8:46	3.1	1.0	18.20	10.20	8.05	0.05	32.54	32.34	77.90	70.00	6.09	0.17	8.47	0.51	6.2	6.
	13/1/2023	Cloudy	8:50	3.1	1.0	18.90	18.90	8.10	8 10	32.57	32.57	81.00	80.20	6.25	619	7.17	7.26	5.9	6.
SR4	13/1/2023		8:51	3.1	1.0	18.90	18.90	8.10	8.10	32.57	32.57	79.40	80.20	6.13	6.19	7.35	7.26	6.2	0.
384	16/1/2023	Strong Monsoon							WQM	was cancelle	ed due to ad	verse weath	er			•	•	•	
		Signal	10:49	3.2	1.0	16.70		8.10		32.46		77.10		0.00		5.53		9.7	
	18/1/2023	Fine				16.70	16.70		8.10		32.96		77.55	6.23	6.26		5.57	9.7	
			10:50	3.2	1.0			8.10		33.45		78.00				5.60			
	20/1/2023	Cloudy	9:01	3.3	1.0	17.30	17.25	8.07	8.07	32.45	32.45	77.80	77.05	6.20	6.13	5.70	5.65	5.7	5.
			9:02	3.3	1.0	17.20		8.06		32.44		76.30		6.06		5.59		5.4	
	26/1/2023	Fine	8:39	3.2	1.0	16.30	16.35	8.13	8.13	32.39	32.35	78.90	78.40	6.28	6.28	8.50	8.35	3.9	
		Strong	8:40	3.2	1.0	16.40		8.12		32.30		77.90		6.27		8.20		3.6	l
	28/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	9:06	3.1	1.0	16.10	16.05	8.21	8.22	32.30	32.31	76.30	76.20	6.20	6 19	1.76	1.89	3.7	4.
	30/1/2023	FINE	9:07	3.1	1.0	16.00	16.05	8.22	0.22	32.31	32.31	76.10	76.20	6.17	0.19	2.01	1.09	4.8	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

am

Lam Environmental Services Limited

Impact Water Quality Monitoring at Station SR4 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity	DO Sa	turation		0	Turk	bidity	9	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			р	pt	9	%	m	g/L	N'	TU	m	
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:46	3.3	1.0	18.30	18 30	8.15	8 15	32.76	32 75	78.30	79 15	6.11	6 17	11.56	11 48	7.2	7.1
	2 1/2020	1 1110	12:47	3.3	1.0	18.30	10.00	8.15	0.10	32.74	02.70	80.00	70.10	6.23	0.17	11.39	11.40	7.0	7.1
	4/1/2023	Cloudy	12:48	3.4	1.0	18.00	18.00	8.15	8 15	32.68	32 69	79.10	78.55	6.18	6.15	9.64	9.61	7.1	7.2
	4/1/2020	Cioudy	12:49	3.4	1.0	18.00	10.00	8.15	0.10	32.69	02.00	78.00	70.00	6.11	0.10	9.58	0.01	7.2	
	6/1/2023	Fine	12:48	3.3	1.0	18.60	18 60	8.14	8 14	32.65	32 66	77.40	78 10	6.00	6.09	9.61	9.60	7.4	7.6
	0/1/2020	1 1110	12:49	3.3	1.0	18.60	10.00	8.14	0.14	32.66	02.00	78.80	70.10	6.18	0.00	9.58	0.00	7.8	7.0
	9/1/2023	Cloudy	12:48	3.6	1.0	18.40	18.40	8.12	8 12	32.62	32.62	78.40	79.25	6.11	6.16	8.97	8.91	4.7	5.0
	U 1/2020	Cioudy	12:49	3.6	1.0	18.40	10.40	8.12	0.12	32.62	02.02	80.10	70.20	6.21	0.10	8.84	0.01	5.2	
	11/1/2023	Cloudy	12:49	3.4	1.0	18.40	18.40	8.16	8 16	32.54	32.54	80.20	79.40	6.28	6.22	7.04	7.15	3.4	3.5
	111112020	Cioday	12:50	3.4	1.0	18.40	10.40	8.16	0.10	32.54	02.04	78.60	70.40	6.15	0.11	7.25	7.10	3.6	0.0
	13/1/2023	Cloudy	12:48	3.5	1.0	19.20	19.20	8.14	8 14	32.53	32.54	81.30	80.75	6.24	6.21	6.80	6.83	3.2	3.1
SR4	10/1/2020		12:49	3.5	1.0	19.20	10.20	8.14	0.14	32.54	02.04	80.20	00.70	6.17	0.11	6.85	0.00	3.0	
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:47	3.4	1.0	17.40	17 40	8.15	8 15	32.45	32.95	78.80	78 10	6.28	6.22	4.93	4 97	4.0	4.2
	10/1/2023	1 1110	13:48	3.4	1.0	17.40	17.40	8.15	0.13	33.45	32.83	77.40	70.10	6.16	0.22	5.01	4.37	4.3	4.2
	20/1/2023	Cloudy	12:48	3.6	1.0	17.60	17.60	8.14	8 14	32.35	32.36	78.10	78.70	6.17	6.21	3.62	3.71	3.8	3.6
	20/1/2020	Cioday	12:49	3.6	1.0	17.60	17.00	8.14	0.14	32.36	02.00	79.30	70.70	6.25	0.11	3.80	0.71	3.4	
	26/1/2023	Fine	12:48	3.5	1.0	16.70	16.70	8.20	8.20	32.32	32.33	78.20	78.00	6.28	6.26	3.99	4.07	3.5	3.4
	20112020		12:49	3.5	1.0	16.70	10.70	8.20	0.20	32.33	02.00	77.80	70.00	6.24	0.10	4.15	4.01	3.3	
	28/1/2023	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:49	3.4	1.0	16.40	16.40	8.31	8.31	32.25	32.25	86.60	86.10	6.92	6.90	4.89	4.83	2.9	3.0
			12:50	3.4	1.0	16.40		8.30		32.24		85.60		6.87		4.77		3.1	

Impact Water Quality Monitoring at Station SR4 (Bottom) - Ebb Tide

	0		Sampling	Water	Sampling	Tempe	erature	F	Н	Sal	inity	DO Sa	turation	0	00	Turl	bidity	S	S
Station Reference	Sampling Date	Weather	Time	Depth	Depth	٥,	С		-	р	pt		%	m	g/L	N'	TU	mg	y/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:27	3.6	2.6	17.80	17.80	8.09	8.09	32.71	32.72	78.40	78.70	6.11	6 14	14.68	14.64	12.4	12.2
	2 1/2020	1 1110	9:28	3.6	2.6	17.80	17.00	8.09	0.00	32.73	02.72	79.00	70.70	6.17	0.14	14.59	14.04	12.0	
	4/1/2023	Cloudy	9:14	3.5	2.5	17.70	17 70	8.12	8 12	32.72	32 71	78.80	78 10	6.21	6 16	14.12	14 09	11.2	11.1
	4/1/2020	Cioday	9:15	3.5	2.5	17.70	17.70	8.12	0.12	32.70	02.71	77.40	70.10	6.11	0.10	14.05	14.00	11.0	
	6/1/2023	Fine	8:37	3.2	2.2	18.20	18 20	8.08	8.08	32.68	32 69	79.90	79.55	6.23	6.19	10.86	10.80	10.4	10.6
	0/1/2020	1 1110	8:38	3.2	2.2	18.20	10.20	8.08	0.00	32.70	02.00	79.20	70.00	6.15	0.10	10.74	10.00	10.8	
	9/1/2023	Cloudy	8:47	3.1	2.1	18.20	18 20	8.06	8.06	332.36	182 48	79.20	78.30	6.23	6 15	8.46	8.52	8.2	8.5
	0/1/2020	Cioday	8:48	3.1	2.1	18.20	10.20	8.06	0.00	32.60	102.40	77.40	70.00	6.07	0.10	8.57	0.02	8.8	
	11/1/2023	Cloudy	8:47	3.1	2.1	18.20	18.20	8.06	8.06	32.57	32.59	79.20	78.30	6.23	6.15	8.46	8.52	8.0	8.2
	111112020	Cioudy	8:48	3.1	2.1	18.20	10.20	8.06	0.00	32.60	02.00	77.40	70.00	6.07	0.10	8.57	0.02	8.4	
	13/1/2023	Cloudy	8:52	3.1	2.1	18.90	18.90	8.09	8.09	32.56	32.56	79.70	78.60	6.21	6.13	11.75	11.33	8.9	9.1
SR4	10/1/2020		8:53	3.1	2.1	18.90	10.50	8.09	0.00	32.56	02.00	77.50	70.00	6.04	0.10	10.91	11.00	9.2	
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ac	lverse weath	er						
	18/1/2023	Fine	10:51	3.2	2.2	16.50	16.50	8.10	8 10	31.77	31.78	77.00	76.95	6.28	6.22	8.54	8.51	7.6	7.8
	10/1/2023	1 1110	10:52	3.2	2.2	16.50	10.50	8.10	0.10	31.79	31.70	76.90	70.55	6.15	0.22	8.48	0.51	7.9	7.0
	20/1/2023	Cloudy	9:03	3.3	2.3	17.30	17.30	8.08	8.08	32.47	32 46	78.80	78.20	6.27	6.22	5.64	5 57	6.9	6.7
	20/1/2023	Cioudy	9:04	3.3	2.3	17.30	17.50	8.08	0.00	32.45	32.40	77.60	70.20	6.17	0.22	5.49	3.37	6.4	0.7
	26/1/2023	Fine	8:41	3.2	2.2	16.10	16.05	8.14	8 14	32.37	32 37	76.50	76.90	6.22	6.25	5.27	5.34	2.9	2.8
	20/1/2023		8:42	3.2	2.2	16.00	10.03	8.14	0.14	32.37	32.37	77.30	70.50	6.27	0.23	5.40	3.34	2.6	2.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ac	verse weath	er						
	30/1/2023	Fine	9:08 9:09	3.1 3.1	2.1 2.1	16.20 16.20	16.20	8.23 8.23	8.23	32.31 32.30	32.31	76.90 76.50	76.70	6.23 6.20	6.22	5.10 5.02	5.06	4.8 5.1	5.0

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Lam Environmental Services Limited

Contract No. NE/2017/03 Development of Anderson Road Quarry Site Road Improvement Works

Impact Water Quality Monitoring at Station SR4 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Tempe	erature	F	Н	Sali	nity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	°(С			pi			%	mg		N'	TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:48	3.3	2.3	18.20	18 20	8.16	8 16	32.74	32 74	79.40	78.75	6.20	616	13.87	13.73	7.9	7.8
	2/1/2023	1 1110	12:49	3.3	2.3	18.20	10.20	8.16	0.10	32.73	32.74	78.10	70.75	6.11	0.10	13.58	13.73	7.6	7.0
	4/1/2023	Cloudy	12:50	3.4	2.4	18.00	18.00	8.15	8 15	32.69	32.71	77.40	78.30	6.07	6.16	12.81	12.77	9.0	9.1
	4/1/2023	Cioudy	12:51	3.4	2.4	18.00	10.00	8.15	0.13	32.72	32.71	79.20	70.30	6.24	0.10	12.72	12.77	9.2	0.1
	6/1/2023	Fine	12:50	3.3	2.3	18.50	18 50	8.14	8 14	32.67	32 68	80.90	80.05	6.29	6.23	8.96	8.92	9.4	9.6
	0/1/2023	1 1110	12:51	3.3	2.3	18.50	10.50	8.14	0.14	32.68	32.00	79.20	00.00	6.16	0.23	8.87	0.52	9.8	5.0
	9/1/2023	Cloudy	12:50	3.6	2.6	18.13	18 13	8.13	8 13	32.64	32 64	80.60	80 15	6.29	6.26	10.14	10 11	8.2	8.4
	3/1/2023	Cioudy	12:51	3.6	2.6	18.13	10.13	8.13	0.13	32.64	32.04	79.70	00.13	6.22	0.20	10.07	10.11	8.6	0.4
	11/1/2023	Cloudy	12:51	3.4	2.4	18.40	18.40	8.13	8.13	32.57	32.57	78.20	79.25	6.10	6.17	5.89	5.89	5.1	4.9
	11/1/2023	Cioudy	12:52	3.4	2.4	18.40	10.40	8.13	0.13	32.56	32.31	80.30	15.25	6.24	0.17	5.88	3.05	4.7	4.5
	13/1/2023	Cloudy	12:50	3.5	2.5	19.00	19.00	8.13	8 13	32.58	32.58	79.50	78.50	6.15	6.08	8.01	8.00	6.0	5.9
SR4	13/1/2023		12:51	3.5	2.5	19.00	15.00	8.13	0.13	32.58	32.30	77.50	70.30	6.01	0.00	7.98	0.00	5.8	0.0
0114	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:49	3.4	2.4	17.40	17.40	8.15	8 15	32.48	32.49	78.90	78.10	6.27	6.21	7.77	7.73	6.8	6.6
	10/1/2023	FINE	13:50	3.4	2.4	17.40	17.40	8.15	0.15	32.49	32.49	77.30	70.10	6.15	0.21	7.68	1.13	6.4	0.0
	20/1/2023	Cloudy	12:50	3.6	2.6	17.70	17.70	8.15	8.15	32.41	32.41	79.10	78.35	6.22	6.18	5.20	5.15	4.4	4.3
	20/1/2023	Cioudy	12:51	3.6	2.6	-	17.70	8.14	0.15	-	32.41	77.60	70.33	6.13	0.10	5.10	5.15	4.1	4.5
	26/1/2023	Fine	12:50	3.5	2.5	16.90	16.85	8.20	8.20	32.31	32 32	77.30	76.75	6.18	6.15	3.82	3.86	2.9	2.8
	20/1/2023		12:51	3.5	2.5	16.80	10.00	8.20	0.20	32.33	32.32	76.20	70.73	6.12	0.13	3.90	3.00	2.6	2.0
	28/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er				•		•
	30/1/2023	Fine	12:51 12:52	3.4	2.4	16.20 16.30	16.25	8.33 8.32	8.33	32.32 32.33	32.33	86.70 86.20	86.45	6.91	6.91	4.01 4.12	4.07	4.2 4.5	

