CONTRACT NO: SD 15/2022

OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS – ENVIRONMENTAL TEAM SERVICES (2023 – 2024)

UNDER ENVIRONMENTAL PERMIT NO. EP-538/2017

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

MARCH 2023 REVISION 3

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Derek Lo

Environmental Team Leader

DATE:

14 April 2023



local people global experience

Our ref:

7076811/L29695/AW/KL/TK/rw

14 April 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 (March 2023)

With reference to the Monthly EM&A Report (March 2023) Revision 3 dated and certified by the ET Leader on 14 April 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

Independent Environmental Checker

CC Binnies Mr. Kevin CHAN

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 March 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 March 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
 - Removal works of Excavation and Lateral Support (ELS)
 - 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. School examination was taken place at N17 Bui O Public School on 1 March 2023 in the reporting period, the limit level shall be adjusted to 65dB(A) during this 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.
- viii. Water quality monitoring on 27 March 2023 was cancelled due to adverse weather.

Ecological Impact Monitoring

ix. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.



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

Complaint log

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

Notifications of Any Summons and Successful Prosecutions

xiv. No environmental notification of any summons and successful prosecution regarding the construction works was recorded in the reporting period.

Reporting Changes

xv. There are no particular reporting changes.

Future Key Issues

- xvi. 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
 - · Removal works of ELS
- xvii. Key construction activities for the next three months with the recommended mitigation measures to be implemented are presented as follows:

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

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Key Construction Works	Recommended Mitigation Measures		
Site formation works	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		
Removal works of ELS	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.

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	Resident Engineer	Mr. Kevin Chan*	3529 3013	-
Kwan Lee – Chun Wo Joint Venture	Contractor	Site Agent	Mr. Charles Tse	9270 3384	2744 6937
		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

^{*}Engineer's Representative of Binnies change from Mr. Clayton Lei to Mr. Kevin Chan start from 1 March 2023.

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 secondary sewage treatment works (STW) at San Shek Wan in South Lantau; (ii) construction of sewage pumping station (SPS) at Pui O, San Shek Wan, Cheung Sha and Cheung Fu Street; (iii) construction of about 1.4 kilometres (km) of submarine



outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan; (iv) construction of about 10.1 km of gravity sewers with diameters ranging from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan road and at Pui O; and (v) construction of about 3.1 km o twin rising mains with a diameter of 200 mm t o250 mm along South Lantau Road and Chi Ma Wan Road.

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)
 - Horizontal Directional Drilling (HDD) works at marine and SSWSTW
 - Removal works of Excavation and Lateral Support (ELS)
 - Superstructure Reinforced Concrete (RC) Works

The locations of works are shown in Figure 2.2.

- 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. 19)	8 February 2023^
Condition 2.13	Silt Curtain Deployment Plan (Rev. 11)	1 June 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 Water 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-RS0039-23	20 Jan 2023	03-02-2023 to 02-08-2023	Valid
Construction Noise Permit under Noise	GW-RS0840-22	3 Oct 2022	05-10-2022 to 26-03-2023	Valid
Control Ordinance for POSPS	GW-RS0230-23	7 Mar 2023	27-03-2023 to 26-09-2023	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 08, 14, 20 and 28 March 2023. IEC attended the SSEMC meeting held on 20 March 2023. Holding nursery visit for transplanted trees on 07 March 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
8 March 2023	South Lantau Road Rising Mains TTA (SSWSTW) 1. Construction materials under the trees should be removed in order to prevent the trees from being damaged during construction	13 March 2023
14 March 2023	San Shek Wan Sewage Treatment Works – Oil stain was observed, the contaminated material shall be rectified and treated as chemical waste properly Exposed slope should be well covered with impervious sheet to reduce dust nuisance	17 March 2023
20 March 2023	 General reminder - U-channel within the construction site should be cleared regularly to prevent flooding during raining Soil on the surface road within TTA area should be cleaned up regularly to prevent muddy surface run off into the public road during raining Contractor is remind to avoid the delivery of wet soil to landfills for disposal South Lantau Road Rising Mains TTA (Lo Wai) & San Shek Wan Sewage Treatment Works - Open stockpiles should be covered with tarpaulin or similar fabric 	23 March 2023
28 March 2023	South Lantau Road Rising Mains TTA (SSWSTW) – 1. Construction materials under the trees should be removed in order to prevent the trees from being damaged during construction	Will be rectified by next inspection

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 <u>Appendix 4.3</u>.
- 4.1.10 School examination was taken place at N17 Bui O Public School on 1 March 2023 in the reporting period, the limit level shall be adjusted to 65dB(A) during this period.
- 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	19H100656/14E101065
Turbid meter	Xin Rui WGZ-3B	2202001/1807073

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*.

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 To support water quality monitoring, the silt curtain deployment plan has minor updates to include an additional brand of geosynthetic material as alternative for selection and adopt underwater robot for inspecting condition of silt curtain.
- 4.2.12 Water quality monitoring on 27 March 2023 was cancelled due to adverse weather. No substitution would be arranged for such cancellation since it is impossible to maintain the monitoring frequency as three times a week for the event of marine water quality monitoring cancellation in between time with respect to the fact that not less than 36 hours interval shall be followed for two monitoring days as required by the EM&A Manual Clause 5.1.6 (b) for the

project.

- 4.2.13 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*.
- 4.2.14 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.
- 4.2.15 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.
- 4.2.16 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.
- 4.2.17 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

- 4.2.18 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>
- 4.2.19 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 Ma	rine Water Monitoring - derived criteria	
DO in mg/L ^B	Surface and Middle: 5.8 mg/L	Surface and Middle: 4 mg/L
DO In mg/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 data from control station ^D	station compared with corresponding data from control station D
	13.1 mg/L and	30.4 mg/L and
SS in mg/L (Depth-averaged ^A) ^C	20% exceedance of value at any impact station compared with corresponding data from control station ^D	30% exceedance of value at any impact station compared with corresponding data from control station D

19

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 "and" 20% / 30% exceedance of control station proposed in Baseline Monitoring Report.
- 4.2.20 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 ount
Station	Level exceeded	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood	Mid Ebb	Mid Flood
SR4	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	/	/	0	0
	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

4.2.21 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 (*Figure 2.5*) which are considered to be the plant species with conservative importance for temporarily transplanted to the nursery (*Figure 2.6*) 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 (07 March 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)	0	0	0



Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
(in '000m ³)			
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	0.19626	0.21003	9.59671
Metals (in '000kg)	0.00390	0	7.50150
Paper / Cardboard Packing (in '000kg)	0.01930	0	0.30928
Plastics (in '000kg)	0.00210	0	0.03186
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	14.94	5.37	450.34

^{*:} 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, summary of complaints and successful prosecutions are summarized in *Table 5.1*, *Table 5.2* and *Table 5.3* respectively.

Table 5.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
March 2023	0
Project commencement to the end of last reporting month	2
Total	2

Table 5.2 Summary of Complaints

Date of Notification from EPD	Date of Complaint	Description of Complaint	Validity of Complaint	Close-Out Date / Status
26 May 2022	22 May 2022	A complaint is regarding noise nuisance from marine site of San Shek Wan, Lantau Island.	Based on the investigation, the works activities of marine works did not result in any noise nuisance to Noise Sensitive Receivers (NSRs), noise nuisance from the Project is unlikely to be valid.	The interim report was submitted to EPD in June 2022. EPD replied no further comments on the final investigation report on 13 July 2022.
23 Dec 2022	21 Dec 2022	A complaint is regarding to the water quality for Pui O Beach, Lantau Island.	Based on the investigation, the works activities at POPS did not result in any water quality impacts to the Pui O Beach.	The interim report was submitted to EPD on 4 Jan 2023.

Table 5.3 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
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
 - Removal works of ELS
- 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 April 2023 to June 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	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
Removal works of ELS	control; and
	Proper waste handling, recycling and storage.

7 Conclusion

7.1 Noise Monitoring

- 7.1.1 School examination was taken place at N17 Bui O Public School on 1 March 2023 in the reporting period, the limit level shall be adjusted to 65dB(A) during this period.
- 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 Water quality monitoring on 27 March 2023 was cancelled due to adverse weather.
- 7.2.3 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 07 March 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
7 March 2023	 Transplanted trees in holding nursery at Kam Tin The Contractor was reminded to reinstate the integrity of the water bag for the plant species of conservation importance, <i>Gmelina chinensis</i> (T751) The Contractor was reminded to provide watering to all tree species temporarily transplanted in the holding nursery on a frequent basis during dry season 	16 March 2023

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

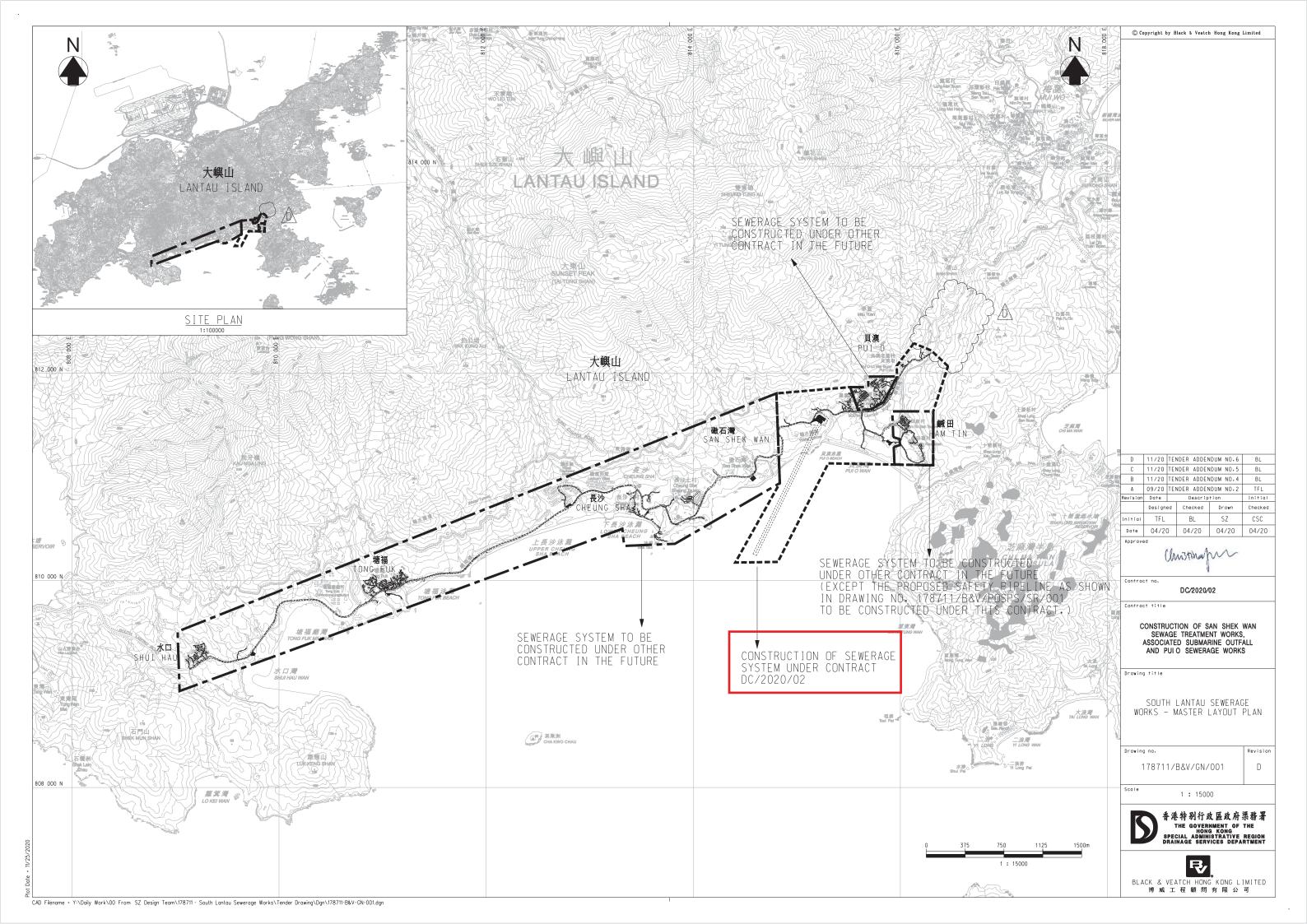


Figure 2.2

Contract Layout Plan

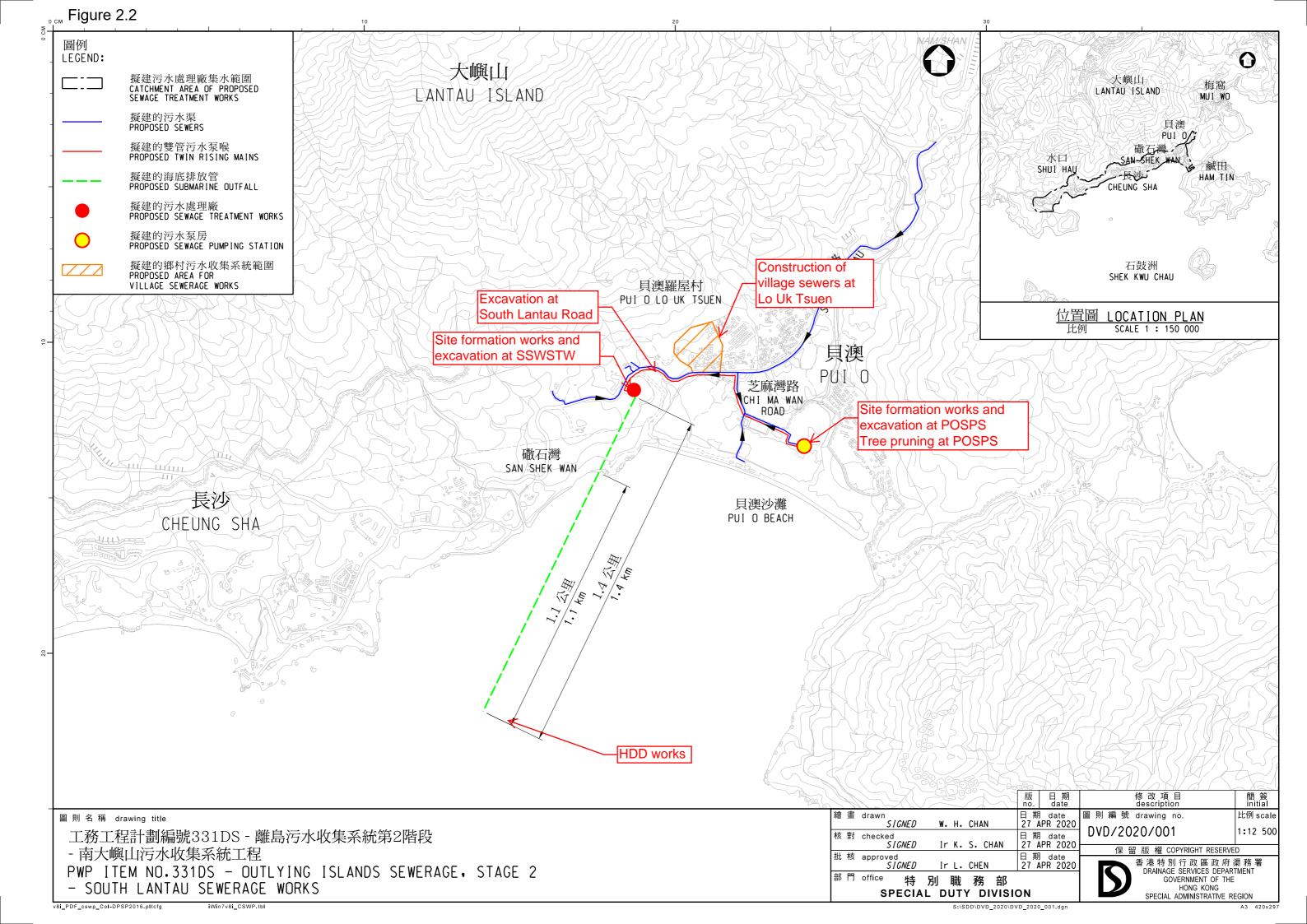


Figure 2.3

Locations of Noise Monitoring Station

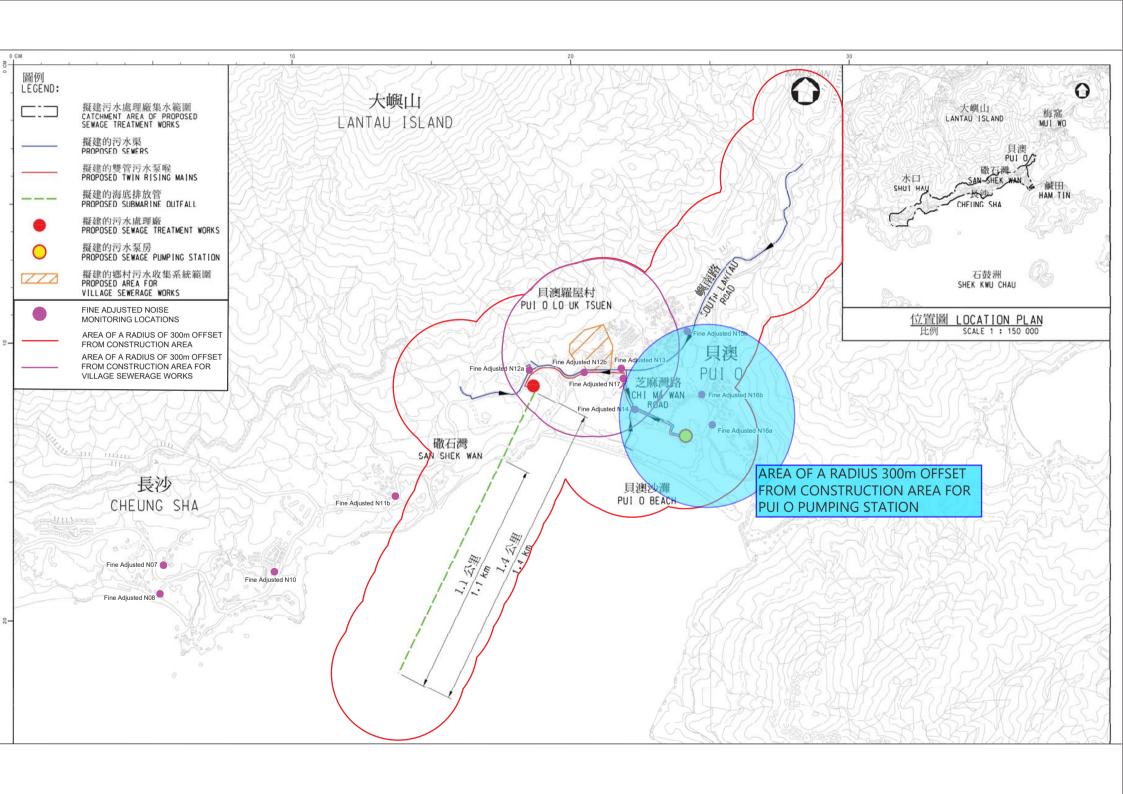


Figure 2.4 Locations of Water Quality Monitoring Stations

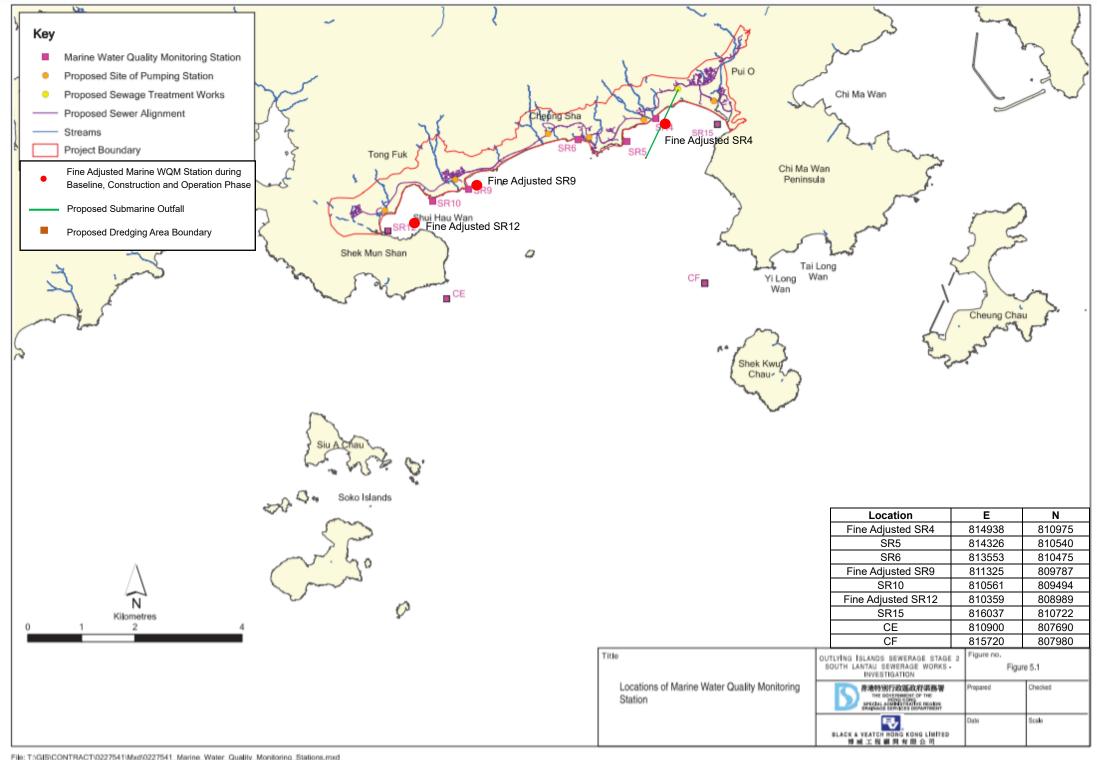


Figure 2.5

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

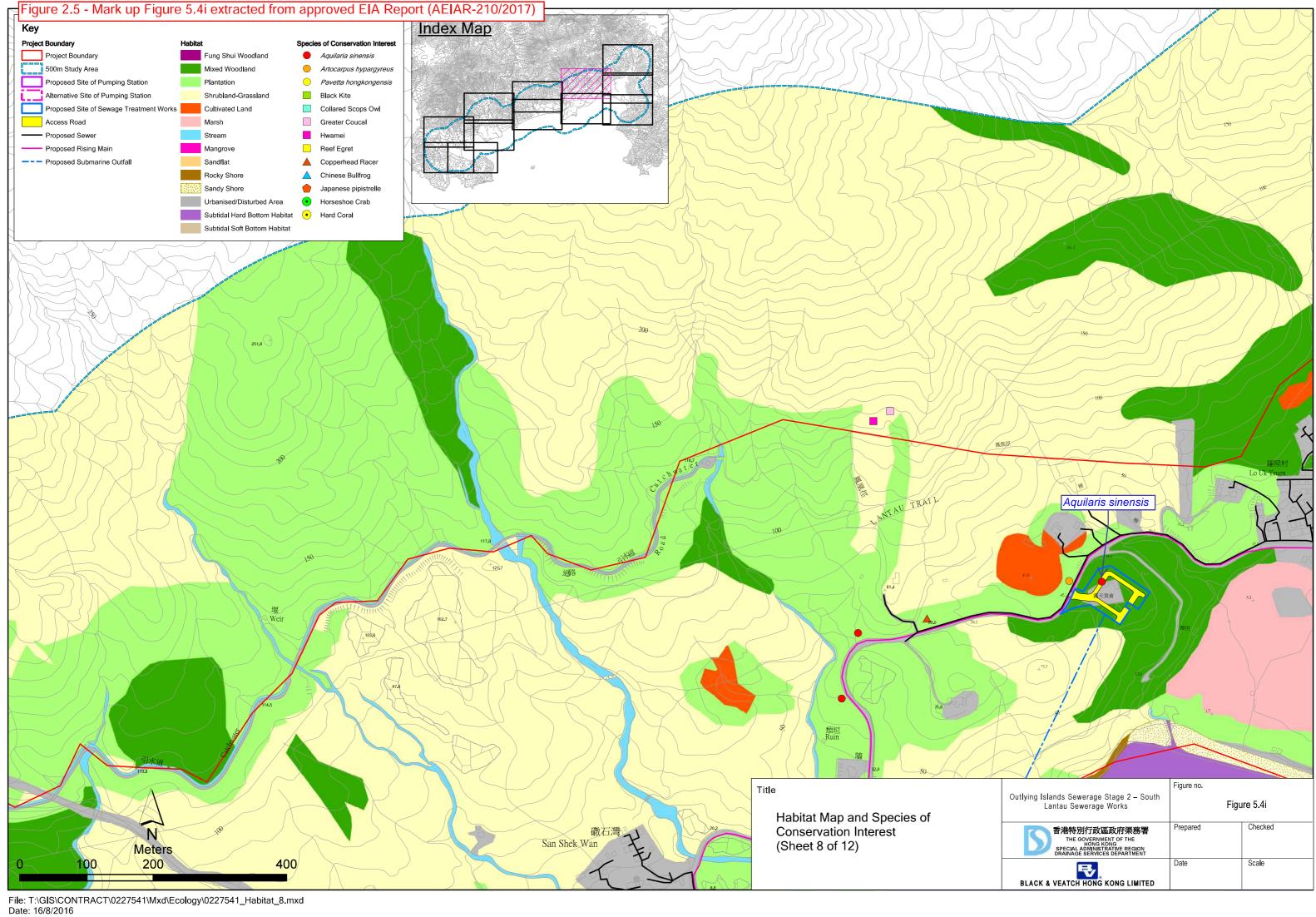
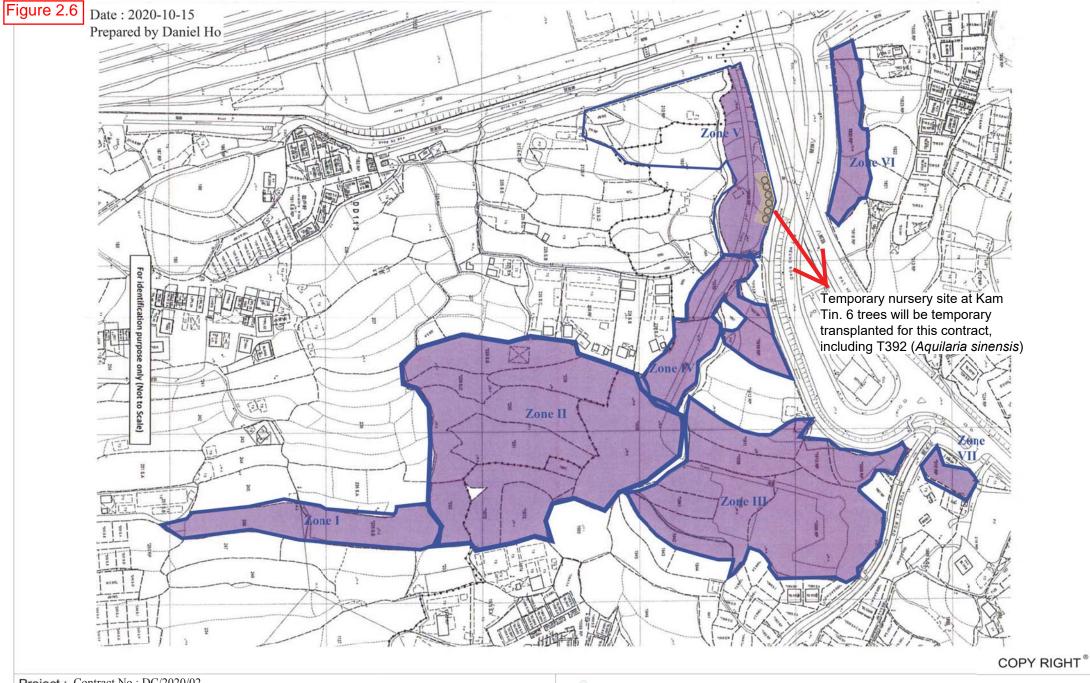


Figure 2.6

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	Expected level Actual level		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

17-Apr-2022

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

Report: 22CA0412 03

Date

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	Actual level	Tolera	nce (dB)	Deviation
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

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

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



ALS Technichem (HK) Pty Ltd

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: DEREK LO

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

ADDRESS: 19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER: HK2303761

SUB-BATCH: 0

LABORATORY: HC

HONG KONG

DATE RECEIVED: DATE OF ISSUE: 31-Jan-2023 09-Feb-2023

SPECIFIC COMMENTS

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

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

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

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

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Dissolved Oxygen, pH Value, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./ Equipment No.:

[19H100656/14E101065]/[N/A]

Date of Calibration:

08-February-2023

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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WORK ORDER:

HK2303761

SUB-BATCH:

0

DATE OF ISSUE:

09-Feb-2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./

Equipment No.:

[19H100656/14E101065]/[N/A]

Date of Calibration:

08-February-2023

Date of Next Calibration:

08-May-2023

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.79	2.61	-0.18
5.24	5.34	+0.10
7.60	7.65	+0.05
	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	3.91	-0.09
7.0	7.02	+0.02
10.0	9.90	-0.10
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	9.58	-4.2
20	19.84	-0.8
30	29.16	-2.8
	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

WORK ORDER:

HK2303761

ALS

SUB-BATCH:

0

DATE OF ISSUE:

09-Feb-2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[Professional Plus]

Serial No./

[19H100656/14E101065]/ [N/A]

Equipment No.: Date of Calibration:

08-February-2023

Date of Next Calibration:

08-May-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)
11.5	10.9	-0.6
22.0	21.2	-0.8
38.0	37.3	-0.7
	Tolerance Limit (°C)	±2.0

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



Information supplied	by customer:		
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-C20D4402

CLIENT: LAM ENVIRONMENTAL SERVICES LTD.

