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

JULY 2024 REVISION 3

CLIENTS:

Drainage Services Department

PREPARED BY:

Lam Environmental Services Limited

19/F, Remex Centre, 42 Wong Chuk Hang Road, Hong Kong

Telephone: (852) 2882-3939 Facsimile: (852) 2882-3331 E-mail: info@lamenviro.com Website: http://www.lamenviro.com

CERTIFIED BY:

61

Derek Lo

Environmental Team Leader

DATE:

14 August 2024



Our Ref:

7076811/L31187/AG/KL/TK/KCL/rw

14 August 2024

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

Attn: Mr. Silas CHAN

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

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 (July 2024)

With reference to the Monthly EM&A Report (July 2024) Revision 3 dated and certified by the ET Leader on 14 August 2024, 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

Kitty LEE

Independent Environmental Checker

СС

Binnies

- Mr. Kevin CHAN

by email

Lam

- Mr. Derek LO / Mr. Raymond DAI

by email

KLCW-JV

- Mr. Charles Yeung

by email









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EXECUTIVE SUMMARY

- i. This is the Monthly Environmental Monitoring and Audit (EM&A) Report July 2024 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 July 2024. 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,
 Chi Ma Wan Road
- Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui
 O Sewage Pumping Station (POSPS)
- Removal works of Excavation and Lateral Support (ELS)
- Excavation and Lateral Support (ELS) works
- Superstructure Reinforced Concrete (RC) Works
- Electrical and Mechanical (E&M) Installation at Pui O Sewage Pumping Station (POSPS)

Exceedances of Action/Limit Levels

Noise Monitoring

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

Water Quality Monitoring

- vi. Water quality monitoring (WQM) 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. According to the Contractor's construction programme and confirmed with Engineer Representative, there is no potential marine work until further notice. As such, pursuant to Condition 3.1 of the Environmental Permit No. EP-538/2017, proposal of temporary suspension of impact marine water quality monitoring starting from 17 July 2024 was submitted to EPD on 12 July 2024 for approval. This proposal was reviewed and verified by the Independent Environmental Checker (IEC), SMEC Asia Limited. The impact marine water



- quality monitoring will be continued and reported in the monthly EM&A reports until EPD approval for the proposed suspension of the monitoring works has been granted.
- viii. Water quality monitoring on 26 July 2024(mid-ebb and mid-flood) and 31 July 2024(mid-ebb) were cancelled due to Strong Monsoon Signal and Amber Rainstorm Signal were in force respectably during the scheduled sampling time slots. 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.
- ix. In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances for suspended solids (SS) were recorded at WQM station SR5 and SR6 during mid-ebb tide on 12 July 2024, SR10 and SR12 during mid-flood tide on 22 July 2024 and SR4 during mid-ebb tide on 24 July 2024, limit level exceedances for SS was recorded at station SR15 during mid-ebb tide on 24 July 2024. As no marine work were ongoing since Jan 2024, no sign of pollution was observed during site inspection or marine water samples collection, it is considered that the exceedance was not related to Project works.

Ecological Impact Monitoring

- x. Transplanting of the trees of *Aquilaris sinensis* was completed on 26 April 2022. Maintenance works for trees in holding nursery have commenced.
- xi. 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.
- xii. The weekly site audit was carried out by ET include checking whether good site practices are being properly implemented by the Contractor.
- xiii. The extent of the work site boundaries was checked by the ET during the weekly site audit.

Complaint log

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

Notifications of Any Summons and Successful Prosecutions

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

Contract No. SD 15/2022 – Outlying Island Sewerage Stage 2 – South Lantau Sewage Works – Environmental Team Services (2023 – 2024) Monthly EM&A Report (July 2024)

Reporting Changes

xvi. There are no particular reporting changes.

Future Key Issues

xvii. 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, Chi Ma Wan Road
- Dredging at marine *
- Site formation works
- · Drilling works
- Excavation works
- ELS works
- Superstructure RC Works
- Removal works of ELS
- E&M Installation at POSPS

*Note: Dredging and related marine works were suspended, contractor will notice ET one month before commencement of marine works.

xviii. 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 Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road Dredging at marine Site formation works Drilling works Excavation works ELS works Superstructure RC Works Removal works of ELS E&M Installation at POSPS 	 Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust control; and Proper waste handling, recycling and storage.

Introduction

1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) No. EP-538/2017 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for the Outlying Islands Sewerage Stage 2 South Lantau Sewerage Works (Register No.: AEIAR-210/2017).
- 1.1.2. In accordance with Clause 3.4 stated in EP-538/2017, 4 hard copies and 1 electronic copy of Monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month.
- 1.1.3. According to Section 12.2 of the Project EM&A Manual, the Monthly EM&A Report should be submitted within 10 working days of the end of each reporting month, with the first report due in the month after construction commences.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 Basic project Information and *Environmental Status* summarizes project organization and key personnel contact, construction programme and works undertaken for the month. Construction programme, works undertaken during the month with illustrations, drawing showing the project area, environmental sensitive receivers and monitoring locations.
- **Section 3** *Implementation Status* advice on the implementation status of environmental protection and pollution control/mitigation measures, as recommended in the EIA Report and summarised in the updated implementation schedule.
- **Section 4** *Monitoring Results* summarizes the monitoring results obtained in the reporting period, including monitoring methodology, name of laboratory and equipment used and calibration details, parameters monitored, monitoring locations (and depth), monitoring date, frequency, and duration.
- Section 5 Report on Complaints, Notification of Summons and Successful Prosecutions – summarizes:

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

Record of notifications of summons and successful prosecutions for breaches

of the current environmental protection/pollution control legislations, including locations and nature of the breaches, investigation, follow-up actions taken,

results and summary;

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

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

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

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	Contractor	Site Agent	Mr. Charles Yeung	6128 2606	2744 6937
Wo Joint Venture		Environmental Officer	Ms. Shirley Kong	5162 5933	
SMEC Hong Kong	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ms. Kitty Lee	3995 8140	3995 8101
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Derek Lo	2882 3939	2882 3331

2.2 Construction Programme

- 2.2.1. The proposed sewerage works will collect the sewage generated from the unsewered areas of Shui Hau, Tong Fuk, Cheung Sha, San Shek Wan, Pui O and Ham Tin in South Lantau (i.e. within the Project Catchment Area) and convey it to a proposed sewage treatment works at San Shek Wan for treatment and disposal into outer bay of Pui O/ Chi Ma Wan via a submarine outfall.
- 2.2.2. The entire Project are divided into three contracts. Contract No. DC/2020/20 (the Contract) would have the following implementations as demonstrated in *Figure 2.1*.
- 2.2.3. The major components of the Contract under Environmental Permit (EP) (EP No. EP-538/2017) comprises: (i) construction of 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 twin rising mains with a diameter of 200 mm to 250 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, Chi Ma Wan Road
 - Excavation and site formation at San Shek Wan Sewage Treatment Works (SSWSTW) and Pui O Sewage Pumping Station (POSPS)
 - Removal works of Excavation and Lateral Support (ELS)
 - Excavation and Lateral Support (ELS) works
 - Superstructure Reinforced Concrete (RC) Works
 - Electrical and Mechanical (E&M) Installation at Pui O Sewage Pumping Station (POSPS)

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. 23)	15 May 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-RS0065-24	30 Jan 2024	09-02-2024 to 08-08-2024	Valid
Construction Noise Permit under Noise Control Ordinance for POSPS	GW-RS0213-24	15 Mar 2024	27-03-2024 to 26-09-2024	Valid
Marine Dumping Permit (Dredged Sediment Requiring Type 1 – Open Sea Disposal	EP/MD/24-060	27 Feb 2024	01-03-2024 to 31-08-2024	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 02, 09, 15, 23 and 30 July 2024. IEC attended the SSEMC meeting held on 15 July 2024. Holding nursery visit for transplanted trees on 24 July 2024.
- 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
2 July 2024	No particular finding	/
9 July 2024	Pui O Sewage Pumping Station (POSPS) — Obs1: Chemical container should be placed in drip tray or disposal properly. Obs.2: Proper colour NRNM label should be displayed for excavator. Obs.3: Oil leakage from excavator observed, contractor is requested to provide well maintenance and clean up the leakage prior to use. San Shek Wan Sewage treatment Works(SSWSTW) — Obs.4: Covering or watering shall be provided to idle stockpile Obs.5: Top and 3 sides of covering shall be implemented for soil nail process, the compressor for soil nail should be well maintenance to prevent dark smoke and oil mist	Rectified by the Contractor on 13 July 2024
15 July 2024	Pui O Sewage Pumping Station (POSPS) — R1: Contractor was reminded to enhance housekeeping on site. San Shek Wan Sewage treatment Works(SSWSTW) — Obs.1: Exposed slope should be covered with impervious sheet. Obs.2: U-channel should be cleaned up regularly	Rectified by the Contractor on17 July 2024
23 July 2024	Pui O Sewage Pumping Station (POSPS) — Obs1: Soil protection barrier should be maintained to prevent dust and soil erosion.	Rectified by the Contractor on 25 July 2024
30 July 2024	No particular finding	/

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	0004797
Acoustic Calibrator	Larson Davis CAL200	13128

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 No school examination was taken place at N17 Bui O Public School in the reporting 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	YSI Professional Plus; Horiba U53	14E100105/17G100383; NYFVEEMS/S14JAV8U
Turbid meter	WGZ-3B	2209057

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 For the upcoming marine works (stage 3 and stage 4), new silt curtain extension to be applied at diffuser and emergency bypass constructions has been proposed and supplemented in the revised silt curtain deployment plan. Typical details of proposed silt curtain are shown in *Figure* 2.7.
- 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 Marine Water Monitoring - derived criteria						
DO in mg/L ^B	Surface and Middle: 5.8 mg/L	Surface and Middle: 4 mg/L				
DO III IIIg/L -	Bottom: 5.9 mg/L	Bottom: 2 mg/L				
	14.4 NTU <u>and</u>	23.5 NTU <u>and</u>				
Turbidity in NTU	20% exceedance of value at any impact	30% exceedance of value at any impact				
(Depth-averaged A) ^C	station compared with corresponding	station compared with corresponding data				
	data from control station D	from control station D				
	13.1 mg/L <u>and</u>	30.4 mg/L <u>and</u>				
SS in mg/L	20% exceedance of value at any impact	30% exceedance of value at any impact				
(Depth-averaged A) C	station compared with corresponding	station compared with corresponding data				
	data from control station D	from control station D				

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

- A. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- B. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- C. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.