Impact Water Quality Monitoring at Station SR5 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turk	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С		-	р	ppt		%	m	g/L	N'	TU	m	g/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:35	4.2	1.0	18.40	18.40	8.10	8 10	32.69	32.70	86.80	82.80	6.26	6.21	10.86	10.77	5.3	5.5
	2/1/2023	1 1110	9:36	4.2	1.0	18.40	10.40	8.10	0.10	32.70	32.70	78.80	02.00	6.15	0.21	10.68	10.77	5.6	0.0
	4/1/2023	Cloudy	9:22	4.4	1.0	17.60	17 60	8.11	8 11	32.66	32 66	77.70	78.40	6.18	6.23	13.87	13.71	11.3	11.1
	4/1/2023	Cioudy	9:23	4.4	1.0	17.60	17.00	8.11	0.11	32.66	32.00	79.10	70.40	6.27	0.23	13.54	13.71	10.9	
	6/1/2023	Fine	8:47	4.2	1.0	18.30	18.30	8.09	8.09	32.61	32 62	78.50	79 15	6.11	6.17	6.99	6.89	7.1	7.0
	0/1/2023	1 1110	8:48	4.2	1.0	18.30	10.50	8.09	0.05	32.63	32.02	79.80	75.13	6.22	0.17	6.78	0.03	6.8	1.0
	9/1/2023	Cloudy	8:55	3.9	1.0	18.20	18.20	8.06	8.06	32.50	32.51	79.00	79.60	6.18	6.23	6.93	6.88	6.7	6.5
	8/1/2023	Cioudy	8:56	3.9	1.0	18.20	10.20	8.06	0.00	32.52	32.31	80.20	75.00	6.27	0.23	6.83	0.00	6.2	0.0
	11/1/2023	Cloudy	8:55	3.9	1.0	18.20	18.20	8.06	8.06	32.50	32.51	79.00	79.60	6.18	6.23	6.93	6.88	6.2	6.1
	111112020	Cioudy	8:56	3.9	1.0	18.20	10.20	8.06	0.00	32.52	02.01	80.20	70.00	6.27	0.20	6.83	0.00	5.9	0.1
	13/1/2023	Cloudy	8:57	3.8	1.0	19.00	19.00	8.09	8.09	32.59	32 60	80.50	79.90	6.28	6.18	3.34	3.42	3.6	3.4
SR5	13/1/2023		8:58	3.8	1.0	19.00	15.00	8.09	0.05	32.60	32.00	79.30	75.50	6.07	0.10	3.50	3.42	3.2	0.4
O.O.	16/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	lverse weath	er						
	18/1/2023	Fine	10:57	4.1	1.0	17.10	17.10	8.11	8 11	32.48	32 49	78.50	78.05	6.24	6.20	5.07	5.10	5.7	5.9
	10/1/2023	FILLE	10:58	4.1	1.0	17.10	17.10	8.10	0.11	32.50	32.49	77.60	70.05	6.16	6.20	5.13	5.10	6.0	3.5
	20/1/2023	Cloudy	9:07	4.3	1.0	17.30	17.25	8.08	8.08	32.35	32.36	77.50	77.95	6.17	6.22	3.96	4.03	2.7	2.9
	20/1/2023	Cioudy	9:08	4.3	1.0	17.20	17.20	8.07	0.00	32.37	32.30	78.40	11.55	6.26	0.22	4.10	4.03	3.0	2.0
	26/1/2023	Fine	8:45	3.9	1.0	16.70	16.70	8.13	8 13	32.34	32.34	77.80	77.40	6.28	6.25	5.40	5.40	5.2	5.0
	20/1/2023		8:46	3.9	1.0	16.70	10.70	8.13	0.13	32.33	32.34	77.00	77.40	6.21	0.23	5.39	3.40	4.8	0.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	er						
	30/1/2023	Fine	9:15 9:16	4.0	1.0	16.20 16.10	16.15	8.24 8.23	8.24	32.27 32.26	32.27	75.90 76.20	76.05	6.15 6.18	6.17	2.65 2.76	2.71	3.8 3.5	3.7

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR5 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turt	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt	9	%	mg		N'	TU	n	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:38	4.0	1.0	18.40	18.40	8.14	8 14	32.75	32.75	80.30	79.70	6.27	6.21	9.75	9.72	5.6	5.4
	2/1/2023	1 1110	12:39	4.0	1.0	18.40	10.40	8.14	0.14	32.75	32.73	79.10	75.70	6.15	0.21	9.68	5.12	5.2	0.
	4/1/2023	Cloudy	12:39	4.6	1.0	18.00	18.00	8.15	8.15	32.64	32.63	77.40	78.50	6.14	6.20	12.42	12.36	6.9	6.7
	4/1/2023	Cioudy	12:40	4.6	1.0	18.00	10.00	8.15	0.13	32.62	32.03	79.60	70.30	6.26	0.20	12.29	12.50	6.5	0.1
	6/1/2023	Fine	12:38	4.3	1.0	18.70	18.70	8.14	8 14	32.65	32 65	79.70	80.15	6.18	6.21	9.68	8.71	6.6	6.4
	0/1/2023	1 1110	12:39	4.3	1.0	18.70	10.70	8.14	0.14	32.64	32.00	80.60	00.13	6.23	0.21	7.73	0.71	6.2	0.4
	9/1/2023	Cloudy	12:39	4.3	1.0	18.40	18.40	8.14	8 14	32.63	32 63	80.00	79.55	6.24	6.20	8.35	8.41	3.4	3.2
	8/1/2023	Cioudy	12:40	4.3	1.0	18.40	10.40	8.14	0.14	32.63	32.03	79.10	18.33	6.15	0.20	8.46	0.41	3.0	0.1
	11/1/2023	Cloudy	12:39	4.4	1.0	18.40	18 40	8.12	8.12	32.57	32.57	80.70	80.00	6.28	6.23	6.04	6.09	4.8	4.6
	11/1/2023	Cidudy	12:40	4.4	1.0	18.40	10.40	8.12	0.12	32.57	32.51	79.30	80.00	6.17	0.23	6.13	6.09	4.3	4.0
	13/1/2023	Cloudy	12:38	4.2	1.0	19.30	19.30	8.12	8.12	32.51	32.52	81.60	81.00	6.25	6.20	7.80	7.85	2.7	2.7
SR5	13/1/2023		12:39	4.2	1.0	19.30	15.50	8.12	0.12	32.53	32.32	80.40	01.00	6.15	0.20	7.89	7.00	2.6	
Oito	16/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:38	4.4	1.0	17.80	17.80	8.13	8 13	32.50	32.51	79.30	79.65	6.23	6.26	6.48	6.49	4.4	4.6
	18/1/2023	Fine	13:39	4.4	1.0	17.80	17.80	8.13	8.13	32.51	32.51	80.00	79.65	6.28	6.26	6.50	6.49	4.7	4.0
	20/1/2023	Cloudy	12:38	4.5	1.0	17.70	17 65	8.14	8 15	32.42	32 42	78.20	78.90	6.19	6.24	5.47	5.38	2.4	2.5
	20/1/2023	Cioudy	12:39	4.5	1.0	17.60	17.00	8.15	0.15	32.42	32.42	79.60	70.90	6.28	0.24	5.29	5.30	2.6	2.5
	26/1/2023	Fine	12:39	4.4	1.0	17.00	17.00	8.18	8.18	32.31	32.32	76.50	76.15	6.22	6.15	6.95	6.89	3.3	3.4
	20/1/2023		12:40	4.4	1.0	17.00	17.00	8.17	0.10	32.32	32.32	75.80	76.15	6.08	0.15	6.83	0.09	3.4	3.4
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:40	4.5	1.0	16.40	16.40	8.29	8 29	32.32	32.32	77.60	77.80	6.31	6.33	2.71	2 70	2.4	2.3
	00/1/2020		12:41	4.5	1.0	16.40	10.40	8.28	0.25	32.32	32.32	78.00	77.00	6.34	0.55	2.68	2.70	2.2	2.0

Impact Water Quality Monitoring at Station SR5 (Bottom) - Ebb Tide

	0		Sampling	Water	Sampling	Tempe	erature	F	Н	Sal	inity	DO Sa	turation		0	Turl	bidity	S	s
Station Reference	Sampling Date	Weather	Time	Depth	Depth	٥,	С		-	р	pt		%	m	g/L	N'	TU	mg	y/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:38	4.2	3.2	18.30	18.30	8.11	8 11	32.74	32.74	78.20	79.40	6.13	6.21	10.90	10.77	6.3	6.2
	2/1/2023	1 1110	9:39	4.2	3.2	18.30	10.50	8.11	0.11	32.73	32.74	80.60	75.40	6.29	0.21	10.63	10.77	6.0	
	4/1/2023	Cloudy	9:25	4.4	3.4	17.60	17 60	8.12	8 12	32.70	32 69	79.00	78.55	6.23	619	12.98	12.92	12.3	12.2
	4/ 1/2020	Oloudy	9:26	4.4	3.4	17.60	17.00	8.12	0.12	32.68	02.00	78.10	70.00	6.15	0.10	12.85	12.02	12.0	
	6/1/2023	Fine	0:00	4.2	3.2	18.30	18.30	8.10	8 10	32.67	32.69	79.70	79.25	6.20	6.17	8.19	8.32	7.7	7.9
	G 1/2020	1 1110	0:01	4.2	3.2	18.30	10.00	8.10	0.10	32.70	02.00	78.80	70.20	6.13	0.17	8.45	0.02	8.0	
	9/1/2023	Cloudy	8:57	3.9	2.9	18.30	18.30	8.07	8.07	32.53	32.54	78.70	77.75	6.17	611	8.85	8 89	8.4	8.6
	5/ 1/2025	Oloudy	8:58	3.9	2.9	18.30	10.00	8.07	0.07	32.55	02.04	76.80	77.70	6.05	0.11	8.93	0.00	8.7	
	11/1/2023	Cloudy	8:57	3.9	2.9	18.30	18.30	8.07	8.07	32.53	32.54	78.70	77 75	6.17	611	8.85	8 89	8.9	8.7
	11/1/2023	Cioudy	8:58	3.9	2.9	18.30	10.50	8.07	0.07	32.55	32.34	76.80	11.13	6.05	0.11	8.93	0.05	8.5	
	13/1/2023	Cloudy	8:59	3.8	2.8	18.90	18.90	8.10	8 10	32.57	32.57	77.60	79.15	6.06	6.16	6.66	6.45	4.6	4.4
SR5	10/1/2020		9:00	3.8	-1.0	18.90	10.50	8.10	0.10	32.56	02.07	80.70	70.10	6.25	0.10	6.23	0.40	4.1	
	16/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	11:00	4.1	3.1	17.10	17.10	8.06	8.07	32.57	32.54	78.10	77.50	6.22	6.18	6.32	6.36	4.6	4.8
	10/1/2023	FINE	11:01	4.1	3.1	17.10	17.10	8.07	8.07	32.50	32.54	76.90	77.50	6.14	0.10	6.40	0.30	4.9	4.0
	20/1/2023	Cloudy	9:10	4.3	3.3	17.50	17.50	8.10	8 10	32.41	32.42	78.60	77.80	6.23	6.18	5.06	5 10	4.1	4.4
	20/1/2023	Cioudy	9:11	4.3	3.3	17.50	17.50	8.10	0.10	32.42	32.42	77.00	77.00	6.13	0.10	5.13	3.10	4.6	4.4
	26/1/2023	Fine	8:47	3.9	2.9	16.80	16.80	8.13	8 13	32.31	32.32	77.90	77.15	6.27	6.22	10.25	10.15	7.5	7.4
	20/1/2023		8:48	3.9	2.9	16.80	10.00	8.13	0.13	32.32	32.32	76.40	77.13	6.17	0.22	10.05	10.13	7.2	
	28/1/2023	Strong Monsoon Signal					•	•	WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	9:18	4.0	3.0	16.20	16.20	8.25	8 25	32.32	32.33	77.20	77 40	6.25	6.27	1.76	1.87	5.2	5.0
	2020		9:19	4.0	3.0	16.20	.0.20	8.24	0.20	32.33	32.00	77.60	.7.40	6.29	01.	1.98	1.07	4.8	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR5 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	р	Н	Sal	inity	DO Sa	turation	D	0	Turt	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	٩				р			6		g/L		TU	mg	
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:41	4.0	3.0	18.30	18.30	8.15	8 15	32.74	32 74	77.70	78.35	6.06	6.12	10.63	10.58	4.4	4.2
	2 1/2020	1 1110	12:42	4.0	3.0	18.30	10.00	8.15	0.10	32.74	02.74	79.00	70.00	6.17	0.12	10.52	10.00	4.0	7.2
	4/1/2023	Cloudy	12:42	4.6	3.6	18.00	18.00	8.15	8.15	32.72	32 71	81.10	80.05	6.26	6.23	10.89	10.96	8.2	8.1
	4/1/2023	Cioudy	12:43	4.6	3.6	18.00	10.00	8.15	0.13	32.69	32.71	79.00	00.00	6.20	0.23	11.02	10.50	7.9	0.1
	6/1/2023	Fine	12:41	4.3	3.3	18.60	18.60	8.15	8 15	32.65	32 65	80.20	79.75	6.23	6.19	7.15	7 18	8.8	9.0
	0/1/2020	1 1110	12:42	4.3	3.3	18.60	10.00	8.15	0.10	32.65	02.00	79.30	70.70	6.14	0.10	7.20	7.10	9.2	0.0
	9/1/2023	Cloudy	12:42	4.3	3.3	18.20	18 20	8.14	8 14	32.66	32 66	78.00	78 65	6.09	6 14	7.04	7 14	4.7	4.6
	8/1/2023	Cioudy	12:43	4.3	3.3	18.20	10.20	8.14	0.14	32.66	32.00	79.30	70.05	6.19	0.14	7.24	7.14	4.4	4.0
	11/1/2023	Cloudy	12:42	4.4	3.4	18.40	18 40	8.13	8 13	32.56	32.57	80.20	79.25	6.23	6.19	7.31	7.25	6.8	7.0
	11/1/2023	Cioudy	12:43	4.4	3.4	18.40	10.40	8.13	0.13	32.57	32.31	78.30	15.25	6.15	0.15	7.19	1.23	7.1	1.0
	13/1/2023	Cloudy	12:41	4.2	3.2	19.40	19.40	8.13	8 13	32.45	32 46	81.20	82.00	6.15	6.22	5.40	5 43	3.4	3.6
SR5	13/1/2023		12:42	4.2	3.2	19.40	15.40	8.13	0.13	32.46	32.40	82.80	02.00	6.29	0.22	5.46	3.43	3.7	0.0
Olto	16/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ac	verse weath	er						
	18/1/2023	Fine	13:41	4.4	3.4	17.60	17 60	8.13	8 13	32.47	32 48	79.10	78.40	6.29	6.24	5.71	5.73	5.6	5.4
	10/1/2023	FILLE	13:42	4.4	3.4	17.60	17.00	8.13	0.13	32.49	32.40	77.70	70.40	6.18	0.24	5.74	5.73	5.2	5.4
	20/1/2023	Cloudy	12:41	4.5	3.5	17.60	17.60	8.14	8 14	32.41	32 41	78.50	78.95	6.20	6.25	3.10	3.20	3.0	3.2
	20/1/2023	Cioudy	12:42	4.5	3.5	17.60	17.00	8.14	0.14	32.40	32.41	79.40	70.95	6.29	0.23	3.30	3.20	3.4	5.2
	26/1/2023	Fine	12:42	4.4	3.4	16.90	16.90	8.18	8 18	32.34	32 35	78.00	77.35	6.27	6.23	5.53	5.51	2.8	2.7
	20/1/2023		12:43	4.4	3.4	16.90	10.50	8.18	0.10	32.35	32.30	76.70	11.33	6.18	0.23	5.48	3.31	2.6	2.1
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ac	verse weath	er						
	30/1/2023	Fine	12:43	4.5	3.5	16.20	16.25	8.29	8.29	32.32	32.32	77.70	77.75	6.30	6.32	4.13	4.20	3.8	3.6
			12:44	4.5	3.5	16.30		8.28		32.32		77.80		6.33		4.27		3.4	