DATE RECEIVED: 20/03/2023 DATE OF ISSUE: 28/03/2023

ADDRESS: 19/F, REMAX CENTRE, 42 WONG CHUK HANG ROAD,

HONG KONG

PROJECT:

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

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

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

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	2202001	
Equipment No.:		
Date of Calibration:	27/03/2023	

Remarks:

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

Certified By:

WONG Chi Wai Sanio

Senior Chemist

Issue Date:

28/03/2023

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Form No.: HG022-002 Rev 0 20190101

Page 1 of 2



WORK ORDER:

22777053-C20D4402

DATE OF ISSUE:

28/03/2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	2202001	
Equipment No.:		
Date of Calibration:	27/03/2023	
Date of next Calibation:	27/06/2023	
Lab I.D.:	H230017-02	

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	99.39	-0.6%	
400	392	-2.0%	
1000	996	-0.5%	
	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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Form No.: HG022-002 Rev 0 20190101

Page 2 of 2



Information supplied	hy customer:			
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-C03D3701	
CLIENT:	LAM ENVIRONMENTAL SERVICES LTD.			
DATE RECEIVED:	03/03/2023			
DATE OF ISSUE:	13/03/2023			
ADDRESS:	19/F, REMAX CENTRE, 42 WONG	CHIIK HANG ROAD		
ADDRESS:	HONG KONG	chek hand koab,		
PROJECT:				
TROJECT.				
METHOD OF PERF Ref: APHA22nd ed 21	ORMANCE CHECK/ CALIBRATIO	DN:		
equipment in the labor	tem under performance check/calibratio ratory. and calibration frequency stated in the re-			
FT Laboratories Ltd w		port, uniess offici wise stated, th	o internar acceptance circuita ex	
Scope of Test:		Turbidity		
Equipment Type:		Turbidimeter		
Brand Name:		Xin Rui		
Model No.:		WGZ-3B		
Serial No.:		1807073		
Equipment No.:				
Date of Calibration:		10/03/2023		
Remarks:		10/03/2023		
	rt. Results apply to sample(s) as submitt	ed All pages of this report have	heen checked and approved	
for release.	it. Results apply to sample(s) as submit	ed. 7 m pages of ans report have	ocon enconed and approved	
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Contified Pro		Issue Date:	13/03/2023	
Certified By:	WONG Chi Wai Sania	ISSUE Date:	1310312023	
	WONG Chi Wai Sanio			
	Senior Chemist			

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Form No.: HG022-002 Rev 0 20190101

Page 1 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



WORK ORDER:

22777053-C03D3701

DATE OF ISSUE: 13/03/2023

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807073	
Equipment No.:		
Date of Calibration:	10/03/2023	
Date of next Calibation:	10/06/2023	
Lab I.D.:	H230010-01	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.00	0.0%	
10	9.98	-0.2%	
40	40.00	0.0%	
100	98.86	-1.1%	
400	400	0.0%	
1000	994	-0.6%	
	Tolerance Limit (±)	10%	17

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

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Form No.: HG022-002 Rev 0 20190101

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Appendix 4.2

Impact Monitoring Schedule for Reporting Month and Next Month



CONTRACT NO: SD 15/2022

Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works Environmental Team Services (2023-2024) Impact Environmental Monitoring Schedule Mar 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
26 Feb	27 Feb	28 Feb	01 Mar	02 Mar	03 Mar	04 Mar
			Naisa Manitarina			
			Noise Monitoring			
	Mid-Ebb 18:15		Mid-Ebb 18:30*			Mid-Ebb 11:25
	Mid-Flood 10:36		Mid-Flood 8:38			Mid-Flood 16:10
05 Mar	06 Mar	07 Mar	08 Mar	09 Mar	10 Mar	11 Mar
			Noise Monitoring			
	Mid-Ebb 12:18		Mid-Ebb 13:02		Mid-Ebb 14:03	
12 Mar	Mid-Flood 17:39 13 Mar	14 Mar	Mid-Flood 7:20 15 Mar		Mid-Flood 8:25 17 Mar	18 Mar
				Noise Monitoring		
	Mid 5hb 45.50		Mid Eth 40.00			Mid File 40:04
	Mid-Ebb 15:53 Mid-Flood 9:17		Mid-Ebb 18:09 Mid-Flood 10:00*			Mid-Ebb 10:24 Mid-Flood 14:57
19 Mar	20 Mar	21 Mar	22 Mar	23 Mar	24 Mar	25 Mar
			Nicio - Mandania -			
			Noise Monitoring			
	Mid-Ebb 11:54 Mid-Flood 17:13		Mid-Ebb 13:00 Mid-Flood 18:00*		Mid-Ebb 14:08 Mid-Flood 7:55	
26 Mar		28 Mar	29 Mar			
						·
	WQM for Mid-Flood and		Noise Monitoring			
	Mie-Ebb was cancelled due to adverse weather					
	and the desired weather					
	Mid-Ebb 16:16		Mid-Ebb 18:46		Mid-Ebb 18:30*	
	Mid-Flood 9:06		Mid-Flood 9:01*		Mid-Flood 8:45	



CONTRACT NO: SD 15/2022

Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works Environmental Team Services (2023-2024) Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 3) Apr 2023

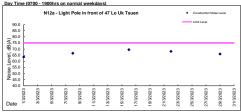
Note:

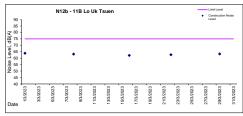
*Mid-tide time during daylight period of the ebb/flood tide is scheduled in consideration of navigation safety and to capture major marine works operation.

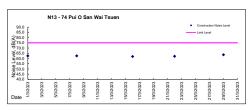
lay
01 Ap
08 Ap
15 Ap
9:00° 13:30°
22 Ap
13:42
7:10
29 Ap
0.14-
6-May

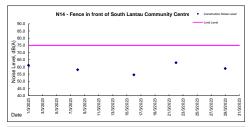
Appendix 4.3

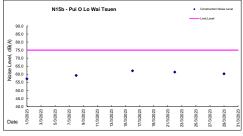
Noise Monitoring Results and Graphical Presentations

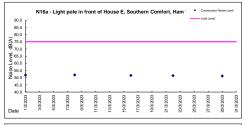


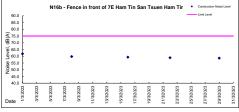


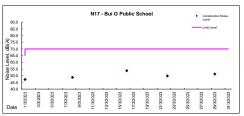














Day Time (0700 - 1900hrs on normal weekdays)

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

			0-11111		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	M: 0	Other Noise
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	
			CHECK		Unit	dB(A), (5	i-min)		Unit:	dB(A), (30-min)	•	Noise Source(s)*	Source(s)
				14:15	65.2	67.7	46.7						
				14:20	61.5	62.2	45.5						
1 Mar 2023	Sunny	0.3	94.1	14:25	57.4	59.2	44.7	63.5	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic, Do</td></baseline>	75	N/A	Traffic, Do
	Guiniy		•	14:30	63.1	65.0	46.5	00.0	70.0	Subdimo Edvor		19/74	Hanne, Do
				14:35	62.8	64.5	45.8						
				14:40	66.4	68.4	47.8						
				14:15	68.4	71.4	46.5						
				14:20	65.2	67.9	46.2						
8 Mar 2023	Sunny	0.0	94.1	14:25	66.6	69.5	47.3	66.6	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic, Do</td></baseline>	75	N/A	Traffic, Do
0 11102 2020			•	14:30	60.9	63.3	44.4					19/74	Hanne, Do
				14:35	66.5	69.0	44.9						
				14:40	68.3	71.4	46.7						
				14:15	70.9	74.9	46.5						
				14:20	71.4	75.6	44.1						Traffic, Dogs
16 Mar 2023	Sunny	0.0	94.1	14:25	64.1	67.2	43.9	69.5	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td></baseline>	75	N/A	
				14:30	69.8	73.8	47.8					1971	
				14:35	67.3	71.1	46.3						
				14:40	70.2	74.2	44.9						
				14:15	69.6	73.1	46.1						
				14:20	67.2	70.4	45.9						
22 Mar 2023	Cloudy	0.6	94.1	14:25	65.7	68.9	46.4	68.1	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic, Do</td></baseline>	75	N/A	Traffic, Do
				14:30	65.7	68.7	45.9	1				1 1/11	Tiunie, Do
				14:35	68.6	72.1	45.5						
				14:40	70.0	73.5	46.8						
				14:15	68.4	71.2	47.5	1					
				14:20	65.9	68.5	45.9	↓					
29 Mar 2023	Cloudy	0.1	94.1	14:25	64.6	67.1	46.4	66.0	73.3	<baseline level<="" td=""><td>75</td><td>75 N/A</td><td>Traffic, Dogs</td></baseline>	75	75 N/A	Traffic, Dogs
	,			14:30	61.8	64.3	45.8	1			/5 N/A	rianic, Dogs	
				14:35	64.6	66.5	45.9	1					
			1	14:40	67.6	70.6	46.6	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

			0 11 11		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od N. '
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)	•	Noise Source(s)*	Source(s)
				13:40	65.2	69.5	47.7						
				13:45	61.5	65.7	44.4						
1 Mar 2023	Sunny	0.0	94.1	13:50	59.9	65.1	45.3	63.9	76.8	<baseline level<="" td=""><td>75</td><td>Encounting</td><td>Traffic</td></baseline>	75	Encounting	Traffic
1 Wai 2023	Outility	0.0	34.1	13:55	63.2	67.5	47.2	00.5	70.0	CDASCING ECVO	75	Excavating	Hanne
				14:00	64.7	68.9	44.9						
				14:05	65.9	70.3	48.1						
				13:40	63.1	67.7	48.6						
				13:45	64.7	62.3	45.6						
8 Mar 2023	Sunny	0.0	94.1	13:50	63.5	64.5	46.8	63.2	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
6 Wai 2023	Outility	0.0	34.1	13:55	60.9	66.3	48.3	00.2	70.0	CDASCING ECVO	75	IVA	Hallic
				14:00	59.5	67.5	47.3						
				14:05	65.0	66.0	47.8						
				13:40	64.1	65.3	48.9						
				13:45	56.8	58.2	46.1						
16 Mar 2023	Sunny	0.0	94.1	13:50	61.3	63.2	47.7	62.2	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="2">Traffic</td></baseline>	75	N/A	Traffic
10 mai 2020	Outility	0.0	0	13:55	63.2	64.5	48.8	UZ.Z	70.0	CDASCING ECVO	75	INA	
				14:00	64.1	65.4	49.1						
				14:05	59.7	61.1	46.8						
				13:40	62.8	64.1	47.8						
				13:45	62.2	66.8	48.5						
22 Mar 2023	Cloudy	0.0	94.1	13:50	62.5	65.7	49.3	62.7	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
EE Mai EoEo	Cioday	0.0	0	13:55	62.9	64.3	47.7	OZ.II	70.0	ADGOOMIO EOVOI		INA	Transc
				14:00	61.3	60.8	46.5						
				14:05	64.2	66.9	49.2						
				13:40	64.4	66.6	49.2						
				13:45	61.6	67.7	48.7						
29 Mar 2023	Cloudy	0.0	94.1	13:50	62.5	65.8	48.6	63.3	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
20 11101 2020	Sibudy	3.0	0 7.1	13:55	62.2	63.4	47.5		. 3.0	450001110 ECVOI		IN/A	Hallic
				14:00	64.9	64.6	48.1						1
	I		1	14:05	63.4	66.7	48.3	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

					Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	V	Other
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Major Construction	Noise
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				11:30	63.3	67.0	53.3						
				11:35	57.7	60.7	53.1						
1 Mar 2023	Sunny	0.0	94.1	11:40	58.6	61.7	54.2	62.5	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
i mai zozo	Curry	0.0	0	11:45	59.3	63.0	54.0	02.0	70.0	ADGOOM O EOVO		IVA	Hanne
				11:50	65.8	69.5	53.1						
				11:55	64.1	67.8	53.2						
				11:30	64.2	67.5	52.8						
				11:35	64.4	67.5	53.7						
8 Mar 2023	Sunny	0.0	94.1	11:40	60.1	63.3	53.8	62.5	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			11:45	61.2	64.2	54.1					1 1/11	
				11:50	58.6	60.5	52.6						
				11:55	63.5	67.2	53.8						
				11:30	63.1	66.2	53.4						
				11:35	56.5	59.5	51.1						
16 Mar 2023	Sunny	0.0	94.1	11:40	63.0	65.7	52.9	61.9	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td rowspan="2">Traffic</td></baseline>	75	N/A	Traffic
				11:45 11:50	59.8	62.6 64.8	52.8 53.3						
				11:55	62.1 63.4	66.3	51.6						
				11:30	61.6	64.6	52.5						
				11:35	63.1	66.1	53.3						
				11:40	61.8	64.8	52.6						
22 Mar 2023	Cloudy	0.0	94.1	11:45	63.4	66.5	52.9	62.1	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				11:50	61.0	64.2	51.9						
				11:55	61.1	64.5	53.6						
				11:30	60.4	63.6	54.3						
				11:35	61.8	64.9	54.2						
00.14 0000	01	0.0	04.4	11:40	64.8	68.1	54.0	63.6	73.6	<baseline level<="" td=""><td>75</td><td></td><td>m cc</td></baseline>	75		m cc
29 Mar 2023	Cloudy	0.0	94.1	11:45	64.5	67.5	54.3	63.6	/3.6	<baseline level<="" td=""><td>/5</td><td>N/A</td><td>Traffic</td></baseline>	/5	N/A	Traffic
				11:50	64.5	67.8	53.2						
				11:55	63.8	66.7	53.4						

^{*} 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

			0.17		Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Noise
			CHECK		Unit:	dB(A), (5	-min)		Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:55	64.0	66.1	45.4						
				11:00	53.2	56.0	42.3						
1 Mar 2023	Sunny	0.0	94.1	11:05	61.9	66.0	41.4	61.1	62.2	<baseline level<="" td=""><td>75</td><td>27/4</td><td>T</td></baseline>	75	27/4	T
i Wai 2023	Suring	0.0	34.1	11:10	55.5	58.2	43.2	61.1	02.2	<daseille level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></daseille>	75	N/A	Traffic
				11:15	61.1	64.0	46.1						
				11:20	62.8	65.5	45.1						
				10:55	60.9	63.7	45.0						
				11:00	59.5	62.5	45.8						
8 Mar 2023	C	0.0	94.1	11:05	54.1	56.8	43.6	58.1	62.2	<baseline level<="" td=""><td>75</td><td>27/1</td><td>m or</td></baseline>	75	27/1	m or
8 Mar 2023	Sunny	0.0	94.1	11:10	57.2	61.3	43.7	56.1	62.2	 	75	N/A	Traffic
				11:15	56.8	59.5	44.4						
				11:20	56.6	59.2	44.5						
				10:55	46.8	49.8	41.2						
				11:00	57.9	60.5	44.1						
	0	0.0	94.1	11:05	49.6	53.9	43.5	545	62.2	<baseline level<="" td=""><td>7.5</td><td></td><td>m ee</td></baseline>	7.5		m ee
16 Mar 2023	Sunny	0.0	94.1	11:10	50.3	53.0	41.5	54.5	62.2	 	75	N/A	Traffic
				11:15	55.7	58.5	43.1						
				11:20	56.6	59.4	42.4						
				10:55	61.5	64.6	57.8						
				11:00	64.0	67.2	49.5						
	011	0.0	94.1	11:05	61.8	64.8	48.0	20.0	00.0		7.5		m ee
22 Mar 2023	Cloudy	0.0	94.1	11:10	62.4	66.3	49.2	62.9	62.2	55	75	N/A	Traffic
				11:15	66.1	68.2	50.0						
				11:20	56.8	60.0	46.9						
				10:55	53.0	56.8	45.0						
				11:00	61.8	64.2	46.9						
				11:05	54.4	57.9	45.0						
29 Mar 2023	Cloudy	0.0	94.1	11:10	59.0	61.8	46.1	58.9	62.2	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				11:15	60.2	63.2	46.8						
				11:20	59.2	62.8	50.6						

 $^{^{\}ast}$ 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

			0-111		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	57.0	61.8	49.2						
				15:05	55.7	60.5	48.4						
1 Mar 2023	Sunny	0.4	94.1	15:10	58.9	63.6	46.8	57.2	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
i ividi 2023	Suring	0.4	34.1	15:15	58.3	63.1	50.3	37.2	10.1	Chaseline Level	75	IN/A	Traine
				15:20	56.4	61.2	47.2						
				15:25	55.6	60.4	48.3						
				15:00	57.5	61.8	48.1						
				15:05	57.7	62.2	48.3						
8 Mar 2023	Sunny	0.0	94.1	15:10	62.3	66.2	50.5	59.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 IVIdi 2023	Odiniy	0.0	34.1	15:15	59.9	65.1	47.5	33.3	70.7	CDESCRITE LEVEL	75	IN/A	Traine
				15:20	56.8	61.2	48.7						
				15:25	58.9	63.5	49.8						
				15:00	61.2	65.5	50.7						
				15:05	58.1	61.8	49.3						
16 Mar 2023	Sunny	0.3	94.1	15:10	61.3	66.7	48.7	62.2	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
16 Wai 2023	Suring	0.5	34.1	15:15	66.7	69.6	51.3	02.2	70.7	Chaseline Level	75	IN/A	Traine
				15:20	59.4	63.6	49.8						
				15:25	60.0	63.8	48.3						
				15:00	60.3	64.5	49.9						
				15:05	58.8	63.2	50.1						
22 Mar 2023	Cloudy	0.6	94.1	15:10	64.4	68.3	50.2	61.4	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
EE Mids EGEO	Oloddy	0.0	04.1	15:15	62.6	67.3	50.4	01		ADDOOMING EGYON		IVA	Hanne
				15:20	58.8	62.8	49.6						
				15:25	60.3	64.5	50.2						
				15:00	60.7	65.5	49.4						
				15:05	58.4	62.2	49.5						
29 Mar 2023	Cloudy	0.7	94.1	15:10	61.9	66.3	50.5	60.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	Oloudy	0.7	0	15:15	61.5	65.7	49.9	00.5	70.7	CDASONIIC LOVE	7.5	IVA	Hanne
				15:20	57.7	62.2	49.3						
				15:25	60.0	64.7	48.6						

^{*} 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

					Measure	ement Noi	ise I evel	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	
Date	Weather	Wind Speed	Calibration	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise
			Check			dB(A), (5		-71		dB(A), (30-min)	Loq	Noise Source(s)*	Source(s)
				9:45	49.9	52.1	47.1						
				9:50	54.1	57.2	47.3						
1 Mar 2023	Sunny	0.2	94.1	9:55	51.8	55.1	47.5	51.8	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
i ividi 2023	Suriny	0.2	34.1	10:00	48.6	50.8	47.2	31.0	00.1	<daseline level<="" p=""></daseline>	75	N/A	Trame
				10:05	53.2	55.4	48.1						
				10:10	51.1	53.3	47.2						
				9:45	51.8	54.2	44.9						
				9:50	54.9	57.3	45.8						
8 Mar 2023	Sunny	0.0	94.1	9:55	49.2	52.0	44.6	51.9	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,			10:00	51.5	56.8	45.5					IVA	Tiunic
				10:05	51.8	54.9	45.6						
				10:10	49.9	52.7	44.7						
				9:45	49.0	52.5	41.5						
				9:50	48.6	51.7	43.0						
16 Mar 2023	Sunny	0.1	94.1	9:55	50.3	57.7	42.5	51.6	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:00	48.9	52.4 58.3	41.3						
				10:05 10:10	55.8 51.7	54.3	42.6 41.8						
				9:45	50.3	53.0	43.2						
				9:50	55.2	57.5	44.1						
				9:55	50.2	53.1	42.9						
22 Mar 2023	Cloudy	1.1	94.1	10:00	50.5	55.2	44.6	51.5	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:05	50.7	53.6	45.5						
				10:10	48.6	51.5	44.2						
				9:45	49.9	55.0	43.8						
				9:50	50.1	53.1	44.7						
	Q			9:55	50.2	54.2	43.5	540		5	7.5		
29 Mar 2023	Cloudy	8.0	94.1	10:00	50.5	53.3	44.1	51.2	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:05	53.9	56.5	45.3						
				10:10	51.3	55.3	44.9	1					

^{*} 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 No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Od N.
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construct	Other Noise
			CHECK		Unit	dB(A), (5	i-min)		Unit:	dB(A), (30-min)	•	ion Noise	Source(s)
				10:20	59.5	64.1	49.2						
				10:25	64.6	58.2	46.7						
1 Mar 2023	Sunny	0.0	94.1	10:30	60.0	64.8	47.8	61.8	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
i mai zozo	Curiny	0.0	0	10:35	60.3	65.1	47.4	01.0	00.0	CDUSCHIIC ECVO	75	IN/A	Hanne
				10:40	61.2	66.0	48.3						
				10:45	62.8	67.6	46.9						
				10:20	59.8	63.2	43.8						
				10:25	61.1	64.7	45.9						
8 Mar 2023	Sunny	0.0	94.1	10:30	59.0	62.4	45.1	59.8	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
o iviai 2023	Suring	0.0	34.1	10:35	60.2	65.8	44.1	39.0	00.5	Chaseline Level	75	N/A	Hallic
				10:40	59.2	57.2	43.7						
				10:45	59.1	62.2	46.2						
				10:20	59.6	61.4	44.1						
				10:25	54.8	56.9	41.3						
16 Mar 2023	Sunny	0.0	94.1	10:30	61.1	67.6	41.4	59.3	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Teoffic Tour</td></baseline>	75	N/A	Teoffic Tour
10 Iviai 2023	Suring	0.0	34.1	10:35	58.2	60.4	43.2	39.3	00.5	Chaseline Level	75	N/A	Traffic, Touris
				10:40	61.6	63.9	44.1						
				10:45	57.3	59.4	41.3						
				10:20	59.3	61.9	43.6						
				10:25	57.6	60.4	43.2						
22 Mar 2023	Cloudy	0.0	94.1	10:30	59.7	64.6	42.9	58.9	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
22 IVIdi 2023	Cloudy	0.0	34.1	10:35	58.8	62.7	43.0	30.3	00.5	Chaseline Level	75	N/A	Hallic
				10:40	59.9	60.2	43.5						
				10:45	57.8	60.4	43.4						
				10:20	59.0	63.6	42.0						
				10:25	57.0	58.2	42.0						
29 Mar 2023	Cloudy	0.0	94.1	10:30	58.8	61.6	43.2	58.6	68.5	<baseline level<="" td=""><td>75</td><td>27/4</td><td>T65.</td></baseline>	75	27/4	T65.
23 Iviai 2023	Cloudy	0.0	34.1	10:35	59.0	63.1	44.2	0.00	00.0	<dasellile level<="" p=""></dasellile>	10	N/A	Traffic
				10:40	58.0	58.4	43.0						
				10:45	59.4	63.5	43.5						