- D. Action Level and Limit Level with 95%-ile / 99%-ile derived from baseline data "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&M)	DO (B	ottom)	Turl	oidity	S	SS		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	/	/	/	/	/	/	1	/	1	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR5	Action	/	/	/	/	/	/	1	/	1	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR6	Action	/	/	/	/	/	/	1	/	1	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR9	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	/	/	0	0
SR10	Action	/	/	/	/	/	/	/	1	0	1
	Limit	/	/	/	/	/	/	/	/	0	0
SR12	Action	/	/	/	/	/	/	/	1	0	1
	Limit	/	/	/	/	/	/	/	/	0	0
SR15	Action	/	/	/	/	/	/	/	/	0	0
	Limit	/	/	/	/	/	/	1	/	1	0
Total	Action	0	0	0	0	0	0	3	2		5
	Limit	0	0	0	0	0	0	1	0		1

- 4.2.21 According to the Contractor's construction programme and confirmed with Engineer Representative, there is no potential marine work until further notice. As such, pursuant to Condition 3.1 of the Environmental Permit No. EP-538/2017, proposal of temporary suspension of impact marine water quality monitoring starting from 17 July 2024 was submitted to EPD for approval on 12 July 2024. This proposal was reviewed and verified by the Independent Environmental Checker (IEC), SMEC Asia Limited. The impact marine water quality monitoring will be continued and reported in the monthly EM&A reports until EPD approval for the proposed suspension of the monitoring works has been granted.
- 4.2.22 Water quality monitoring on 26 July 2024(mid-ebb and mid-flood) and 31 July 2024(mid-ebb) were cancelled due to Strong Monsoon Signal and Amber Rainstorm Signal were in force respectably during the scheduled sampling time slots. 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.
- 4.2.23 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances for suspended solids (SS) were recorded at WQM station SR5 and SR6 during mid-ebb tide on 12 July 2024, SR10 and SR12 during mid-flood tide on 22 July 2024 and SR4 during mid-ebb tide on 24 July 2024, limit level exceedances for SS was recorded at station SR15 during mid-ebb tide on 24 July 2024. As no



marine work were ongoing since Jan 2024, no sign of pollution was observed during site inspection or marine water samples collection, it is considered that the exceedance was not related to Project works.

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 was conducted on 24 July 2024 once per month.

MONITORING RESULTS

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

4.4 Waste Management

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

Table 4.7 Summary of Quantities of Waste Material

Waste Type	Quantity this month	Quantity (the end of last month)	Cumulative Quantity-to-Date
Hard Rock and Large Broken Concrete (Inert) (in '000m ³)	0	0	0
Reused in this Contract (Inert) (in '000m³)	0	0	0
Reused in other Projects (Inert) (in '000m³)	0	0	0
Disposal as Public Fill (Inert) (in '000m³)	1.36778	2.57289	22.27200
Metals (in '000kg)	0	0	15.68900
Paper / Cardboard Packing (in '000kg)	0	0.999	0.77578
Plastics (in '000kg)	0	0	0.07006
Chemical Wastes (in '000kg)	0	0	0
General Refuses (in '000kg)	8.96	12.42	639.99
Marine Sediment (Type 1 – Open Sea Disposal) , m3	0	0	60.2

5 Complaints, Notification of Summons and Prosecution

- 5.1.1 No environmental complaint was recorded in the reporting month.
- 5.1.2 No notification of summons and successful prosecution regarding construction works were recorded in the reporting month.
- 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
July 2024	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, Chi Ma Wan Road
 - Dredging at marine*
 - Site formation works
 - Drilling works
 - Excavation works
 - ELS works
 - Superstructure RC Works
 - Removal works of ELS
 - E&M Installation at POSPS

*Note: Dredging and related marine works were suspended, contractor will notice ET one month before commencement of marine works.

6.1.2 The scheduled construction activities and the recommended mitigation measures for the coming 3 months are listed in *Table 6.1*. The major construction activities for the next 3 months are summarized in Three Months Rolling Programme – August 2024 to October 2024 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, construction of manhole at Pui O Lo Uk Tsuen, South Lantau Road, Chi Ma Wan Road Dredging at marine Site formation works Drilling works Excavation works ELS works Superstructure RC Works Removal works of ELS E&M Installation at POSPS 	 Implementation of noise pollution control in accordance with Construction Noise Mitigation Plan; Dust control during dust generating works; Silt curtain should be maintained in good condition; Adopt surface drainage and sediment control facilities for sewage installation in village and public roads; Adopt temporary drainage and sediment control facilities on Site; Vehicle wheel-washing and body washing facilities should be provided at the site entrance; Regular water spraying on excavation works for dust control; and Proper waste handling, recycling and storage. 		

7 Conclusion

7.1 Noise Monitoring

- 7.1.1 No school examination was taken place at N17 Bui O Public School in the reporting 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 According to the Contractor's construction programme and confirmed with Engineer Representative, there is no potential marine work until further notice. As such, pursuant to Condition 3.1 of the Environmental Permit No. EP-538/2017, proposal of temporary suspension of impact marine water quality monitoring starting from 17 July 2024 was submitted to EPD for approval on 12 July 2024. This proposal was reviewed and verified by the Independent Environmental Checker (IEC), SMEC Asia Limited. The impact marine water quality monitoring will be continued and reported in the monthly EM&A reports until EPD approval for the proposed suspension of the monitoring works has been granted.
- 7.2.3 Water quality monitoring on 26 July 2024(mid-ebb and mid-flood) and 31 July 2024(mid-ebb) were cancelled due to Strong Monsoon Signal and Amber Rainstorm Signal were in force respectably during the scheduled sampling time slots. 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.
- 7.2.4 In accordance with the action level and limit level in Baseline Monitoring Report Rev. 9.2 agreed by EPD on 2 September 2022, action level exceedances for suspended solids (SS) were recorded at WQM station SR5 and SR6 during mid-ebb tide on 12 July 2024, SR10 and SR12 during mid-flood tide on 22 July 2024 and SR4 during mid-ebb tide on 24 July 2024, limit level exceedances for SS was recorded at station SR15 during mid-ebb tide on 24 July 2024. As no marine work were ongoing since Jan 2024, no sign of pollution was observed during site inspection or marine water samples collection, it is considered that the exceedance was not related to Project works.