Impact Water Quality Monitoring at Station SR6 (Middle) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	C			р	pt	9	%	m	g/L	N'	TU	m	ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:43	2.5	1.3	18.40	18 40	8.12	8 12	32.73	32.72	79.50	78.45	6.20	6.13	9.35	9.42	5.4	5.3
	2/1/2023	1 110	9:44	2.5	1.3	18.40	10.40	8.12	0.12	32.70	32.72	77.40	70.43	6.05	0.13	9.48	5.42	5.2	0.0
	4/1/2023	Cloudy	9:30	2.6	1.3	17.60	17 60	8.12	8 12	32.65	32 66	76.70	77 45	6.08	6.13	13.20	13.01	9.4	9.5
	4/1/2020	Cioday	9:31	2.6	1.3	17.60	17.00	8.12	0.12	32.67	02.00	78.20	77.40	6.18	0.10	12.81	10.01	9.6	0.0
	6/1/2023	Fine	8:57	2.6	1.3	18.30	18.30	8.11	8 11	32.70	32 71	80.00	80.45	6.28	6.28	5.91	5.56	6.2	6.4
	0/1/2023	1 110	8:58	2.6	1.3	18.30	10.50	8.11	0.11	32.71	32.71	80.90	00.43	6.28	0.20	5.20	3.30	6.5	0.4
	9/1/2023	Cloudy	9:02	2.6	1.3	18.20	18.20	8.08	8.08	32.54	32 54	79.78	78.84	6.28	619	5.54	5.66	6.4	6.3
	8/1/2023	Cioudy	9:03	2.6	1.3	18.20	10.20	8.08	0.00	32.54	32.34	77.90	70.04	6.09	0.15	5.78	3.00	6.2	0.0
	11/1/2023	Cloudy	9:02	2.6	1.3	18.20	18.20	8.08	8.08	32.54	32.54	79.80	78.85	6.28	6.19	5.54	5.66	6.4	6.3
	11/1/2023	Cloudy	9:03	2.6	1.3	18.20	10.20	8.08	0.00	32.54	32.54	77.90	70.00	6.09	0.19	5.78	5.00	6.2	0.5
	13/1/2023	Cloudy	9:07	2.2	1.1	19.10	19.10	8.10	8 10	32.54	32.54	78.00	79.05	6.06	6.12	3.50	3.52	4.1	4.3
SR6	13/1/2023		9:08	2.2	0.0	19.10	15.10	8.10	0.10	32.54	32.34	80.10	75.00	6.17	0.12	3.54	3.32	4.5	4.0
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	11:04	2.5	1.3	17.20	17 20	8.11	8.12	32.51	32.53	79.10	78.40	6.27	6.24	5.14	5.12	4.6	4.4
	18/1/2023	Fine	11:05	2.5	1.3	17.20	17.20	8.12	8.12	32.54	32.53	77.70	78.40	6.20	6.24	5.10	5.12	4.2	4.4
	20/1/2023	Cloudy	9:18	2.5	1.3	17.40	17 45	8.11	8 11	32.43	32 43	77.60	78.35	6.19	6.24	4.10	4 20	2.8	2.7
	20/1/2023	Cloudy	9:19	2.5	1.3	17.50	17.45	8.10	0.11	32.43	32.43	79.10	70.33	6.28	0.24	4.30	4.20	2.6	2.7
	26/1/2023	Fine	8:53	2.4	1.2	16.70	16.65	8.14	8 14	32.33	32 34	77.00	76.45	6.23	6.20	7.21	7.21	4.2	4.0
	20/1/2023		8:54	2.4	1.2	16.60	10.00	8.14	0.14	32.34	32.34	75.90	70.43	6.16	0.20	7.20	1.21	3.8	4.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er			•		•	•
	30/1/2023	Fine	9:26 9:27	2.4	1.2	16.10 16.10	16.10	8.25 8.24	8.25	32.34 32.34	32.34	77.60 77.00	77.30	6.28 6.24	6.26	4.10 4.05	4.08	3.3 2.9	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR6 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С		-		pt		%	m		N'	TU		ıg/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:29	2.4	1.2	18.50	18.50	8.12	8.12	32.75	32.75	80.50	79.45	6.29	6.20	9.73	9.78	5.5	5.6
	2 1/2020	1 1110	12:30	2.4	1.2	18.50	10.00	8.11	0.12	32.74	02.70	78.40	70.40	6.11	0.10	9.82	0.70	5.6	0.0
	4/1/2023	Cloudy	12:30	2.5	1.3	18.00	18.00	8.15	8 15	32.69	32 71	81.10	79.55	6.26	6.20	9.90	9 94	7.3	7.4
	4/1/2023	Cioudy	12:31	2.5	1.3	18.00	10.00	8.15	0.13	32.73	32.71	78.00	18.55	6.13	0.20	9.98	3.54	7.5	1.4
	6/1/2023	Fine	12:29	2.8	1.4	18.50	18.50	8.14	8 14	32.68	32 69	80.40	79.65	6.23	6.18	10.15	10.22	8.0	8.2
	0/1/2023	1 1110	12:30	2.8	1.4	18.50	10.50	8.14	0.14	32.70	32.05	78.90	75.00	6.13	0.10	10.28	10.22	8.4	0.2
	9/1/2023	Cloudy	12:30	2.7	1.4	18.40	18.40	8.13	8 13	32.64	32 65	80.80	79.90	6.29	6.22	8.97	8.98	3.7	3.8
	9/1/2023	Cidudy	12:31	2.7	1.4	18.40	10.40	8.13	0.13	32.65	32.03	79.00	79.90	6.14	0.22	8.99	0.90	3.8	3.0
	11/1/2023	Cloudy	12:31	2.8	1.4	18.50	18.50	8.12	8.12	32.56	32.56	79.20	79.70	6.23	6.25	7.46	7.40	5.1	5.0
	11/1/2023	Cioudy	12:32	2.8	1.4	18.50	10.50	8.12	0.12	32.56	32.30	80.20	15.10	6.27	0.23	7.34	7.40	4.8	
	13/1/2023	Cloudy	12:29	2.5	1.3	19.40	19.40	8.14	8 14	32.58	32.58	81.20	80.50	6.25	6.17	5.53	5.55	2.6	2.6
SR6	13/1/2023		12:30	2.5	1.3	19.40	19.40	8.14	0.14	32.57	32.30	79.80	60.50	6.09	0.17	5.57	5.55	2.6	2.0
	16/1/2023	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:29	2.7	1.4	17.70	17.70	8.11	8 11	32.34	32.35	79.10	79.50	6.23	6.26	5.53	5.50	5.0	5.2
	10/1/2023	FINE	13:30	2.7	1.4	17.70	17.70	8.11	0.11	32.35	32.33	79.90	79.50	6.28	0.20	5.46	5.50	5.4	5.2
	20/1/2023	Cloudy	12:29	2.8	1.4	17.60	17 65	8.12	8 12	32.45	32 45	77.30	76.75	6.13	6.08	4.51	4.50	2.6	2.8
	20/1/2023	Ciouay	12:30	2.8	1.4	17.70	17.65	8.12	8.12	32.45	32.45	76.20	/6./5	6.03	6.08	4.48	4.50	2.9	2.0
	26/1/2023	Fine	12:31	2.6	1.3	16.80	16.85	8.17	8 17	32.24	32 25	77.10	77.35	6.22	6.25	4.50	4.52	2.6	2.8
	20/1/2023		12:32	2.6	1.3	16.90	10.00	8.17	0.17	32.26	32.23	77.60	11.35	6.27	0.23	4.54	4.52	3.0	2.0
	28/1/2023	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:30 12:31	2.6	1.3	16.60 16.50	16.55	8.26 8.26	8.26	32.30 32.31	32.31	77.40 77.80	77.60	6.29	6.31	1.28	1.32	3.2	



Impact Water Quality Monitoring at Station SR9 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turi	bidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	٩	С			р	pt		%	m	g/L	N'	TU	me	g/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:53	4.1	1.0	18.50	18.50	8.13	8 13	32.71	32.71	80.40	79.60	6.27	6.20	10.87	10.73	5.8	6.0
	2/1/2023	1 1110	9:54	4.1	1.0	18.50	10.50	8.13	0.13	32.70	32.71	78.80	75.00	6.12	0.20	10.59	10.73	6.1	0.0
	4/1/2023	Cloudy	9:41	4.4	1.0	17.50	17.50	8.14	8 14	32.69	32 69	79.30	78 70	6.26	6.22	11.67	11.58	6.8	6.6
	4/1/2023	Cioudy	9:42	4.4	1.0	17.50	17.50	8.14	0.14	32.68	32.05	78.10	70.70	6.17	0.22	11.48	11.50	6.4	0.0
	6/1/2023	Fine	9:09	4.2	1.0	18.30	18.30	8.12	8 12	32.67	32 68	78.80	78 10	6.14	6.09	9.14	9 21	10.6	10.4
	0/1/2023	1 1110	9:10	4.2	1.0	18.30	10.50	8.12	0.12	32.69	32.00	77.40	70.10	6.04	0.03	9.28	5.21	10.2	10.4
	9/1/2023	Cloudy	9:17	4.0	1.0	18.20	18 20	8.10	8 10	32.33	32 34	79.80	78.65	6.17	6.13	5.09	5 20	9.4	9.5
	0/1/2020	Oloudy	9:18	4.0	1.0	18.20	10.20	8.10	0.10	32.34	02.04	77.50	70.00	6.08	0.10	5.30	0.20	9.6	0.0
	11/1/2023	Cloudy	9:17	4.0	1.0	18.20	18 20	8.10	8 10	32.33	32 34	79.80	78.65	6.17	6.13	5.09	5 20	4.4	4.3
	11/1/2023	Cioudy	9:18	4.0	1.0	18.20	10.20	8.10	0.10	32.34	32.34	77.50	70.03	6.08	0.13	5.30	3.20	4.2	4.0
	13/1/2023	Cloudy	9:23	3.9	1.0	19.20	19.20	8.11	8.11	32.63	32.62	77.40	77.87	6.04	6.09	5.63	5.71	3.4	3.3
SR9	13/1/2023		9:24	3.9	1.0	19.20	15.20	8.11	0.11	32.60	32.02	78.33	11.01	6.14	0.03	5.78	3.71	3.2	3.3
ONO	16/1/2023	Monsoon Signal							WQM	was cancell	ed due to ac	lverse weath	ier						
	18/1/2023	Fine	11:30	4.3	1.0	16.70	16.70	8.10	8 10	32.40	32 42	77.70	76.95	6.25	6.21	6.44	6.46	4.5	4.7
	10/1/2023	FINE	11:31	4.3	1.0	16.70	16.70	8.10	0.10	32.43	32.42	76.20	70.95	6.17	0.21	6.47	0.40	4.8	4.7
	20/1/2023	Cloudy	9:29	4.4	1.0	17.10	17 10	8.10	8 10	32.36	32.36	78.70	77 90	6.28	6.24	4.39	4 41	6.2	6.4
	20/1/2023	Cioudy	9:30	4.4	1.0	17.10	17.10	8.10	0.10	32.35	32.30	77.10	77.90	6.19	0.24	4.42	4.41	6.6	0.4
	26/1/2023	Fine	9:06	3.9	1.0	16.50	16.55	8.14	8.14	32.22	32.25	76.70	76.35	6.24	6.19	4.52	4.64	4.1	4.0
	20/1/2023		9:07	3.9	1.0	16.60	10.55	8.14	0.14	32.28	32.23	76.00	70.55	6.14	0.15	4.75	4.04	3.9	4.0
	28/1/2023	Monsoon Signal							WQM	was cancell	ed due to ac	verse weath	er						
	30/1/2023	Fine	9:35 9:36	4.1 4.1	1.0	16.20 16.20	16.20	8.27 8.27	8.27	32.33 32.33	32.33	76.80 77.30	77.05	6.25 6.28	6.27	3.42 3.50	3.46	2.6 2.9	2.8

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Lam Environmental Services Limited

Impact Water Quality Monitoring at Station SR9 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sal	inity		turation		00		bidity	S	
Station Reference	Date	Weather	Time	Depth	Depth		С			р			%		g/L		TU	mg	
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:17	3.9	1.0	18.50	18.50	8.13	8 13	32.74	32 74	79.90	79.60	6.20	619	10.63	10.62	6.2	5.9
	2 1/2020	1 1110	12:18	3.9	1.0	18.50	10.00	8.13	0.10	32.74	02.74	79.30	70.00	6.18	0.10	10.60	10.02	5.6	
	4/1/2023	Cloudy	12:18	4.6	1.0	17.78	17 79	8.15	8 15	32.62	32.63	79.90	79.50	6.28	6.25	12.68	12.62	7.5	7.4
	4/1/2023	Cioday	12:19	4.6	1.0	17.80	17.70	8.15		32.64	32.03	79.10	75.30	6.21	0.23	12.55	12.02	7.3	
	6/1/2023	Fine	12:18	4.5	1.0	18.50	18.50	8.13	8 13	32.66	32.67	79.10	79.30	6.11	6 14	9.99	9.92	8.6	8.5
	6/1/2023	Fine	12:19	4.5	1.0	18.50	18.50	8.13	8.13	32.67	32.67	79.50	79.30	6.17	6.14	9.85	9.92	8.3	0.5
	9/1/2023	Cloudy	12:18	4.0	1.0	18.50	18.50	8.12	8 12	32.66	32.66	80.40	79 75	6.27	6.22	9.61	9 64	4.2	4.0
	9/1/2023	Cloudy	12:19	4.0	1.0	18.50	18.50	8.12	8.12	32.65	32.66	79.10	79.75	6.16	6.22	9.66	9.64	3.8	4.0
	4440000	OL 1	12:18	4.4	1.0	18.20	18 20	8.11	8 11	32.43	32 43	78.80	79.55	6.17	6.23	4.91	5.01	7.8	7.8
	11/1/2023	Cloudy	12:19	4.4	1.0	18.20	18.20	8.11	8.11	32.43	32.43	80.30	79.55	6.29	6.23	5.10	5.01	7.8	7.8
			12:17	4.2	1.0	18.90	18 90	8.12	8 12	32.59	32 60	81.10		6.22		5.27		2.6	2.8
000	13/1/2023	Cloudy	12:18	4.2	1.0	18.90	18.90	8.12	8.12	32.60	32.60	79.50	80.30	6.13	6.18	5.37	5.32	3.0	2.8
SR9	16/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:17	4.4	1.0	16.60	16.60	8.14	8 14	32.53	32.53	77.40	77.80	6.19	6.21	8.33	8.30	6.8	6.6
	10/1/2023	rille	13:18	4.4	1.0	16.60	10.00	8.14	0.14	32.53	32.53	78.20	77.00	6.23	0.21	8.27	0.30	6.4	0.0
	20/1/2023	Cloudy	12:17	4.4	1.0	17.00	17.00	8.12	8 12	32.50	32.50	76.70	76 10	6.17	6.11	5.57	5.53	3.4	3.3
	20/1/2023	Cioday	12:18	4.4	1.0	17.00	17.00	8.12	0.12	32.49	32.30	75.50	70.10	6.04	0.11	5.49	3.33	3.1	3.3
	26/1/2023	Fine	12:19	4.1	1.0	16.60	16.60	8.16	8 16	32.33	32.34	77.90	78.00	6.26	6.27	4.95	4.99	2.6	2.8
	26/1/2023		12:20	4.1	1.0	16.60	16.60	8.15	8.16	32.34	32.34	78.10	78.00	6.28	6.27	5.03	4.99	2.9	2.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er					'	
	30/1/2023	Fine	12:18 12:19	4.3	1.0	16.80 16.70	16.75	8.31 8.31	8.31	32.53 32.50	32.52	78.70 77.90	78.30	6.28	6.24	6.31 6.20	6.26	3.6 3.4	3.5