 $^{^{\}star}$ 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

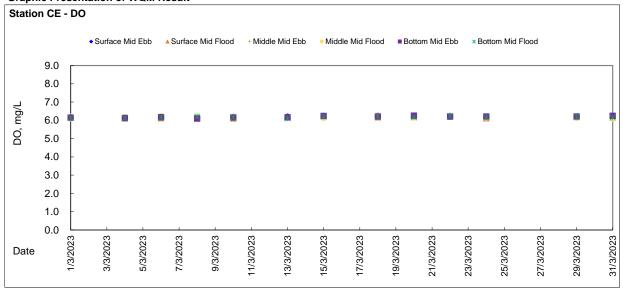
			0-11111		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				13:00	46.8	48.9	43.2						
				13:05	47.8	49.8	44.5						
1 Mar 2023	Sunny	0.1	94.1	13:10	47.0	48.7	43.8	47.2	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
1 Mai 2020	Guilly	0.1	04.1	13:15	46.9	48.6	42.8	77.2	02.0	CDascille Ecvel	70	IVA	Hanne
				13:20	47.1	48.9	43.5						
				13:25	47.5	49.2	44.6						
				13:00	48.1	50.0	43.7						
				13:05	48.8	51.0	42.9						
8 Mar 2023	Sunny	0.0	94.1	13:10	48.2	50.5	42.5	48.8	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
0 Ividi 2023	Curry	0.0	04.1	13:15	48.4	50.6	42.9	10.0	02.0	ADDOOMING EDVOI	70	IVA	Hanne
				13:20	49.2	51.7	44.2						
				13:25	49.6	51.4	42.8						
				13:00	55.8	57.2	45.8						
				13:05	54.0	56.9	47.1						
16 Mar 2023	Sunny	0.0	94.1	13:10	53.1	55.4	45.4	53.8	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	52.9	56.0	45.5				• •	1771	Tiuric
				13:20	53.8	56.6	45.7						
				13:25	52.0	54.4	46.2						
				13:00	49.3	51.5	43.5						
				13:05	50.4	52.9	43.4						
22 Mar 2023	Cloudy	0.2	94.1	13:10	49.5	52.1	43.6	49.8	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	49.5	51.4	44.1					1 1/11	1141110
				13:20	49.7	52.2	44.4						
				13:25	50.5	51.9	43.5						
				13:00	52.1	53.9	44.8						
				13:05	52.1	54.8	46.1	1					
29 Mar 2023	Cloudy	0.1	94.1	13:10	52.9	54.5	45.3	51.3	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
	,			13:15	49.8	52.1	43.6						
				13:20	50.2	52.6	44.2	1					
				13:25	49.1	51.4	43.6						

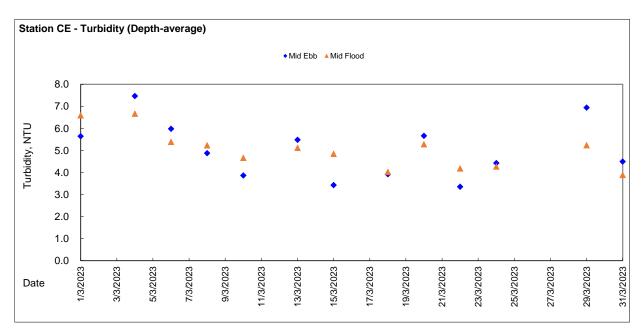
^{*} N/A refers to no major construction noise observed during noise monitoring

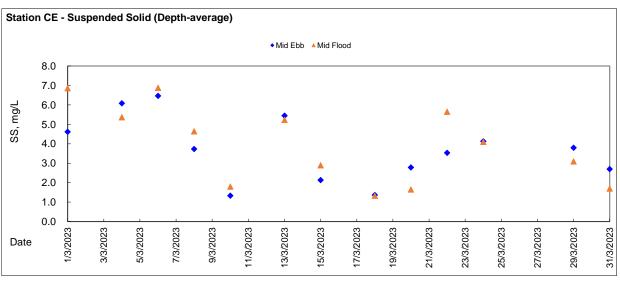
Appendix 4.4

Marine Water Quality Monitoring Results and Graphical Presentations

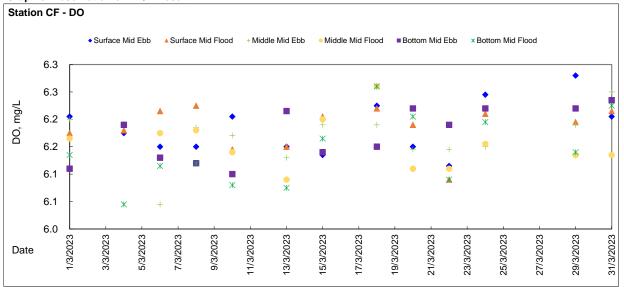


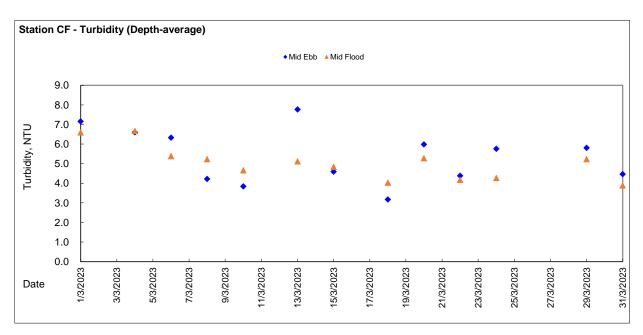


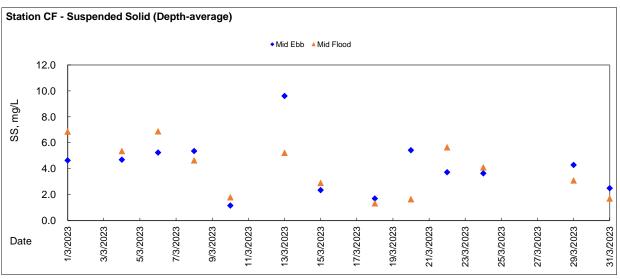




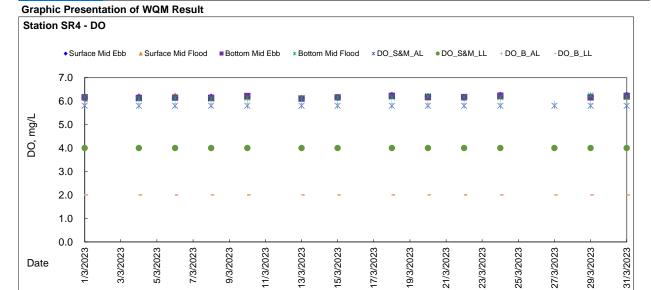


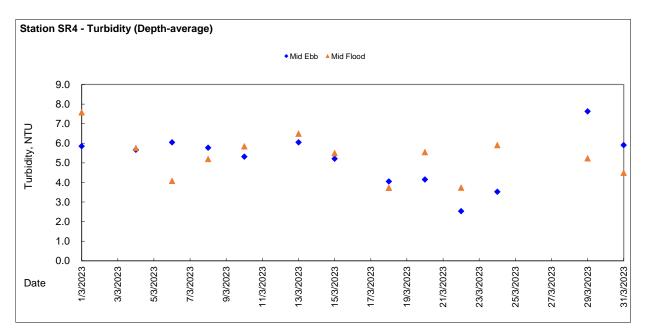


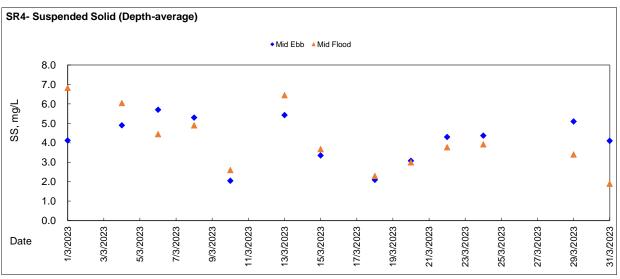




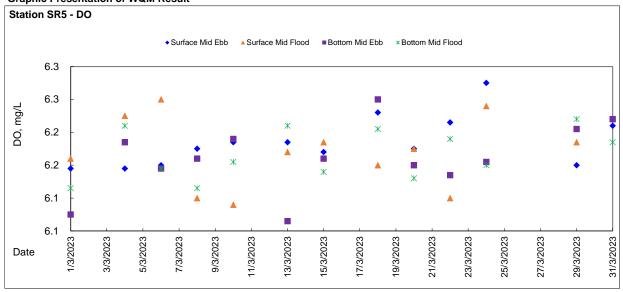


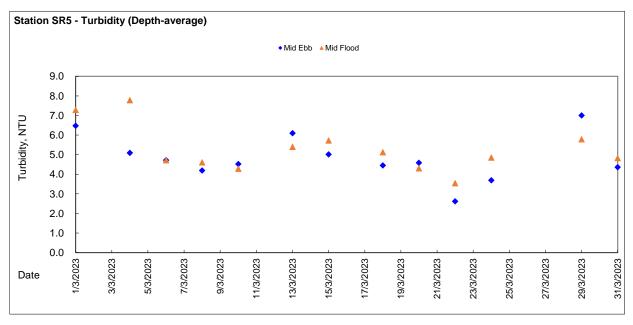


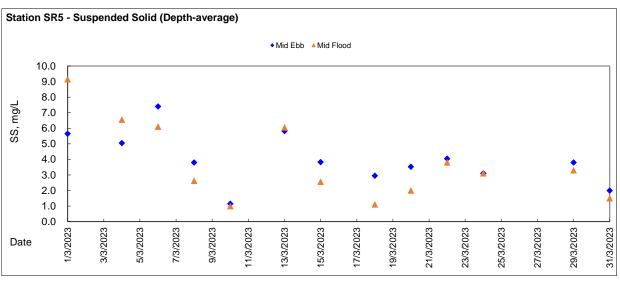






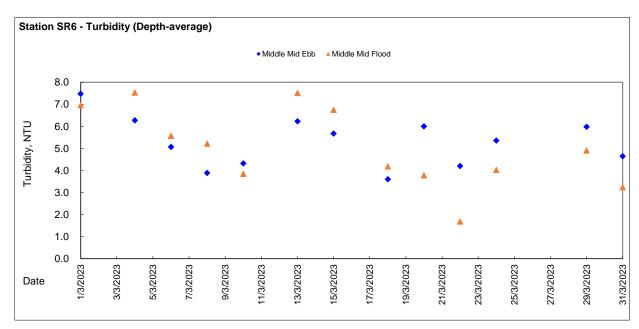


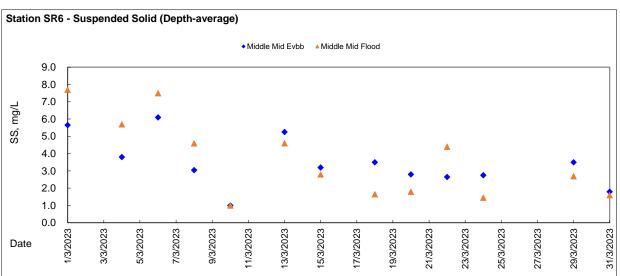




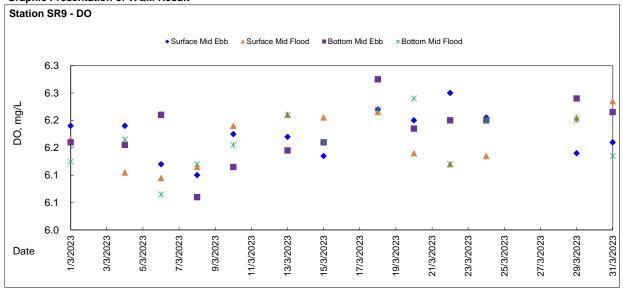


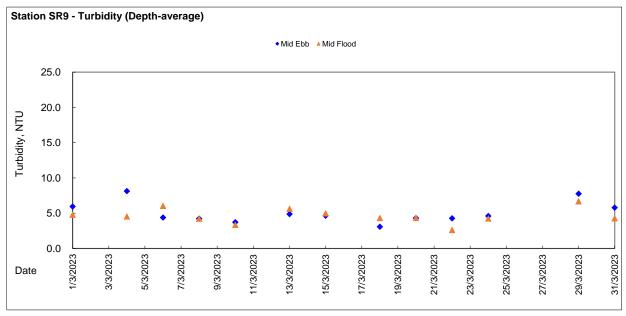
Graphic Presentation of WQM Result Station SR6 - DO ◆ Middle Mid Ebb ▲ Middle Mid Flood 6.4 6.3 6.3 6.2 6.2 6.1 6.1 7/3/2023 9/3/2023 1/3/2023 3/3/2023 31/3/2023 5/3/2023 21/3/2023 25/3/2023 27/3/2023 Date

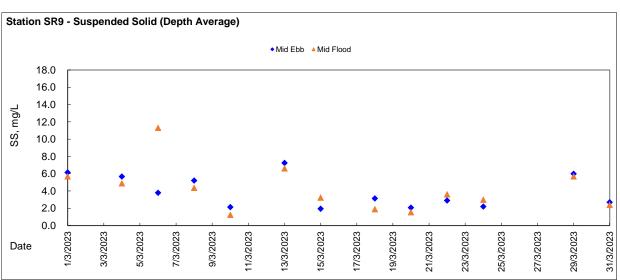




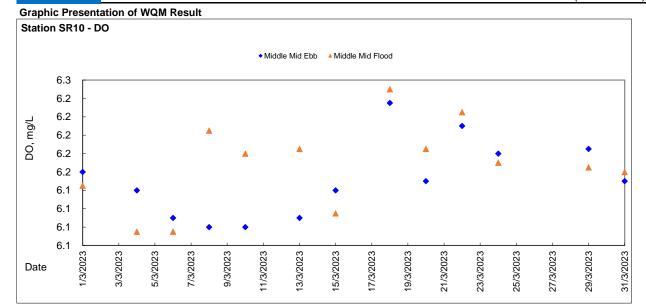


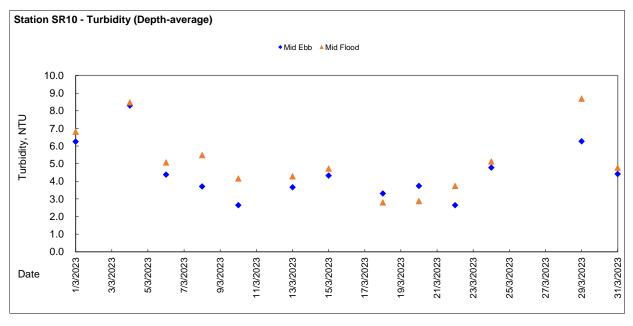


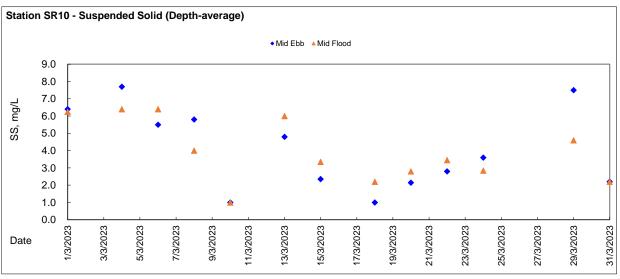




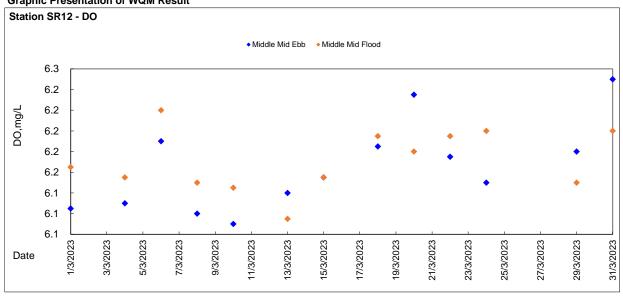


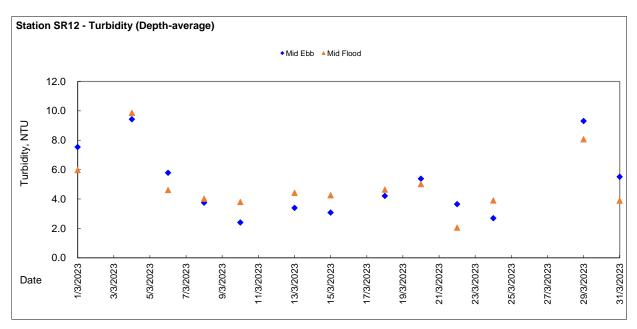


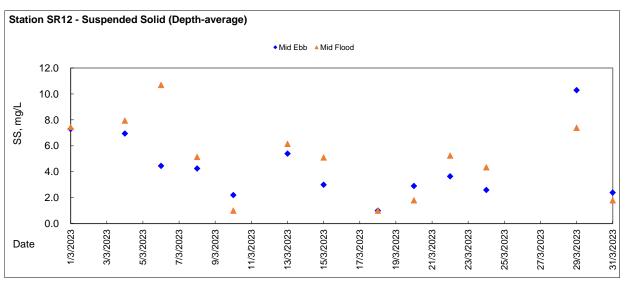




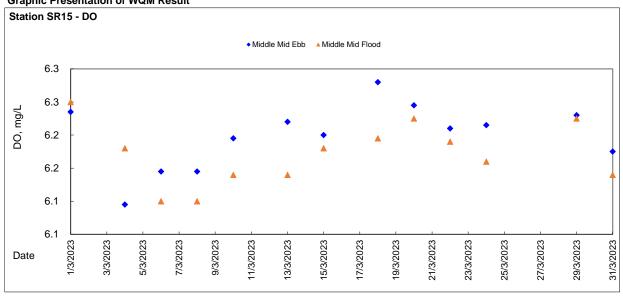


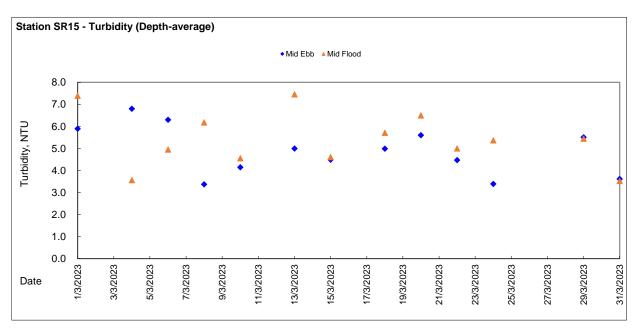


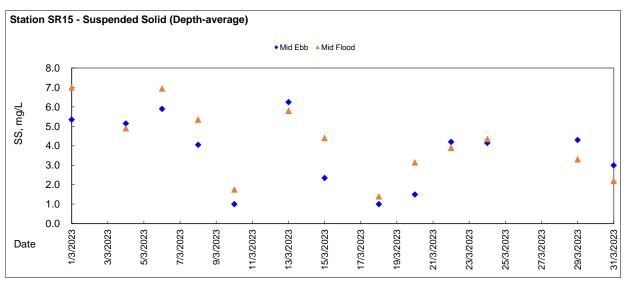












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation		00	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			р	pt		%	m	g/L		TU	m	ıg/L
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:30	3.4	1.0	18.80	18.75	7.99	7.99	32.69	32.70	78.00	78.90	6.03	6.11	5.53	5.61	4.8	4.7
	1702020	1 1110	13:31	3.4	1.0	18.70	10.70	7.99	7.55	32.70	02.70	79.80	70.00	6.19	0.11	5.69	0.01	4.5	4.7
	4/3/2023	Fine	10:20	3.2	1.0	19.00	19.05	8.15	8 15	32.86	32.87	80.60	80.70	6.19	6.19	4.99	5 14	5.0	
			10:21	3.2	1.0	19.10		8.14	00	32.87		80.80		6.18		5.28		5.2	
	6/3/2023	Fine	11:48	3.5	1.0	18.80	18.85	8.17	8.17	32.94	32.95	79.50	80.15	6.10	6.16	6.06	6.09	4.4	4.6
			11:49	3.5	1.0	18.90		8.16		32.95		80.80		6.21		6.12		4.8	
	8/3/2023	Cloudy	12:51	3.6	1.0	20.00	20.05	8.17	8.18	32.99	32.99	82.80	82.70	6.22	6.18	4.77	4.68	5.8	
			12:52	3.6	1.0	20.10		8.18		32.99		82.60		6.14		4.59		4.2	
	10/3/2023	Fine	13:52	3.5	1.0	21.40	21.35	8.24	8.24	32.81	32.81	84.00	83.25	6.25	6.20	3.92	3.97	1.6	
			13:53	3.5	1.0	21.30		8.24		32.80		82.50		6.14		4.02		1.9	
	13/3/2023	Cloudy	13:24	3.8	1.0	20.80	20.75	8.28	8.28	32.52	32.53	82.60	82.00	6.13	6.11	5.00	4.97	4.8	
		-	13:25	3.8	1.0	20.70		8.28		32.53		81.40		6.09		4.94		4.5	
	15/3/2023	Cloudy	17:33	3.6	1.0	21.10	21.10	8.33	8.34	32.64	32.65	83.70	83.15	6.16	6.14	4.67	4.80	2.5	
SR4			17:34	3.6	1.0	21.10		8.34		32.65 34.00		82.60 84.30		6.12 6.26		4.93 4.26		2.9	
	18/3/2023	Cloudy	9:21	3.4	1.0	20.60	20.55	8.18 8.19	8.19	34.00	34.00	84.30	83.90	6.25	6.26	4.26	4.43	1.4	1.5
			9:22	3.4	1.0	20.50		8.19		34.00		83.50		6.25		2.83		2.9	
	20/3/2023	Cloudy	11:31	3.5	1.0	20.50	20.55	8.31	8.32	34.30	34.31	84.60	84.00	6.16	6.21	3.02	2.93	2.9	
			12:46	3.5	1.0	21.40		8.32		34.31		84.50		6.18		2.09		4.8	
	22/3/2023	Cloudy	12:47	3.0	1.0	21.40	21.40	8.24	8.24	34.31	34.32	82.90	83.70	6.09	6.14	2.20	2.15	3.7	
			14:06	3.6	1.0	22.10		8.19		34.24		84.10		6.27		2.26		4.0	
	24/3/2023	Cloudy	14:07	3.6	1.0	22.10	22.10	8.20	8.20	34.24	34.24	84.30	84.20	6.24	6.26	2.45	2.41	3.6	
		Strong					-								-				
	27/3/2023	Monsoon							WQM	was cancel	led due to ac	lverse weath	ner						
	29/3/2023	Cloudy	18:25	3.6	1.0	19.90	19.90	8.16	8.17	34.04	34.03	83.60	84.40	6.14	6.20	7.93	7.86	4.6	4.6
	25.2.2020	2.5ddy	18:26	3.6	1.0	19.90	10.00	8.17	0.17	34.02	54.00	85.20	34.40	6.25	0.20	7.79	7.00	4.6	
	31/3/2023	Cloudy	13:52	3.6	1.0	20.20	20.20	8.15	8.14	33.87	33.87	84.80	84.50	6.27	6.25	5.90	5.89	3.3	
		,	13:53	3.6	1.0	20.20		8.13		33.87	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	84.20	,	6.23		5.87		3.0	

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.

am

Lam Environmental Services Limited

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	aturation		00	Turi	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	g/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:20	3.0	1.0	18.80	18 75	8.16	8 16	32.74	32 74	80.30	79 70	6.19	6 15	7.56	7.52	5.3	5.6
			8:21	3.0	1.0	18.70		8.15		32.74		79.10		6.11		7.48		5.8	
	4/3/2023	Fine	15:49	3.5	1.0	18.90	18 90	8.16	8 16	32.85	32.85	80.50	80.50	6.15	6 17	6.42	6.46	5.7	5.5
			15:50	3.5	1.0	18.90		8.15		32.85		80.50		6.19		6.49		5.3	
	6/3/2023	Fine	7:08	3.1	1.0	17.70	17.75	8.20	8.20	33.00	33.00	78.80	79.80	6.21	6.23	4.11	4.14	3.5	3.7
			7:09	3.1	1.0	17.80		8.19		33.00		80.80		6.24		4.16		3.8	
	8/3/2023	Cloudy	7:17	3.3	1.0	20.00	19.95	8.13	8 13	32.90	32 90	81.60	80.85	6.17	6.12	4.61	4 60	5.3	4.7
		,	7:18	3.3	1.0	19.90		8.13		32.90		80.10		6.07		4.59		4.0	
	10/3/2023	Fine	7:35	3.2	1.0	20.90	20.90	8.15	8.15	32.80	32.80	82.00	83.15	6.13	6.19	4.50	4.50	2.5	2.4
			7:36	3.2	1.0	20.90		8.15		32.80		84.30		6.24		4.49		2.2	
	13/3/2023	Cloudy	8:32	3.3	1.0	20.80	20.85	8.26	8.26	32.66	32.66	81.60	82.25	6.08	6.12	7.50	7.48	7.5	7.3
			8:33	3.3	1.0	20.90		8.26		32.66		82.90		6.16		7.46		7.0	
	15/3/2023	Cloudy	7:15	3.3	1.0	20.60	20.60	8.29	8.29	32.65	32.65	82.20	82.75	6.13	6.18	6.03	5.97	4.1	4.3
SR4			7:16	3.3	1.0	20.60		8.29		32.65		83.30		6.22		5.91		4.4	
	18/3/2023	Cloudy	14:18	3.5	1.0	21.10	21.05	8.30	8.30	34.12	34.12	85.70	84.95	6.28	6.23	3.17	3.27	1.6	1.6
		-	14:19	3.5	1.0	21.00		8.30		34.12		84.20		6.18		3.36		1.5	
	20/3/2023	Cloudy	7:06	3.4	1.0	20.20	20.15	8.24	8.25	34.18	34.19	81.90	82.55	6.11	6.16	5.88	5.95	3.6	3.4
			7:07	3.4	1.0	20.10		8.25		34.20		83.20		6.21		6.01		3.2	
	22/3/2023	Cloudy	7:07	3.3	1.0	21.20	21.20	8.18	8.18	34.24	34.24	84.50	82.90	6.27	6.16	2.71	2.80	2.8	2.9
		-	7:08	3.3	1.0	21.20		8.18		34.23		81.30		6.04		2.89		3.0	
	24/3/2023	Cloudy	7:37	3.3	1.0	21.60	21.60	8.14	8.14	34.13	34.13	84.10	84.10	6.19	6.21	4.96	4.89	4.8	4.6
			7:38	3.3	1.0	21.60		8.13		34.12		84.10		6.22		4.82		4.4	
	27/3/2023	Strong Monsoon							WQM	was cancell	led due to ac	lverse weath	ner						
	29/3/2023	Cloudy	8:35	3.3	1.0	20.00	20.00	8.15	8 15	34.02	34.02	84.40	82.80	6.19	6.20	4.44	4 47	2.9	2.8
		J.Judy	8:36	3.3	1.0	20.00	_0.00	8.15	0.10	34.01	34.02	81.20	32.00	6.20	0.10	4.49	4.47	2.6	
	31/3/2023	Cloudy	7:55 7:56	3.3	1.0	20.20	20.20	8.07 8.08	8.08	33.95 33.93	33.94	83.90 82.50	83.20	6.24	6.18	3.85 3.79	3.82	2.1	2.2
			7:56							33.93		82.50		6.12		3.79		2.3	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation		00	Turk	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	0	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
	1/3/2023	Fine	13:32	3.4	2.4	18.70	18 75	8.10	8 10	32.72	32.73	80.40	79.55	6.22	6.16	6.05	6.09	3.8	3.6
	170/2020	1 1110	13:33	3.4	2.4	18.80	10.70	8.10	0.10	32.73	02.70	78.70	70.00	6.10	0.10	6.12	0.00	3.4	
	4/3/2023	Fine	10:22	3.2	2.2	19.10	19.05	8.15	8 15	32.84	32.85	79.20	79.90	6.07	6.13	6.16	6.20	4.6	4.7
			10:23	3.2	2.2	19.00		8.15		32.85		80.60		6.19		6.23	0.20	4.8	
	6/3/2023	Fine	11:50	3.5	2.5	18.80	18.85	8.18	8 18	32.94	32 94	79.50	78.85	6.21	6.15	6.01	6.00	7.0	6.8
			11:51	3.5	2.5	18.90		8.18		32.94		78.20		6.08		5.98		6.6	
	8/3/2023	Cloudy	12:53	3.5	2.5	20.40	20.40	8.17	8.17	32.99	32.99	82.70	81.85	6.20	6.14	6.94	6.86	5.8	5.6
			12:54	3.6	2.6	20.40		8.17		32.98		81.00		6.08		6.78		5.4	
	10/3/2023	Fine	13:54	3.5	2.5	21.00	21.05	8.25	8.25	32.85	32.85	83.80	84.50	6.17	6.22	6.74	6.67	2.2	2.4
			13:55	3.5	2.5	21.10		8.24	0.20	32.84		85.20		6.26		6.59		2.5	
	13/3/2023	Cloudy	13:26	3.8	2.8	20.80	20.80	8.32	8.32	32.63	32.63	81.20	82.00	6.06	6.11	7.07	7.13	6.6	6.2
			13:27	3.8	2.8	-		-		-		82.80		6.15		7.18		5.8	
	15/3/2023	Cloudy	17:35	3.4	2.6	20.80	20.75	8.35	8.35	32.66	32.66	83.50	82.90	6.20	6.16	6.14	5.62	3.8	4.0
SR4		-	17:36	3.6	2.6	20.70		8.35		32.66		82.30		6.11		5.09		4.2	
	18/3/2023	Cloudy	9:23	3.4	2.4	20.60	20.55	8.21	8.21	34.06	34.05	83.70	84.10	6.20	6.22	3.58	3.68	2.6	2.7
			9:24	3.4	2.4	20.50		8.20		34.04		84.50		6.24		3.78		2.8	
	20/3/2023	Cloudy	11:33	3.5	2.5	20.40	20.40	8.32	8.32	34.21	34.21	83.80	83.05	6.22	6.18	5.33	5.38	3.2	3.4
			11:34	3.5	2.5	20.40		8.32		-		82.30		6.13		5.42		3.6	
	22/3/2023	Cloudy	12:48	3.0	2.0	21.30	21.35	8.23	8.23	34.23	34.23	84.20	83.75	6.21	6.17	2.87	2.93	3.2	4.4
			12:49	3.0	2.0	21.40		8.23		34.23		83.30		6.12		2.98		5.5	
	24/3/2023	Cloudy	14:08	3.6	2.6	21.70	21.75	8.19	8.20	34.20	34.20	84.20	84.05	6.25	6.23	4.56	4.64	4.7	5.0
			14:09	3.6	2.6	21.80		8.20		34.20		83.90		6.20		4.72		5.2	
	27/3/2023	Strong Monsoon							WQM	was cancell	ed due to ac	verse weath	ier						
	29/3/2023	Cloudy	18:27	3.6	2.6	20.00	20.00	8.16	8.16	34.10	34.09	84.70	83.80	6.21	6.16	7.43	7.39	5.9	5.6
	25.5.2020		18:28	3.6	2.6	20.00	20.00	8.16	0.10	34.08	34.00	82.90	30.00	6.10	0.10	7.35	7.00	5.3	0.0
	31/3/2023	Cloudy	13:54	3.6	2.6	20.30	20.30	8.13	8.14	33.94	33.94	83.00	83.20	6.19	6.22	5.91	5.93	4.7	5.0
			13:55	3.6	2.6			8.14		-		83.40		6.25		5.94		5.2	