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 24 July 2024.
- 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	
24 July 2024	R1: The Contractor was reminded to provide watering to all tree	Rectified on 30
24 July 2024	species temporarily transplanted in the holding nursery.	July 2024

- 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

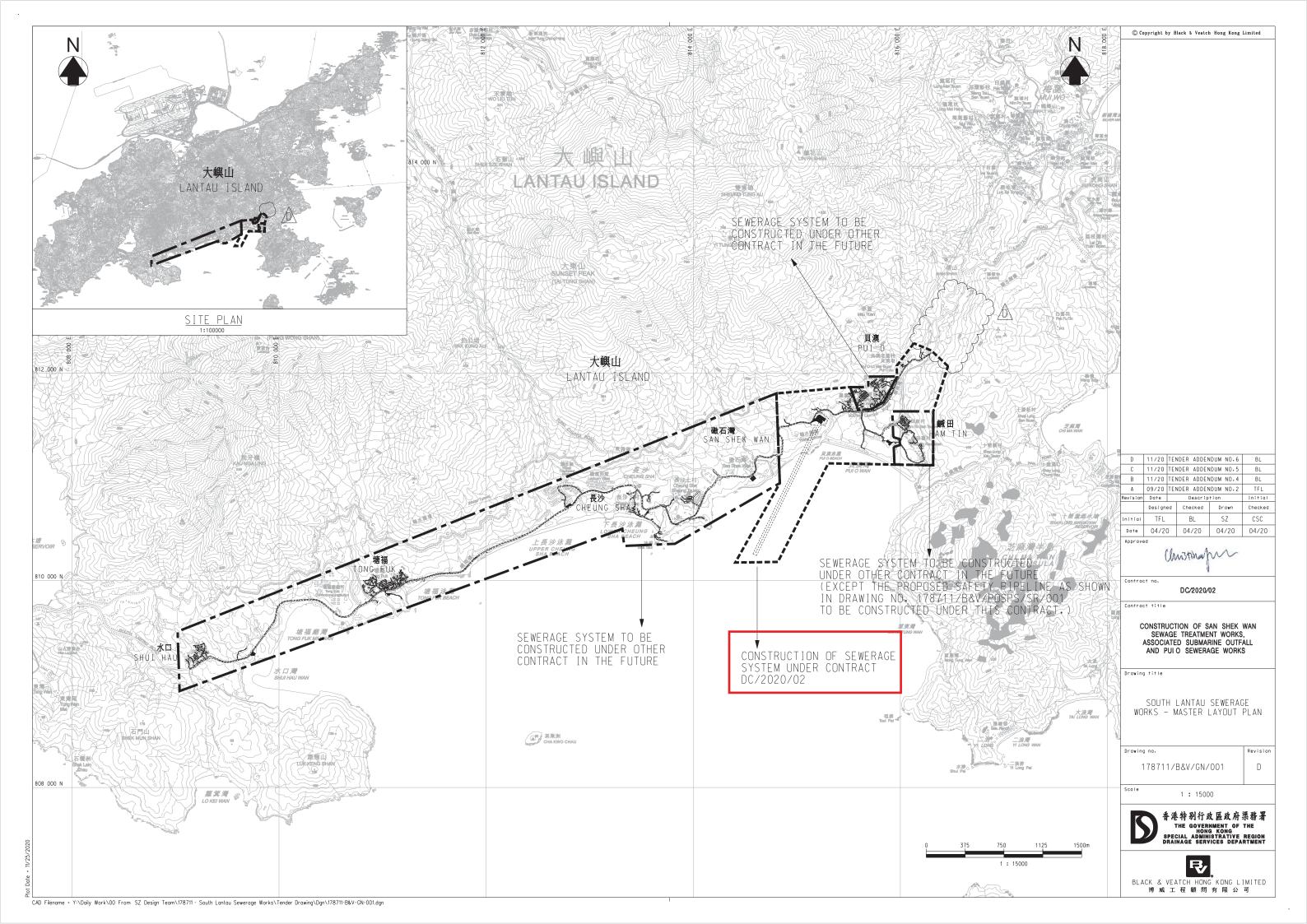


Figure 2.2