Impact Water Quality Monitoring at Station SR9 (Bottom) - Ebb Tide

	0		Sampling	Water	Sampling	Tempe	erature	F	Н	Sali	nity	DO Sa	turation	D	0	Turi	bidity		SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	٥,	С		-	pp	ot	9	%	mg	g/L	N'	TU	m	ng/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:56	4.1	3.1	18.40	18 40	8.14	8 14	32.75	32 49	78.10	79.05	6.11	6.18	8.97	8 85	5.0	4.9
	2/1/2023	1 110	9:57	4.1	3.1	18.40	10.40	8.14	0.14	32.23	32.45	80.00	75.00	6.24	0.10	8.73	0.00	4.7	4.0
	4/1/2023	Cloudy	9:44	4.4	3.4	17.60	17 60	8.13	8 13	32.69	32 71	77.50	77 95	6.09	6 14	12.93	12 90	8.6	8.8
	4/ 1/2020	Gloddy	9:45	4.4	3.4	17.60	17.00	8.13	0.10	32.72	02.71	78.40	77.00	6.19	0.14	12.87	12.50	9.0	0.0
	6/1/2023	Fine	9:12	4.2	3.2	18.40	18 40	8.12	8 12	32.67	32 67	79.90	79.70	6.23	6.20	9.61	9.57	11.2	
	0/1/2020	1 1110	9:13	4.2	3.2	18.40	10.40	8.12	0.12	32.67	02.07	79.50	70.70	6.17	0.10	9.53	0.01	11.5	
	9/1/2023	Cloudy	9:20	4.0	3.0	18.30	18.30	8.11	8 11	32.41	32 41	78.70	79 15	6.14	6 19	8.09	8 15	10.5	10.3
	U 1/2020	Gloddy	9:21	4.0	3.0	18.30	10.00	8.11	0.11	32.41	02.41	79.60	70.10	6.23	0.10	8.20	0.10	10.1	
	11/1/2023	Cloudy	9:20	4.0	3.0	18.30	18.30	8.11	8 11	32.41	32 41	78.70	79.15	6.14	6.19	8.09	8.15	5.0	
	111112020	Gloddy	9:21	4.0	3.0	18.30	10.00	8.11	0.11	32.41	02.41	79.60	70.10	6.23	0.10	8.20	0.10	4.6	
	13/1/2023	Cloudy	9:25	3.9	2.9	19.00	19.00	8.13	8.13	32.55	32.56	78.30	79.40	6.03	6.14	4.12	4.24	4.6	
SR9			9:26	3.9	-1.0	19.00		8.13		32.57		80.50		6.25	****	4.35		5.0	
	16/1/2023	Strong Monsoon Signal							WQM	was cancelle	d due to ad	verse weath	er						
	18/1/2023	Fine	11:33	4.3	3.3	17.20	17.20	8.14	8 14	32.46	32.45	77.70	77.80	6.25	6.23	4.93	4.92	5.9	5.7
	10/1/2023	rine	11:34	4.3	3.3	17.20	17.20	8.14	0.14	32.43	32.45	77.90	77.00	6.21	0.23	4.90	4.92	5.5	3.7
	20/1/2023	Cloudy	9:32	4.4	3.4	17.30	17 25	8.12	8 12	32.43	32 44	76.20	77 15	6.11	6.17	6.29	6.25	3.8	3.7
	20/1/2023	Cioudy	9:33	4.4	3.4	17.20	17.20	8.11	0.12	32.44	32.44	78.10	77.13	6.22	0.17	6.20	0.23	3.6	3.7
	26/1/2023	Fine	9:08	3.9	2.9	16.60	16.60	8.16	8 16	32.37	32.38	77.90	77.95	6.26	6.27	6.42	6.41	5.8	5.6
	26/1/2023		9:09	3.9	2.9	16.60	10.00	8.15	0.10	32.38	32.30	78.00	77.95	6.27	0.27	6.39	0.41	5.3	5.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	d due to ad	verse weath	er						
	30/1/2023	Fine	9:38 9:39	4.1 4.1	3.1 3.1	16.30 16.20	16.25	8.28 8.27	8.28	32.35 32.34	32.35	79.20 78.40	78.80	6.44 6.40	6.42	2.05 2.10	2.08	4.6 4.3	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Contract No. NE/2017/03 Development of Anderson Road Quarry Site Road Improvement Works

Impact Water Quality Monitoring at Station SR9 (Bottom) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Tempe	erature	F	Н		inity		turation		0		bidity		SS
Station Reference	Date	vv eatrier	Time				AVG	Value	- AV/O	Value	AVG		6 AVG	Value	a/L AVG	Value	TU	Value	g/L AVG
				m	m		AVG		AVG		AVG		AVG		AVG		AVG		AVG
	2/1/2023	Fine	12:19	3.9	2.9	18.50	18.50	8.13	8.13	32.73	32.73	80.40	79.60	6.27	6.20	9.03	9.08	5.0	4.
			12:20	3.9	2.9	18.50		8.13		32.72		78.80		6.12		9.13		4.6	
	4/1/2023	Cloudy	12:21	4.6	3.6	17.90	17.90	8.14	8.14	32.70	32.70	77.00	77.90	6.09	6.12	9.48	9.51	8.2	
		,	12:22	4.6	3.6	17.90		8.14		32.70		78.80		6.15		9.53		8.0	
	6/1/2023	Fine	12:21	4.5	3.5	18.50	18.50	8.14	8 14	32.68	32 68	78.50	79.10	6.10	6.15	10.63	10.59	9.6	
			12:22	4.5	3.5	18.50		8.14		32.68		79.70		6.20		10.54		9.2	
	9/1/2023	Cloudy	12:21	4.0	3.0	18.30	18.30	8.13	8 13	32.66	32 66	79.00	79 45	6.14	6.18	7.54	7 44	4.9	
	U 1/2020	Oloudy	12:22	4.0	3.0	18.30	10.00	8.13	0.10	32.66	02.00	79.90	70.40	6.22	0.10	7.33	7.44	5.2	
	11/1/2023	Cloudy	12:21	4.4	3.4	18.30	18.30	8.11	8 11	32.44	32 45	80.00	79.10	6.24	6.18	6.30	6.24	6.1	6.3
	111112020	Oloudy	12:22	4.4	3.4	18.30	10.00	8.11	0.11	32.45	02.40	78.20	70.10	6.12	0.10	6.17	0.24	6.4	
	13/1/2023	Cloudy	12:20	4.2	3.2	18.90	18.90	8.13	8 13	32.57	32.57	79.20	79.85	6.11	6.17	4.02	4 11	5.0	4.8
SR9	13/1/2023		12:21	4.2	3.2	18.90	10.50	8.13	0.13	32.57	32.31	80.50	75.00	6.23	0.17	4.19	4.11	4.6	-4.0
Sits	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:20	4.4	3.4	17.10	17 10	8.14	8 14	32.43	32 43	78.50	77.80	6.27	6.23	5.01	5.06	5.1	5.
	10/1/2023	FINE	13:21	4.4	3.4	17.10	17.10	8.14	0.14	32.42	32.43	77.10	77.00	6.18	0.23	5.11	5.06	5.4	5.
	0045000	01. 1	12:20	4.4	3.4	17.10	47.40	8.12	8.11	32.44	32 44	76.60	70.05	6.15	6 10	4.28	4.33	2.6	2.8
	20/1/2023	Cloudy	12:21	4.4	3.4	17.10	17.10	8.10	8.11	32.44	32.44	75.50	76.05	6.04	6.10	4.37	4.33	3.0	2.0
	0045000		12:22	4.1	3.1	16.50	16.50	8.16	8.16	32.34	32.34	77.20	77.05	6.23	6.26	4.37	4.39	4.4	4.3
	26/1/2023	Fine	12:23	4.1	3.1	16.50	16.50	8.16	8.16	32.34	32.34	78.10	77.65	6.29	6.26	4.40	4.39	4.1	4
	28/1/2023	Strong Monsoon Signal					l l		WQM	was cancelle	ed due to ad	verse weath	er				!		
	30/1/2023	Fine	12:21	4.3	3.3	16.40	16.40	8.29	8.29	32.42	32.42	78.30	77.85	6.24	6.21	2.27	2.29	5.0	4.
	30/1/2023	FINE	12:22	4.3	3.3	16.40	16.40	8.28	0.29	32.42	32.42	77.40	11.00	6.17	0.21	2.31	2.29	4.6	1

Impact Water Quality Monitoring at Station SR10 (Middle) - Ebb Tide

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turk	bidity	5	SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С		-	р	ppt		%	m	g/L	N'	TU	m	g/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	10:03	2.5	1.3	18.40	18.40	8.13	8 13	32.70	32.71	79.60	79.85	6.23	6.24	9.17	9.21	6.2	6.1
	2/1/2023	1 1110	10:04	2.5	1.3	18.40	10.40	8.13	0.13	32.71	32.71	80.10	75.00	6.24	0.24	9.25	5.21	5.9	0.1
	4/1/2023	Cloudy	9:52	2.5	1.3	17.40	17 40	8.14	8 14	32.68	32 69	77.80	78.05	6.13	6 17	11.56	11.46	5.8	6.0
	4/1/2020	Oloudy	9:53	2.5	1.3	17.40	17.40	8.14	0.14	32.70	02.00	78.30	70.00	6.21	0.17	11.36	11.40	6.2	0.0
	6/1/2023	Fine	9:17	2.5	1.3	18.50	18.50	8.10	8 10	32.61	32 63	79.20	80.00	6.16	6.21	10.13	10 10	8.6	8.8
	0/1/2023	1 1110	9:18	2.5	1.3	18.50	10.50	8.10	0.10	32.64	32.03	80.80	00.00	6.26	0.21	10.07	10.10	9.0	0.0
	9/1/2023	Cloudy	9:26	2.5	1.3	18.30	18.30	8.08	8.08	32.37	32.37	79.10	78.70	6.19	6.16	7.09	7 11	8.4	8.2
	5/ 1/2025	Oloudy	9:27	2.5	1.3	18.30	10.00	8.08	0.00	32.36	02.07	78.30	70.70	6.12	0.10	7.13	7.11	8.0	1
	11/1/2023	Cloudy	9:26	2.5	1.3	18.30	18.30	8.08	8.08	32.37	32.37	79.10	78.70	6.19	6.16	7.09	7.11	4.8	5.0
	11/1/2023	Cioudy	9:27	2.5	1.3	18.30	10.50	8.08	0.00	32.36	32.37	78.30	70.70	6.12	0.10	7.13	7.11	5.2	0.0
	13/1/2023	Cloudy	9:32	2.3	1.2	19.10	19.10	8.09	8.09	32.49	32 50	79.40	78.60	6.13	6.08	4.01	4 14	2.8	2.7
SR10	10/1/2020		9:33	2.3	0.0	19.10	10.10	8.09	0.00	32.50	02.00	77.80	70.00	6.02	0.00	4.26	4.14	2.6	
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	ier						
	18/1/2023	Fine	11:38	2.5	1.3	17.00	17.00	8.14	8 14	32.58	32.58	77.40	76.65	6.20	6.14	6.04	6.08	5.0	5.1
	10/1/2023	1 1110	11:39	2.5	1.3	17.00	17.00	8.14	0.14	32.57	32.30	75.90	70.00	6.08	0.14	6.12	0.00	5.2	0.1
	20/1/2023	Cloudy	9:38	2.5	1.3	17.00	17.05	8.12	8 12	32.36	32.36	78.70	78.00	6.28	6.24	6.04	6.12	3.8	3.8
	20/1/2023	Cioudy	9:39	2.5	1.3	17.10	17.03	8.12	0.12	32.36	32.30	77.30	70.00	6.20	0.24	6.20	0.12	3.7	3.0
	26/1/2023	Fine	9:15	2.4	1.2	16.00	16.00	8.15	8 15	32.36	32.36	77.40	77.05	6.29	6.26	5.25	5.32	1.8	1.9
	20/1/2023		9:16	2.4	1.2	16.00	10.00	8.14	0.13	32.35	32.30	76.70	11.00	6.23	0.20	5.38	3.32	1.9	1.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	er						
	30/1/2023	Fine	9:46 9:47	2.4	1.2	16.00 16.00	16.00	8.28 8.27	8.28	32.32 32.32	32.32	77.80 78.20	78.00	6.33 6.35	6.34	1.43	1.51	3.8 3.6	3.7

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR10 (Middle) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature	P	Н		inity		turation		0		bidity		SS
Station Reference	Date	vveatner	Time			Value °	AVG	Value		Value	AVG		% AVG	Value	g/L AVG	Value	TU	Value	g/L AVG
				m	m		AVG		AVG		AVG		AVG		AVG		AVG		AVG
	2/1/2023	Fine	12:13	2.4	1.2	18.30	18.30	8.14	8.14	32.71	32.71	79.50	78.75	6.22	6.17	9.86	9.84	6.4	6.
			12:14	2.4	1.2	18.30		8.14		32.71		78.00		6.11		9.81		6.7	
	4/1/2023	Cloudy	12:14	2.4	1.2	17.60	17.60	8.14	8.14	32.71	32.70	78.70	77.85	6.24	6.15	8.30	8.38	3.6	
		,	12:15	2.4	1.2	17.60		8.14		32.68		77.00	- '	6.06		8.45		4.0	_
	6/1/2023	Fine	12:20	2.6	1.3	18.60	18.60	8.11	8 11	32.65	32 64	80.80	79.80	6.28	6.21	8.47	8 45	6.6	6.
			12:21	2.6	1.3	18.60		8.11		32.63		78.80		6.15		8.43		6.4	
	9/1/2023	Cloudy	12:20	2.7	1.4	18.30	18 30	8.09	8.09	32.63	32 63	78.90	79.50	6.14	6.20	10.95	10.96	8.2	
	U 1/2020	Gloddy	12:21	2.7	1.4	18.30	10.00	8.09	0.00	32.63	02.00	80.10	70.00	6.25	0.10	10.97	10.50	8.3	
	11/1/2023	Cloudy	12:13	2.7	1.4	18.30	18.30	8.09	8.09	32.44	32 44	78.40	79.30	6.15	6.21	8.34	8.30	4.2	4.
	111112020	Cioday	12:14	2.7	1.4	18.30	10.00	8.09	0.00	32.43	02.44	80.20	70.00	6.27	0.1	8.25	0.00	4.5	
	13/1/2023	Cloudy	12:13	2.5	1.3	19.00	19 00	8.09	8.09	32.51	32.52	80.10	79 10	6.21	6.12	5.09	5 11	2.6	2.
SR10	13/1/2023		12;14	2.5	1.3	19.00	15.00	8.09	0.03	32.53	32.32	78.10	75.10	6.03	0.12	5.13	3.11	2.9	
31(10	16/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:12	2.6	1.3	16.90	16 90	8.15	8 15	32.48	32 49	79.10	78.95	6.27	6.28	4.95	4.99	3.5	3.
	18/1/2023	Fine	13:13	2.6	1.3	16.90	16.90	8.15	8.15	32.49	32.49	78.80	78.95	6.29	6.28	5.03	4.99	3.9	3.
			12:13	2.6	1.3	17.10	17.05	8.13	8 13	32.42	32 43	77.00		6.16		5.27		2.2	2.
	20/1/2023	Cloudy	12:14	2.6	1.3	17.00	17.05	8.12	8.13	32.43	32.43	78.40	77.70	6.22	6.19	5.16	5.22	2.4	2.
		_	12:13	2.6	1.3	16.10		8.17		32.38		77.40		6.25		3.33		2.5	_
	26/1/2023	Fine	12:14	2.6	1.3	16.00	16.05	8.16	8.17	32.37	32.38	76.80	77.10	6.22	6.24	3.45	3.39	2.3	2.
	28/1/2023	Strong Monsoon Signal					U.		WQM	was cancelle	ed due to ad	verse weath	er				!		
	20/4/2022		12:13	2.7	1.4	16.00	16.05	8.27	8.27	32.41	22.44	77.50	77.05	6.28	6.07	4.80	4.04	2.3	2
	30/1/2023	Fine	12:14	2.7	1.4	16.10	16.05	8.27	8.27	32.41	32.41	77.00	77.25	6.25	6.27	4.87	4.84	2.7	1 2