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 SR4 (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н		linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU		ng/L
				m	m	Value	AVG	Value	AVG		AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:22	3.0	2.0	18.80	18.80	8.17	8.17	32.71	32.71	80.80	79.65	6.25	6.18	7.68	7.64	8.0	
			8:23	3.0	2.0	18.80		8.16		32.70		78.50		6.10		7.59		8.2	
	4/3/2023	Fine	15:51	3.5	2.5	18.90	18.85	8.16	8.16	32.85	32.85	80.30	80.85	6.03	6.10	5.00	5.06	6.4	
			15:52	3.5	2.5	18.80		8.16		32.85		81.40		6.16		5.11		6.8	
	6/3/2023	Fine	7:10	3.1	2.1	18.90	18.90	8.19	8.19	32.98	32.98	78.00	79.40	6.03	6.14	4.00	4.02	5.1	5.,
			7:11	3.1	2.1	18.90		8.18		32.97		80.80		6.24		4.03		5.4	
	8/3/2023	Cloudy	7:19	3.3	2.3	20.00	20.00	8.13	8.13	32.86	32.85	79.30	80.65	6.01	6 10	5.76	5.80	5.1	
	GGZGZG	Gloddy	7:20	3.3	2.3	20.00	20.00	8.13	0.10	32.83	02.00	82.00	00.00	6.18	0.10	5.83	0.00	5.2	
	10/3/2023	Fine	7:37	3.2	2.2	20.90	20.90	8.16	8 16	32.83	32.83	83.90	82.70	6.20	6.13	7.20	7 19	3.0	2.9
	TOTOLEGE	1110	7:38	3.2	2.2	20.90	20.00	8.16	0.10	32.83	02.00	81.50	02.70	6.06	0.10	7.18	7.10	2.7	
	13/3/2023	Cloudy	8:34	3.3	2.3	20.80	20.80	8.26	8.26	32.71	32.71	81.70	81.70	6.15	614	5.46	5.50	6.0	5.7
	1002020	Gloddy	8:35	3.3	2.3	20.80	20.00	8.26	0.20	32.70	OL.71	81.70	01.70	6.12	0.14	5.53	0.00	5.3	0.1
	15/3/2023	Cloudy	7:17	3.3	2.3	20.60	20.60	8.30	8.30	32.65	32.65	83.10	82.55	6.18	6.15	4.98	5.03	2.9	3.1
SR4	IGGEOEG	Cioday	7:18	3.3	2.3	20.60	20.00	8.29	0.00	32.65	02.00	82.00	02.00	6.12	0.10	5.07	0.00	3.3	-
0114	18/3/2023	Cloudy	14:20	3.5	2.5	20.70	20.60	8.32	8.32	34.05	34.06	84.70	83.80	6.21	6.16	4.11	4.20	3.2	3.1
	1002020	Cioday	14:21	3.5	2.5	20.50	20.00	8.31	0.02	34.06	04.00	82.90	00.00	6.10	0.10	4.28	4.20	2.9	0.1
	20/3/2023	Cloudy	7:08	3.4	2.4	20.20	20.20	8.25	8.26	34.20	34.20	82.60	83.35	6.16	6.21	5.10	5 15	2.4	2.6
	20/3/2023	Cloudy	7:09	3.4	2.4	20.20	20.20	8.26	0.20	34.20	34.20	84.10	03.33	6.26	0.21	5.19	5.15	2.8	1 2.0
	22/3/2023	Cloudy	7:09	3.3	2.3	21.20	21 15	8.19	8 19	34.24	34.24	82.20	83.70	6.08	6 17	4.56	4 67	4.5	4.7
	22/3/2023	Cioudy	7:10	3.3	2.3	21.10	21.10	8.18	0.15	34.24	34.24	85.20	03.70	6.26	0.17	4.78	4.07	4.8	1 4.
	24/3/2023	Cloudy	7:39	3.3	2.3	21.50	21.55	8.13	8.13	34.20	34.20	83.10	83.25	6.17	6.16	7.03	6.92	3.0	3.3
	24/3/2023	Cloudy	7:40	3.3	2.3	21.60	21.55	8.13	0.13	34.20	34.20	83.40	03.23	6.14	0.10	6.81	0.92	3.5	1 3.0
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to ad	verse weath	ier						
	29/3/2023	Cloudy	8:37	3.3	2.3	19.90	19.90	8.15	8.15	34.09	34.08	83.30	83.15	6.23	6.25	6.01	5.99	3.8	4.0
	29/3/2023	Cidudy	8:38	3.3	2.3	19.90	19.90	8.15	8.15	34.07	34.08	83.00	63.15	6.26	6.25	5.97	5.99	4.2	4.1
	31/3/2023	Cloudy	7:57	3.3	2.3	20.10	20.10	8.07	8.07	33.97	33.97	83.10	83.65	6.18	6.17	5.23	5.16	1.4	1.5
	31/3/2023	Ciduay	7:58	3.3	2.3	20.10	20.10	8.07	8.07	33.97	33.97	84.20	63.65	6.15	6.17	5.09	5.16	1.6	1 13

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	D	0	Turl	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	mg			TU	m	ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:23	4.3	1.0	18.70	18.70	8.06	8.07	32.72	32.72	80.20	79.35	6.20	6.15	6.81	6.77	6.3	
	170/2020	1 1110	13:24	4.3	1.0	18.70	10.70	8.07	0.07	32.72	02.72	78.50	70.00	6.09	0.10	6.73	0.77	6.7	
	4/3/2023	Fine	10:34	4.0	1.0	19.10	19 10	8.15	8 15	32.80	32.80	80.10	78.95	6.18	6.15	4.97	4.85	4.5	4.3
			10:35	4.0	1.0	19.10		8.15		32.80		77.80		6.11		4.72		4.1	
	6/3/2023	Fine	11:38	4.3	1.0	18.80	18.80	8.17	8 18	32.74	32.73	81.00	80.05	6.20	6 15	4.72	4.66	7.8	8.0
			11:39	4.3	1.0	18.80		8.18		32.72		79.10		6.10		4.59		8.1	
	8/3/2023	Cloudy	13:43	4.4	1.0	20.40	20.40	8.18	8 18	32.95	32 95	82.90	82 10	6.23	6.18	3.33	3.36	4.8	
		,	12:44	4.6	1.0	20.40		8.18		32.95		81.30		6.12		3.39		3.9	
	10/3/2023	Fine	13:43	4.4	1.0	21.40	21.45	8.29	8.30	32.84	32.84	84.60	83.85	6.24	6.19	3.99	4.02	<1.0	1.0
			13:44	4.4	1.0	21.50		8.30		32.84		83.10		6.13		4.05		<1.0	
	13/3/2023	Cloudy	13:15	4.7	1.0	20.50	20.50	8.30	8.31	32.55	32.55	81.80	82.55	6.15	6.19	6.28	6.30	5.0	5.2
			13:16	4.7	1.0	20.50		8.31		32.55		83.30		6.22		6.31		5.4	
	15/3/2023	Cloudy	17:25	4.1	1.0	21.10	21.10	8.35	8.35	32.61	32.61	83.10	83.70	6.14	6.17	4.91	4.82	2.5	
SR5		-	17:26	4.5	1.0	21.10		8.35		32.60		84.30		6.20		4.73		2.9	
	18/3/2023	Cloudy	9:34	4.1	1.0	20.60	20.60	8.23	8.23	34.01	34.02	84.70	84.35	6.25	6.23	2.58	2.64	1.6	
			9:35	4.1	1.0	20.60		8.23		34.03		84.00		6.21		2.70		1.9	
	20/3/2023	Cloudy	11:22	4.4	1.0	20.40	20.45	8.29	8.30	34.21	34.21	82.50	83.20	6.12	6.18	5.91	5.87	3.1	2.9
			11:23	4.4	1.0	20.50		8.30		34.21		83.90		6.23		5.82		2.7	
	22/3/2023	Cloudy	12:38	4.1	1.0	21.00	21.05	8.21	8.21	34.26	34.26	84.00	84.20	6.20	6.22	3.21	3.15	5.5	5.3
			12:39	4.1	1.0	21.10		8.21		34.25		84.40		6.23		3.09		5.1	
	24/3/2023	Cloudy	13:57	4.5	1.0	22.40	22.40	8.15	8.16	34.19	34.20	81.40	84.50	6.31	6.28	5.00	5.46	3.0	
			13:58	4.5	1.0	22.40		8.16		34.20		87.60		6.24		5.92		2.5	<u> </u>
	27/3/2023	Strong Monsoon							WQM	was cancell	led due to ac	verse weath	ner						
	29/3/2023	Cloudy	18:17	4.7	1.0	19.90	19.95	8.19	8.20	33.95	33.95	85.00	84.05	6.22	6.15	6.79	6.69	3.6	
		2.Judy	18:18	4.7	1.0	20.00	10.00	8.20	0.20	33.94	30.00	83.10	54.00	6.08	0.10	6.59	0.00	3.4	
	31/3/2023	Cloudy	13:43	4.7	1.0	20.20	20.20	8.14 8.14	8.14	33.92 33.91	33.92	83.60 83.50	83.55	6.15 6.27	6.21	3.23	3.30	2.1	2.3
			1			_0.20		0.14		50.01		30.00		0.27		0.07		2.7	+

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		erature	F	H	Sa	linity		turation	D	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:27	4.0	1.0	18.70	18.70	8.17	8 17	32.77	32 77	78.50	79.30	6.08	616	7.55	7.59	7.8	
			8:28	4.0	1.0	18.70		8.17		32.77		80.10		6.24		7.62	1.00	8.3	
	4/3/2023	Fine	15:38	4.3	1.0	18.80	18.85	8.14	8.14	32.80	32.81	82.30	81.45	6.27	6.23	8.52	8.50	5.4	5.
			15:39	4.3	1.0	18.90		8.14		32.81		80.60		6.18		8.47		5.8	
	6/3/2023	Fine	7:17	3.9	1.0	19.00	19.05	8.18	8.18	32.87	32.87	81.80	81.25	6.29	6.25	4.76	4.73	7.2	
			7:18	3.9	1.0	19.10		8.18		32.86		80.70		6.21		4.69		6.8	
	8/3/2023	Cloudy	7:25	4.3	1.0	20.10	20.05	8.13	8.14	32.86	32.86	81.50	80.45	6.17	6.10	4.00	4.02	2.8	
			7:26	4.3	1.0	20.00		8.14		32.85		79.40		6.03		4.04		2.5	
	10/3/2023	Fine	7:43	4.1	1.0	21.20	21.20	8.19	8.20	32.74	32.75	82.80	81.35	6.16	6.09	4.51	4.56	<1.0	1.0
			7:44	4.1	1.0	21.20		8.20		32.75		79.90		6.02		4.60		<1.0	
	13/3/2023	Cloudy	8:42	4.4	1.0	20.40	20.40	8.22	8.22	32.60	32.60	83.10	82.50	6.21	6.17	4.74	4.70	5.5	
		-	8:43	4.4	1.0	20.40		8.22		32.59		81.90		6.13		4.65		5.8	
	15/3/2023	Cloudy	7:22	4.2	1.0	20.60	20.65	8.27	8.27	32.57	32.58	81.90	82.80	6.13	6.19	6.31	6.26	2.2	2.3
SR5			7:23	4.2	1.0	20.70		8.26		32.58		83.70		6.24		6.20		2.4	
	18/3/2023	Cloudy	14:12	4.2	1.0	21.00	21.00	8.30	8.30	34.03	34.04	85.00	84.05	6.22	6.15	4.98	4.88	<1.0	1.0
			14:13	4.2	1.0	21.00		8.29		34.05		83.10		6.08		4.78		<1.0	-
	20/3/2023	Cloudy	7:18	4.2	1.0	20.30	20.25	8.27	8.28	34.20	34.20	83.70	83.00	6.22	6.18	3.36	3.42	1.8	
			7:19	4.2	1.0	20.20		8.28		34.19		82.30		6.13		3.48		1.6	
	22/3/2023	Cloudy	7:19 7:20	4.3	1.0	21.20	21.20	8.22 8.22	8.22	34.23	34.23	84.10 81.60	82.85	6.18	6.10	2.83	2.71	3.2	
			7:50	4.3	1.0	21.70		8.22		34.23		81.60		6.02		4.32		3.b	
	24/3/2023	Cloudy	7:50	4.3	1.0	21.70	21.70	8.14	8.14	34.09	4 34.10	83.80	84.45	6.25	6.24	4.55	4.44	1.1	
		Strong	7:51	4.3	1.0	21.70		8.14		34.10		83.80		6.22		4.55		1.3	
	27/3/2023	Monsoon							WQM	was cancel	led due to ac	lverse weath	er						
	29/3/2023	Cloudy	8:42	4.4	1.0	19.80	19.80	8.16	8 16	33.79	33.79	82.70	81.40	6.29	6.19	6.80	6.80	3.8	3.
	20.0/2020	suuy	8:43	4.4	1.0	19.80	10.00	8.16	0.10	33.79		80.10	31.40	6.08	0.10	6.79	0.00	3.6	
	31/3/2023	Cloudy	8:02	4.2	1.0	20.20	20.20	8.11	8.11	33.88	33.88	83.40	83.80	6.19	6.22	5.23	5.25	1.5	
annel Mater	l		8:03	4.2	1.0	20.20		8.10		33.87		84.20		6.25		5.27		1.8	ـــــ

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation		00	Tur	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			Р	pt		%	m	g/L	N	TU	m	ng/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:26	4.3	3.3	18.70	18.70	8.12	8.13	32.68	32.68	79.10	78.55	6.12	6.08	6.05	6.18	4.6	
	1702020	1 1110	13:27	4.3	3.3	18.70	10.70	8.13	0.10	32.68	02.00	78.00	70.00	6.03	0.00	6.30	0.10	5.0	
	4/3/2023	Fine	10:37	4.0	3.0	19.10	19 10	8.16	8 16	32.84	32 84	81.00	80.35	6.23	6 19	5.27	5.33	6.0	
			10:38	4.0	3.0	19.10		8.15		32.83	02.0.	79.70		6.14		5.39		5.6	
	6/3/2023	Fine	11:41	4.3	3.3	19.00	19.00	8.18	8.18	32.87	32.87	81.10	79.65	6.21	6.15	4.72	4.78	6.7	
			11:42	4.3	3.3	19.00		8.17		32.86	02.01	78.20		6.08		4.83		7.0	
	8/3/2023	Cloudy	12:46	4.6	3.6	20.40	20.35	8.18	8.18	32.93	32.94	81.20	82.00	6.10	6.16	4.99	5.02	3.5	
		-	12:47	4.6	3.6	20.30		8.17		32.94		82.80		6.22		5.04		3.0	
	10/3/2023	Fine	13:46	4.4	3.4	21.30	21.35	8.27	8.28	32.82	32.83	84.60	83.95	6.24	6.19	4.98	5.03	1.2	
			13:47	4.4	3.4	21.40		8.28		32.83		83.30		6.14		5.07		1.4	
	13/3/2023	Cloudy	13:18	4.7	3.7	20.40	20.40	8.31	8.31	32.60	32.61	81.40	80.90	6.11	6.07	5.96	5.89	5.4	
			13:19 17:28	4.7	3.5	20.40		8.31 8.35		32.61 32.61		80.40 83.60		6.02		5.82		7.5 5.2	
	15/3/2023	Cloudy				21.00	21.05	8.35 8.35	8.35		32.61	83.60 82.80	83.20	6.18	6.16	5.10 5.30	5.20	5.2	
SR5			17:29 9:37	4.5	3.5	21.10		8.35		32.61 34.40		82.80		6.23		6.17		4.7	
	18/3/2023	Cloudy	9:37	4.1	3.1	20.40	20.45	8.24	8.24	34.40	34.45	84.20	84.55	6.23	6.25	6.34	6.26	4.2	
			9:38	4.1	3.1	20.50		8.24		34.50		84.90		6.19		2.24		4.1	
	20/3/2023	Cloudy	11:26	4.4	3.4	20.40	20.40	8.32	8.32	34.23	34.23	82.20	82.85	6.19	6.15	3.40	3.31	4.1	
			12:41	4.1	3.1	20.40		8.23		34.29		83.00		6.08		1.96		26	
	22/3/2023	Cloudy	12:42	4.1	3.1	20.90	20.85	8.23	8.23	34.28	34.29	83.40	83.20	6.19	6.14	2.20	2.08	3.0	
			14:00	4.5	3.5	21.60		8.17		34.14		80.40		6.14		4.00		3.3	
	24/3/2023	Cloudy	14:01	4.5	3.5	21.60	21.60	8.17	8.17	34.14	34.14	80.50	80.45	6.17	6.16	2.02	1.92	3.6	
		Strong																	
	27/3/2023	Monsoon							WQM	was cancer	led due to a	iverse Weati	iei						
	29/3/2023	Cloudy	18:20	4.7	3.7	19.90	19 90	8.19	8 19	33.94	33.94	85.80	84 75	6.29	6.21	7.28	7.32	4.2	
	25.2.2020	2.Judy	18:21	4.7	3.7	19.90	10.00	8.19	0.10	33.94	30.04	83.70	34.70	6.12	0.1	7.35	7.02	4.0	
	31/3/2023	Cloudy	13:46	4.7	3.7	20.30	20.30	8.13	8.14	33.94	33.94	82.80	82.90	6.24	6.22	5.46	5.42	1.8	
			13:47	4.7	3.7			8.14		33.93	70.0	83.00	,	6.20		5.37		1.5	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 SR5 (Bottom) - Flood Tide

0.1.01	Sampling		Sampling	Water	Sampling		erature	F	Н		linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG		AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:30	4.0	3.0	18.80	18.80	8.18	8.18	32.68	32.68	77.30	78.65	6.07	6.12	6.93	6.98	10.1	10.3
			8:31	4.0	3.0	18.80		8.18		32.68		80.00		6.16		7.03		10.4	
	4/3/2023	Fine	15:41	4.3	3.3	18.80	18.80	8.14	8.32	32.85	32.85	81.30	80.90	6.23	6.21	7.04	7.07	7.3	
			15:42	4.3	3.3	18.80		8.50		32.84		80.50		6.19		7.09		7.7	
	6/3/2023	Fine	7:19	3.9	2.9	19.10	19.10	8.19	8.19	32.88	32.88	78.10	79.75	6.08	6.15	4.76	4.72	5.4	5.3
			7:20	3.9	2.9	19.10		8.18		32.88		81.40		6.21		4.67		5.0	
	8/3/2023	Cloudy	7:28	4.3	3.3	20.10	20.10	8.15	8.15	32.90	32.91	80.00	81.05	6.04	6.12	5.13	5.19	2.6	
			7:29	4.3	3.3	20.10		8.14		32.91		82.10		6.19		5.24		2.6	
	10/3/2023	Fine	7:46	4.1	3.1	21.00	21.05	8.20	8.20	32.84	32.84	81.80	82.90	6.06	6.16	3.99	4.01	<1.0	1.0
			7:47	4.1	3.1	21.10		8.20		32.84		84.00		6.25		4.02		<1.0	
	13/3/2023	Cloudy	8:45	4.4	3.4	20.50	35.45	8.27	8.27	32.61	32.61	83.10	83.40	6.19	6.21	6.11	6.11	6.6	
			8:46	4.4	3.4	50.40		8.26		32.60		83.70		6.23		6.10		6.3	
	15/3/2023	Cloudy	7:25	4.2	3.2	20.80	20.80	8.28	8.28	32.59	32.59	82.90	82.10	6.19	6.14	5.25	5.19	3.0	
SR5			7:26	4.2	3.2	20.80		8.28		32.59		81.30		6.09		5.13		2.6	
	18/3/2023	Cloudy	14:15	4.2	3.2	20.80	20.75	8.30	8.30	34.07	34.44	85.80	84.75	6.29	6.21	5.23	5.37	1.2	
			14:16	4.2	3.2	20.70		8.30		34.80		83.70		6.12		5.50		1.2	
	20/3/2023	Cloudy	7:21	4.2	3.2	20.30	20.30	8.28	8.28	34.19	34.19	83.30	82.50	6.19	6.13	5.26	5.19	2.4	2.3
			7:22 7:22	4.2	3.2	20.30		8.28 8.20		34.19		81.70 82.10		6.07		5.11 4.32		2.2	
	22/3/2023	Cloudy	7:22	4.3	3.3	20.90	20.85	8.20	8.21	34.28	34.29	84.40	83.25	6.10	6.19	4.45	4.39	4.4	4.2
			7:23	4.3	3.3	21.40		8.22		34.29		83.90				5.19			
	24/3/2023	Cloudy	7:53	4.3	3.3	21.40	21.40	8.15	8.15	34.22	34.22	83.90	82.95	6.21	6.15	5.19	5.27	4.8 5.2	
		Strong	7.54	4.3	3.3	21.40		0.13		34.22		62.00		6.09		5.35		5.2	
	27/3/2023	Monsoon							WQM	was cancel	led due to ad	verse weath	ier						
	29/3/2023	Cloudy	8:45	4.4	3.4	19.90	19.85	8.15	8.16	33.89	33.88	84.10	84.25	6.21	6.22	4.76	4.78	2.9	
	28/3/2023	Cioudy	8:46	4.4	3.4	19.80	19.00	8.16	0.10	33.86	33.00	84.40	04.23	6.23	0.22	4.79	4.70	2.9	
	31/3/2023	Cloudy	8:05	4.2	3.2	20.10	20.15	8.11	8.11	33.92	33.92	83.10	83.25	6.18	6.19	4.38	4.40	1.4	1.3
			8:06	4.2	3.2	20.20		8.11		33.92		83.40		6.19	1	4.42		1.2	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		00	Turl	bidity	8	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	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
	1/3/2023	Fine	13:12	2.6	1.3	18.80	18.80	8.14	8 14	32.86	32.86	79.80	78.90	6.19	611	7.57	7 48	5.4	5.7
	17072020	1 1110	13:13	2.6	1.3	18.80	10.00	8.14	0.14	32.86	02.00	78.00	70.50	6.03	0.11	7.38	7.40	5.9	
	4/3/2023	Fine	10:36	2.4	1.2	19.00	19.05	8.17	8 17	32.84	32 84	81.00	80 10	6.23	6.21	6.28	6.28	3.6	3.8
			10:37	2.4	1.2	19.10		8.17		32.84		79.20		6.18		6.27		4.0	
	6/3/2023	Fine	11:29	2.7	1.4	18.90	18.95	8.19	8.20	32.87	32.87	79.80	78.90	6.16	6.10	5.12	5.07	6.3	6.1
			11:30	2.7	1.4	19.00		8.21	0.20	32.86		78.00	10.00	6.03		5.01		5.9	
	8/3/2023	Cloudy	12:34	2.6	1.3	20.90	20.85	8.14	8.15	32.95	32.95	84.20	83.40	6.26	6.20	3.83	3.89	2.9	3.1
			12:35	2.6	1.3	20.80		8.15		32.95		82.60		6.14		3.94		3.2	
	10/3/2023	Fine	13:33	2.5	1.3	21.60	21.55	8.27	8.27	32.83	32.84	85.90	85.35	6.28	6.25	4.27	4.32	<1.0	1.0
Į.			13:34	2.5	1.3	21.50		8.27		32.84		84.80		6.22		4.37		<1.0	
	13/3/2023	Cloudy	13:02	2.7	1.4	20.40	20.45	8.26	8.26	32.52	32.53	83.00	82.40	6.22	6.18		6.23	5.1	5.3
L			13:03	2.7	1.4	20.50		8.25		32.53		81.80		6.14		6.29		5.4	
SR6	15/3/2023	Cloudy	17:14	2.4	1.4	21.20	21.15	8.31	8.31	32.60	32.61	85.20	84.50	6.27	6.24	5.76	5.68	3.4	3.2
			17:15	2.7	1.4	21.10		8.30		32.61		83.80		6.20		5.59		3.0	
	18/3/2023	Cloudy	9:45	2.4	1.2	20.70	20.70	8.25	8.26	34.02	34.03	83.90	84.25	6.18	6.21	3.61	3.60	3.3	3.5
F			9:46	2.4	1.2	20.70		8.26		34.04		84.60		6.23		3.59		3.7	
	20/3/2023	Cloudy	11:13	2.7	1.4	20.50	20.50	8.28	8.29	34.24	34.24	85.20	85.15	6.28	6.27	5.91	6.00	3.0 2.6	2.8
+			11:14	2.7	1.4	20.50		8.29		34.24		85.10 81.30		6.26		6.08		2.6	
	22/3/2023	Cloudy	12:28	2.3	1.2	21.10	21.10	8.22 8.22	8.22	34.30	34.30	81.30	82.90	6.18	6.14	4.14	4.20	2.8	2.7
H			13:48	2.7	1.4	22.50		8.15		34.13		83.70		6.32		5.46		2.5	
	24/3/2023	Cloudy	13:49	2.7	1.4	22.50	22.50	8.15	8.15	34.14	34.14	82.60	83.15	6.31	6.32	5.46	5.36	2.0	2.8
H		Strong	13.49	2.1	1.4	22.50		0.13						0.31		5.25		2.9	
	27/3/2023	Monsoon							WQM	was cancell	led due to ac	verse weath	ner						
+			18:06	2.7	1.4	19.90		8.17		33.85		84.30		6.16		5.92		3.3	
	29/3/2023	Cloudy	18:07	2.7	1.4	19.90	19.90	8.17	8.17	33.85	33.85	82.70	83.50	6.04	6.10	6.04	5.98	3.6	3.5
+			13:35	2.7	1.4	20.10		8.14		33.87		83.00		6.23		4.53		1.9	
	31/3/2023	Cloudy	13:36	2.7	1.4	20.10	20.15	8.14	8.14	33.87	33.87	82.80	82.90	6.20	6.22	4.76	4.65	1.6	1.8