Contract Layout Plan

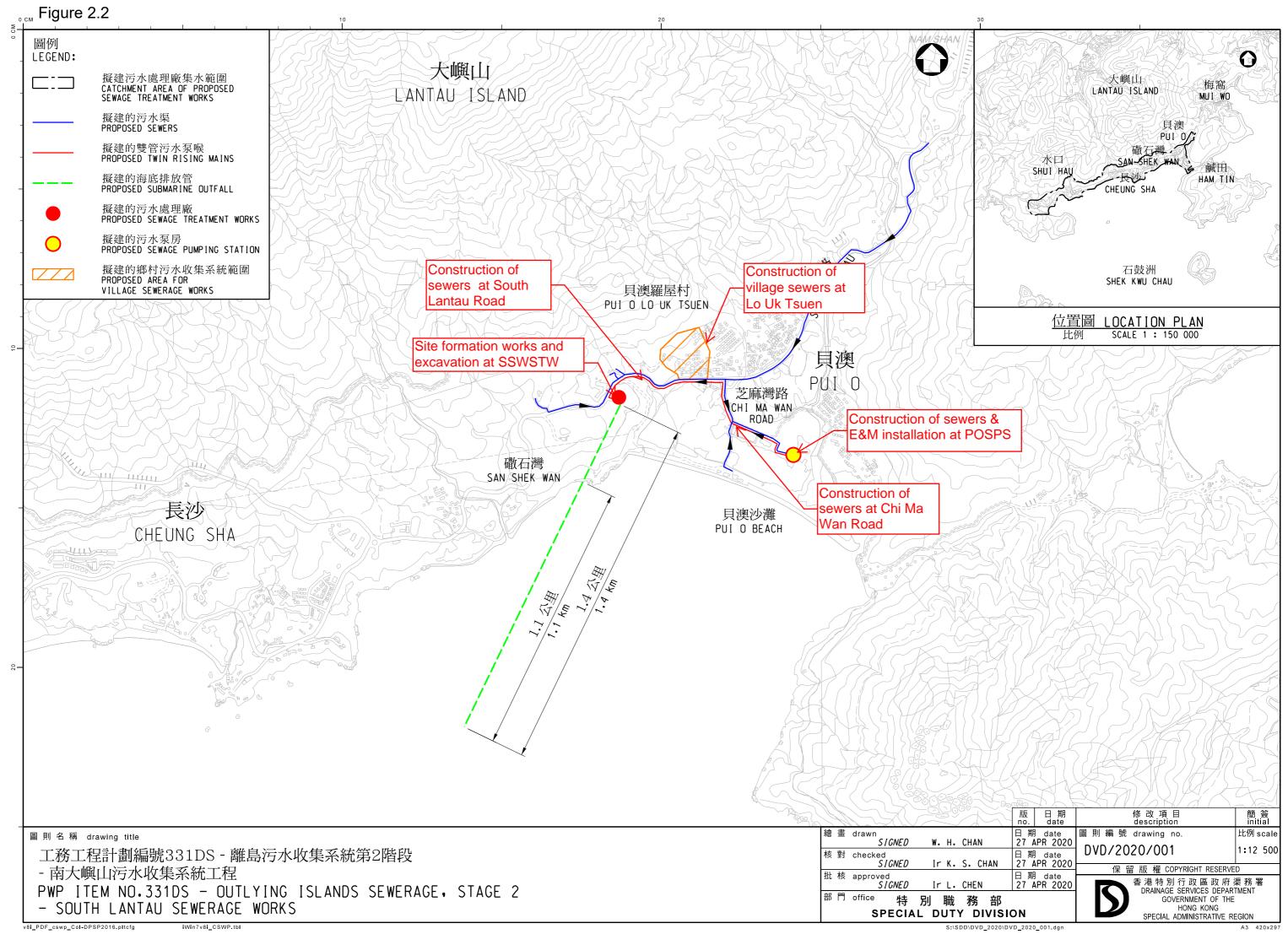


Figure 2.3

Locations of Noise Monitoring Station

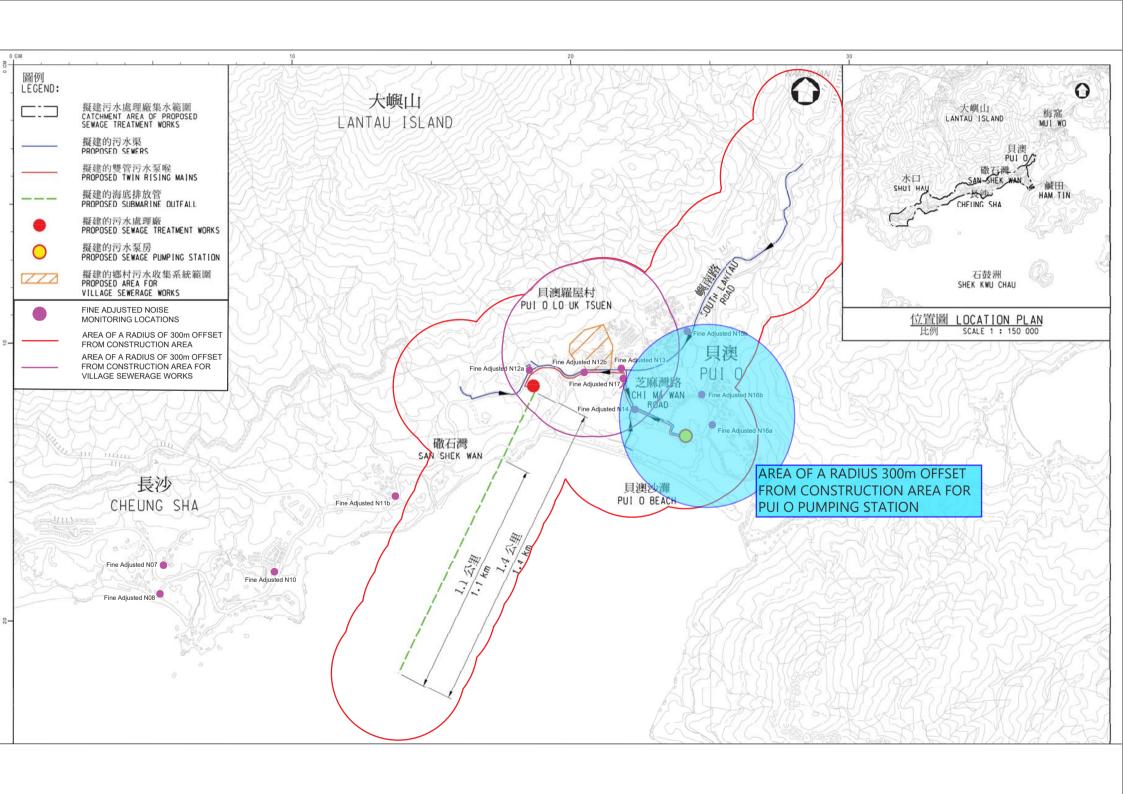


Figure 2.4 Locations of Water Quality Monitoring Stations