Impact Water Quality Monitoring at Station SR12 (Middle) - Ebb Tide

	Complian		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turk	bidity		SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	10:07	2.6	1.3	18.20	18.20	8.14	8.14	32.72	32.73	79.90	79.20	6.25	6.20	10.12	10.21	6.9	
	2) 1/2020	1 1110	10:08	2.6	1.3	18.20	10.20	8.14	0.14	32.73	02.70	78.50	70.20	6.14	0.10	10.30	10.21	6.6	
	4/1/2023	Cloudy	9:55	2.4	1.2	17.50	17.50	8.14	8 14	32.73	32 73	78.50	77.70	6.20	616	9.05	8 99	6.6	
		,	9:56	2.4	1.2	17.50		8.14		32.73		76.90		6.11	****	8.92		6.8	
	6/1/2023	Fine	9:20	2.4	1.2	18.60	18 60	8.10	8 10	32.64	32 63	78.10	79.35	6.09	6 17	8.56	8.51	9.9	
			9:21	2.4	1.2	18.60		8.10	00	32.62	02.00	80.60		6.25		8.45		10.4	
	9/1/2023	Cloudy	9:31	2.4	1.2	18.30	18.30	8.09	8.09	32.44	32 46	79.70	78.70	6.26	6.20	5.96	5.95	8.6	
		,	9:32	2.4	1.2	18.30		8.09		32.47		77.70		6.13		5.93		8.9	
	11/1/2023	Cloudy	9:31	2.4	1.2	18.30	18 30	8.09	8.09	32.44	32 46	79.70	78 70	6.26	6.20	5.96	5 95	6.2	6.3
		,	9:32	2.4	1.2	18.30		8.09	0.00	32.47	02.10	77.70		6.13		5.93		6.4	
	13/1/2023	Cloudy	9:38	2.4	1.2	19.10	19.10	8.09	8.09	32.51	32.51	80.30	78.85	6.25	6.15	4.71	4.73	2.6	
SR12		Strong	9:39	2.4	0.0	19.10		8.09		32.51		77.40		6.04		4.75		3.0	
	16/1/2023	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	11:42	2.6	1.3	16.70	16.70	8.15	8.15	32.52	32.53	78.10	77.70	6.19	6.19	4.53	4.61	6.1	6.3
	10/1/2023	1 110	11:43	2.6	1.3	16.70	10.70	8.15	0.13	32.53	32.33	77.30	77.70	6.18	0.15	4.69	4.01	6.4	0.0
	20/1/2023	Cloudy	9:42	2.6	1.3	17.20	17 20	8.13	8 13	32.47	32 48	78.40	77.90	6.26	6.22	4.75	4.63	3.4	3.5
	20172020	Gloddy	9:43	2.6	1.3	17.20	17.20	8.13	0.10	32.49	02.40	77.40	77.00	6.17	0.11	4.50	4.00	3.6	0.0
	26/1/2023	Fine	9:20	2.3	1.2	16.20	16.25	8.17	8 17	32.39	32 40	76.10	76.60	6.20	6.23	3.44	3.71	1.8	1.7
	20/1/2023		9:21	2.3	1.2	16.30	10.23	8.16	0.17	32.40	32.40	77.10	70.00	6.26	0.23	3.98	3.71	1.6	
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	30/1/2023	Fine	9:50 9:51	2.5 2.5	1.3 1.3	16.10 16.00	16.05	8.28 8.29	8.29	32.39 32.97	32.68	76.50 76.10	76.30	6.21 6.20	6.21	3.64 3.50	3.57	5.0 5.4	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR12 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	р	Н	Sal	inity	DO Sa	turation	D	0	Turl	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	٥				р			%	m			TU	mg	
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:09	2.5	1.3	18.20	18 20	8.14	8 14	32.71	32.72	80.40	79.55	6.29	6.22	8.97	8.81	7.0	7.2
	2 1/2020	1 1110	12:10	2.5	1.3	18.20	10.20	8.14	0.14	32.72	02.72	78.70	70.00	6.15	0.11	8.65	0.01	7.3	
	4/1/2023	Cloudy	12:09	2.3	1.2	17.50	17.50	8.15	8.15	32.70	32.71	76.80	77.45	6.11	6.15	9.45	9.52	4.8	4.7
	4/1/2023	Cioudy	12:10	2.3	1.2	17.50	17.50	8.15	0.13	32.72	32.71	78.10	77.40	6.19	0.13	9.59	5.32	4.5	4.1
	6/1/2023	Fine	12:09	2.5	1.3	18.70	18.70	8.11	8 11	32.66	32.67	78.70	79.30	6.24	6.27	9.17	9 16	7.9	7.7
	0/1/2023	1 1110	12:10	2.5	1.3	18.70	10.70	8.11	0.11	32.68	32.07	79.90	75.30	6.29	0.27	9.15	5.10	7.5	1.1
	9/1/2023	Cloudy	12:13	2.7	1.4	18.30	18.30	8.09	8.09	32.64	32 64	78.70	79.35	6.14	6.18	12.47	12.38	8.0	8.1
	8/1/2023	Cioudy	12:14	2.7	1.4	18.30	10.50	8.09	0.05	32.63	32.04	80.00	18.33	6.21	0.10	12.29	12.30	8.2	0.1
	11/1/2023	Cloudy	12:09	2.6	1.3	18.30	18.30	8.09	8.09	32.61	32.60	79.10	78.35	6.22	6.17	6.18	6 11	4.8	4.8
	11/1/2023	Cioudy	12:10	2.6	1.3	18.30	10.50	8.09	0.05	32.59	32.00	77.60	70.33	6.12	0.17	6.04	0.11	4.8	4.0
	13/1/2023	Cloudy	12:09	2.6	1.3	19.10	19.10	8.10	8 11	32.51	32.51	79.50	78.75	6.13	6.08	5.01	5 11	3.3	3.4
SR12	13/1/2023		12:10	2.6	1.3	19.10	15.10	8.11	0.11	32.51	32.31	78.00	10.13	6.02	0.00	5.21	3.11	3.5	0.4
OKIZ	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ac	verse weath	er						
	18/1/2023	Fine	13:09	2.7	1.4	17.20	17 20	8.15	8 15	32.45	32.46	78.50	78.05	6.24	6.20	4.67	4.62	4.6	4.4
	10/1/2023	FINE	13:10	2.7	1.4	17.20	17.20	8.15	0.15	32.47	32.40	77.60	70.05	6.16	6.20	4.56	4.02	4.2	4.4
	20/1/2023	Cloudy	12:09	2.7	1.4	17.20	17.15	8.13	8 13	32.41	32.42	78.40	77.55	6.26	6.20	4.50	4 40	3.7	3.5
	20/1/2023	Cioudy	12:10	2.7	1.4	17.10	17.15	8.13	0.13	32.43	32.42	76.70	11.55	6.14	6.20	4.30	4.40	3.3	3.3
	26/1/2023	Fine	12:10	2.5	1.3	16.20	16.15	8.17	8 17	32.33	32.33	76.70	76.40	6.25	6.21	3.04	3.10	1.8	1.7
	20/1/2023		12:11	2.5	1.3	16.10	10.13	8.17	0.17	32.33	32.33	76.10	70.40	6.17	0.21	3.16	3.10	1.6	1.7
	28/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ac	verse weath	er						
	30/1/2023	Fine	12:10	2.6	1.3	16.10	16.10	8.28	8.28	32.40	32.41	77.80	77.55	6.30	6.29	2.63	2.68	2.2	2.2
	30/1/2023	1.116	12:11	2.6	1.3	16.10	16.10	8.27	0.20	32.41	32.41	77.30	77.55	6.27	0.29	2.72	2.00	2.1	2.2

Impact Water Quality Monitoring at Station SR15 (Middle) - Ebb Tide

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С			F	pt	9	%	m	g/L	N'	TU	m	ng/L
	Date		Tillio	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:18	2.7	1.4	17.70	17.70	8.08	8.08	32.64	32 65	79.40	79.20	6.20	6.19	14.80	14.40	11.5	11.7
	2/1/2023	1 110	9:19	2.7	1.4	17.70	17.70	8.08	0.00	32.65	32.03	79.00	75.20	6.17	0.15	14.00	14.40	11.8	
	4/1/2023	Cloudy	9:07	2.5	1.3	17.60	17 60	8.11	8 11	32.62	32 64	78.60	77.80	6.24	6.17	13.44	13.34	9.2	9.5
	4/1/2023	Cioudy	9:08	2.5	1.3	17.60	17.00	8.11	0.11	32.65	32.04	77.00	77.00	6.10	0.17	13.23	13.54	9.7	5.5
	6/1/2023	Fine	8:30	2.5	1.3	18.10	18 10	8.08	8.08	32.66	32 66	79.20	79.15	6.16	6.15	12.43	12.28	11.6	11.4
	0/1/2023	1 110	8:31	2.5	1.3	18.10	10.10	8.08	0.00	32.65	32.00	79.10	75.13	6.13	0.13	12.13	12.20	11.2	11.4
	9/1/2023	Cloudy	8:38	2.5	1.3	18.20	18.20	8.05	8.28	32.49	32.51	78.70	79.25	6.16	6.22	7.55	7.59	6.6	6.8
	3/1/2023	Cioudy	8:39	2.5	1.3	18.20	10.20	8.50	0.20	32.52	32.31	79.80	15.25	6.27	0.22	7.63	1.55	7.0	0.0
	11/1/2023	Cloudy	8:38	2.5	1.3	18.20	18.20	8.05	8.05	32.49	32.51	78.70	79.25	6.16	6.22	7.55	7.59	7.0	7.1
	11/1/2023	Cloudy	8:39	2.5	1.3	18.20	10.20	8.05	0.05	32.52	32.51	79.80	79.25	6.27	0.22	7.63	7.59	7.2	7.1
	13/1/2023	Cloudy	8:45	2.2	1.1	19.00	19.00	8.08	8.08	32.58	32.57	79.10	78.55	6.13	6.10	5.53	5.55	4.2	4.4
SR15	13/1/2023		8:46	2.2	1.1	19.00	15.00	8.08	0.00	32.56	32.31	78.00	70.33	6.06	0.10	5.57	3.33	4.6	4.4
OI (10	16/1/2023	Strong Monsoon Signal							WQM	was cancel	ed due to ad	verse weath	er						
	18/1/2023	Fine	10:42	2.5	1.3	16.60	16.65	8.08	8.08	32.41	32 40	77.20	76.85	6.23	6.20	6.76	6.72	6.3	6.1
	10/1/2023	rine	10:43	2.5	1.3	16.70	10.00	8.08	0.00	32.39	32.40	76.50	70.00	6.16	6.20	6.68	0.72	5.9	
	20/1/2023	Cloudy	8:54	2.5	1.3	17.20	17 20	8.06	8.06	32.28	32 29	77.70	78.15	6.18	6.24	7.04	7.02	5.3	5.5
	20/1/2023	Cioudy	8:55	2.5	1.3	17.20	17.20	8.06	0.00	32.30	32.25	78.60	70.13	6.29	0.24	7.00	7.02	5.7	5.5
	26/1/2023	Fine	8:34	2.3	1.2	16.20	16.20	8.10	8 10	32.18	32 19	77.40	77.25	6.28	6.26	3.80	3.88	3.1	3.0
	26/1/2023		8:35	2.3	1.2	16.20	10.20	8.10	0.10	32.20	32.19	77.10	11.25	6.24	0.20	3.95	3.00	2.8	3.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancel	ed due to ad	verse weath	er						
	30/1/2023	Fine	8:58 8:59	2.5	1.3	16.10 16.00	16.05	8.22 8.21	8.22	32.18 32.20	32.19	76.90 77.30	77.10	6.25 6.28	6.27	2.04	2.10	5.0 5.3	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station SR15 (Middle) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Tempe °(erature		Н	Sali	,		turation	D			bidity		SS.
Station Reference	Date	vv dati idi	Time	m	m		AVG		AVG	Value	AVG		6 AVG	Value	AVG		TU AVG	Value	ag/L AVG
			40.50				AVG		AVG		AVG		AVG		AVG		AVG		
	2/1/2023	Fine	12:53	2.4	1.2	18.30	18.30	8.15	8.16	32.72	32.73	78.30	77.65	6.11	6.17	11.39	11.29	8.5	8.
			12:54	2.4	1.2	18.30		8.16		32.74		77.00		6.23		11.18		8.7	
	4/1/2023	Cloudy	12:55			18.20	18.20	8.15	8.15	32.69	32.69	78.00	77.25	6.10	6.06	9.99	9.91	6.4	6.
			12:56	2.4	1.2	18.20		8.15		32.68		76.50		6.01		9.83		6.1	-
	6/1/2023	Fine	12:50	2.7	1.4	18.50	18.50	8.15	8.15	32.67	32.67	79.90	79.20	6.24	6.17	11.56	11.42	8.1	
			12:51	2.7	1.4	18.50		8.15		32.66		78.50		6.10		11.28		7.8	
	9/1/2023	Cloudy	12:54	2.7	1.4	18.40	18.40	8.13	8.13	32.61	32.61	79.00	78.45	6.20	6.14	9.08	9.17	4.3	
			12:55	2.7	1.4	18.40		8.13		32.60		77.90		6.08		9.25		4.8	
	11/1/2023	Cloudy	12:53	2.8	1.4	18.40	18.40	8.13	8.13	32.57	32.56	78.10	79.05	6.13	6.19	7.31	7.30	7.4	
			12:54	2.8	1.4	18.40		8.13		32.55		80.00		6.25		7.29		7.1	
	13/1/2023	Cloudy	12:54	2.5	1.3	19.60	19.60	8.14	8.14	32.51	32.52	80.20	81.05	6.10	6.15	5.53	5.50	3.9	
SR15		Strong	12:55	2.5	1.3	19.60		8.14		32.52		81.90		6.20		5.47		3.5	
	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	12:53	2.7	1.4	17.70	17 70	8.15	8 15	32.49	32.50	77.10	77.80	6.09	6.16	4.26	4.32	4.8	5.
	10/1/2023	FINE	12:54	2.7	1.4	17.70	17.70	8.15	0.15	32.50	32.30	78.50	77.00	6.23	0.10	4.38	4.32	5.1	
	20/1/2023	Cloudy	12:54	2.5	1.3	17.70	17.70	8.15	8.15	32.43	32.44	78.90	78.25	6.21	6.16	4.50	4.49	2.5	2.0
	20/1/2023	Cioudy	12:55	2.5	1.3	17.70	17.70	8.15	0.15	32.44	32.44	77.60	10.23	6.11	0.10	4.47	4.49	2.7	
	26/1/2023	Fine	12:55	2.6	1.3	16.90	16.95	8.20	8.20	32.36	32 37	77.10	77.50	6.19	6.22	5.59	5.58	2.6	2.5
	26/1/2023		12:56	2.6	1.3	17.00	10.95	8.19	0.20	32.37	32.31	77.90	77.50	6.25	0.22	5.56	3.30	2.3	
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:56	2.7	1.4	16.40	16.40	8.33	8.33	32.28	32.29	86.80	86.65	6.95	6.94	0.79	0.94	3.4	3.
	30/1/2023	rine	12:57	2.7	1.4	16.40	16.40	8.33	8.33	32.29	32.29	86.50	66.65	6.92	6.94	1.08	0.94	3.9	3.