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 SR6 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	H	Sal	inity	DO Sa	turation	D	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥			-		pt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG		AVG		AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:36	2.3	1.2	18.80	18.80	8.13	8.13	32.72	32.73	79.80	78.80	6.20	614	7.01	6.97	7.6	
			8:37	2.3	1.2	18.80		8.13		32.73		77.80		6.07		6.92		7.8	
	4/3/2023	Fine	15:29	2.7	1.4	19.00	19.00	8.15	8 15	32.84	32.84	81.40	80.95	6.16	6 18	7.53	7.54	5.5	
			15:30	2.7	1.4	19.00		8.15		32.84		80.50		6.19		7.54		5.9	
	6/3/2023	Fine	7:30	2.3	1.2	18.90	18 85	8.19	8 19	32.89	32 89	81.80	81.20	6.27	624	5.53	5.58	7.8	
			7:31	2.3	1.2	18.80		8.18		32.88		80.60		6.20		5.62	0.00	7.2	
	8/3/2023	Cloudy	7:34	2.4	1.2	20.20	20.20	8.15	8 16	32.88	32.88	81.80	80.85	6.18	6.12	5.24	5.22	4.2	
	0.02020	Cioday	7:35	2.4	1.2	20.20	20.20	8.16	0.10	32.88	02.00	79.90	00.00	6.05	0.12	5.19	0.22	5.0	
	10/3/2023	Fine	7:50	2.3	1.2	21.20	21.20	8.21	8.21	32.82	32.83	85.00	83.90	6.27	6.20	3.86	3.85	<1.0	1.
	10/0/2020	1110	7:51	2.3	1.2	21.20	21.20	8.21	0.21	32.83	02.00	82.80	00.00	6.12	0.10	3.84	0.00	<1.0	
	13/3/2023	Cloudy	8:51	2.5	1.3	20.50	20.50	8.28	8.28	32.60	32.61	83.20	82.55	6.22	6.19	7.44	7.52	4.4	4.
	10/0/2020	Gloddy	8:52	2.5	1.3	20.50	20.00	8.28	0.20	32.61	02.01	81.90	02.00	6.15	0.10	7.59	7.02	4.8	
SR6	15/3/2023	Cloudy	7:31	2.4	1.2	20.90	20.90	8.29	8.29	32.59	32.59	82.70	83.50	6.14	6.20	6.80	6.76	3.0	2
ono	10/0/2020	Cioday	7:32	2.4	1.2	20.90	20.00	8.29	0.20	32.59	02.00	84.30	00.00	6.26	0.10	6.71	0.70	2.6	_
	18/3/2023	Cloudy	14:03	2.5	1.3	21.10	21.10	8.29	8.29	34.06	34.07	84.30	83.50	6.16	6.10	4.20	4.19	1.5	1.
	10/0/2020	Gloddy	14:04	2.5	1.3	21.10	21.10	8.28	0.20	34.07	04.07	82.70	00.00	6.04	0.10	4.17	4.10	1.8	
	20/3/2023	Cloudy	7:28	2.5	1.3	20.30	20.30	8.26	8.26	34.20	34.20	84.30	83.55	6.28	6.23	3.74	3.78	1.9	1.
	LUIGILOLO	Cioday	7:29	2.5	1.3	20.30	20.00	8.26	0.20	34.20	04.20	82.80	00.00	6.17	0.10	3.82	0.70	1.7	
	22/3/2023	Cloudy	7:31	2.5	1.3	21.10	21.10	8.23	8.24	34.24	34.24	84.10	83.05	6.22	6.14	1.58	1.69	4.2	4.
	LLIGILOLO	Cioday	7:32	2.5	1.3	21.10	21.10	8.24	0.24	34.24	04.24	82.00	00.00	6.06	0.14	1.79	1.00	4.6	
	24/3/2023	Cloudy	8:00	2.5	1.3	21.70	21.65	8.15	8.15	34.11	34.11	83.50	82.85	6.19	6.15	4.13	4.03	1.5	1.
	24/3/2023	Cloudy	8:01	2.5	1.3	21.60	21.00	8.14	0.13	34.11	34.11	82.20	02.00	6.11	0.13	3.92	4.03	1.4	
	27/3/2023	Strong Monsoon							WQM	was cancel	ed due to ad	verse weath	ner						
	29/3/2023	Cloudy	8:51 8:52	2.4	1.2	19.80 19.80	19.80	8.16 8.16	8.16	33.93 33.91	33.92	83.00 83.20	83.10	6.19 6.11	6.15	4.89 4.92	4.91	2.5 2.8	
	31/3/2023	Cloudy	8:11 8:12	2.5 2.5	1.3	20.10	20.15	8.11 8.10	8.11	33.93 33.94	33.94	82.20 83.10	82.65	6.12	6.15	3.29	3.25	1.4	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation		00	Tur	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			p	pt		%	m	g/L	N	TU	m	ıg/L
	Duto		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:00	4.2	1.0	18.90	18.85	8.19	8.19	32.56	32.56	80.90	79.70	6.23	6.19	6.15	6.19	4.6	4.8
	170/2020	1110	13:01	4.2	1.0	18.80	10.00	8.19	0.10	32.55	02.00	78.50	70.70	6.15	0.10	6.23	0.10	5.0	
	4/3/2023	Fine	10:54	4.0	1.0	18.90	18.90	8.17	8.17	32.84	32.84	80.00	80.55	6.20	6.19	4.00	4.18	5.1	
			10:55	4.0	1.0	18.90		8.16		32.84		81.10		6.18		4.36		4.9	
	6/3/2023	Fine	11:18	4.5	1.0	19.00	19.05	8.19	8.19	32.88	32.88	79.90	78.80	6.19	6.12	3.91	3.98	3.6	
			11:19	4.5	1.0	19.10		8.19	0.1.0	32.88		77.70		6.05		4.05	0.00	4.0	
	8/3/2023	Cloudy	12:22	4.6	1.0	20.40	20.35	8.17	8.17	32.92	32.92	82.20	81.00	6.18	6.10	3.84	3.93	5.8	
			12:23	4.6	1.0	20.30		8.16		32.92		79.80		6.02		4.01		5.4	
	10/3/2023	Fine	13:22	4.5	1.0	20.90	20.85	8.21	8.21	32.85	32.85	84.10	83.15	6.23	6.18	3.33	3.37	2.4	2.6
			13:23	4.5	1.0	20.80		8.20		32.85		82.20		6.12		3.40		2.8	
	13/3/2023	Cloudy	12:51	4.8	1.0	20.40	20.45	8.31	8.31	32.64	32.65	81.70	82.40	6.13	6.17	4.51	4.51	6.4	6.6
		-	12:52	4.8	1.0	20.50		8.30		32.65		83.10		6.21		4.50		6.7	
	15/3/2023	Cloudy	17:02	4.2	1.0	20.90	20.95	8.33	8.33	32.64	32.64	82.30	82.75	6.10	6.14	4.00	4.09	1.5	
SR9			17:03	4.6	1.0	21.00		8.33		32.64		83.20		6.17		4.17		1.7	
	18/3/2023	Cloudy	9:58	4.2	1.0	20.50	20.50	8.26	8.27	34.07	34.08	84.00	84.25	6.20	6.22	3.22	3.26	2.8	
			9:59	4.2	1.0	20.50		8.27		34.09		84.50		6.24		3.29		2.6	ļ
	20/3/2023	Cloudy	10:59	2.7	1.0	20.40	20.40	8.31	8.31	34.16	34.17	84.00	83.40	6.24	6.20	5.77	5.70	2.4	2.3
			11:00	2.7	1.0	20.40		8.30		34.18		82.80		6.16		5.63		2.2	
	22/3/2023	Cloudy	12:17	4.1	1.0	20.90	20.90	8.20	8.21	34.26	34.26	83.00	82.30	6.29	6.25	4.32	4.26	2.2	2.4
			12:18	4.1	1.0	20.90		8.21		34.25		81.60		6.21		4.20		2.5	
	24/3/2023	Cloudy	13:34	4.7	1.0	22.00	22.05	8.17	8.18	34.13	34.14	83.70 82.60	83.15	6.25	6.21	3.09	3.13	1.6	
		_	13:35	4.7	1.0	22.10		8.18		34.14		82.60		6.16		3.17		1.9	<u> </u>
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to ac	lverse weath	ner						
	29/3/2023	Cloudy	17:54	4.6	1.0	19.90	19.85	8.15	8 15	33.82	33.83	81.60	82.50	6.08	6.14	8.03	7.99	6.4	6.6
	20/3/2023	Gioudy	17:55	4.6	1.0	19.80	19.05	8.14	0.15	33.84	33.03	83.40	02.50	6.20	0.14	7.94	7.99	6.7	0.0
	31/3/2023	Cloudy	13:23	4.6	1.0	20.20	20.20	8.11	8.12	33.97	33.97	83.40	83.75	6.14	6.16	6.24	6.13	3.2	
	5 17 G Z G Z G		13:24	4.6	1.0	20.20		8.12		33.96		84.10	30.70	6.18	0.10	6.02	0.10	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 SR9 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turk	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU	m	
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:50	3.9	1.0	18.80	18.80	8.19	8.20	32.85	32.86	79.50	80.35	6.13	6.17	5.56	5.28	4.1	4.3
	1702020	1 1110	8:51	3.9	1.0	18.80	10.00	8.20	0.20	32.86	02.00	81.20	00.00	6.20	0.17	4.99	0.20	4.5	
	4/3/2023	Fine	15:18	4.4	1.0	19.00	19.00	8.18	8.19	32.87	32.87	79.10	79.45	6.08	611	3.84	3.88	3.6	3.8
			15:19	4.4	1.0	19.00		8.19		32.86		79.80		6.13		3.91	0.00	4.0	
	6/3/2023	Fine	7:39	4.0	1.0	19.10	19.05	8.18	8 19	32.77	32.78	79.70	78.80	6.16	6.10	5.55	5 59	10.0	10.2
	0.0.2020		7:40	4.0	1.0	19.00		8.19		32.78		77.90		6.03		5.63		10.4	
	8/3/2023	Cloudy	7:46	4.4	1.0	20.30	20.25	8.14	8 14	32.92	32 92	82.00	80.95	6.18	6 12	3.30	3 39	3.9	4.1
	GGZGZG	Oloudy	7:47	4.4	1.0	20.20	20.20	8.13	0.14	32.92	02.02	79.90	00.00	6.05	0.12	3.47	0.00	4.2	
	10/3/2023	Fine	7:59	4.2	1.0	20.90	20.85	8.17	8 18	32.79	32 80	80.00	80.55	6.20	6 19	3.66	3.68	1.6	1.5
			8:00	4.2	1.0	20.80		8.18		32.80		81.10		6.18		3.69	0.00	1.4	
	13/3/2023	Cloudy	9:03	4.5	1.0	20.50	20.45	8.27	8 27	32.54	32.55	83.60	83 10	6.24	6.21	6.14	6.12	7.8	7.6
	TOTOLEGE	Oloudy	9:04	4.5	1.0	20.40	20.40	8.26	0.27	32.55	02.00	82.60	00.10	6.18	0.11	6.09	0.12	7.4	
	15/3/2023	Cloudy	7:55	4.2	1.0	20.80	20.80	8.30	8.30	32.59	32 60	82.80	83.40	6.15	620	4.51	4.61	2.4	2.3
SR9		,	7:56	4.2	1.0	20.80		8.30	0.00	32.60		84.00		6.25		4.70		2.2	
	18/3/2023	Cloudy	13:49	4.4	1.0	20.60	20.55	8.30	8.30	34.05	34.05	84.40	84.55	6.21	6.22	4.67	4.52	1.3	1.4
		,	13:50	4.4	1.0	20.50		8.29	0.00	34.04		84.70		6.22		4.37		1.5	
	20/3/2023	Cloudy	7:42	4.5	1.0	20.30	20.25	8.29	8.30	34.15	34.16	81.60	82.50	6.08	6.14	4.21	4.27	1.6	1.4
		,	7:43	4.5	1.0	20.20		8.30	0.00	34.17		83.40		6.20		4.32		1.2	
	22/3/2023	Cloudy	7:45	4.3	1.0	20.90	20.90	8.22	8 22	34.28	34.28	81.80	82 85	6.05	6.12	2.19	2 14	4.0	4.2
	LEIGILOEG	Oloudy	7:46	4.3	1.0	20.90	20.00	8.21	0.22	34.28	04.20	83.90	02.00	6.19	0.12	2.09	2.14	4.4	
	24/3/2023	Cloudy	8:14	4.4	1.0	21.90	21.85	8.16	8 17	34.32	34.32	83.40	82.60	6.19	6.14	3.85	3.89	2.8	2.7
		,	8:15	4.4	1.0	21.80		8.17	•	34.32	002	81.80		6.08	•	3.92	0.00	2.5	1
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to a	lverse weath	ier						
	29/3/2023	Cloudy	9:05	4.3	1.0	19.80	19.85	8.15	8 16	33.88	33.88	83.70	83.15	6.25	6.21	7.25	7 19	5.3	5.5
	20/3/2023	Cidudy	9:06	4.3	1.0	19.90	19.00	8.16	0.10	33.88	33.00	82.60	03.15	6.16	0.21	7.12	7.19	5.6	J.J
	31/3/2023	Cloudy	8:25	4.3	1.0	20.20	20.20	8.11	8 12	33.93	33.93	83.80	84.50	6.20	6.24	3.85	3.91	2.5	2.6
	zozo		8:26	4.3	1.0	20.20	20.20	8.12	0.12	33.93	30.00	85.20	34.00	6.27	0.14	3.96	0.01	2.7	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turk	oidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m			TU		ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:03	4.2	3.2	18.90	18 90	8.19	8 19	32.79	32.79	78.30	79.50	6.09	6 16	5.75	5.69	7.2	
	170/2020	1 1110	13:04	4.2	3.2	18.90	10.00	8.18	0.10	32.79	02.70	80.70	70.00	6.23	0.10	5.62	0.00	7.8	
	4/3/2023	Fine	10:57	4.0	3.0	19.10	19.05	8.16	8 17	32.85	32.85	80.00	80.30	6.20	616	12.18	12 07	6.6	6.4
			10:58	4.0	3.0	19.00		8.17		32.84		80.60		6.11		11.95		6.1	
	6/3/2023	Fine	11:21	4.5	3.5	19.20	19.15	8.19	8.19	32.91	32.91		80.20	6.20	6.21	4.74	4.78	3.6	
			11:22	4.5	3.5	19.10		8.18		32.90	02.01	80.20		6.22	0.2.	4.82		4.0	
	8/3/2023	Cloudy	12:25	4.6	3.6	20.30	20.35	8.17	8.17	32.93	32.93	79.90	80.90	6.00	6.06	4.68	4.54	4.1	4.9
		,	12:26	4.6	3.6	20.40		8.17		32.93		81.90		6.12		4.39		5.6	
	10/3/2023	Fine	13:25	4.5	3.5	20.90	20.90	8.21	8.21	32.82	32.82	81.10	81.95	6.02	6.12	4.16	4.08	1.6	
			13:26	4.5	3.5	20.90		8.21		32.82		82.80		6.21		4.00		1.8	
	13/3/2023	Cloudy	12:54	4.8	3.8	20.40	20.40	8.30	8.30	32.66	32.66	81.10	79.65	6.21	6.15	5.13	5.22		8.0
			12:55	4.8	3.6	20.40		8.30		32.66		78.20		6.08		5.31		8.1	
	15/3/2023	Cloudy	17:05	4.2	3.6	21.00	21.00	8.33	8.33	32.69	32.69	83.50	82.75	6.23	6.16	5.28	5.20	2.2	2.3
SR9			17:06	4.6	3.6	21.00		8.32		32.69		82.00		6.09		5.12		2.4	
	18/3/2023	Cloudy	10:01	4.2	3.2	20.40	20.45	8.28	8.28	34.07	34.07	85.20	84.95	6.29	6.28	2.98	2.89	3.8	3.6
			11:00	4.2 2.7	3.2 1.7	20.50		8.28 8.31		34.06		84.70 83.90		6.26		2.80		3.4 1.9	
	20/3/2023	Cloudy	11:00	2.7	1.7	20.30	20.35	8.31	8.31	34.17	34.17	83.90	83.30	6.14	6.19	3.01	2.93	1.9	
			12:20	4.1	3.1	20.40		8.31		34.17		82.70		6.14		4.19		3.7	
	22/3/2023	Cloudy	12:21	4.1	3.1	21.00	20.95	8.22	8.22	34.25	34.25	82 40	82.90	6.19	6.20	4.19	4.26	3.7	
			13:37	4.7	3.7	22.00		8.18		33.96		83.50		6.26		6.02		2.8	
	24/3/2023	Cloudy	13:38	4.7	3.7	22.00	22.00	8.18	8.18	33.95	33.96	81.90	82.70	6.14	6.20	6.14	6.08	2.5	
		Strong	13.30	4.7	3.7	22.00		0.10						0.14		0.14		2.5	1
	27/3/2023	Monsoon							WQM	was cancell	ed due to ad	verse weath	ner						
			17:57	4.6	3.6	19.80		8.15		33.86		83.60		6.20		7.49		5.5	
	29/3/2023	Cloudy	17:58	4.6	3.6	19.80	19.80	8.14	8.15	33.85	33.86	84.50	84.05	6.28	6.24	7.58	7.54	5.2	
	0400000	01. 1	13:26	4.6	3.6	20.10	00.45	8.12	8.12	33.94	33.94	83.90	00.05	6.21	6.22	5.47	5.40	2.5	
	31/3/2023	Cloudy	13:27	4.6	3.6	20.20	20.15	8.12	8.12	33.93	33.94	83.80	83.85	6.22	6.22	5.39	5.43	2.2	2.4