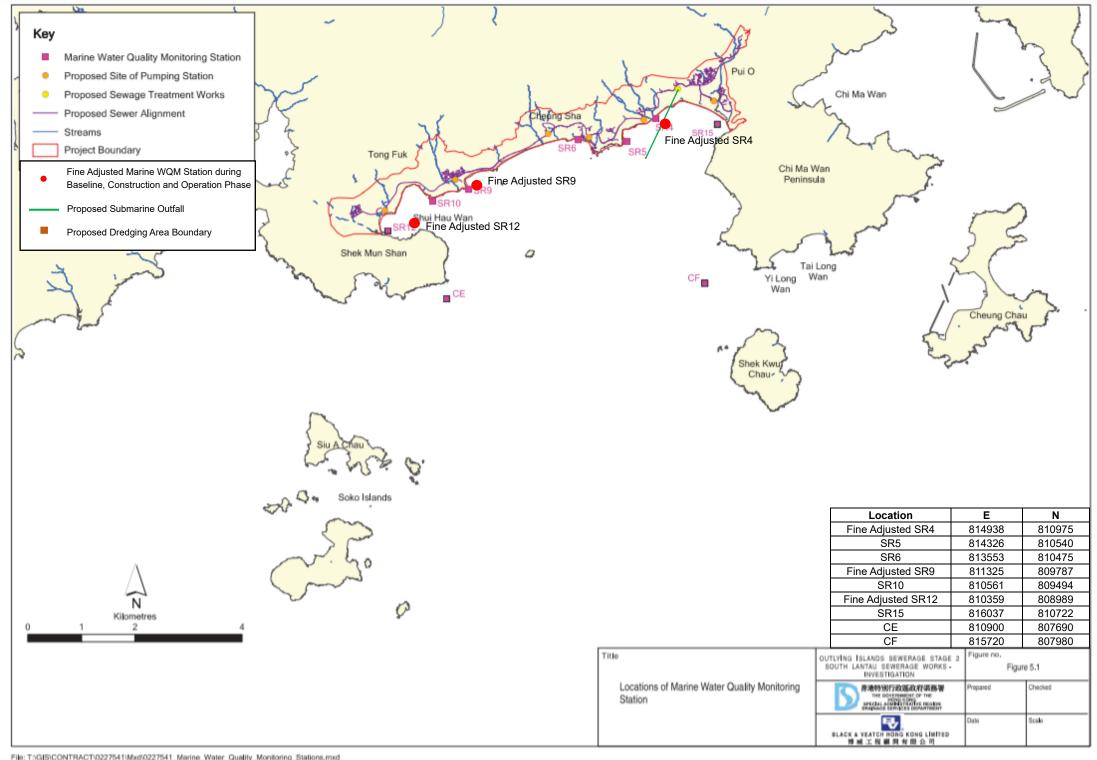


Figure 2.5

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

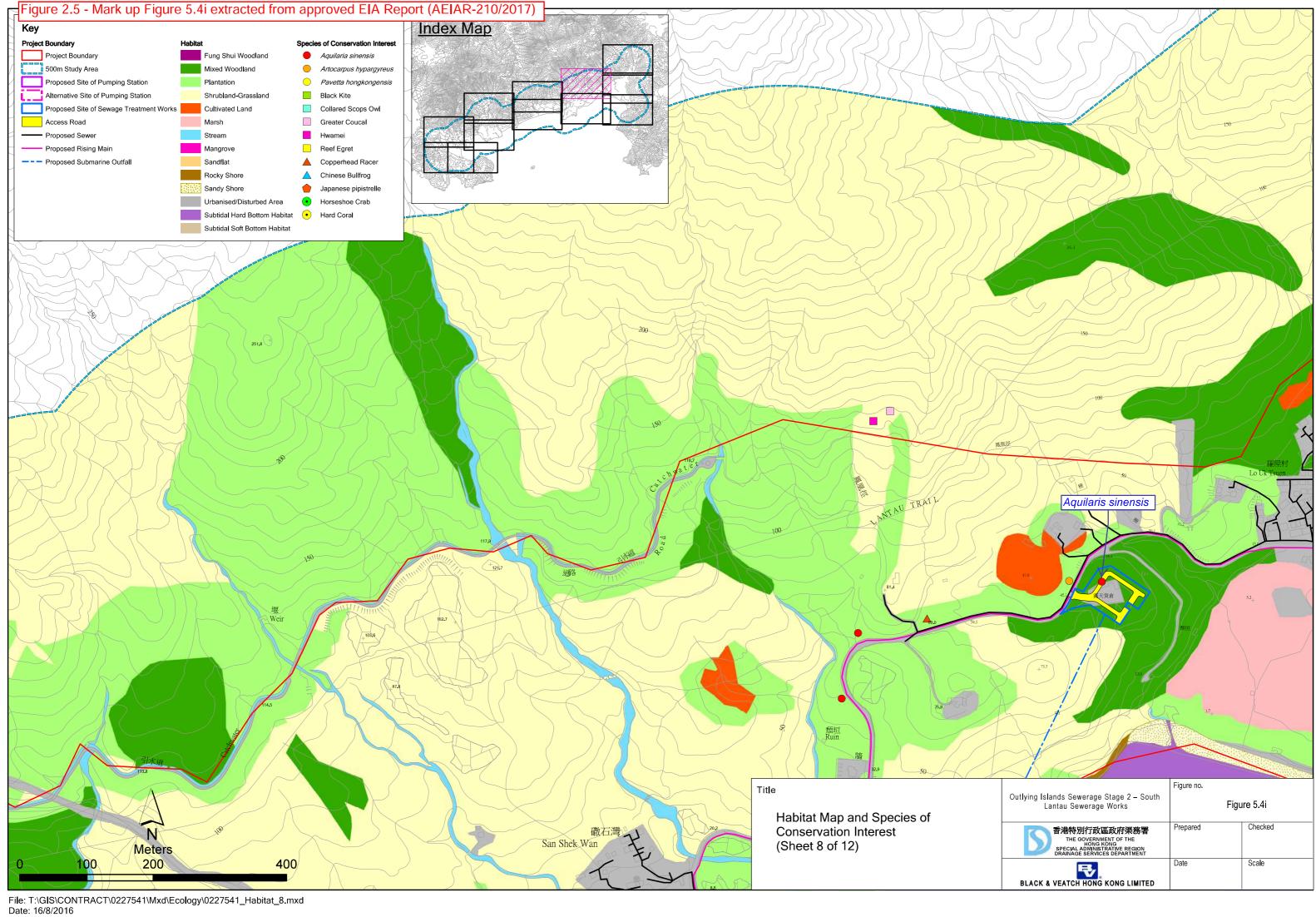
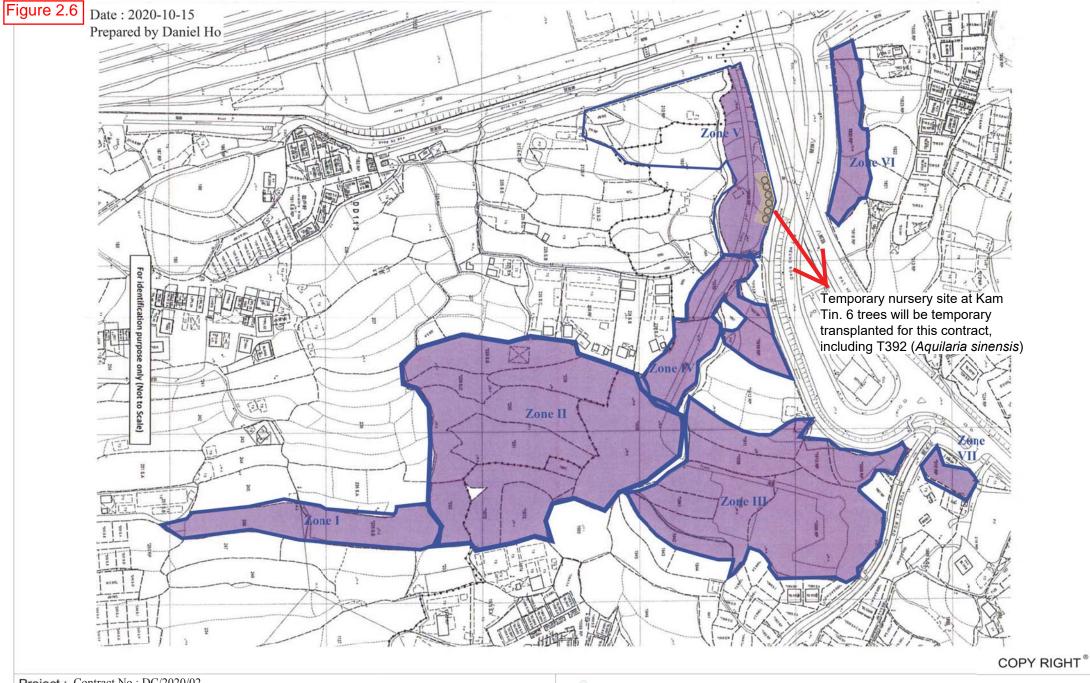