Impact Water Quality Monitoring at Station CE (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	00	Turt	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			ŗ	pt		%	m	g/L	N'	TU	m	
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	10:18	8.5	1.0	18.50	18.50	8.15	8.15	32.74	32.74	79.90	78.80	6.20	6.14	9.74	9.68	5.3	5.2
	2/1/2023	1 1110	10:19	8.5	1.0	18.50	10.50	8.15	0.13	32.73	32.74	77.70	70.00	6.07	0.14	9.62	5.00	5.0	0.1
	4/1/2023	Cloudy	10:07	8.5	1.0	17.60	17 60	8.16	8 16	32.71	32 71	78.00	77 45	6.19	6.15	8.84	8.83	5.5	5.4
	4/1/2023	Cioudy	10:08	8.5	1.0	17.60	17.00	8.16	0.10	32.70	32.71	76.90	11.40	6.10	0.13	8.82	0.03	5.2	0.4
	6/1/2023	Fine	9:30	8.5	1.0	18.30	18.30	8.12	8 12	32.70	32 70	78.30	79 45	6.15	6.20	9.09	9 11	6.8	7.0
	0/1/2023	1 1110	9:31	8.5	1.0	18.30	10.50	8.12	0.12	32.69	32.70	80.60	75.45	6.24	0.20	9.12	3.11	7.2	7.0
	9/1/2023	Cloudy	9:43	8.3	1.0	18.20	18.20	8.14	8 14	32.53	32.47	78.20	79.05	6.11	6.19	8.08	8 13	5.4	5.3
	5/ 1/2025	Oloudy	9:44	8.3	1.0	18.20	10.20	8.14	0.14	32.40	02.47	79.90	70.00	6.26	0.10	8.17	0.10	5.1	0.0
	11/1/2023	Cloudy	9:43	8.3	1.0	18.20	18.20	8.14	8 14	32.53	32 47	78.20	79.05	6.11	6.19	8.08	8.13	5.2	5.4
	11/1/2023	Cioudy	9:44	8.3	1.0	18.20	10.20	8.14	0.14	32.40	32.47	79.90	75.00	6.26	0.15	8.17	0.13	5.6	0.4
	13/1/2023	Cloudy	9:48	8.4	1.0	18.90	18.90	8.13	8 13	32.51	32.52	79.50	78.80	6.17	6.10	5.05	5.11	3.0	3.3
CE	10/1/2020		9:49	8.4	1.0	18.90	10.50	8.13	0.10	32.52	02.02	78.10	70.00	6.03	0.10	5.16	0.11	3.5	0.0
32	16/1/2023	Monsoon Signal							WQM	was cancel	led due to ac	verse weath	er						
	18/1/2023	Fine	11:53	8.6	1.0	17.30	17.30	8.14	8 14	32.48	32.49	77.70	77.50	6.25	6.23	5.78	5.73	5.1	5.0
	10/1/2023	FINE	11:54	8.6	1.0	17.30	17.30	8.14	0.14	32.49	32.49	77.30	77.50	6.20	0.23	5.67	5.73	4.8	5.0
	20/1/2023	Cloudy	9:53	8.4	1.0	17.20	17.20	8.13	8 13	32.44	32 44	78.30	77 15	6.29	6.19	6.49	6.42	4.6	4.7
	20/1/2023	Cioudy	9:54	8.4	1.0	17.20	17.20	8.12	0.13	32.43	32.44	76.00	77.15	6.09	0.19	6.35	0.42	4.8	4.7
	26/1/2023	Fine	9:38	8.3	1.0	16.60	16.60	8.18	8 18	32.35	32.36	77.40	77 15	6.28	6.26	7.83	7.87	6.4	6.2
	20/1/2023		9:39	8.3	1.0	16.60	10.00	8.18	0.10	32.36	32.30	76.90	77.13	6.24	0.20	7.90	7.07	6.0	0.1
	28/1/2023	Monsoon Signal							WQM	was cancel	led due to ac	verse weath	er						
	30/1/2023	Fine	10:08 10:09	8.3 8.3	1.0	16.80 16.80	16.80	8.23 8.24	8.24	32.72 32.71	32.72	78.90 78.50	78.70	6.28 6.24	6.26	0.70 0.90	0.80	3.9 3.5	3.7

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CE (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Tempe	erature	F	Н	Sali	nity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥,	С			pi	ot	9	%	mg		N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	12:01	8.3	1.0	18.50	18.50	8.16	8 16	32.74	32.74	79.60	78.70	6.23	6.16	9.36	9.36	4.8	4.9
	2 1/2020	1 1110	12:02	8.3	1.0	18.50	10.00	8.16	0.10	32.73	02.74	77.80	70.70	6.08	0.10	9.36	0.00	5.0	4
	4/1/2023	Cloudy	12:01	8.4	1.0	17.60	17 60	8.14	8 14	32.70	32.72	79.70	79.20	6.23	6.24	9.08	9.02	8.3	8.5
	4/1/2023	Cioudy	12:02	8.4	1.0	17.60	17.00	8.14	0.14	32.73	32.72	78.70	15.20	6.24	0.24	8.96	5.02	8.6	0
	6/1/2023	Fine	12:01	8.6	1.0	18.20	18.20	8.13	8.13	32.65	32 66	79.20	79.85	6.13	6.19	7.95	7.99	6.8	7.0
	0/1/2023	1 1110	12:02	8.6	1.0	18.20	10.20	8.13	0.13	32.67	32.00	80.50	75.00	6.24	0.15	8.02	1.00	7.2	7.0
	9/1/2023	Cloudy	12:01	8.7	1.0	18.40	18 40	8.12	8.12	32.68	32 68	80.20	79.50	6.22	619	9.15	9 14	4.0	3.8
	9/1/2023	Cioudy	12:02	8.7	1.0	18.40	10.40	8.12	0.12	32.68	32.00	78.80	79.50	6.15	0.19	9.12	9.14	3.6	3.0
	11/1/2023	Cloudy	12:01	8.5	1.0	18.40	18 40	8.13	8 13	32.54	32.55	79.90	80.30	6.22	6.25	6.56	6.54	4.0	4.2
	11/1/2023	Cioudy	12:02	8.5	1.0	18.40	10.40	8.14	0.13	32.55	32.33	80.70	00.30	6.27	0.23	6.51	0.54	4.3	7.2
	13/1/2023	Cloudy	12:01	8.7	1.0	19.00	19.00	8.13	8.13	32.49	32.50	80.90	80.20	6.17	6.15	7.55	7.49	3.9	4.1
CE	13/1/2023		12:02	8.7	1.0	19.00	15.00	8.13	0.13	32.51	32.30	79.50	00.20	6.12	0.13	7.42	1.40	4.2	
OL.	16/1/2023	Strong Monsoon							WQM	was cancelle	ed due to ad	verse weath	er						
		Signal	13:00	8.7	1.0	17.20		8.15		32.48		79.10		6.27		5.03		4.0	1
	18/1/2023	Fine	13:00	8.7	1.0	17.20	17.20	8.15	8.15	32.49	32.49	78.10	78.60	6.22	6.25	5.03	5.10	4.4	4.2
			12:01	8.5	1.0	17.20		8.11		32.49		78.00		6.24		6.15		2.8	
	20/1/2023	Cloudy	12:02	8.5	1.0	17.30	17.25	8.12	8.12	32.43	32.44	77.30	77.65	6.19	6.22	6.20	6.18	3.1	
			12:02	8.6	1.0	16.80		8.12		32.44		77.60		6.19		4.75		2.8	
	26/1/2023	Fine	12:02	8.6	1.0	16.80	16.80	8.16	8.16	32.36	32.37	78.10	77.85	6.28	6.25	4.73	4.79	2.6	
		Strong	12:02	8.6	1.0	16.80		8.16		32.3b		78.10		6.28		4.83		2.6	
	28/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:01	8.5	1.0	16.70	16.70	8.30	8.30	32.35	32.35	78.10	78.00	6.28	6.28	1.27	1.30	2.2	2.3
			12:02	8.5	1.0	16.70		8.29		32.35		77.90		6.27	0.20	1.32	1.30	2.4	

Impact Water Quality Monitoring at Station CE (Middle) - Ebb Tide

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity	5	SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С		-	р	ppt		%	m	g/L	N'	TU	m	g/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	10:22	8.5	4.3	18.40	18.40	8.16	8 16	32.74	32.74	77.40	78.60	6.04	6.14	10.84	10.86	5.6	5.8
	2/1/2023	1 1110	10:23	8.5	4.3	18.40	10.40	8.16	0.10	32.74	32.74	79.80	70.00	6.23	0.14	10.88	10.00	6.0	0.0
	4/1/2023	Cloudy	10:11	8.5	4.3	17.60	17 60	8.15	8 15	32.74	32 73	78.80	78 10	6.28	6.20	10.23	10.18	6.0	6.2
	4/1/2020	Oloudy	10:12	8.5	4.3	17.60	17.00	8.15	0.10	32.72	02.70	77.40	70.10	6.11	0.10	10.12	10.10	6.4	0.2
	6/1/2023	Fine	9:34	8.5	4.3	18.20	18 20	8.13	8 13	32.69	32 69	79.30	78.35	6.23	6.17	7.68	7.82	8.0	8.2
	0/1/2023	1 1110	9:35	8.5	4.3	18.20	10.20	8.13	0.13	32.68	32.05	77.40	70.55	6.10	0.17	7.95	7.02	8.4	0.2
	9/1/2023	Cloudy	9:47	8.3	4.2	18.20	18.20	8.14	8 14	32.57	32.57	79.20	78.25	6.19	6 14	7.55	7 68	5.9	5.8
	5/ 1/2025	Oloudy	9:48	8.3	4.2	18.20	10.20	8.14	0.14	32.56	02.07	77.30	70.20	6.09	0.14	7.80	7.00	5.7	
	11/1/2023	Cloudy	9:45	8.3	4.2	18.20	18.20	8.14	8.14	32.57	32.57	79.20	78.25	6.19	6.14	7.55	7.68	6.3	6.6
	11/1/2023	Cioudy	9:46	8.3	4.2	18.20	10.20	8.14	0.14	32.56	32.37	77.30	70.23	6.09	0.14	7.80	7.00	6.8	0.0
	13/1/2023	Cloudy	9:50	8.4	4.2	18.90	18.90	8.14	8 14	32.54	32 55	80.60	79.55	6.23	6.16	5.53	5.50	4.6	4.8
CE	10/1/2020		9:51	8.4	4.2	18.90	10.50	8.14	0.14	32.55	02.00	78.50	70.00	6.08	0.10	5.47	0.00	4.9	
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	ier						
	18/1/2023	Fine	11:55	8.6	4.3	17.20	17.20	8.15	8 15	32.51	32.52	77.60	77.00	6.24	6.18	5.48	5.38	5.4	5.6
	10/1/2023	FINE	11:56	8.6	4.3	17.20	17.20	8.15	0.15	32.53	32.52	76.40	77.00	6.11	0.10	5.28	5.36	5.7	3.0
	20/1/2023	Cloudy	9:55	8.4	4.2	17.30	17.30	8.13	8 13	32.44	32 44	78.70	77.95	6.28	6.23	5.65	5.68	3.8	3.6
	20/1/2023	Cioudy	9:56	8.4	4.2	17.30	17.50	8.13	0.13	32.44	32.44	77.20	11.55	6.18	0.23	5.70	5.00	3.4	3.0
	26/1/2023	Fine	9:40	8.3	4.2	16.30	16.35	8.18	8 18	32.36	32.36	76.50	76.80	6.19	6.21	10.16	10.13	5.5	5.4
	20/1/2023		9:41	8.3	4.2	16.40	10.33	8.18	0.10	32.36	32.30	77.10	76.60	6.22	0.21	10.10	10.13	5.2	3.4
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	er						
	30/1/2023	Fine	10:10 10:11	8.3 8.3	4.2 4.2	17.00 17.10	17.05	8.28 8.27	8.28	32.51 32.49	32.50	78.80 79.10	78.95	6.27 6.29	6.28	2.90 2.98	2.94	4.5 4.8	4.7

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CE (Middle) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Temp	erature C	_	<u>H</u>	Sali	_	DO Sa	turation %	D mo	-		oidity TU		SS ng/L
	Date		Time	m	m	Value	AVG	Value	AVG		AVG		AVG		AVG		AVG	Value	AVG
	2/1/2023	Fine	12:05	8.3	4.2	18.40	18 40	8.16	8 17	32.74	32.74	79.50	79.80	6.22	6.23	10.36	10.37	5.3	
	2/1/2023	rine	12:06	8.3	4.2	18.40	10.40	8.17	0.17	32.74	32.74	80.10	79.00	6.24	0.23	10.38	10.37	5.6	1
	4/1/2023	Cloudy	12:03	8.4	4.2	17.70	17.70	8.15	8 17	32.74	32 74	78.80	78.55	6.28	6.25	8.18	8.16	7.7	
	4/1/2023	Cioudy	12:04	8.4	4.2	17.70	17.70	8.19	0.17	32.73	32.74	78.30	70.55	6.21	0.23	8.14	0.10	7.3	1
	6/1/2023	Fine	12:05	8.6	4.3	18.10	18.10	8.14	8.14	32.66	32 67	79.20	79.70	6.19	6.24	9.75	9.73	8.0	
	6/1/2023	rine	12:06	8.6	4.3	18.10	10.10	8.14	0.14	32.67	32.07	80.20	79.70	6.28	0.24	9.70	9.73	8.4	1
	9/1/2023	Cloudy	12:05	8.7	4.4	18.40	18.40	8.30	8.22	32.66	32.66	80.50	44.31	6.23	6.26	7.55	7.62	4.7	
	3/1/2023	Cioudy	12:06	8.7	4.4	18.40	10.40	8.13	0.22	32.65	32.00	8.11	44.51	6.29	0.20	7.68	7.02	4.4	1
	11/1/2023	Cloudy	12:03	8.5	4.3	18.30	18.30	8.14	8 14	32.56	32.56	77.40	78.15	6.05	6.11	4.53	4 70	3.2	
	11/1/2023	Cloudy	12:04	8.5	4.3	18.30	10.30	8.14	0.14	32.55	32.30	78.90	70.15	6.17	0.11	4.87	4.70	3.6	1
	13/1/2023	Cloudy	12:03	8.7	4.4	19.00	19.00	8.14	8.14	32.55	32.56	79.50	80.25	6.13	6.20	5.78	5.81	4.5	
CE	13/1/2023		12:04	8.7	4.4	19.00	15.00	8.14	0.14	32.56	32.30	81.00	00.23	6.26	0.20	5.84	3.01	4.7	1
CL	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	13:02	8.7	4.4	17.00	17.00	8.15	8 15	32.55	32 55	77.70	78.25	6.20	6.25	4.25	4.39	5.2	
	10/1/2023	rine	13:03	8.7	4.4	17.00	17.00	8.15	0.15	32.55	32.55	78.80	70.23	6.29	0.23	4.53	4.39	5.6	1
	20/1/2023	Cloudy	12:03	8.5	4.3	17.20	17.20	8.13	8.13	32.45	32.45	77.60	77.10	6.19	6.15	5.40	5.39	3.7	
	20/1/2023	Cloudy	12:04	8.5	4.3	17.20	17.20	8.13	0.13	32.45	32.43	76.60	77.10	6.11	6.15	5.37	5.39	4.2	1
	26/1/2023	Fine	12:03	8.6	4.3	16.80	16.80	8.17	8.17	32.38	32.38	77.90	77.65	6.26	6.26	8.00	7.99	3.1	
	20/1/2023		12:04	8.6	4.3	16.80	10.00	8.17	0.17	32.37	32.30	77.40	77.03	6.25	0.20	7.98	1.55	3.4	1
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	12:03	8.5	4.3	17.00	17.05	8.31	8.31	32.39	32.39	77.40	77.70	6.26	6.27	4.23	4.19	2.6	
	Jul 1/2023	1 116	12:04	8.5	4.3	17.10	17.05	8.31	0.31	32.38	32.39	78.00	11.10	6.27	0.27	4.15	4.19	3.0	1

Impact Water Quality Monitoring at Station CE (Bottom) - Ebb Tide

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turi	bidity	5	SS
Station Reference	Sampling Date	Weather	Sampling	Depth	Depth	٥	С			р	pt		%	m	g/L	N'	TU	m	g/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	10:25	8.5	7.5	18.30	18.30	8.16	8.16	32.73	32.74	79.30	78.30	6.18	6.12	7.64	7.63	6.3	6.6
	27 172020	1 1110	10:26	8.5	7.5	18.30	10.00	8.16	0.10	32.74	02.74	77.30	70.00	6.06	0.12	7.61	7.00	6.8	
	4/1/2023	Cloudy	10:14	8.5	7.5	17.60	17.60	8.15	8.33	32.76	32 73	78.30	78 45	6.22	6.16	8.54	8.62	6.8	7.0
		,	10:15	8.5	7.5	17.60		8.50	0.00	32.70		78.60		6.09	****	8.70		7.1	
	6/1/2023	Fine	9:37	8.5	7.5	18.10	18 10	8.14	8 14	32.66	32 67	78.40	79.30	6.17	6.23	7.04	7.07	9.3	9.5
	G 1/2020	1 1110	9:38	8.5	7.5	18.10	10.10	8.14	0.14	32.68	02.07	80.20	70.00	6.28	0.10	7.10	7.07	9.7	
	9/1/2023	Cloudy	9:50	8.3	7.3	18.20	18.20	8.14	8 14	32.56	32.56	79.90	79.25	6.23	6.18	6.42	6.50	6.5	6.4
		,	9:51	8.3	7.3	18.20		8.14		32.56		78.60		6.13		6.57		6.2	
	11/1/2023	Cloudy	9:47	8.3	7.3	18.20	18 20	8.14	8 14	32.56	32.56	79.90	79 25	6.23	6 18	6.42	6.70	7.9	7.7
	111112020	Oloudy	9:48	8.3	7.3	18.20	10.20	8.14	0.14	32.56	02.00	78.60	70.20	6.13	0.10	6.97	0.70	7.5	
	13/1/2023	Cloudy	9:52	8.4	7.4	18.70	18 70	8.14	8 14	32.58	32.58	80.50	79.40	6.25	6.20	6.66	6.63	5.6	5.8
CE		Strong	9:53	8.4	7.4	18.70		8.14		32.57		78.30		6.14		6.59		6.0	
	16/1/2023	Monsoon Signal							WQM	was cancell	ed due to ac	verse weath	ier						
	18/1/2023	Fine	11:57	8.6	7.6	17.10	17 10	8.15	8 15	32.47	32.48	76.50	77.20	6.13	6.17	4.50	4.63	6.1	6.2
	10/1/2023	FINE	11:58	8.6	7.6	17.10	17.10	8.15	0.15	32.49	32.40	77.90	11.20	6.21	0.17	4.76	4.03	6.3	0.2
	20/1/2023	Cloudy	9:57	8.4	7.4	17.30	17.30	8.13	8 13	32.42	32 43	76.20	77 10	6.07	6.13	5.52	5.58	3.0	2.9
	20/1/2023	Cioudy	9:58	8.4	7.4	17.30	17.50	8.13	0.13	32.43	32.43	78.00	77.10	6.19	0.13	5.63	3.30	2.8	2.5
	26/1/2023	Fine	9:42	8.3	7.3	16.50	16.50	8.18	8 18	32.36	32.36	76.50	77.05	6.20	6.24	8.99	9.02	4.9	4.7
	20/1/2023		9:43	8.3	7.3	16.50	10.50	8.18	0.10	32.35	32.30	77.60	77.03	6.27	0.24	9.05	5.02	4.5	4.7
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ac	verse weath	er						
	30/1/2023	Fine	10:12	8.3	7.3	16.80	16.80	8.29	8.29	32.41	32.41	78.60	78,40	6.26	6.24	4.75	4.73	5.8	5.6
			10:13	8.3	7.3	16.80	.0.00	8.29	0.20	32.40	32.41	78.20	. 0.40	6.22	014	4.70	4.70	5.3	0.0