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 SR9 (Bottom) - Flood Tide

Station Reference	Sampling		Sampling	Water Depth	Sampling Depth		erature	F	Н		linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time				С				pt		%		g/L		TU		g/L
				m	m	Value	AVG	Value	AVG		AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:52	3.9	2.9	18.80	18.75	8.19	8.20	32.77	32.77	80.10	79.05	6.19	6.13	4.38	4.33	7.2	
			8:53	3.9	2.9	18.70		8.20		32.77		78.00		6.06		4.27		7.0	
	4/3/2023	Fine	15:21	4.4	3.4	19.10	19.05	8.19	8.19	32.83	32.83	79.30	79.70	6.15	6.17	5.26	5.19	5.8	
			15:22	4.4	3.4	19.00		8.19		32.83		80.10		6.18		5.12		6.2	
	6/3/2023	Fine	7:42	4.0	3.0	19.20	19.20	8.19	8.19	32.89	32.90	79.50	78.95	6.13	6.07	6.42	6.48	12.2	
			7:43	4.0	3.0	19.20		8.19		32.90		78.40		6.00		6.53		12.7	
	8/3/2023	Cloudy	7:49	4.4	3.4	20.20	20.20	8.16	8.16	32.92	32.93	79.80	81.05	6.04	6.12	5.13	5.08	4.7	
			7:50	4.4	3.4	20.20		8.16		32.93		82.30		6.20		5.03		4.7	
	10/3/2023	Fine	8:02	4.2	3.2	20.90	20.90	8.19	8.19	32.83	32.82	80.00	80.30	6.20	6.16	3.04	3.03	<1.0	1.0
			8:03	4.2	3.2	20.90		8.19		32.81		80.60		6.11		3.01		<1.0	
	13/3/2023	Cloudy	9:06	4.5	3.5	20.50	20.45	8.30	8.31	32.68	32.68	82.60	83.15	6.17	6.21	5.21	5.17	5.4	5.7
			9:07	4.5	3.5	20.40		8.31		32.68		83.70		6.25		5.12		5.9	
	15/3/2023	Cloudy	7:58	4.2	3.2	20.70	20.75	8.31	8.31	32.63	32.63	83.10	82.35	6.20	6.16	5.40	5.39	4.0	4.2
SR9			7:59	4.2	3.2	20.80		8.30		32.63		81.60		6.12		5.37		4.4	
	18/3/2023	Cloudy	13:52	4.4	3.4	20.60	20.65	8.29 8.30	8.30	34.11	34.11	84.00 84.50	84.25	6.24	6.22	4.06 4.19	4.13	2.5	
			13:53	4.4	3.4	20.70				34.10				6.28					
	20/3/2023	Cloudy	7:45		3.5	20.30	20.30	8.30 8.30	8.30	34.19	34.20	84.50 83.60	84.05	6.28	6.24	4.55 4.35	4.45	1.7	1.7
			7:46 7:48	4.5	3.5	20.30		8.30		34.20		83.50		6.23		3.09		3.2	
	22/3/2023	Cloudy	7:49	4.3	3.3	20.90	20.85	8.21	8.21	34.26	34.27	80.70	82.10	6.23	6.12	3.09	3.12	2.9	
			7:49 8:17	4.4	3.4	21.80		8.21		34.26		85.10		6.19					
	24/3/2023	Cloudy	8:17	4.4	3.4	21.80	21.85	8.17	8.17	34.14	34.14	83.40	84.25	6.19	6.20	4.57 4.67	4.62	3.2	
		Strong	0.10	4.4	3.4	21.90		0.17		34.13		03.40		0.21		4.07		3.5	
	27/3/2023	Monsoon							WQM	was cancel	led due to ad	verse weath	ier						
	29/3/2023	Cloudy	9:08	4.3	3.3	19.80	19.85	8.16	8.16	33.83	33.83	83.50	82.70	6.26	6.20	6.09	6.17	6.0	
	2 or 3r 2023	Gioudy	9:09	4.3	3.3	19.90	19.65	8.15	0.10	33.83	33.03	81.90	32.70	6.14	6.20	6.24	6.17	5.8	5.0
	31/3/2023	Cloudy	8:28	4.3	3.3	20.20	20.25	8.11	8.11	33.92	33.93	83.40	82.60	6.19	6.14	4.56	4.66	2.1	2.2
	0.75/2025	Siduly	8:29	4.3	3.3	20.30	20.23	8.11	0.11	33.93	33.53	81.80	32.00	6.08	0.14	4.76	4.00	2.3	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turi	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	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
	1/3/2023	Fine	12:52	2.6	1.3	18.70	18.75	8.18	8.18	32.70	32.70	78.50	79.60	6.09	6.16	6.29	6.25	6.2	6.4
	1/3/2023	Tille	12:53	2.6	1.3	18.80	10.75	8.18	0.10	32.70	32.70	80.70	75.00	6.23	0.10	6.21	0.23	6.6	0.4
	4/3/2023	Fine	11:04	2.4	1.2	19.00	19.00	8.15	8 15	32.84	32 84	80.60	80 10	6.19	6 14	8.34	8 29	7.9	7.7
			11:05	2.4	1.2	19.00		8.15		32.84		79.60		6.09		8.24	0.20	7.5	
	6/3/2023	Fine	11:13	2.6	1.3	18.80	18.85	8.18	8 18	32.95	32.95	79.70	78.35	6.22	611	4.38	4.38	5.8	5.5
			11:14	2.6	1.3	18.90		8.18		32.95	02.00	77.00	10.00	6.00	•	4.37		5.2	
	8/3/2023	Cloudy	12:15	2.6	1.3	20.50	20.50	8.16	8.17	32.93	32.93	82.70	81.55	6.16	6.10	3.39	3.71	5.6	5.8
			12:16	2.7	1.4	20.50		8.17		32.92		80.40		6.04		4.02		6.0	
	10/3/2023	Fine	13:16	2.6	1.3	20.70	20.70	8.20	8.20	32.86	32.86	80.90	81.75	6.04	6.10	2.70	2.64	<1.0	1.0
			13:17	2.6	1.3	20.70		8.20		32.85		82.60	- 1	6.16		2.58		<1.0	
	13/3/2023	Cloudy	12:43	2.7	1.4	20.40	20.45	8.25	8.25	32.69	32.69	82.30	81.85	6.14	6.11	3.72	3.66	4.6	4.8
			12:44	2.7	1.3	20.50		8.25		32.69		81.40		6.08		3.59		5.0	
	15/3/2023	Cloudy	16:53	2.3	1.3	20.90	20.90	8.30	8.30	32.63	32.63	81.20	82.25	6.08	6.14	4.26	4.32	2.5	2.4
SR10			16:54	2.6	1.3	20.90		8.30 8.24		32.63		83.30 84.80		6.20		4.38 3.22		2.2	
	18/3/2023	Cloudy	10:08	2.3	1.2	20.70	20.70	8.24	8.24	34.09	34.09	84.80	83.85	6.20	6.24	3.22	3.31	<1.0	1.0
			10:09	2.6	1.2	20.70		8.24		34.09 34.12		82.90		6.20		3.78		<1.0	
	20/3/2023	Cloudy	10:52	2.6	1.3	20.60	20.60	8.29	8.29	34.12	34.12	83.90	82.80	6.23	6.15	3.69	3.74	2.1	2.2
			12:13	2.6	1.2	20.90		8.22		34.12		83.70		6.24		2.72		2.0	
	22/3/2023	Cloudy	12:14	2.3	1.2	20.90	20.90	8.22	8.22	34.27	34.27	81.50	82.60	6.18	6.21	2.57	2.65	2.6	2.8
			13:26	2.9	1.5	21.50		8.16		34.15		83.30		6.23		4.96		2.0	
	24/3/2023	Cloudy	13:27	2.9	1.5	21.40	21.45	8.16	8.16	34.15	34.15	82.00	82.65	6.13	6.18	4.59	4.78	3.4	3.6
	27/3/2023	Strong							WOM		ed due to ad		ner						
	277072023	Monsoon							11 400			would							
	29/3/2023	Cloudy	17:45	2.8	1.4	19.70	19.75	8.13	8 13	33.81	33.81	84.00	83 10	6.25	6 19	6.22	6.27	7.2	7.5
		2.Judy	17:46	2.8	1.4	19.80	10.70	8.13	0.10	33.81	30.01	82.20	30.10	6.12	0.10	6.31	0.21	7.8	7.0
	31/3/2023	Cloudy	13:14	2.8	1.4	20.20	20.20	8.09 8.10	8.10	33.89 33.90	33.90	83.50 82.70	83.10	6.19	6.15	4.45 4.38	4.42	2.2	2.2
			13:15	2.8	1.4	20.20		8.10		33.90		82.70		6.11		4.38		2.2	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	р	Н	Sal	inity	DO Sa	turation	D	0	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m		N	TU	m	ıg/L
	Duic		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:58	2.3	1.2	18.70	18.75	8.19	8.19	32.75	32.76	80.10	78.95	6.22	6.15	7.04	6.81	6.4	6.3
	1/3/2023	1 1110	8:59	2.3	1.2	18.80	10.73	8.19	0.15	32.76	32.70	77.80	70.55	6.07	0.13	6.58	0.01	6.1	0.5
	4/3/2023	Fine	15:15	2.7	1.4	19.00	19.05	8.17	8 18	32.90	32 90	77.10	78.05	6.02	6 10	8.55	8 47	6.4	6.4
	4/0/2020	1 1110	15:16	2.7	1.4	19.10	10.00	8.18	0.10	32.89	02.00	79.00	70.00	6.17	0.10	8.39	0.41	6.4	
	6/3/2023	Fine	7:45	2.3	1.2	18.80	18.85	8.19	8 19	32.94	32 94	77.90	78.80	6.03	6 10	5.11	5.07	6.2	6.4
	0/0/2020	1 1110	7:46	2.3	1.2	18.90	10.00	8.18	0.10	32.93	02.04	79.70	70.00	6.16	0.10	5.02	0.01	6.6	
	8/3/2023	Cloudy	7:53	2.5	1.3	20.40	20.35	8.14	8 14	32.94	32.94	81.00	80.10	6.23	6.21	5.46	5.49	3.6	4.0
	0/0/2020	Oloudy	7:54	2.5	1.3	20.30	20.00	8.14	0.14	32.94	02.04	79.20	00.10	6.18	0.11	5.51	0.40	4.4	
	10/3/2023	Fine	8:09	2.3	1.2	20.70	20.75	8.18	8 18	32.83	32.83	83.80	82.70	6.26	6.18	4.12	4 16	<1.0	1.0
			8:10	2.3	1.2	20.80		8.18		32.82		81.60		6.10		4.19		<1.0	
	13/3/2023	Cloudy	9:10	2.5	1.3	20.40	20.45	8.21	8.22	32.63	32.63	83.30	82.55	6.23	6 19	4.25	4 28	6.2	
		,	9:11	2.5	1.3	20.50		8.22		32.62		81.80		6.14		4.31		5.8	
	15/3/2023	Cloudy	8:02	2.4	1.2	20.80	20.80	8.27	8 28	32.62	32.63	82.40	81.75	6.19	6.12	4.68	4 72	3.3	3.4
SR10		,	8:03	2.4	1.2	20.80		8.28	0.20	32.63	02.00	81.10		6.04		4.75		3.4	
	18/3/2023	Cloudy	13:41	2.4	1.2	20.80	20.80	8.24	8 24	34.07	34.09	84.80	84.50	6.27	6.25	2.71	2.80	2.0	2.2
		,	13:42	2.4	1.2	20.80		8.23		34.10		84.20		6.23		2.88		2.4	
	20/3/2023	Cloudy	7:51	2.4	1.2	20.60	20.55	8.28	8.28	34.09	34.10	82.20	83.10	6.12	6.19	2.58	2.88	3.0	
		,	7:52	2.4	1.2	20.50		8.28	0.20	34.11		84.00		6.25		3.17		2.6	
	22/3/2023	Cloudy	7:54	2.4	1.2	20.90	20.90	8.21	8.21	34.33	34.33	83.40	82.90	6.27	6.23	3.85	3.74	3.2	3.5
		,	7:55	2.4	1.2	20.90		8.21		34.33		82.40		6.18		3.62		3.7	
	24/3/2023	Cloudy	8:23	2.7	1.4	21.50	21.50	8.15	8.16	34.17	34.17	83.10	82.95	6.20	6.17	5.06	5.13	2.7	2.9
			8:24	2.7	1.4	21.50		8.16	00	34.17	•	82.80		6.14		5.19		3.0	
	27/3/2023	Strong Monsoon							WQM	was cancell	ed due to ad	verse weath	ner						
	29/3/2023	Cloudy	9:13	2.5	1.3	19.70	19.70	8.14	8.14	33.74	33.73	82.00	82.50	6.13	6 17	8.75	8.69	4.8	4.6
	20/3/2023	Cidudy	9:14	2.5	1.3	19.70	19.70	8.13	0.14	33.72	33.73	83.00	32.30	6.20	6.17	8.62	0.09	4.4	4.0
	31/3/2023	Cloudy	8:33	2.6	1.3	20.30	20.25	8.09	8.09	33.85	33.86	82.80	83.20	6.14	6.16	4.76	4.78	2.1	2.2
	5.75/2025	Sibudy	8:34	2.6	1.3	20.20	20.20	8.09	0.03	33.87	33.00	83.60	33.20	6.18	0.10	4.79	4.70	2.3	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	Ю	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			Р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		Tille	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	12:48	2.5	1.3	18.80	18.80	8.19	8.19	32.76	32.76	80.10	78.80	6.18	6.13	7.59	7.54	7.5	7.3
	1/3/2023	Tille	12:49	2.5	1.3	18.80	10.00	8.19	0.13	32.75	32.70	77.50	70.00	6.07	0.13	7.48	7.54	7.1	7.0
	4/3/2023	Fine	11:07	2.5	1.3	19.00	19.00	8.16	8 16	32.89	32.88	78.70	78.25	6.15	6.13	9.48	9 43	6.8	
	4/0/2020	1110	11:08	2.5	1.3	19.00	10.00	8.16	0.10	32.87	02.00	77.80	70.20	6.11	0.10	9.38	0.40	7.1	
	6/3/2023	Fine	11:08	2.5	1.3	18.70	18 70	8.19	8 19	32.98	32.98	80.70	80.00	6.25	6.19	5.77	5.79	4.2	
	0.02020	1110	11:09	2.5	1.3	18.70	10.70	8.19	0.10	32.98	02.00	79.30	00.00	6.13	0.10	5.80	0.70	4.7	
	8/3/2023	Cloudy	12:10	2.7	1.4	20.40	20.40	8.17	8.17	32.91	32.92	82.10	80.95	6.22	6.12	3.49	3.78	4.7	
			12:11	2.6	1.3	20.40		8.17		32.92		79.80		6.02		4.06		3.8	
	10/3/2023	Fine	13:09	2.7	1.4	20.70	20.70	8.21	8.21	32.85	32.85	83.20	81.65	6.17	6.11	2.43	2.40	2.4	
			13:10	2.7	1.4	20.70		8.20		32.85		80.10		6.05		2.37		2.0	
	13/3/2023	Cloudy	12:39	2.7	1.4	20.40	20.40	8.25	8.25	32.67	32.68	82.60	81.75	6.21	6.14	3.33	3.40	5.2	
			12:40	2.7	1.4	20.40		8.25		32.68		80.90		6.07		3.47		5.6	
	15/3/2023	Cloudy	16:49	2.4	1.4	20.90	20.85	8.30	8.30	32.63	32.63	83.50	82.60	6.21	6.16	3.04	3.08	2.8	
SR12			16:50	2.7	1.4	20.80		8.30		32.63		81.70		6.10		3.12		3.2	
	18/3/2023	Cloudy	10:13	2.4	1.2	20.70	20.70	8.25	8.25	34.09	34.08	84.30 83.20	83.75	6.23	6.19	4.15	4.21	<1.0	1.0
			10:14	2.4	1.2	20.70		8.24 8.28		34.07		83.20		6.14		4.27 5.46		<1.0	
	20/3/2023	Cloudy	10:49	2.7	1.4	20.60	20.60	8.28	8.28	34.12	34.13	84.80	84.25	6.26	6.24	5.46	5.38	3.0	
			10:50	2.7	1.4	20.60		8.28		34.13		84.80		6.15		3.69		3.0	
	22/3/2023	Cloudy	12:09	2.4	1.2	20.90	20.90	8.22	8.22	34.28	34.27	83.00	82.30	6.20	6.18	3.69	3.65	3.8	
			13:22	2.8	1.4	21.60		8.16		34.16		83.10		6.18		2.56		2.7	
	24/3/2023	Cloudy	13:23	2.8	1.4	21.50	21.55	8.17	8.17	34.16	34.16	82.00	82.55	6.12	6.15	2.82	2.69	2.5	
		Strong	13.23	2.0	1.79	21.50		0.17						0.12		2.02		2.5	1
	27/3/2023	Monsoon							WQM	was cancel	led due to ad	verse weath	ner						
	29/3/2023	Cloudy	17:40	2.7	1.4	19.70	19.70	8.13	8 14	33.78	33.78	83.90	83.20	6.24	6.18	9.32	9.31	10.6	10.3
	EGIGIEGEG	Oloudy	17:41	2.7	1.4	19.70	10.70	8.14	0.14	33.78	00.70	82.50	00.20	6.12	0.10	9.29	0.01	10.0	
	31/3/2023	Cloudy	13:11	2.7	1.4	20.20	20.15	8.08 8.08	8.08	33.89 33.89	33.89	84.40 84.10	84.25	6.28	6.25	5.45 5.57	5.51	2.2	

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth	Tempe °(H .		inity pt		turation 6	D mo			bidity TU		SS ng/L
	Date		Time	m	m		AVG		AVG		AVG		AVG		AVG		AVG	Value	AVG
			9:03	2.4	1.2	18.60		8.19		32.83		79.50		6.13		6.52		7.7	
	1/3/2023	Fine	9:04	2.4	1.2	18.70	18.65	8.19	8.19	32.84	32.84	81.20	80.35	6.20	6.17	5.43	5.98	7.2	7.
		_	15:08	2.6	1.3	19.00	19.05	8.16	8.16	32.93	32.93	79.80		6.13	6 16	10.01	9.87	7.8	8.
	4/3/2023	Fine	15:09	2.6	1.3	19.10	19.05	8.16	8.16	32.92	32.93	80.10	79.95	6.18	6.16	9.73	9.87	8.1	0.
	6/3/2023	Fine	7:50	2.2	1.1	18.80	18.85	8.18	8 18	32.94	32 94	81.10	80.35	6.29	6.22	4.63	4.62	10.6	10.3
	6/3/2023	FILLE	7:51	2.2	1.1	18.90	10.00	8.18	0.10	32.94	32.94	79.60	00.33	6.15	0.22	4.60	4.02	10.8	10.
	8/3/2023	Cloudy	7:58	2.4	1.2	20.50	20.50	8.14	8 14	32.93	32 93	82.90	82.05	6.23	6 1 5	3.99	4.03	5.0	5.2
	0/3/2023	Cioudy	7:59	2.4	1.2	20.50	20.50	8.14	0.14	32.93	32.93	81.20	02.03	6.07	6.15	4.06	4.03	5.3	J.,
	10/3/2023	Fine	8:12	2.3	1.2	20.70	20.70	8.20	8.20	32.84	32 84	83.00	82 10	6.20	6 15	3.59	3.80	<1.0	1.0
	10/3/2023	Tille	8:13	2.3	1.2	20.70	20.70	8.20	0.20	32.84	32.04	81.20	02.10	6.09	0.13	4.00	3.00	<1.0	1.5
	13/3/2023	Cloudy	9:15	2.4	1.2	20.50	20.50	8.24	8.24	32.68	32 68	80.00	81.05	6.04	6.12	4.37	4 43	6.3	6.3
	10/0/2020	Oloudy	9:16	2.4	1.2	20.50	20.00	8.23	0.24	32.67	02.00	82.10	01.00	6.19	0.12	4.49	4.40	6.0	0.1
	15/3/2023	Cloudy	8:08	2.5	1.3	20.90	20.85	8.29	8.29	32.61	32 61	83.40	82 75	6.21	616	4.20	4.26	5.3	5.1
SR12	10/0/2020	Oloudy	8:09	2.5	1.3	20.80	20.00	8.29	0.20	32.61	02.01	82.10	02.70	6.10	0.10	4.32	4.20	4.9	-
	18/3/2023	Cloudy	13:38	2.5	1.3	20.70	20.70	8.23	8.23	34.10	34 10	84.50	83.95	6.23	6.20	4.56	4 64	<1.0	1.0
		,	13:39	2.5	1.3	20.70		8.23		34.09	•	83.40		6.16		4.72		<1.0	
	20/3/2023	Cloudy	7:58	2.5	1.3	20.60	20.60	8.28	8.29	34.13	34.13	83.90	83.20	6.24	6.18	5.07	5.02	1.7	1.8
		,	7:59	2.5	1.3	20.60		8.29	0.20	34.13		82.50		6.12		4.97	0.00	1.9	
	22/3/2023	Cloudy	7:58	2.5	1.3	20.80	20.80	8.23	8.23	34.31	34.31	82.00	82.70	6.16	6.20	1.92	2.06	5.5	
			7:59	2.5	1.3	20.80		8.22		34.30		83.40		6.23		2.20		5.0	
	24/3/2023	Cloudy	8:28	2.6	1.3	21.60	21.60	8.15	8.15	34.10	34.11	82.80	83.40	6.15	6.20	3.82	3.91	4.6	
			8:29	2.6	1.3	21.60		8.15		34.11		84.00		6.25		3.99		4.1	
	27/3/2023	Strong Monsoon							WQM	was cancell	ed due to ad	verse weath	er						
	29/3/2023	Cloudy	9:18 9:19	2.4	1.2	19.80 19.80	19.80	8.14 8.14	8.14	33.80 33.81	33.81	83.10 82.00	82.55	6.18 6.12	6.15	8.04 8.10	8.07	7.4	
			8:38	2.4	1.3	20.30		8.09		33.87		83.40		6.16		3.80		1.7	
	31/3/2023	Cloudy	8:38	2.5	1.3	20.30	20.30	8.09	8.10	33.87	33.92	84.30	83.85	6.24	6.20	3.80	3.90	1.7	1.8

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	00	Turk	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С				pt		%	m			TU		ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:37	2.7	1.4	18.80	18.80	7.84	7.86	32.53	32.53	81.40	80.50	6.29	6.24	5.95	5.89	5.5	
	170/2020	1 1110	13:38	2.7	1.4	18.80	10.00	7.87	7.00	32.53	02.00	79.60	00.00	6.18	0.14	5.83	0.00	5.2	
	4/3/2023	Fine	10:15	2.3	1.2	18.90	18 90	8.13	8 13	32.79	32 79	79.70	78.95	6.15	6 10	6.88	6.80	5.0	
			10:16	2.3	1.2	18.90		8.12		32.79	020	78.20		6.04		6.72		5.3	
	6/3/2023	Fine	11:58	2.6	1.3	19.00	19.00	8.18	8.18	32.86	32.87	78.10	79.75	6.08	6.15	6.31	6.30	5.7	5.9
			11:59	2.6	1.3	19.00		8.18		32.87	02.01	81.40		6.21		6.28		6.1	
	8/3/2023	Cloudy	12:58	2.6	1.3	20.50	20.45	8.18	8.18	32.89	32.89	81.10	82.15	6.07	6.15	3.32	3.37	3.5	
			12:59	2.6	1.3	20.40		8.18		32.89		83.20		6.22		3.42		4.6	
	10/3/2023	Fine	13:58	2.7	1.4	21.30	21.30	8.26	8.26	32.80	32.80	83.10	83.90	6.13	6.20	4.10	4.15	<1.0	1.0
			13:59	2.7	1.4	21.30		8.26		32.80		84.70		6.26		4.19		<1.0	
	13/3/2023	Cloudy	13:30	2.8	1.4	20.80	20.80	8.32	8.33	32.72	32.72	83.90	83.40	6.25	6.22	4.93	5.00	6.1	6.3
			13:31	2.8	1.4	20.80		8.33		32.71		82.90		6.19		5.06		6.4	
	15/3/2023	Cloudy	17:41	2.8	1.4	21.00	21.05	8.36	8.36	32.60	32.61	83.40	83.85	6.16	6.20	4.47	4.49	2.2	2.4
SR15			17:42	2.8	1.4	21.10		8.36		32.62		84.30		6.24		4.51		2.5	
	18/3/2023	Cloudy	9:18	2.5	1.3	20.40	20.35	8.15	8.15	33.98	33.97	84.80	84.95	6.27	6.28	4.90	4.99	<1.0	1.0
			9:19 11:37	2.5	1.3	20.30		8.15 8.33		33.96 34.19		85.10 85.10		6.29		5.07 5.68		<1.0	
	20/3/2023	Cloudy	11:37	2.7	1.4	20.60	20.60	8.33	8.33	34.19	34.20	83.90	84.50	6.25	6.25	5.52	5.60	1.4	1.5
			11:38	2.7	1.4	21.40		8.33		34.20		85.00		6.25		4.55		4.0	
	22/3/2023	Cloudy	12:55	2.4	1.2	21.40	21.45	8.23	8.24	34.20	34.21	83.90	84.45	6.25	6.21	4.39	4.47	4.4	4.2
			14:12	2.7	1.4	22.00		8.20		34.14		84.40		6.19		3.49		4.0	
	24/3/2023	Cloudy	14:13	2.7	1.4	22.10	22.05	8.20	8.20	34.14	34.14	81.20	82.80	6.24	6.22	3.28	3.39	4.3	4.2
		Strong	14.13	2.1	1.79	22.10		0.20						0.24		3.20	l	4.5	1
	27/3/2023	Monsoon							WQM	was cancell	ed due to ad	verse weath	ner						
			18:32	2.8	1.4	20.10		8.16		34.07		85.70		6.28		5.48		4.6	
	29/3/2023	Cloudy	18:33	2.8	1.4	19.90	20.00	8.16	8.16	34.07	34.07	84.20	84.95	6.18	6.23	5.53	5.51	4.0	
	0400000	01. 1	13:58	2.7	1.4	20.30	20.25	8.12	8.12	33.95	33.94	84.80	04.00	6.21	0.40	3.55	0.04	2.8	
	31/3/2023	Cloudy	13:59	2.7	1.4	20.20	20.25	8.12	8.12	33.92	33.94	83.20	84.00	6.14	6.18	3.67	3.61	3.2	

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

				Water	Sampling	Temp	erature	r	Н	Sa	linity	DO Sa	turation	D	0	Tur	hidity		SS
Station Reference	Sampling Date	Weather	Sampling Time	Depth	Depth	0	'C			-	opt		%	mg	g/L	N'	TU	m	ng/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:13	2.2	1.1	18.80	18.75	8.14	8 14	32.69	32 70	80.90	81.25	6.22	6.25	7.32	7.39	6.9	7.0
			8:14	2.2	1.1	18.70		8.14		32.70		81.60	0	6.28		7.46		7.1	
	4/3/2023	Fine	15:58	2.6	1.3	18.80	18.85	8.16	8.16	32.87		82.10	81.45	6.23	6.18	5.00	3.57	5.1	4.9
			15:59	2.6	1.3	18.90		8.15		32.86		80.80		6.13		2.13		4.7	
	6/3/2023	Fine	7:01	2.2	1.1	19.10	19.05	8.19	8.19	32.90	32.91	79.60	79.65	6.09	6.10	4.89	4.95	7.0	7.0
			7:02	2.2	1.1	19.00		8.18		32.91		79.70		6.11		5.01		6.9	
	8/3/2023	Cloudy	7:10	2.5	1.3	20.00	20.00	8.10	8.11	32.81	32.81	80.00	81.35	6.04	6.10	6.28	6.18	5.1	5.4
			7:11	2.5	1.3	20.00		8.11		32.80		82.70		6.16		6.08		5.6	
	10/3/2023	Fine	7:22	2.3	1.2	20.90	20.90	8.10 8.09	8.10	32.73		82.40 80.80	81.60	6.21	6.14	4.51	4.56	1.6	
			7:23		1.2	20.90				32.72				6.07		4.60			
	13/3/2023	Cloudy	8:25 8:26	2.5	1.3	20.80	20.75	8.19 8.18	8.19	32.60 32.59	4 32.60	83.30 82.30	82.80	6.17	6.14	7.44	7.46	6.0 5.6	
			7:00	2.5	1.3	20.70		8.24		32.59		83.30		6.23		4.51		4.2	
	15/3/2023	Cloudy	7:01	2.5	1.3	20.60	20.60	8.29	8.27	32.60	32.61	82.00	82.65	6.13	6.18	4.70	4.61	4.6	4.4
SR15			14:24	2.7	1.4	20.80		8.31		34.01		83.60		6.14		5.79		1.3	
	18/3/2023	Cloudy	14:25	2.7	1.4	20.80	20.80	8.32	8.32	34.04	34.03	85.20	84.40	6.25	6.20	5.63	5.71	1.5	
			7:02	2.6	1.3	20.20		8.23	8.23	34.19		84.30		6.28	6.23	6.43	6.50	3.3	
	20/3/2023	Cloudy	7:03	2.6	1.3	20.10	20.15	8.23	8.23	34.20	34.20	82.80	83.55	6.17	6.23	6.57	6.50	3.0	3.2
	00000000	OL 1	7:02	2.7	1.4	21.10	04.45	8.17	8 17	34.23	34.23	83.40	84.55	6.14	0.40	5.02	5.00	4.1	3.9
	22/3/2023	Cloudy	7:03	2.7	1.4	21.20	21.15	8.17	8.17	34.23	34.23	85.70	84.55	6.24	6.19	4.98	5.00	3.7	3.9
	24/3/2023	Cloudy	7:32	2.4	1.2	21.50	21.45	8.13	8 13	34.12	34.11	83.40	83.75	6.14	6.16	5.32	5.37	4.2	4.4
	24/3/2023	Cidudy	7:33	2.4	1.2	21.40	21.45	8.13	0.13	34.10	34.11	84.10	03.75	6.18	0.10	5.42	5.37	4.5	4.4
	27/3/2023	Strong Monsoon							WQM	was cancel	lled due to ac	verse weath	ner						
	29/3/2023	Cloudy	8:28	2.6	1.3	19.90	19.95	8.15 8.14	8.15	33.96	33.95	84.20	84.05	6.25 6.20	6.23	5.46	5.44	3.4	3.3
			8:29	2.6	1.3	20.00		8.14		33.94	-	83.90				5.42			
	31/3/2023	Cloudy	7:48 7:49	2.4	1.2	20.20	20.15	8.08	8.08	33.88 33.89		81.60 83.40	82.50	6.08	6.14	3.49 3.56	3.53	2.3	2.2

Low Environmental Carviage Limite

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	oidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	ppt	•	%	m			TU	mg	
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	12:40	8.7	1.0	18.70	18 70	8.20	8 20	32.71	32.72	80.90	79 70	6.23	6 19	6.04	5.99	4.0	3.8
	1702020	1 1110	12:41	8.7	1.0	18.70	10.70	8.20	0.20	32.72	OZ.,, Z	78.50	75.70	6.15	0.10	5.93	0.00	3.6	
	4/3/2023	Fine	11:16	8.4	1.0	18.60	18.60	8.19	8 19	32.97	32.97	77.60	78 90	6.01	6.11	6.78	6.75	5.1	5.3
			11:17	8.4	1.0	18.60		8.18		32.96		80.20		6.20		6.72		5.5	
	6/3/2023	Fine	11:00	8.7	1.0	18.70	18.75	8.17	8 18	32.88	32.88	79.30	79.75	6.16	6.20	5.27	5.25	7.8	7.6
	GGZGZG	1 1110	11:01	8.7	1.0	18.80	10.70	8.18	0.10	32.88	02.00	80.20	70.70	6.23	0.10	5.22	0.20	7.4	
	8/3/2023	Cloudy	12:00	8.8	1.0	20.90	20.85	8.20	8 20	32.89	32.89	81.50	82.50	6.09	6.15	3.85	3.93	2.2	2.6
	0.02020	Oloudy	12:01	8.8	1.0	20.80	20.00	8.19	0.20	32.89	02.00	83.50	02.00	6.20	0.10	4.01	0.00	3.0	2.0
	10/3/2023	Fine	13:00	8.7	1.0	21.10	21.05	8.21	8 21	32.82	32.82	84.90	84.10	6.24	6.20	2.69	2 73	<1.0	1.0
	10/0/2020	11110	13:01	8.7	1.0	21.00	21.00	8.21	0.21	32.82	02.02	83.30	04.10	6.15	0.10	2.77	2.70	<1.0	
	13/3/2023	Cloudy	12:30	8.8	1.0	20.30	20.35	8.26	8.26	32.54	32.55	83.50	82.75	6.25	6.23	4.38	4 44	4.6	4.8
	10/02/02/0	Oloudy	12:31	8.8	1.0	20.40	20.00	8.26	0.20	32.55	02.00	82.00	02.70	6.20	0.10	4.49	4.44	5.0	4.0
	15/3/2023	Cloudy	16:40	8.6	1.0	21.00	21.00	8.31	8.31	32.56	32.57	83.40	83.30	6.19	6 17	2.22	2.30	2.7	2.6
CE	TOTOLEGE	Oloudy	16:41	8.6	1.0	21.00	21.00	8.31	0.01	32.57	02.07	83.20	00.00	6.14	0.17	2.38	2.00	2.5	
	18/3/2023	Cloudy	10:24	8.4	1.0	20.60	20.65	8.28	8 28	34.12	34 11	84.20	84 45	6.23	6.24	4.56	4 46	<1.0	1.0
		,	10:25	8.4	1.0	20.70		8.28	0.20	34.10	•	84.70		6.25		4.36		<1.0	
	20/3/2023	Cloudy	10:40	8.5	1.0	20.40	20.45	8.31	8.31	34.28	34.28	82.70	83.25	6.13	6 17	7.06	6.99	3.6	3.4
	LUIGILOLO	Oloudy	10:41	8.5	1.0	20.50	20.40	8.30	0.01	34.28	04.20	83.80	00.20	6.20	0.17	6.92	0.00	3.1	
	22/3/2023	Cloudy	12:00	8.6	1.0	20.90	20.90	8.24	8 25	34.37	34.37	84.30	83.80	6.21	6.25	3.13	3.09	2.7	2.9
	LEGICOLO	Oloudy	12:01	8.6	1.0	20.90	20.00	8.25	0.20	34.36	04.07	83.30	00.00	6.28	0.10	3.04	0.00	3.0	
	24/3/2023	Cloudy	13:12	8.7	1.0	21.60	21.55	8.20	8.20	34.19	34.18	81.90	82.80	6.13	6.19	3.80	3.74	2.6	2.8
	Z-WGZOZO	Oloudy	13:13	8.7	1.0	21.50	21.00	8.20	0.20	34.17	04.10	83.70	02.00	6.24	0.10	3.68	0.74	3.0	
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to a	lverse weath	ier						
	29/3/2023	Cloudy	17:30	8.8	1.0	19.90	19.90	8.19	8.18	33.90	33.91	82.60	82.60	6.28	6.21	6.24	6.27	4.8	4.6
	29/3/2023	Cioudy	17:31	8.8	1.0	19.90	19.90	8.17	0.10	33.91	33.91	82.60	02.00	6.13	0.21	6.30	0.27	4.4	4.0
	31/3/2023	Cloudy	13:00	8.7	1.0	20.10	20.05	8.17	8 17	34.00	34.00	82.00	82 55	6.09	6.13	3.40	3.36	3.0	3.2
	31/3/2023	Cidudy	13:01	8.7	1.0	20.00	20.05	8.16	0.17	33.99	34.00	83.10	02.55	6.17	0.13	3.32	3.30	3.4	J.2