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CE (Bottom) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Tempe °(erature		Н		inity		turation		0		bidity		SS
Station Reference	Date	vveatriei	Time	m	m		AVG	Value	AVG	Value	AVG		% AVG	Value	g/L AVG		TU AVG	Value	ng/L AVG
			12:08	8.3	7.3	18.30		8.16		32.74		79.60		6.22		8.67		6.2	
	2/1/2023	Fine	12:00	8.3	7.3	18.30	18.30	8.16	8.16	32.74	32.74	77.70	78.65	6.64	6.43	8.59	8.63	5.8	
			12:05	8.4	7.4	17.80		8.15		32.73		79.70		6.27		8.82		6.8	
	4/1/2023	Cloudy	12:06	8.4	7.4	17.80	17.80	8.15	8.15	32.71	32.72	78.80	79.25	6.18	6.23	8.89	8.86	7.1	
			12:08	8.6	7.6	18.14		8.14		32.66		79.90		6.22		7.16		9.3	
	6/1/2023	Fine	12:09	8.6	7.6	18.10	18.12	8.14	8.14	32.66	32.66	78.60	79.25	6.15	6.19	7.25	7.21	9.7	
	9/1/2023	Cloudy	12:08	8.7	7.7	18.40	18 40	8.13	8 13	32.67	32 67	80.40	79.65	6.24	6.21	9.75	9.78	5.6	5.5
	9/1/2023	Cloudy	12:09	8.7	7.7	18.40	18.40	8.13	8.13	32.67	32.67	78.90	79.65	6.17	6.21	9.80	9.78	5.3	5.5
	11/1/2023	Cloudy	12:05	8.5	7.5	18.30	18.30	8.14	8.14	32.56	32.56	79.80	79.30	6.23	6.19	6.50	6.48	2.8	2.7
	11/1/2023	Cidudy	12:06	8.5	7.5	18.30	10.30	8.14	0.14	32.56	32.30	78.80	79.30	6.14	0.19	6.45	0.40	2.6	2
	13/1/2023	Cloudy	12:05	8.7	7.7	18.80	18.80	8.14	8.14	32.57	32.57	81.20	80.40	6.28	6.22	7.97	7.96	5.4	5.6
CE	13/1/2023		12:06	8.7	7.7	18.80	10.00	8.14	0.14	32.57	32.31	79.60	00.40	6.15	0.22	7.95	7.50	5.8	3.0
OL.	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	ier						
	18/1/2023	Fine	13:04	8.7	7.7	17.20	17.20	8.15	8.15	32.46	32.47	78.10	77.50	6.22	6.18	6.29	6.16	6.6	6.
	10/1/2023	FILLE	13:05	8.7	7.7	17.20	17.20	8.15	0.15	32.47	32.47	76.90	77.50	6.14	0.10	6.03	0.10	7.0	J
	20/1/2023	Cloudy	12:05	8.5	7.5	17.20	17 20	8.13	8 13	32.45	32 45	78.90	78.05	6.29	6.24	7.00	7.05	4.6	4.8
	20/1/2023	Cioddy	12:06	8.5	7.5	17.20	17.20	8.13	0.13	32.45	32.43	77.20	70.03	6.18	0.24	7.10	7.03	5.0	
	26/1/2023	Fine	12:05	8.6	7.6	16.90	16.90	8.17	8.17	32.33	32.34	77.90	77.00	6.26	6.22	6.09	6.10	4.0	3.8
	20/1/2020		12:06	8.6	7.6	16.90	10.50	8.17	0.17	32.34	02.04	76.10	77.00	6.17	0.11	6.10	0.10	3.6	-
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	ier						
	30/1/2023	Fine	12:05	8.5	7.5	16.90	16.85	8.31	8.31	32.37	32.37	78.80	78.35	6.26	6.27	2.07	2.09	3.6	
			12:06	8.5	7.5	16.80	.0.00	8.30	0.01	32.37	52.07	77.90	. 0.00	6.27	01.	2.10	2.00	3.2	



Impact Water Quality Monitoring at Station CF (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m		N'	TU	m	ng/L
	Duic		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:01	8.7	1.0	17.90	17.90	8.03	8.03	32.74	32.75	80.10	79.50	6.29	6.24	9.36	9.41	4.8	4.9
	2772020	1 1110	9:02	8.7	1.0	17.90	17.50	8.03	0.00	32.76	02.70	78.90	70.00	6.18	0.14	9.46	0.41	5.0	
	4/1/2023	Cloudy	8:52	8.7	1.0	17.50	17.50	8.03	8.03	32.65	32 65	78.70	79.20	6.22	6.25	13.87	13.56	12.0	11.8
	4/1/2023	Cioudy	8:53	8.7	1.0	17.50	17.50	8.03	0.03	32.64	32.03	79.70	15.20	6.28	0.23	13.25	13.30	11.6	11.0
	6/1/2023	Fine	8:15	8.4	1.0	18.10	18 10	8.03	8.03	32.57	32 60	80.70	80.40	6.25	6.25	8.51	8 50	7.5	7.7
	0/1/2023	1110	8:16	8.4	1.0	18.10	10.10	8.03	0.03	32.62	32.00	80.10	00.40	6.24	0.23	8.49	0.50	7.9	1
	9/1/2023	Cloudy	8:26	8.5	1.0	18.20	18.20	8.01	8.01	32.66	32.66	79.50	78.80	6.26	6.20	9.09	9.12	9.0	9.2
	3/1/2023	Cioudy	8:27	8.5	1.0	18.20	10.20	8.00	0.01	32.66	32.00	78.10	70.00	6.14	0.20	9.15	0.12	9.4	0.2
	11/1/2023	Cloudy	8:26	8.5	1.0	18.20	18.20	8.01	8.01	32.66	32.66	79.50	78.80	6.26	6.20	9.09	9.12	6.2	6.0
	11/1/2023	Cloudy	8:27	8.5	1.0	18.20	10.20	8.00	0.01	32.66		78.10	70.00	6.14	0.20	9.15	0.12	5.8	
	13/1/2023	Cloudy	8:30	8.2	1.0	19.00	19.00	7.98	7.98	32.38	32 40	81.10	81 45	6.23	6.26	5.53	5.66	6.7	6.5
CF	10/1/2020		8:31	8.2	1.0	19.00	10.00	7.98	7.50	32.42	02.40	81.80	01.40	6.29	0.10	5.78	0.00	6.2	0.0
OI .	16/1/2023	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	ier						
	18/1/2023	Fine	10:30	8.6	1.0	17.10	17.10	7.88	7.88	32.36	32.31	78.30	78.45	6.21	6.24	5.43	5.57	5.7	5.6
	10/1/2023	rine	10:31	8.6	1.0	17.10	17.10	7.88	7.00	32.25	32.31	78.60	70.40	6.26	0.24	5.70	5.57	5.4	5.0
	20/1/2023	Cloudy	8:43	8.6	1.0	17.10	17.05	7.95	7.96	32.36	32 37	77.70	78.40	6.18	6.24	5.53	5.57	4.3	4.5
	20/1/2023	Cloudy	8:44	8.6	1.0	17.00	17.05	7.96	7.96	32.37	32.37	79.10	78.40	6.29	6.24	5.60	5.57	4.7	4.5
	26/1/2023	Fine	8:20	8.3	1.0	16.60	16.60	8.03	8.03	32.34	32.35	78.10	77.80	6.28	6.26	5.53	5.62	4.0	3.8
	26/1/2023		8:21	8.3	1.0	16.60	10.00	8.03	0.03	32.36		77.50	77.00	6.24	0.20	5.70	5.02	3.6	3.0
	28/1/2023	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	er						
	30/1/2023	Fine	8:45 8:46	8.5 8.5	1.0	16.30 16.40	16.35	8.14 8.15	8.15	32.21 32.22	32.22	78.10 78.10	78.10	6.29 6.28	6.29	4.74 4.80	4.77	4.2 3.9	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Tempe	erature	F	Н	Sali	inity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥,	С		-	pi	pt	9	%	mg		N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	13:14	8.2	1.0	18.70	18.70	8.14	8 14	32.73	32.73	80.70	81.25	6.24	6.27	9.72	9.65	4.4	4.5
	2 1/2020	1 1110	13:15	8.2	1.0	18.70	10.70	8.14	0.14	32.73	02.70	81.80	01.20	6.29	0.1	9.58	0.00	4.6	4.0
	4/1/2023	Cloudy	13:14	8.5	1.0	18.30	18.30	8.15	8 15	32.64	32 65	80.50	79.75	6.30	6.22	11.20	11.24	9.2	9.3
	4/1/2023	Cioudy	13:15	8.5	1.0	18.30	10.50	8.15	0.13	32.65	32.00	79.00	18.13	6.14	0.22	11.28	11.24	9.4	0.0
	6/1/2023	Fine	13:14	8.6	1.0	18.90	18.90	8.14	8 14	32.64	32 64	80.90	80.35	6.24	6.19	7.44	7.47	6.8	7.0
	0/1/2023	1 1110	13:15	8.6	1.0	18.90	10.50	8.14	0.14	32.63	32.04	79.80	00.33	6.14	0.15	7.50	7.47	7.1	1 "
	9/1/2023	Cloudy	13:15	8.7	1.0	18.70	18.70	8.14	8 14	32.65	32 66	79.70	79.15	6.16	6.13	8.09	8 16	3.8	3.7
	9/1/2023	Cioudy	13:16	8.7	1.0	18.70	10.70	8.14	0.14	32.66	32.00	78.60	79.15	6.10	0.13	8.23	0.10	3.6	3.7
	11/1/2023	Cloudy	13:15	8.8	1.0	18.50	18.50	8.15	8 15	32.56	32.56	80.50	79.80	6.24	6.20	6.42	6.58	3.8	3.6
	11/1/2023	Cioudy	13:16	8.8	1.0	18.50	10.50	8.15	0.13	32.56	32.30	79.10	75.00	6.15	0.20	6.73	0.50	3.4	
	13/1/2023	Cloudy	13:13	8.7	1.0	19.10	19.10	8.11	8.11	32.52	32.53	81.30	81.65	6.22	6.25	6.30	6.33	2.6	2.8
CF	13/1/2023		13:14	8.7	1.0	19.10	15.10	8.11	0.11	32.53	32.33	82.00	01.00	6.27	0.23	6.35	0.55	2.9	2.0
G	16/1/2023	Strong Monsoon							WQM	was cancelle	ed due to ad	verse weath	er						
		Signal	14:13	8.8	1.0	17.80		8.12		32.48		79.80		6.27		4.51		2.9	т —
	18/1/2023	Fine	14:14	8.8	1.0	18.00	17.90	8.13	8.13	32.44	32.46	78.50	79.15	6.17	6.22	4.60	4.56	3.2	
			13:13	8.8	1.0	17.60		8.14		32.38		79.00		6.23		3.90		3.4	
	20/1/2023	Cloudy	13:14	8.8	1.0	17.60	17.60	8.14	8.14	32.39	32.39	79.50	79.25	6.23	6.23	4.02	3.96	3.4	
			13:14	8.7	1.0	17.40		8.18		32.00		79.50		6.28		6.30		2.6	
	26/1/2023	Fine	13:15	8.7	1.0	17.30	17.35	8.17	8.18	32.29	32.15	78.80	79.00	6.24	6.26	6.34	6.32	2.0	
	28/1/2023	Strong Monsoon Signal	13.13	0.7	1.0	17.50	I .	0.17	WQM	was cancelle	ed due to ad		er	0.24	I .	0.54		2.0	1
	30/1/2023	Fine	13:15	8.8	1.0	16.70	16.70	8.31	8.31	32.25	32.26	82.60	81.85	6.64	6.59	1.53	1.73	4.0	3.8
		rine	13:16	8.8	1.0	16.70		8.31		32.26		81.10		6.53	6.59	1.92	1./3	3.6	3.0

Impact Water Quality Monitoring at Station CF (Middle) - Ebb Tide

	0		Sampling	Water	Sampling	Temp	erature	р	Н	Sal	linity	DO Sa	turation	D	00	Turk	bidity		SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	g/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:05	8.7	4.4	17.80	17.80	8.05	8.05	32.74	32.74	79.50	78.75	6.25	6.18	8.34	8.27	4.5	4.4
	2/1/2023	1 1110	9:06	8.7	4.4	17.80	17.00	8.05	0.00	32.73	32.74	78.00	70.73	6.11	0.10	8.19	0.27	4.2	
	4/1/2023	Cloudy	8:56	8.7	4.4	17.40	17 40	8.05	8.06	32.69	32 68	79.10	78.80	6.24	6.22	12.18	12 18	11.0	11.2
	4/1/2020	Oloudy	8:57	8.7	4.4	17.40	17.40	8.06	0.00	32.67	02.00	78.50	70.00	6.20	U.L.	12.18	12.10	11.3	
	6/1/2023	Fine	8:19	8.4	4.2	18.10	18 10	8.04	8.04	32.55	32 54	79.90	80.30	6.23	6.26	6.54	6.46	8.6	8.4
	0/1/2020	1 1110	8:20	8.4	4.2	18.10	10.10	8.04	0.04	32.53	02.04	80.70	00.00	6.28	0.10	6.37	0.40	8.2	
	9/1/2023	Cloudy	8:30	8.5	4.3	18.20	18.20	8.01	8.01	32.62	32 62	80.60	80.60	6.30	6.24	9.48	9 43	10.4	10.2
	0/1/2020	Oloudy	8:31	8.5	4.3	18.20	10.20	8.01	0.01	32.61	02.02	80.60	00.00	6.18	0.14	9.37	0.40	10.0	
	11/1/2023	Cloudy	8:30	8.5	4.3	18.20	18 20	8.01	8.01	32.62	32.62	80.60	79 90	6.30	6.24	9.48	9 43	7.2	7.1
	11/1/2020	Oloddy	8:31	8.5	4.3	18.20	10.20	8.01	0.01	32.61	02.02	79.20	70.00	6.18	0.14	9.37	0.40	6.9	
	13/1/2023	Cloudy	8:32	8.2	4.1	18.90	18.90	8.05	8.05	32.62	32 61	80.40	79.75	6.20	6 17	7.67	7.63	5.3	5.5
CF	10/1/2020		8:33	8.2	4.1	18.90	10.50	8.05	0.00	32.59	02.01	79.10	70.70	6.13	0.17	7.59	7.00	5.7	
	16/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	18/1/2023	Fine	10:32	8.6	4.3	16.80	16.80	8.00	8.00	32.55	32.56	78.70	78.75	6.28	6.29	8.58	8.52	5.0	4.9
	10/1/2023	rille	10:33	8.6	4.3	16.80	10.00	8.00	0.00	32.57	32.30	78.80	70.75	6.29	0.29	8.45	0.32	4.8	4.5
	20/1/2023	Cloudy	8:45	8.6	4.3	16.80	16.85	7.99	7 99	32.36	32 37	77.80	78.10	6.23	6.26	5.45	5.52	4.1	3.9
	20/1/2023	Cioudy	8:46	8.6	4.3	16.90	10.03	7.98	1.55	32.37	32.31	78.40	70.10	6.28	0.20	5.59	3.32	3.7	3.5
	26/1/2023	Fine	8:22	8.3	4.2	16.50	16.55	8.07	8.07	32.35	32.35	76.90	77.40	6.21	6.24	7.22	7.22	54.0	29.6
	20/1/2023		8:23	8.3	4.2	16.60	10.55	8.07	0.07	32.35	32.33	77.90	77.40	6.27	0.24	7.21	1.22	5.2	20.0
	28/1/2023	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	30/1/2023	Fine	8:47 8:48	8.5 8.5	4.3	16.00 16.10	16.05	8.19 8.19	8.19	32.30 32.31	32.31	76.10 77.60	76.85	6.17 6.22	6.20	3.04	3.08	4.9 5.3	5.1
	1		2.40	2.0	0	70.10		0.10		J2.01		. 7.00		0.22		0.12	L	0.0	