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

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

		Sampling		Sampling	Water	Sampling	Temp	erature	р	Н	Sal	linity	DO Sa	turation	D	0	Turi	bidity	5	SS
	Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m			TU		g/L
		Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		1/3/2023	Fine	9:13	8.5	1.0	18.70	18 65	8.20	8.20	32.68	32.70	81.10	80.90	6.25	6.23	3.65	3.73	4.9	5.1
				9:14	8.5	1.0	18.60		8.20		32.71		80.70		6.21		3.80		5.2	
		4/3/2023	Fine	15:00	8.7	1.0	18.70	18.75	8.21	8 21	32.88	32.92	80.00	79.45	6.17	6.11	7.55	6.78	5.6	5.5
				15:01	8.7	1.0	18.80		8.21		32.95		78.90		6.05		6.00		5.4	
		6/3/2023	Fine	7:59	8.4	1.0	18.80	18.85	8.17	8.18	32.96	32.96	79.90	79.65	6.10	6.12	6.29	6.33	10.1	9.9
				8:00	8.4	1.0	18.90		8.18		32.96		79.40		6.14		6.37		9.7	
		8/3/2023	Cloudy	8:10	8.5	1.0	20.10	20.05	8.17	8.17	32.98	32.98	79.80	78.90	6.16	6.10	4.51	4.48	7.0	7.2
			,	8:11	8.5	1.0	20.00		8.16		32.98		78.00		6.03		4.44		7.4	
		10/3/2023	Fine	8:21	8.4	1.0	20.90	20.85	8.21	8.21	32.79	32.80	77.60	78.90	6.01	6.11	2.68	2.74	<1.0	1.0
				8:22	8.4	1.0	20.80		8.21		32.80		80.20		6.20		2.79		<1.0	
		13/3/2023	Cloudy	9:26	8.5	1.0	82.80	83.20	8.26	8.26	32.53	32.53	82.80	83.20	6.20	6.22	5.40	5.34	8.4	8.3
				9:27	8.5	1.0	83.60		8.25		32.52		83.60		6.24		5.28		8.1	
		15/3/2023	Cloudy	8:19	8.4	1.0	20.80	20.80	8.37	8.37	32.63	32.63	83.50	83.80	6.18	6.21	2.70	2.84	3.8	3.6
	CE			8:20 13:30	8.4 8.5	1.0	20.80		8.36		32.63		84.10		6.24		2.98		3.4	
		18/3/2023	Cloudy		8.5		21.20	21.15	8.30 8.30	8.30	34.19	34.19	83.20 84.00	83.60	6.14	6.17	5.46	5.37	<1.0	1.0
				13:31	8.3	1.0	21.10		8.30		34.19		0		6.18		5.28		<1.0	
		20/3/2023	Cloudy	8:08	8.3	1.0	20.30	20.30	8.30	8.30	34.27 34.27	34.27	83.10 84.20	83.65	6.18	6.22	4.11	4.07	3.8	3.6
				8:10	8.7	1.0	20.80		8.22		34.33		82.80		6.24		4.03		2.8	
		22/3/2023	Cloudy	8:11	8.7	1.0	20.80	20.80	8.22	8.22	34.32	34.33	83.60	83.20	6.24	6.25	4.22	4.21	3.2	3.0
				8:38	8.5	1.0	21.50		8.17		34.22		82.40		6.19		1.59		2.2	
		24/3/2023	Cloudy	8:39	8.5	1.0	21.40	21.45	8.17	8.17	34.19	34.21	81 10	81.75	6.04	6.12	2.21	1.90	2.5	2.4
		27/3/2023	Strong	0.05	0.0	0	21.40		0.17	WOM		ed due to ad		er	0.04	!	2.21		2.3	
		2.70/2023	Monsoon							VV CQIVI	mas sancen	ou uue to au	TOTOC WOOL							
		29/3/2023	Cloudy	9:30	8.5	1.0	19.80	19.80	8.14	8 15	33.90	33.90	83.70	82.80	6.24	6.19	8.04	8.12	4.3	4.5
		20/0/2020	Cioddy	9:31	8.5	1.0	19.80	19.00	8.15	0.13	33.90	33.50	81.90	32.00	6.13	0.15	8.19	0.12	4.6	4.0
		31/3/2023	Cloudy	8:48 8:49	8.4 8.4	1.0	20.20	20.20	8.15 8.16	8.16	33.96 33.96	33.96	83.30 84.30	83.80	6.18	6.19	5.59 5.48	5.54	2.6	2.4
L				0.49	0.4	1.0	20.20		0.10		33.90		04.30		6.20		5.40		2.2	

Impact Water Quality Monitoring at Station CE (Middle) - Ebb 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	٥	С			р	pt		%	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
	1/3/2023	Fine	12:44	8.7	4.4	18.90	18.85	8.21	8.21	32.75	32.76	80.90	79.65	6.25	6.18	4.51	4.76	4.4	4.6
	1/3/2023	Tille	12:45	8.7	4.4	18.80	10.00	8.20	0.21	32.76	32.70	78.40	75.00	6.10	0.10	5.00	4.70	4.8	4.0
	4/3/2023	Fine	11:20	8.4	4.2	18.70	18 65	8.20	8.20	32.94	32 95	79.70	78.50	6.15	6 10	7.05	7 10	5.8	6.0
			11:21	8.4	4.2	18.60		8.19	0.20	32.95	02.00	77.30		6.04		7.15		6.1	
	6/3/2023	Fine	11:04	8.7	4.4	18.80	18.85	8.19	8 19	32.97	32.97	80.40	79.55	6.25	6.18	6.54	6.57	6.4	6.6
			11:05	8.7	4.4	18.90		8.19	00	32.96	02.01	78.70	10.00	6.10		6.60		6.8	
	8/3/2023	Cloudy	12:04	8.8	4.4	20.50	20.50	8.19	8.19	32.94	34.45	83.90	83.80	6.25	6.23	4.62	4.68	2.8	2.6
			12:05	8.8	4.4	20.50		8.19		35.95		83.70		6.21		4.73		2.4	
	10/3/2023	Fine	13:04	8.7	4.4	21.00	21.00	8.24	8.24	32.85	32.85	82.70	83.45	6.13	6.18	3.99	3.84	1.1	1.3
			13:05	8.7	4.4	21.00		8.23		32.84		84.20	- ' '	6.22		3.68		1.4	
	13/3/2023	Cloudy	12:34	8.8	4.4	20.50	20.45	8.28	8.28	32.59	32.59	83.20	82.50	6.23	6.19	6.04	6.01	5.6	5.5
			12:35	8.8	4.4	20.40		8.27		32.59		81.80		6.14		5.98		5.3	
	15/3/2023	Cloudy	16:44	8.6	4.3	21.10	21.10	8.37	8.37	32.62	32.62	84.60	84.20	6.24	6.21	3.35	3.41	2.1	2.2
CE			16:45	8.6 8.4	4.3	21.10		8.36 8.28		32.62		83.80 84.90		6.18		3.47		2.2	
	18/3/2023	Cloudy	10:28	8.4	4.2	20.60	20.65	8.28	8.29	34.05 34.03	34.04	84.90	84.85	6.23	6.24	3.97	3.91	1.2	1.3
			10:29	8.5	4.2	20.70		8.29		34.03		84.80		6.24		3.84 4.67		2.6	
	20/3/2023	Cloudy	10:44	8.5	4.3	20.40	20.40	8.32	8.32	34.29	34.29	83.40	83.90	6.19	6.22	4.45	4.56	2.0	2.8
			12:04	8.6	4.3	20.40		8.25		34.34		82.90		6.20		2.60		2.2	
	22/3/2023	Cloudy	12:05	8.6	4.3	20.80	20.80	8.26	8.26	34.33	34.34	83.70	83.30	6.25	6.23	2.95	2.78	3.6	
			13:16	8.7	4.4	21.40		8.20		34.16		84.10		6.14		3.92		4.1	
	24/3/2023	Cloudy	13:17	8.7	4.4	21.40	21.40	8.20	8.20	34.16	34.16	83.30	83.70	6.26	6.20	4.10	4.01	4.6	4.4
		Strong						0.20	won									1.00	
	27/3/2023	Monsoon							WUM	was cancell	ed due to ad	verse weatr	ier						
	29/3/2023	Cloudy	17:34	8.8	4.4	20.00	19.95	8.19	8 19	33.97	33.97	83.40	82 80	6.20	6 16	7.42	7 44	3.9	3.8
	25/5/2025	Sibudy	17:35	8.8	4.4	19.90	19.55	8.19	0.15	33.97	33.81	82.20	32.00	6.12	0.10	7.45	7.544	3.6	5.0
	31/3/2023	Cloudy	13:04	8.7	4.4	20.10	20.10	8.18	8.18	34.00	34.01	82.80	83.15	6.14	6.17	5.68	5.65	2.7	2.6
		,	13:05	8.7	4.4	20.10				34.01	,	83.50	,	6.19		5.62	0.00	2.5	

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

	Sampling		Sampling	Water	Sampling		erature	r	Н		linity		turation		0		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG		AVG		AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	9:17	8.5	4.3	18.80	18.80	8.21	8.21	32.76	32.76	78.00	78.95	6.05	6.11	6.49	6.43	7.2	
			9:18	8.5	4.3	18.80		8.20		32.76		79.90		6.17		6.37		7.7	
	4/3/2023	Fine	15:02	8.7	4.4	18.80	18.80	8.22	8.22	32.92	32.92	80.10	80.05	6.18	6.18	7.59	7.52	7.2	
			15:03	8.7	4.4	18.80		8.21		32.91		80.00		6.17		7.45		7.5	
	6/3/2023	Fine	8:03	8.4	4.2	18.80	18.85	8.18	8.18	32.00	32.50	81.70	81.05	6.26	6.23	5.91	5.95	8.1	8.3
			8:04	8.4	4.2	18.90		8.18		32.99		80.40		6.19		5.98		8.4	
	8/3/2023	Cloudy	8:14	8.5	4.3	20.00	20.00	8.19	8.19	32.95	32.96	81.10	81.95	6.12	6.19	5.53	5.48	3.3	
		-	8:15	8.5	4.3	20.00		8.19		32.96		82.80		6.25		5.43		3.7	
	10/3/2023	Fine	8:25	8.4	4.2	20.80	20.80	8.23	8.23	32.83	32.83	84.10	83.10	6.24	6.18	4.51	4.49	1.2	
			8:26	8.4	4.2	20.80		8.23		32.83		82.10		6.11		4.46		1.4	
	13/3/2023	Cloudy	9:30	8.5	4.3	83.20	82.45	8.29	8.29	32.58	32.58	83.20	82.45	6.19	6.16	6.56	6.49	6.9	
			9:31	8.5	4.3	81.70		8.29		32.58		81.70		6.12		6.42		7.3	
	15/3/2023	Cloudy	8:23	8.4	4.2	20.80	20.75	8.38	8.38	32.63	32.64	82.80	82.20	6.15	6.14	4.48	4.50	4.3	
CE			8:24	8.4	4.2	20.70		8.38		32.64		81.60		6.12		4.51		4.0	
	18/3/2023	Cloudy	13:34	8.5	4.3	21.00	21.00	8.30	8.31	34.14	34.14	84.80	85.00	6.27	6.28	3.40	3.45	1.5	
			13:35 8:12	8.5 8.3	4.3 4.2	21.00		8.31 8.31		34.13 34.26		85.20 82.20		6.29		3.49 5.37		1.2	
	20/3/2023	Cloudy	8:12	8.3	4.2	20.30	20.30	8.31	8.32	34.26	34.26	82.20	82.80	6.12	6.16	5.55	5.46	2.8	
			8:13	8.3	4.4	20.80		8.32		34.26		83.40		6.20		2.50		3.6	
	22/3/2023	Cloudy	8:14	8.7	4.4	20.80	20.75	8.22	8.23	34.32	34.32	82.20	82.80	6.17	6.19	2.50	2.42	4.0	
			8:15	8.7	4.4	21.20		8.23		34.32		84.90		6.23		4.90		3.0	
	24/3/2023	Cloudy	8:43	8.5	4.3	21.20	21.20	8.18	8.18	34.08	34.08	82.60	83.75	6.08	6.16	4.48	4.69	2.5	
		Strong	0.43	0.5	4.3	21.20		0.10						0.00		4.40		2.5	
	27/3/2023	Monsoon							WQM	was cancel	led due to ad	verse weath	ier						
	29/3/2023	Cloudy	9:34	8.5	4.3	19.90	19.90	8.15	8.15	33.90	33.92	82.90	82.10	6.19	6.14	7.82	7.78	5.0	
			9:35	8.5	4.3	19.90		8.15		33.93		81.30		6.09		7.73		4.8	
	31/3/2023	Cloudy	8:52 8:53	8.4	4.2	20.10	20.15	8.16 8.16	8.16	33.99	33.99	82.00 81.80	81.90	6.10	6.09	4.56 4.37	4.47	3.2	

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation		00		bidity		S
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU		g/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	12:47	8.7	7.7	18.90	18.90	8.21	8.21	32.78	32.78	80.10	78.60	6.23	6.15	6.15	6.18	5.2	5.5
			12:48	8.7	7.7	18.90		8.21		32.78		77.10		6.07		6.21		5.7	
	4/3/2023	Fine	11:23	8.4	7.4	18.70	18.70	8.21	8.21	32.94	32.94	79.20	79.90	6.07	6.13	8.70	8.55	6.8	7.0
			11:24	8.4	7.4	18.70		8.20		32.94		80.60		6.19		8.39	0.00	7.2	
	6/3/2023	Fine	11:07	8.7	7.7	18.80	18.75	8.20	8 20	33.00	33.00	80.10	80.00	6.17	6.18	6.04	6.12	5.0	5.2
	0/0/2020	11110	11:08	8.7	7.7	18.70	10.70	8.20	0.20	33.00	00.00	79.90	00.00	6.18	0.10	6.20	0.12	5.4	
	8/3/2023	Cloudy	12:07	8.8	7.8	20.80	20.80	8.20	8 20	32.75	32 74	80.90	81 70	6.06	6.11	5.98	6.01	6.9	6.0
	0.0.2020	Oloudy	12:08	8.8	7.8	20.80	20.00	8.20	0.20	32.73	02.74	82.50	01.70	6.16	0.11	6.04	0.01	5.1	1
	10/3/2023	Fine	13:07	8.7	7.7	21.00	21.00	8.24	8 24	32.83	32.83	83.80	83.10	6.21	6.16	5.06	5.02	1.7	1.8
	10/3/2023	FILLE	13:08	8.7	7.7	21.00	21.00	8.24	0.24	32.83	32.03	82.40	03.10	6.11	0.10	4.98	5.02	1.8	1.0
	13/3/2023	Cloudy	12:37	8.8	7.8	20.40	20.40	8.29	8 29	32.64	32.64	81.50	81.90	6.11	6 17	5.97	6.00	6.2	6.1
	13/3/2023	Cioudy	12:38	8.8	7.8	20.40	20.40	8.28	0.25	32.63	32.04	82.30	01.50	6.23	0.17	6.03	0.00	6.0	1
	15/3/2023	Cloudy	16:47	8.6	7.6	20.90	20.90	8.38	8.38	32.66	32 66	84.10	84.45	6.22	6.25	4.53	4.56	1.7	1.7
CE	13/3/2023	Cioudy	16:48	8.6	7.6	20.90	20.50	8.38	0.30	32.66	32.00	84.80	04.45	6.27	0.23	4.59	4.50	1.6	l '''
CL	18/3/2023	Cloudy	10:31	8.4	7.4	20.60	20.60	8.27	8.27	34.14	34.15	84.70	84.35	6.23	6.22	3.42	3.39	1.7	1.8
	10/3/2023	Cioudy	10:32	8.4	7.4	20.60	20.00	8.26	0.27	34.15	34.13	84.00	04.33	6.20	0.22	3.36	3.35	1.9	1
	20/3/2023	Cloudy	10:47	8.5	7.5	20.40	20.45	8.32	8.32	34.28	34.28	84.90	84.80	6.27	6.26	5.39	5.43	2.4	2.3
	20/3/2023	Cioudy	10:48	8.5	7.5	20.50	20.45	8.32	0.32	34.27	34.20	84.70	04.00	6.25	0.20	5.46	5.43	2.1	2.3
	22/3/2023	Cloudy	12:07	8.6	7.6	20.80	20.80	8.26	8.26	34.32	34.32	85.00	83.90	6.28	6.21	4.11	4 19	4.6	4.4
	22/3/2023	Cioudy	12:08	8.6	7.6	20.80	20.00	8.26	0.20	34.32	34.32	82.80	63.90	6.13	0.21	4.26	4.19	4.1	4.4
	24/3/2023	Cloudy	13:19	8.7	7.7	21.30	21.30	8.20	8.21	34.17	34.17	85.90	86.75	6.18	6.21	5.42	5.53	5.1	5.3
	24/3/2023	Cioudy	13:20	8.7	7.7	21.30	21.30	8.21	0.21	34.17	34.17	87.60	00.75	6.24	0.21	5.63	5.53	5.4	5.3
	27/3/2023	Strong Monsoon						•	WQM	was cancel	led due to ac	lverse weath	ner						
	29/3/2023	Cloudy	17:37	8.8	7.8	20.00	20.00	8.19	8.19	34.00	34.01	83.10	83.65	6.18	6.22	7.08	7.11	3.1	3.0
	29/3/2023	Cidudy	17:38	8.8	7.8	20.00	20.00	8.19	8.19	34.01	34.01	84.20	63.65	6.25	6.22	7.14	7.11	2.8	3.0
	31/3/2023	Cloudy	13:07	8.7	7.7	20.10	20.15	8.18	8.18	34.01	34.01	84.40	83.90	6.28	6.25	4.56	4 47	2.2	2.3
	31/3/2023	Cidudy	13:08	8.7	7.7	20.20	20.15	-	0.10	34.00	34.01	83.40	03.90	6.22	0.25	4.38	4.47	2.4	2.3

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 CE (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling		erature	р	Ī	Sal	inity		turation	D	0	Turl	bidity	-	SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		6	mg			TU		ng/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	9:20	8.5	7.5	18.70	18.75	8.21	8.21	32.21	32.21	77.90	79.05	6.05	6.15	6.27	6.32	10.4	10.6
			9:21	8.5	7.5	18.80		8.21	5	32.21	0	80.20		6.24		6.36		10.8	_
	4/3/2023	Fine	15:04	8.7	7.7	18.80	18.85	8.22	8.22	32.94	32.94	79.80	79.55	6.13	6.14	8.40	8.44	8.2	
			15:05	8.7	7.7	18.90		8.22		32.94		79.30		6.15		8.47		8.5	_
	6/3/2023	Fine	8:06	8.4	7.4	18.70	18.70	8.18	8.18	32.97	32.98	78.70	79.60	6.11	6.16	5.55	5.57	5.5	
			8:07	8.4	7.4	18.70		8.18		32.98		80.50		6.21		5.59		5.2	_
	8/3/2023	Cloudy	8:17	8.5	7.5	20.00	20.05	8.20	8.20	32.92	32.92	82.90	82.70	6.24	6.21	4.62	4.70	5.8	
		-	8:18	8.5	7.5	20.10		8.19		32.92		82.50		6.18		4.78		5.4	_
	10/3/2023	Fine	8:28	8.4	7.4	20.80	20.85	8.23	8.23	32.83	32.83	82.40	83.00	6.12	6.17	3.84	3.75	1.6	
			8:29	8.4	7.4	20.90		8.22		32.82		83.60		6.21		3.65		1.9	_
	13/3/2023	Cloudy	9:33	8.5	7.5	81.70	82.20	8.29	8.29	32.63	32.64	81.10	81.90	6.06	6.11	4.38	4.45	6.0	
			9:34	8.5	7.5	82.70		8.28		32.64		82.70		6.16		4.51		5.6	
	15/3/2023	Cloudy	8:26	8.4	7.4	20.70	20.70	8.39	8.39	32.66	32.66	82.70 84.00	83.35	6.18	6.21	3.58	3.39	4.8	
CE			8:27	8.4	7.4	20.70		8.38		32.65		0		6.23		3.20		5.1	_
	18/3/2023	Cloudy	13:37	8.5	7.5	21.10	21.10	8.31	8.31	34.08	34.08	84.20	83.55	6.23	6.22	3.57	3.62	1.9	
			13:38 8:15	8.5 8.3	7.5 7.3	21.10		8.30 8.31		34.08		82.90 82.60		6.20		3.66 6.39		1.6	
	20/3/2023	Cloudy	8:16	8.3	7.3	20.20	20.25	8.32	8.32	34.27	34.27	83.40	83.00	6.19	6.16	6.35	6.37	2.1	
			8:17	8.7	7.7	20.70		8.24		34.21		83.70		6.19		2.83		4.4	
	22/3/2023	Cloudy	8:18	8.7	7.7	20.70	20.70	8.25	8.25	34.32	34.32	82.60	83.15	6.20	6.24	2.03	2.89	4.4	
			8:45	8.5	7.5	21.10		8.17		34.14		82.70		6.10		5.12		4.8	
	24/3/2023	Cloudy	8:46	8.5	7.5	21.10	21.10	8.18	8.18	34.13	34.14	85.00	83.85	6.26	6.18	5.16	5.14	4.4	
		Strong	0.40	0.0	7.5	21.10		0.10						0.20		3.10		4.4	
	27/3/2023	Monsoon							WQM	was cancell	ed due to ad	verse weath	er						
			9:37	8.5	7.5	19.80		8.15		34.00		82.70		6.14		6.49		5.4	T
	29/3/2023	Cloudy	9:38	8.5	7.5	19.90	19.85	8.15	8.15	34.01	34.01	84.30	83.50	6.29	6.22	6.44	6.47	5.6	
	0400000	01. 1	8:55	8.4	7.4	20.20	00.00	8.16	0.40	33.98	00.00	83.60	00.40	6.18	0.45	2.98		4.4	
	31/3/2023	Cloudy	8:56	8.4	7.4	20.20	20.20	8.16	8.16	33.98	33.98	82.60	83.10	6.12	6.15	3.09	3.04	3.9	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	oidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	ppt	•	%	m			TU	mg	
	Date		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:53	8.7	1.0	18.60	18 60	8.11	8 12	32.70	32 71	80.50	79.80	6.27	6.21	8.13	8 18	5.8	6.0
	1702020	1 1110	13:54	8.7	1.0	18.60	10.00	8.12	0.12	32.71	02.71	79.10	70.00	6.14	0.1.1	8.23	0.10	6.1	
	4/3/2023	Fine	10:00	8.3	1.0	18.70	18.70	8.08	8.09	32.92	32.92	80.10	79.55	6.18	6.18	6.15	6.18	3.7	3.9
			10:01	8.3	1.0	18.70		8.09	0.00	32.91		79.00		6.17		6.20		4.0	
	6/3/2023	Fine	12:17	8.6	1.0	19.00	19.05	8.15	8 16	32.89	32 89	81.00	80.05	6.20	6 15	5.57	5.63	6.6	6.4
	GGZGZG	1 1110	12:18	8.6	1.0	19.10	10.00	8.16	0.10	32.89	02.00	79.10	00.00	6.10	0.10	5.68	0.00	6.1	
	8/3/2023	Cloudy	13:15	8.8	1.0	20.60	20.55	8.18	8 18	32.74	32.73	83.00	82.15	6.23	6.15	3.49	3.52	4.5	4.7
	0.02020	Oloudy	13:16	8.8	1.0	20.50	20.00	8.18	0.10	32.72	02.70	81.30	02.10	6.07	0.10	3.54	0.02	4.8	4.7
	10/3/2023	Fine	13:14	8.7	1.0	20.80	20.80	8.22	8 23	32.62	32.62	83.80	82.80	6.28	6.21	2.68	2.72	<1.0	1.0
	10/0/2020	11110	13:15	8.7	1.0	20.80	20.00	8.23	0.20	32.61	02.02	81.80	02.00	6.13	0.11	2.75	2.72	<1.0	
	13/3/2023	Cloudy	12:45	8.8	1.0	20.20	20.15	8.27	8.27	32.62	32.62	82.50	81.90	6.19	6.15	7.31	7.36	8.8	9.0
	10/02/02/0	Oloudy	12:46	8.8	1.0	20.10	20.10	8.27	0.27	32.62	02.02	81.30	01.50	6.11	0.10	7.40	7.00	9.1	0.0
	15/3/2023	Cloudy	17:57	8.7	1.0	20.90	20.90	8.26	8 27	32.62	32.62	83.40	82 60	6.19	6.14	3.70	3.84	2.8	2.9
CF	10/0/2020	Oloudy	17:58	8.7	1.0	20.90	20.00	8.27	0.27	32.62	02.02	81.80	02.00	6.08	0.14	3.97	0.04	3.0	
01	18/3/2023	Cloudy	9:00	8.5	1.0	20.00	20.00	7.89	7 90	34.30	34.31	84.30	83.45	6.26	6.23	3.49	3 43	1.2	1.2
	10/0/2020	Oloudy	9:01	8.5	1.0	20.00	20.00	7.90	7.50	34.31	04.01	82.60	00.40	6.19	0.10	3.37	0.40	1.1	
	20/3/2023	Cloudy	11:55	8.7	1.0	20.60	20.60	8.27	8.27	34.47	34 47	83.90	82 95	6.21	6 15	3.68	3.70	4.7	4.5
	20/3/2023	Cioudy	11:56	8.7	1.0	20.60	20.00	8.26	0.27	34.46	34.47	82.00	02.50	6.09	0.13	3.72	5.70	4.3	4.0
	22/3/2023	Cloudy	13:16	8.3	1.0	21.00	21.00	8.24	8 24	34.27	34.28	84.00	83.00	6.18	6.12	5.21	5.29	3.0	2.8
	22/3/2023	Cioudy	13:17	8.3	1.0	21.00	21.00	8.24	0.24	34.28	34.20	82.00	03.00	6.05	0.12	5.37	3.25	2.6	1
	24/3/2023	Cloudy	14:30	8.8	1.0	21.60	21.65	8.17	8.17	33.92	33.93	83.30	83.15	6.23	6.25	4.84	4.90	2.6	2.8
	24/3/2023	Cioudy	14:31	8.8	1.0	21.70	21.00	8.17	0.17	33.94	33.53	83.00	00.10	6.26	0.23	4.96	4.50	3.0	1
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to a	lverse weath	er						
	29/3/2023	Cloudy	18:48	8.8	1.0	20.20	20.20	8.18	8.18	33.90	33.90	84.80	84.95	6.27	6.28	4.66	4.65	3.2	3.4
	29/3/2023	Cioudy	18:49	8.8	1.0	20.20	20.20	8.18	0.10	33.89	33.90	85.10	64.93	6.29	0.20	4.63	4.00	3.6	3.4
	31/3/2023	Cloudy	14:16	8.8	1.0	20.20	20.20	8.13	8 14	34.01	34.01	84.40	84.20	6.21	6.21	2.98	3.07	3.1	3.3
	31/3/2023	Cidudy	14:17	8.8	1.0	20.20	20.20	8.14	0.14	34.01	34.01	84.00	34.20	6.20	0.21	3.15	3.07	3.5] 3.5