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (Middle) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C		H	Sali	_		turation %	D m	-	Turt N°	oidity TU		ia/L
	Date		Time	m	m	Value	AVG	Value	AVG		AVG		AVG		AVG		AVG		AVG
	2/1/2023	Fine	13:18	8.2	4.1	18.60	18 60	8.15	8 15	32.72	32.73	81.20	80.65	6.28	6.25	10.01	9.94	5.0	
	2/1/2023	rine	13:19	8.2	4.1	18.60	10.00	8.15	0.15	32.73	32.13	80.10	00.00	6.21	0.23	9.87	9.94	5.2	1
	4/1/2023	Cloudy	13:18	8.5	4.3	18.10	18 10	8.15	8 15	32.68	32 68	77.90	78.65	6.11	6.17	12.74	12.71	9.6	
	4/1/2023	Cioudy	13:19	8.5	4.3	18.10	10.10	8.15	0.15	32.67	32.00	79.40	70.00	6.23	0.17	12.68	12.71	9.8	
	6/1/2023	Fine	13:18	8.6	4.3	18.80	18.80	8.15	8.15	32.60	32.59	79.30	79.95	6.14	6.21	7.97	8.00	6.2	
	6/1/2023	rine	13:19	8.6	4.3	18.80	10.00	8.15	0.15	32.58	32.59	80.60	79.95	6.27	0.21	8.02	0.00	5.9	1
	9/1/2023	Cloudy	13:19	8.7	4.4	18.60	18.60	8.14	8.14	32.64	32.64	77.90	78.65	6.04	6.12	6.30	6.49	4.1	
	8/1/2023	Cioudy	13:20	8.7	4.4	18.60	10.00	8.14	0.14	32.64	32.04	79.40	70.00	6.19	0.12	6.68	0.45	4.3	1
	11/1/2023	Cloudy	13:19	8.8	4.4	18.50	18.50	8.14	8 14	32.59	32 60	79.50	78.90	6.17	614	5.76	5.58	4.4	
	11/1/2023	Cloudy	13:20	8.8	4.4	18.50	10.50	8.14	0.14	32.60	32.00	78.30	70.90	6.11	0.14	5.39	5.56	4.0	1
	13/1/2023	Cloudy	13:15	8.7	4.4	19.00	19.00	8.12	8.12	32.48	32.48	80.90	79.90	6.24	6.19	4.89	4.91	3.8	
CF	13/1/2023		13:16	8.7	4.4	19.00	15.00	8.12	0.12	32.48	32.40	78.90	15.50	6.14	0.15	4.92	4.51	4.2	1
OI .	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	14:15	8.8	4.4	17.70	17 70	8.14	8 14	32.46	32 47	78.20	78.75	6.17	6.21	5.63	5.66	5.4	
	10/1/2023	rine	14:16	8.8	4.4	17.70	17.70	8.14	0.14	32.48	32.47	79.30	10.15	6.24	0.21	5.69	3.00	5.7	1
	20/1/2023	Cloudy	13:15	8.8	4.4	17.50	17.55	8.13	8.13	32.38	32.39	78.80	78.00	6.26	6.21	5.06	5.04	3.8	
	20/1/2023	Cloudy	13:16	8.8	4.4	17.60	17.55	8.13	0.13	32.40	32.39	77.20	76.00	6.15	0.21	5.02	5.04	4.1	1
	26/1/2023	Fine	13:16	8.7	4.4	17.20	17.20	8.18	8.18	32.31	32.31	76.50	76.60	6.20	6.22	5.12	5.11	3.6	
	20/1/2023		13:17	8.7	4.4	17.20	17.20	8.18	0.10	32.30	32.31	76.70	70.00	6.23	0.22	5.09	3.11	3.3	1
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	30/1/2023	Fine	13:17	8.8	4.4	16.40	16.45	8.32	8.32	32.32	32.32	82.90	83.15	6.72	6.75	5.07	5.02	4.8	
	30/1/2023	1 1110	13:18	8.8	4.4	16.50	10.45	8.31	0.32	32.32	32.32	83.40	03.13	6.78	0.73	4.97	3.02	5.2	1

Impact Water Quality Monitoring at Station CF (Bottom) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		0	Turk	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С		-	р	pt		%	m	g/L	N'	TU	m	g/L
	Date	l	TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/1/2023	Fine	9:08	8.7	7.7	17.90	17.90	8.06	8.06	32.70	32.71	77.30	78.20	6.08	6.15	10.23	10.20	4.1	4.0
	2/1/2023	1 1110	9:09	8.7	7.7	17.90	17.50	8.06	0.00	32.71	32.71	79.10	70.20	6.22	0.13	10.17	10.20	3.8	4.0
	4/1/2023	Cloudy	8:59	8.7	7.7	17.50	17.50	8.05	8.05	32.68	32 67	77.90	77.40	6.20	6 15	12.63	12.67	10.4	10.6
	4/ 1/2020	Cioday	9:00	8.7	7.7	17.50	17.00	8.05	0.00	32.65	02.07	76.90	77.40	6.10	0.10	12.70	12.07	10.7	10.0
	6/1/2023	Fine	8:22	8.4	7.4	18.20	18 20	8.05	8.05	32.60	32 61	79.10	78.50	6.17	6.13	6.04	6 15	9.6	9.4
	0.172020	1 1110	8:23	8.4	7.4	18.20	10.20	8.05	0.00	32.62	02.01	77.90	70.00	6.09	0.10	6.25	0.10	9.2	
	9/1/2023	Cloudy	8:33	8.5	7.5	18.00	18 00	8.02	8.02	32.58	32.59	78.50	79.20	6.14	6.20	8.57	8.63	11.5	11.7
	U 1/2020	Cioday	8:34	8.5	7.5	18.00	10.00	8.02	0.02	32.60	02.00	79.90	70.20	6.25	0.10	8.69	0.00	11.8	
	11/1/2023	Cloudy	8:33	8.5	7.5	18.00	18.00	8.02	8.02	32.58	32.59	78.50	79.20	6.14	6.20	8.57	8.63	8.3	8.2
	111112020	Cioudy	8:34	8.5	7.5	18.00	10.00	8.02	0.02	32.60	02.00	79.90	70.20	6.25	0.10	8.69	0.00	8.0	
	13/1/2023	Cloudy	8:34	8.2	7.2	18.90	18.90	8.07	8.07	31.92	31.93	80.40	79.65	6.23	6.17	5.55	5.73	4.6	4.9
CF		Strong	8:35	8.2	7.2	18.90		8.07		31.94		78.90		6.11	****	5.90		5.1	
	16/1/2023	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	18/1/2023	Fine	10:34	8.6	7.6	16.70	16.70	8.06	8.06	32.45	32 45	78.60	78.65	6.26	6.27	5.29	5.29	4.1	4.3
	10/1/2023	1 1110	10:35	8.6	7.6	16.70	10.70	8.06	0.00	32.45	32.43	78.70	70.03	6.28	0.27	5.28	3.25	4.4	4.0
	20/1/2023	Cloudy	8:47	8.6	7.6	16.80	16.80	8.01	8.01	32.34	32.35	77.60	77.10	6.24	6.20	4.90	4.88	3.5	3.4
	LOI II LOLO	Cioudy	8:48	8.6	7.6	16.80	10.00	8.01	0.01	32.36	02.00	76.60	77.10	6.15	0.10	4.85	4.00	3.3	0.4
	26/1/2023	Fine	8:24	8.3	7.3	16.60	16.55	8.09	8.09	32.37	32 37	77.40	76.90	6.26	6.22	9.72	9.54	8.1	8.0
	20/1/2023		8:25	8.3	7.3	16.50	10.55	8.09	0.05	32.36	32.31	76.40	70.50	6.17	0.22	9.35	3.54	7.8	0.0
	28/1/2023	Strong Monsoon Signal					•		WQM	was cancell	ed due to ad	verse weath	er		•	•			
	30/1/2023	Fine	8:49	8.5	7.5	15.90	15.95	8.21	8.21	32.28	32.28	77.20	76.65	6.23	6.25	5.06	5.08	6.5	6.3
			8:50	8.5	7.5	16.00		8.20	1	32.28	1	76.10		6.26		5.10		6.0	1

General Note: For calculation of average concentration of SS, the minimum value for "NOT DETECTED" is treated as 1.0mg/L according to reporting limit.

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Impact Water Quality Monitoring at Station CF (Bottom) - Flood Tide

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Tempe °(erature		H	Sali	_		turation		0		bidity		SS
Station Reference	Date	vv eatrier	Time				AVG	Value	AVG	Value	AVG		% AVG	Value	a/L AVG		TU	Value	g/L AVG
			40.04	m	m		AVG		AVG		AVG		AVG		AVG		AVG		
	2/1/2023	Fine	13:21	8.2	7.2	18.40	18.40	8.16	8.16	32.75	32.75	78.80	79.45	6.11	6.17	13.30	13.24	7.9	- 8.
			13:22	8.2	7.2	18.40		8.16		32.74		80.10		6.22		13.18		8.2	
	4/1/2023	Cloudy	13:21	8.5	7.5	18.10	18.10	8.15	8.15	32.68	32.68	78.20	77.15	6.13	6.07	12.50	12.96	10.0	
			13:22	8.5	7.5	18.10		8.15		32.68		76.10		6.00		13.42		10.3	
	6/1/2023	Fine	13:21	8.6	7.6	18.80	18.80	8.15	8.15	32.62	32.64	81.20	80.25	6.28	6.22	7.31	7.38	4.9	
			13:22	8.6	7.6	18.80		8.15		32.65		79.30		6.15		7.45		5.3	
	9/1/2023	Cloudy	13:22	8.7	7.7	18.60	18.60	8.14	8.14	32.61	32.62	78.90	78.15	6.16	6.10	8.35	8.33	5.0	
		,	13:23	8.7	7.7	18.60		8.14		32.62		77.40	1 1	6.03		8.30		4.6	
	11/1/2023	Cloudy	13:22	8.8	7.8	18.50	18.50	8.14	8.14	32.59	32.60	77.60	78.40	6.06	6.11	6.23	6.41	5.5	
		,	13:23	8.8	7.8	18.50		8.14		32.61		79.20		6.16	****	6.59		5.9	
	13/1/2023	Cloudy	13:17	8.7	7.7	18.90	18.90	8.13	8 13	32.52	32.52	80.40	79.85	6.19	6.15	5.50	5.49	4.7	
CF	10/1/2020		13:18	8.7	7.7	18.90	10.50	8.13	0.10	32.51	OZ.OZ	79.30	70.00	6.10	0.10	5.47	0.40	5.0	
o.	16/1/2023	Monsoon Signal							WQM	was cancelle	ed due to ad	verse weath	er						
	18/1/2023	Fine	14:17	8.8	7.8	17.70	17.75	8.14	8 14	32.45	32 46	79.70	79.30	6.29	6.26	5.13	5.21	6.6	6.
	18/1/2023	Fine	14:18	8.8	7.8	17.80	17.75	8.13	8.14	32.47	32.46	78.90	79.30	6.22	6.26	5.29	5.21	6.2	6.
			13:17	8.8	7.8	17.60		8.14		32.38	32.38	81.80		6.29		4.74	4.78	4.4	4.
	20/1/2023	Cloudy	13:18	8.8	7.8	17.50	17.55	8.14	8.14	32.38	32.38	79.60	80.70	6.28	6.29	4.82	4.78	4.8	4.0
		_	13:18	8.7	7.7	17.10		8.18		32.30		77.10		6.22		4.10		3.8	
	26/1/2023	Fine	13:19	8.7	7.7	17.20	17.15	8.17	8.18	32.30	32.30	76.50	76.80	6.19	6.21	4.18	4.14	4.1	4.
	28/1/2023	Strong Monsoon Signal							WQM	was cancelle	ed due to ad		er				ı	1	ı
	0045000		13:19	8.8	7.8	16.10	40.40	8.29	8.29	32.30	32.31	83.00	00.40	6.75	0.70	4.27	4.00	6.0	5.
	30/1/2023	Fine	13:20	8.8	7.8	16.10	16.10	8.29	8.29	32.31	32.31	83.80	83.40	6.80	6.78	4.36	4.32	5.7	5.

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2023

	Ac	ctual Quantities	of Inert C&D	Material Gen	erated Monthl	y	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated (a) (in '000m ³)	Hard Rocks and Large Broken Concrete (b) (in '000m³)	Reused in the Contract (c) (in '000m ³)	Reused in other Projects (d) (in '000m ³)	Disposed as Public Fill (a-b-c-d) (in '000m ³)	Imported Fill (in '000m ³)	Metals (in '000kg)	Paper/card- board packaging (in '000kg)	Plastics [see Note 3] (in '000kg)	Chemical waste (in '000kg)	Others. e.g. general refuse (in '000kg)
Jan	0.13	0.00	0.00	0.00	0.13	0.00	0.01	0.05	0.00	0.00	13.75
Feb	3.13	2.30	5.50	3.30	3.15	3.30	3.31	3.32	3.30	3.30	10.70
Mar											
Apr											
May											
Jun											
Sub-total	0.13	0.00	0.00	0.00	0.13	0.00	0.01	0.05	0.00	0.00	13.75
July											
Aug											
Sept											
Oct											
Nov											
Dec		·									
Total	0.13	0.00	0.00	0.00	0.13	0.00	0.01	0.05	0.00	0.00	13.75

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF)
- (2) The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank (TKO137FB)
- (3) The non-inert waste is disposed at NENT or Outlying Islands Transfer Facilities
- (4) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (5) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (6) Assume the density of fill material is 2 tonne/m3.

Appendix 6.1

Three Months Rolling Programme

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Reference No. : DC/2020/02

Revision No. : -

Construction Activities for the reporting period

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo UkTsuen, South Lantau Road, Pui O Beach
2	Excavation and site formation at SSWSTW and POSPS
3	HDD works at marine and SSWSTW
4	Superstructure RC Works

KL-CW JV

Tentative Three Months Construction Rolling Program

Contract No.: DC/2020/02

Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works Reference No. : DC/2020/02

Revision No. : -

Tentative Three Months (February, March and April 2023) Construction Rolling

Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo UkTsuen, South Lantau Road, Pui O Beach
2	HDD works at marine and SSWSTW
3	Site formation works
4	Drilling works
5	Excavation works
6	ELS works
7	Superstructure RC Works