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		erature	р	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	mo			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	7:55	8.3	1.0	18.30	18.30	8.16	8.16	32.77	32.77	80.80	79.65	6.25	6.18	5.41	5.40	7.4	7.6
			7:56	8.3	1.0	18.30		8.15		32.76		78.50		6.10		5.39		7.8	
	4/3/2023	Fine	16:17	8.7	1.0	18.90	18.90	8.13	8.14	32.89	32.88	82.10	81.35	6.23	6.18	5.91	5.94	5.9	6.1
			16:18	8.7	1.0	18.90		8.14	·	32.87	- ' ' '	80.60	- ' ' '	6.13		5.97		6.2	
	6/3/2023	Fine	6:46	8.2	1.0	19.00	19.05	7.99	8.01	32.96	32.96	81.60	81.10	6.26	6.22	4.73	4.74	6.4	6.2
			6:47	8.2	1.0	19.10		8.02		32.95		80.60		6.17		4.75		6.0	
	8/3/2023	Cloudy	6:55	8.5	1.0	19.80	19.80	7.98	7.99	32.37	32.39	78.80	79.80	6.21	6.23	4.61	4.62	3.0	3.5
			6:56	8.5	1.0	19.80		7.99		32.40		80.80		6.24		4.63		3.9	
	10/3/2023	Fine	7:05	8.3	1.0	20.40	20.40	7.98	7.99	32.48	32.49	80.70	81.65	6.09	6.15	3.26	3.28	2.4	2.3
			7:06	8.3 8.5	1.0	20.40		8.00		32.49		82.60		6.20		3.30		2.2	
	13/3/2023	Cloudy	8:10 8:11	8.5	1.0	20.40	20.40	8.04 8.04	8.04	32.23	32.23	82.80 81.30	82.05	6.19	6.15	5.55 5.60	5.58	4.7	4.6
			6:45	8.4	1.0	20.40		8.04		32.23		81.30		6.25		5.60		2.3	
	15/3/2023	Cloudy	6:45	8.4	1.0	20.50	20.50	8.14	8.14	32.48	32.48	82.60	83.15	6.16	6.21	4.97	4.99	2.5	2.4
CF			14:43	8.8	1.0	20.50		8.14		34.22		84.10		6.19		4.97		<1.0	
	18/3/2023	Cloudy	14:44	8.8	1.0	20.60	20.65	8.28	8.29	34.22	34.22	84.90	84.50	6.25	6.22	4.34	4.39	<1.0	1.0
			6:45	8.6	1.0	20.10		8.11		34.41		81.60		6.12		6.37		2.1	
	20/3/2023	Cloudy	6:46	8.6	1.0	20.00	20.05	8.11	8.11	34.40	34.41	83.80	82.70	6.26	6.19	6.19	6.28	2.4	2.3
			6:45	8.7	1.0	20.80		8.09		34.13		81.40		6.03		5.15		4.8	
	22/3/2023	Cloudy	6:46	8.7	1.0	20.80	20.80	8.10	8.10	34.14	34.14	83.30	82.35	6.15	6.09	5.02	5.09	5.0	4.9
			7:15	8.5	1.0	21.20		8.09		33.67		84.40		6.28		4.33		3.2	
	24/3/2023	Cloudy	7:16	8.5	1.0	21.20	21.20	8.09	8.09	33.68	33.68	83.40	83.90	6.14	6.21	4.29	4.31	3.6	3.4
	27/3/2023	Strong Monsoon							WQM	was cancel	ed due to ad	verse weath	ner						
	29/3/2023	Cloudy	8:10	8.5	1.0	19.80	19.80	8.13	8.13	33.80	33.81	81.10	82.05	6.12	6.20	4.34	4.37	3.4	3.4
	29/3/2023	Cidudy	8:11	8.5	1.0	19.80	19.80	8.13	8.13	33.81	33.81	83.00	62.05	6.27	6.20	4.40	4.37	3.3	3.4
	31/3/2023	Cloudy	7:30	8.3	1.0	20.10	20.10	7.94	7.94	33.79	33.80	83.10	83.75	6.24	6.22	3.55	3.68	2.0	2.3
	31/3/2023	Cidudy	7:31	8.3	1.0	20.10	20.10	7.94	7.94	33.80	33.80	84.40	63.75	6.19	6.22	3.80	3.68	2.5	2.3

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	D	00	Turi	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU		ıg/L
	Date		TITLE	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	13:57	8.7	4.4	18.60	18.65	8.14	8.14	32.76	32.76	79.20	79.90	6.15	6.20	5.77	5.80	4.3	4.4
	1/3/2023	Tille	13:58	8.7	4.4	18.70	10.03	8.14	0.14	32.75	32.70	80.60	75.50	6.25	0.20	5.83	5.00	4.5	4.4
	4/3/2023	Fine	10:04	8.3	4.2	18.90	18 90	8.08	8.09	32.91	32.91	80.00	80.55	6.20	6 19	7.32	7.26	4.9	
			10:05	8.3	4.2	18.90		8.10		32.90		81.10		6.18		7.19		4.5	
	6/3/2023	Fine	12:21	8.6	4.3	19.10	19.05	8.15	8 15	32.93	32.93	79.40	78.60	6.08	6.05	6.42	6.51	5.6	
	0/0/2020	1 1110	12:22	8.6	4.3	19.00	10.00	8.15	0.10	32.92	02.00	77.80	70.00	6.01	0.00	6.59	0.01	5.2	
	8/3/2023	Cloudy	13:19	8.8	4.4	20.20	20.20	8.19	8 19	32.82	32.82	83.10	81.50	6.29	6 19	4.99	5.02	5.4	5.5
		,	13:20	8.8	4.4	20.20		8.18		32.82		79.90		6.08		5.04		5.5	
	10/3/2023	Fine	13:18	8.7	4.4	20.50	20.45	8.23	8.23	32.64	32.64	82.20	82.65	6.13	6 17	5.13	4 61	<1.0	1.0
			13:19	8.7	4.4	20.40		8.23	0.20	32.64		83.10		6.21	•	4.09		<1.0	
	13/3/2023	Cloudy	12:49	8.8	4.4	20.30	20.25	8.29	8.29	32.73	32.73	80.20	81.45	6.05	6.13	7.45	7.42	9.4	9.6
			12:50	8.8	4.4	20.20		8.28		32.72		82.70		6.21		7.39		9.7	
	15/3/2023	Cloudy	18:01	8.7	4.4	20.90	20.95	8.27	8.28	32.58	32.59	84.30	83.95	6.20	6.19	4.51	4.47	2.2	
CF			18:02	8.7	4.4	21.00		8.28		32.59		83.60		6.18		4.43		2.5	
	18/3/2023	Cloudy	9:04	8.5	4.3	20.00	20.00	7.94	7.94	34.33	34.33	81.80	82.65	6.13	6.19	3.22	3.25	1.6	
		-	9:05	8.5	4.3	20.00		7.94		34.33		83.50		6.25		3.28		1.9	
	20/3/2023	Cloudy	11:59	8.7	4.4	20.40	20.40	8.25	8.26	34.51	34.51	81.50	82.40	6.07	6.15	7.68	7.54	5.3	
			12:00	8.7	4.4	20.40		8.27		34.51		83.30		6.22		7.40		5.7	
	22/3/2023	Cloudy	13:20	8.3	4.2	20.80	20.85	8.24	8.24	34.25	34.25	81.40	82.60	6.08	6.15	3.28	3.21	3.4	
			13:21	8.3	4.2	20.90		8.24		34.25		83.80		6.21		3.14		3.8	
	24/3/2023	Cloudy	14:34	8.8	4.4	21.70	21.55	8.16	8.16	33.93	33.89	83.20	83.10	6.11	6.15	4.71	4.74	3.3	
			14:35	8.8	4.4	21.40		8.16		33.84		83.00		6.19		4.77		3.7	<u></u>
	27/3/2023	Strong Monsoon							WQM	was cancell	led due to ac	verse weath	ner						
	29/3/2023	Cloudy	18:52	8.8	4.4	20.20	20 15	8.18	8 18	33.91	33.91	81.80	82 60	6.13	6 19	6.90	6.85	4.0	
	20/0/2020	Sibudy	18:53	8.8	4.4	20.10	20.13	8.17	0.10	33.90	33.51	83.40	32.00	6.25	0.13	6.79	0.03	4.6	4.3
	31/3/2023	Cloudy	14:20 14:21	8.8 8.8	4.4	20.10	20.15	8.14 8.14	8.14	34.00 34.98	34.49	84.80 84.50	84.65	6.27	6.25	5.66 5.39	5.53	2.6	2.5
			19.21	0.0	4.4	20.20		0.14		34.90		34.30		0.23		5.39		2.4	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 (Middle) - Flood Tide

	Sampling		Sampling	Water	Sampling	Tempe	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turk	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	0				pt		%	mg			TU	n	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	7:59	8.3	4.2	18.30	18.35	8.16	8.16	32.76	32.76	79.80	78.95	6.24	6.17	7.17	7.10	7.1	6.9
	170/2020	1 1110	8:00	8.3	4.2	18.40	10.00	8.16	0.10	32.76	02.70	78.10	70.00	6.09	0.17	7.03	7.10	6.7	
	4/3/2023	Fine	16:21	8.7	4.4	19.00	19.00	8.14	8.14	32.88	32.88	81.00	80.80	6.20	6.19	6.77	6.85	5.2	5.4
	4/0/2020	1 1110	16:22	8.7	4.4	19.00	10.00	8.14	0.14	32.88	OL.00	80.60	00.00	6.18	0.10	6.92	0.00	5.6	0.4
	6/3/2023	Fine	6:50	8.2	4.1	19.00	19.00	8.06	8.06	32.96	32.96	79.60	80.50	6.13	6.18	6.00	6.11	7.1	7.0
	0/3/2023	Tille	6:51	8.2	4.1	19.00	15.00	8.05	0.00	32.96	32.50	81.40	00.30	6.22	0.10	6.21	0.11	6.8	7.0
	8/3/2023	Cloudy	6:59	8.5	4.3	19.80	19.80	8.05	8.05	32.66	32 66	82.30	81.20	6.26	6.18	5.40	5.41	5.2	5.0
	0/3/2023	Cioudy	7:00	8.5	4.3	19.80	15.00	8.05	0.00	32.65	32.00	80.10	01.20	6.10	0.10	5.42	3.41	4.7	3.0
	10/3/2023	Fine	7:09	8.3	4.2	20.40	20.40	8.05	8.05	32.53	32.53	82.40	81.60	6.21	6.14	4.63	4.61	1.9	1.8
	10/3/2023	1 1110	7:10	8.3	4.2	20.40	20.40	8.05	0.00	32.53	32.33	80.80	01.00	6.07	0.14	4.59	4.01	1.7	1.0
	13/3/2023	Cloudy	8:14	8.5	4.3	20.40	20.40	8.08	8.09	32.29	32.30	79.47	80.59	6.03	6.09	4.09	4 11	5.3	5.2
	13/3/2023	Cioudy	8:15	8.5	4.3	20.40	20.40	8.09	0.03	32.30	32.30	81.70	00.38	6.15	0.03	4.13	4.11	5.0	0.1
	15/3/2023	Cloudy	6:49	8.4	4.2	20.50	20.45	8.20	8.20	32.63	32 63	83.50	82 70	6.26	6.20	4.92	5.00	2.7	2.9
CF	15/3/2023	Cioudy	6:50	8.4	4.2	20.40	20.45	8.19	0.20	32.63	32.03	81.90	02.70	6.14	6.20	5.08	5.00	3.0	2.0
Ci	18/3/2023	Cloudy	14:47	8.8	4.4	20.60	20.60	8.30	8.30	34.09	34.09	85.70	85.50	6.28	6.26	3.57	3.53	1.2	1.3
	10/3/2023	Cioudy	14:48	8.8	4.4	20.60	20.00	8.30	0.30	34.08	34.09	85.30	65.50	6.24	0.20	3.49	3.53	1.4	1.3
	20/3/2023	Cloudy	6:49	8.6	4.3	20.10	20.10	8.15	8.15	34.36	34.36	82.50	81.65	6.16	6.11	4.84	4.87	1.8	1.7
	20/3/2023	Cioudy	6:50	8.6	4.3	20.10	20.10	8.14	0.15	34.36	34.30	80.80	01.00	6.06	0.11	4.90	4.07	1.6	1.7
	22/3/2023	Cloudy	6:49	8.7	4.4	20.70	20.70	8.11	8 11	34.13	34.13	83.20	82.25	6.18	611	3.08	2.94	5.6	5.4
	22/3/2023	Cioudy	6:50	8.7	4.4	20.70	20.70	8.11	0.11	34.13	34.13	81.30	02.23	6.04	0.11	2.80	2.94	5.2	3.4
	24/3/2023	Cloudy	7:19	8.5	4.3	21.10	21.10	8.08	8.08	33.73	33.73	82.80	82.95	6.14	6.16	5.27	5.37	4.0	4.1
	24/3/2023	Cioudy	7:20	8.5	4.3	21.10	21.10	8.08	0.00	33.73	33.73	83.10	02.93	6.17	0.10	5.46	5.37	4.2	4.1
	27/3/2023	Strong Monsoon							WQM	was cancell	ed due to ad	verse weath	er				•		
	29/3/2023	Cloudy	8:14	8.5	4.3	19.80	19.80	8.13	8 14	33.83	33.83	80.10	81.20	6.07	6 14	6.18	6.20	3.1	
			8:15	8.5	4.3	19.80	. 5.55	8.14	0.14	33.82	50.00	82.30	31.20	6.20	0.14	6.22	0.20	3.2	0.2
	31/3/2023	Cloudy	7:34	8.3	4.2	20.20	20.15	7.97	7.98	33.87	33.87	83.00	81.55	6.19	6.14	4.95	4.87	1.9	
Canada Nata		n of numroan a	7:35	8.3	4.2	20.10		7.98		33.87		80.10		6.08		4.79		1.6	

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

Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature	F	Н		linity		turation		00		bidity		SS
Station Reference	Date	vveatner	Time		- '		С		- -		pt		%	m			TU		g/L
				m	m		AVG	Value	AVG		AVG		AVG		AVG		AVG	Value	AVG
	1/3/2023	Fine	14:00	8.7	7.7	18.70	18.70	8.15	8.15	32.72	32.72	79.40	78.75	6.16	6.11	7.50	7.50	3.8	3.6
			14:01	8.7	7.7	18.70		8.15		32.72		78.10		6.06		7.49		3.4	
	4/3/2023	Fine	10:07	8.3	7.3	18.90	18.85	8.10	8.10	32.91	32.91	80.10	80.05	6.18	6.19	6.42	6.38	5.7	5.6
			10:08	8.3	7.3	18.80		8.10		32.91		80.00		6.20		6.34		5.4	
	6/3/2023	Fine	12:24	8.6	7.6	19.10	19.10	8.16	8.16	32.99	32.99	78.70	79.60	6.07	6.13	6.78	6.85	3.8	
			12:25	8.6	7.6	19.10		8.16		32.98		80.50		6.19		6.91		4.2	
	8/3/2023	Cloudy	13:22	8.8	7.8	20.20	20.25	8.19	8 19	32.81	32.81	79.70	80.90	6.05	6 12	4.09	4 13	5.2	
		,	13:23	8.8	7.8	20.30		8.19		32.81		82.10		6.19	****	4.17		6.8	
	10/3/2023	Fine	13:21	8.7	7.7	20.40	20.45	8.24	8 24	32.65	32.65	82.50	81.40	6.16	6.10	4.26	4.20	1.4	
	10/0/2020	11110	13:22	8.7	7.7	20.50	20.40	8.24	0.24	32.65	02.00	80.30	01.40	6.04	0.10	4.13	4.20	1.6	
	13/3/2023	Cloudy	12:52	8.8	7.8	20.10	20.10	8.29	8 29	32.76	32.76	81.60	82.55	6.16	6.22	8.57	8.52	10.1	10.4
	10/0/2020	Oloudy	12:53	8.8	7.8	20.10	20.10	8.29	0.20	32.76	02.70	83.50	02.00	6.27	0.11	8.46	0.02	10.6	
	15/3/2023	Cloudy	18:04	8.7	7.7	20.80	20.80	8.29	8 29	32.63	32.63	82.00	82.65	6.10	6.14	5.53	5.48	1.9	1.8
CF	10/0/2020	Oloudy	18:05	8.7	7.7	20.80	20.00	8.29	0.25	32.63	02.00	83.30	02.00	6.18	0.14	5.42	0.40	1.7	1.0
Ci	18/3/2023	Cloudy	9:07	8.5	7.5	19.90	19.95	7.98	7.98	34.35	34.35	81.50	82.20	6.10	6.15	2.77	2.83	2.2	2.2
	10/3/2023	Cioudy	9:08	8.5	7.5	20.00	15.55	7.98	7.30	34.34	34.33	82.90	02.20	6.20	0.13	2.89	2.00	2.2	
	20/3/2023	Cloudy	12:02	8.7	7.7	20.30	20.30	8.27	8 27	34.59	34 59	84.60	84.05	6.25	6.22	6.58	6.70	6.1	6.3
	20/3/2023	Cioudy	12:03	8.7	7.7	20.30	20.30	8.27	0.21	34.58	34.59	83.50	04.05	6.19	0.22	6.82	6.70	6.5	0.3
	22/3/2023	Cloudy	13:23	8.3	7.3	20.80	20.80	8.23	8 24	34.25	34.25	84.50	83.35	6.28	6.19	4.69	4.65	4.6	4.8
	22/3/2023	Cioudy	13:24	8.3	7.3	20.80	20.80	8.24	8.24	34.24	34.25	82.20	83.35	6.10	6.19	4.61	4.65	5.0	4.0
	24/3/2023	01. 1	14:37	8.8	7.8	21.40	21.40	8.16	8.17	34.00	34.01	84.10	84.25	6.21	6.22	7.65	7.63	4.5	4.7
	24/3/2023	Cloudy	14:38	8.8	7.8	21.40	21.40	8.17	8.17	34.01	34.01	84.40	84.25	6.23	6.22	7.60	7.63	4.8	4.7
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to ad	verse weath	ner						
	29/3/2023	Claudi	18:55	8.8	7.8	20.10	20.15	8.18	8.18	33.91	33.91	83.70	84.10	6.20	6.22	5.96	5.93	5.0	5.1
	29/3/2023	Cloudy	18:56	8.8	7.8	20.20	20.15	8.18	8.18	33.91	33.91	84.50	84.10	6.24	6.22	5.90	5.93	5.2	5.1
	31/3/2023	Cloudy	14:23	8.8	7.8	20.20	20.20	8.13	8 13	34.00	34.00	82.90	83.85	6.20	6.24	4.89	4.81	1.8	1.8
	31/3/2023	Ciduay	14:24	8.8	7.8	20.20	20.20	8.13	8.13	34.00	34.00	84.80	63.85	6.27	6.24	4.72	4.81	1.8	

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 CF (Bottom) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation		00	Tur	bidity	5	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%		g/L	N	TU		ng/L
	Duto		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	1/3/2023	Fine	8:02	8.3	7.3	18.40	18 40	8.17	8 17	32.76	32.77	77.80	78.80	6.07	6 14	7.25	7 28	6.0	
	170/2020	1 1110	8:03	8.3	7.3	18.40	10.40	8.17	0.17	32.77	OL.II	79.80	70.00	6.20	0.14	7.30	7.20	6.2	0.1
	4/3/2023	Fine	16:24	8.7	7.7	18.90	18.90	8.14	8 14	32.91	32.91	80.30	78.45	6.03	6.05	7.25	7 22	4.8	
	4/0/2020	1 1110	16:25	8.7	7.7	18.90	10.50	8.14	0.14	32.90	02.01	76.60	70.40	6.06	0.00	7.19	7.22	4.5	
	6/3/2023	Fine	6:53	8.2	7.2	19.00	19 00	8.10	8 10	32.97	32 97	80.40	79 75	6.16	6.12	5.27	5.32	7.4	
			6:54	8.2	7.2	19.00		8.10		32.97		79.10		6.07	****	5.37		7.6	
	8/3/2023	Cloudy	7:02	8.5	7.5	19.80	19.85	8.08	8.08	32.68	32.68	79.10	80 15	6.06	6.12	5.64	5.67	6.0	
	GGZGZG	Oloudy	7:03	8.5	7.5	19.90	10.00	8.08	0.00	32.68	02.00	81.20	00.10	6.18	0.12	5.69	0.01	5.1	
	10/3/2023	Fine	7:12	8.3	7.3	20.40	20.40	8.09	8.09	32.66	32.66	79.90	80.90	6.02	6.08	7.46	6 10	1.4	
			7:13	8.3	7.3	20.40		8.08	0.00	32.66		81.90		6.14		4.74		1.2	
	13/3/2023	Cloudy	8:17	8.5	7.5	20.40	20.40	8.11	8.11	32.46	32.47	80.30	81.00	6.03	6.08	5.75	5.68	5.8	
		,	8:18	8.5	7.5	20.40		8.11		32.47		81.70		6.12		5.60		6.2	
	15/3/2023	Cloudy	6:52	8.4	7.4	20.60	20.60	8.23	8 23	32.69	32.70	82.00	82.50	6.13	6 17	4.51	4.53	3.3	
CF		,	6:53	8.4	7.4	20.60		8.23	0.20	32.70		83.00		6.20		4.55		3.6	
	18/3/2023	Cloudy	14:50	8.8	7.8	20.80	20.80	8.31	8.31	34.10	34.10	86.00	85.70	6.27	6.26	4.11	4.17	1.8	
		,	14:51	8.8	7.8	20.80		8.30		34.10		85.40		6.25		4.22		1.6	
	20/3/2023	Cloudy	6:52	8.6	7.6	20.10	20.10	8.15	8.16	34.39	34.38	81.80	82.80	6.14	6.21	4.73	4 69	<1	1.0
		,	6:53	8.6	7.6	20.10		8.17	00	34.37		83.80		6.27		4.65		<1	
	22/3/2023	Cloudy	6:52	8.7	7.7	20.70	20.70	8.12	8.12	34.16	34.17	83.10	81.80	6.17	6.09	4.38	4.52	6.5	
		,	6:53	8.7	7.7	20.70		8.12		34.17		80.50		6.01		4.65		6.8	
	24/3/2023	Cloudy	7:22	8.5	7.5	21.10	21.05	8.09	8.09	33.70	33.71	84.10	83.60	6.22	6.20	3.20	3.14	5.0	
	2-10/2020	Oloudy	7:23	8.5	7.5	21.00	21.00	8.08	0.00	33.71	00.7 1	83.10	00.00	6.17	0.10	3.07	0.14	4.6	
	27/3/2023	Strong Monsoon							WQM	was cancel	led due to ac	lverse weath	ner						
	29/3/2023	Cloudy	8:17	8.5	7.5	19.70	19.75	8.14	8 14	33.99	33.99	80.60	81.25	6.06	6.14	5.07	5.13	2.8	
	20/3/2023	Cidudy	8:18	8.5	7.5	19.80	19.75	8.14	0.14	33.98	33.99	81.90	01.25	6.22	0.14	5.19	5.13	2.5	2.7
	31/3/2023	Cloudy	7:37	8.3	7.3	20.10	20.10	7.99	7.99	33.96	33.97	84.20	84.05	6.25	6.23	3.16	3.12	1.3	1.2
		n of average o	7:38	8.3	7.3	20.10		7.99		33.97		83.90		6.20	6.23	3.07	3.12	1.1	1.2

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2023

	A	ctual Quantities	of Inert C&D	Material Gen	erated Monthl	ly	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated (a)	Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (a-b-c-d)	Imported Fill	Metals	Paper/card- board packaging	Plastics [see Note 3]	Chemical waste	Others. e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(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	0.21	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	5.37
Mar	0.20	0.00	0.00	0.00	0.20	0.00	0.00	0.02	0.00	0.00	14.94
Apr											
May											
Jun											
Sub-total	0.54	0.00	0.00	0.00	0.54	0.00	0.01	0.07	0.01	0.00	34.06
July											
Aug											
Sept											
Oct											
Nov			_								
Dec	_	_	_	_	_			_	_	_	_
Total	0.54	0.00	0.00	0.00	0.54	0.00	0.01	0.07	0.01	0.00	34.06

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	Removal works of ELS
5	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 (April, May and June 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
8	Removal works of ELS