Figure 2.6 Location Plan for Temporary Holding Nursery



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

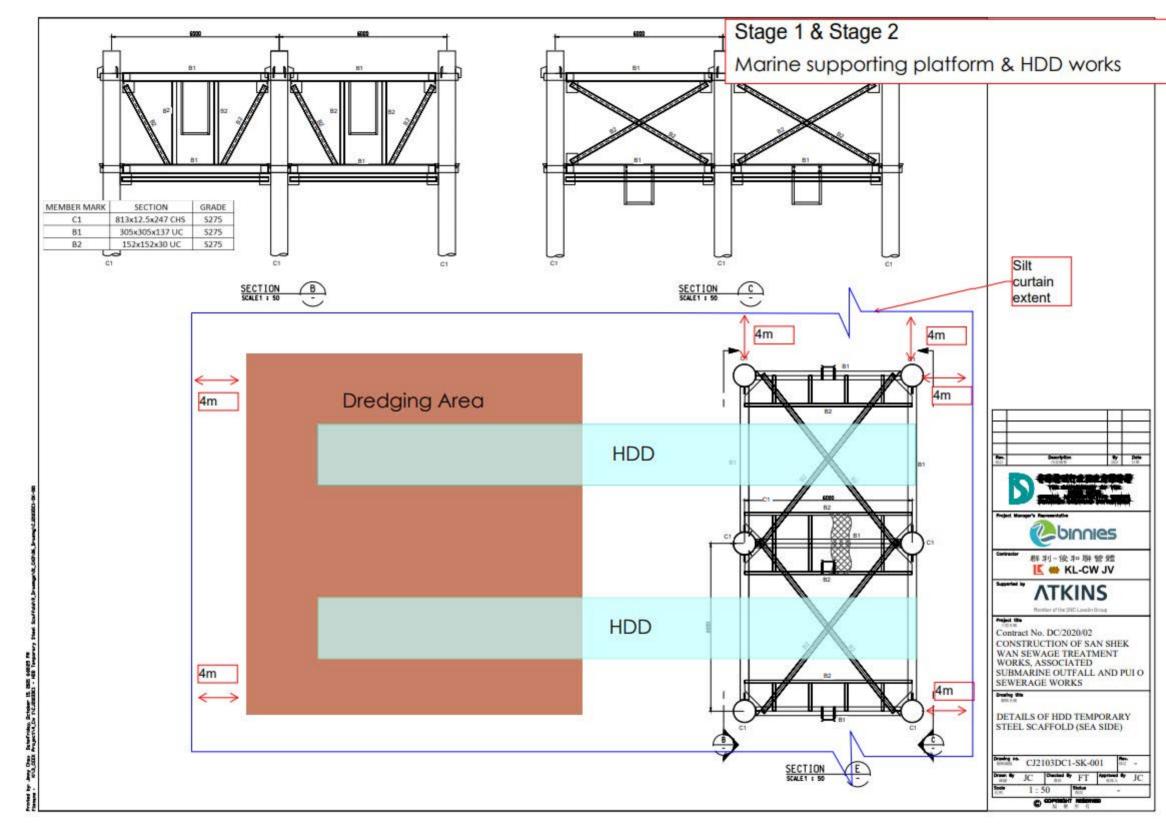


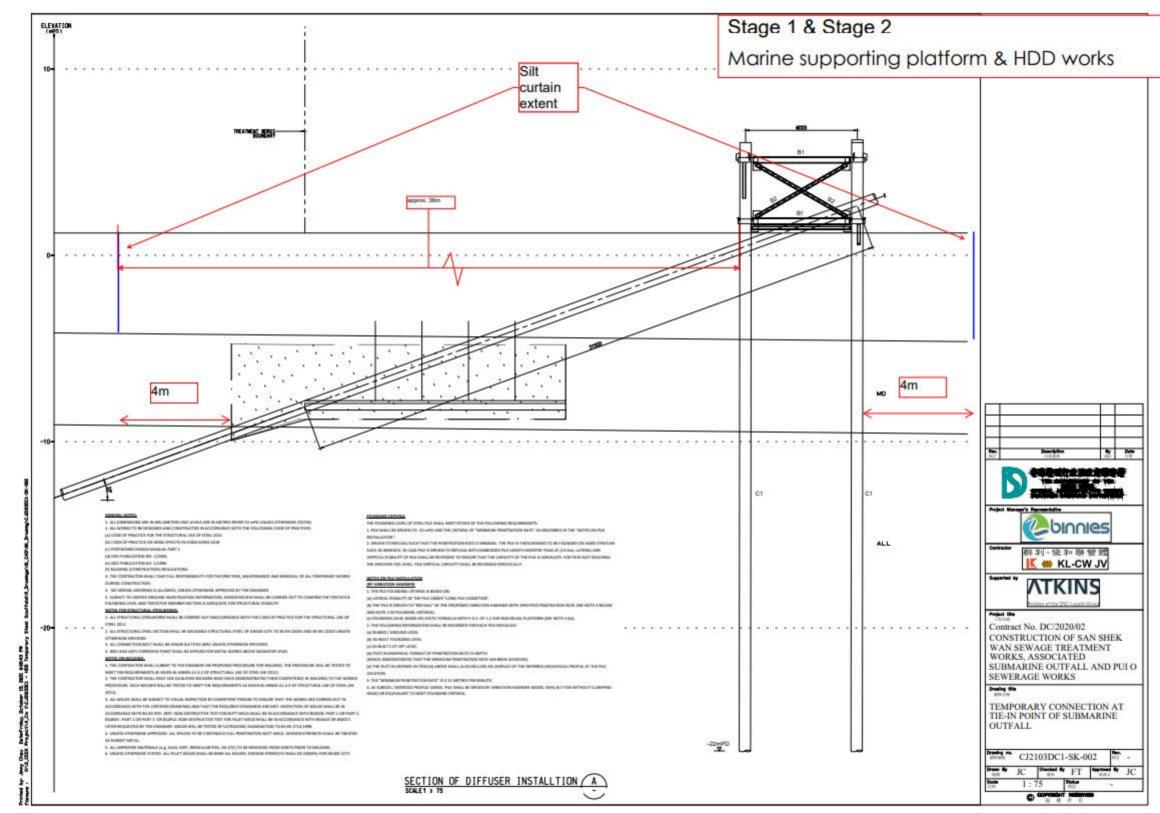
Toyo Greenland Co., Ltd.

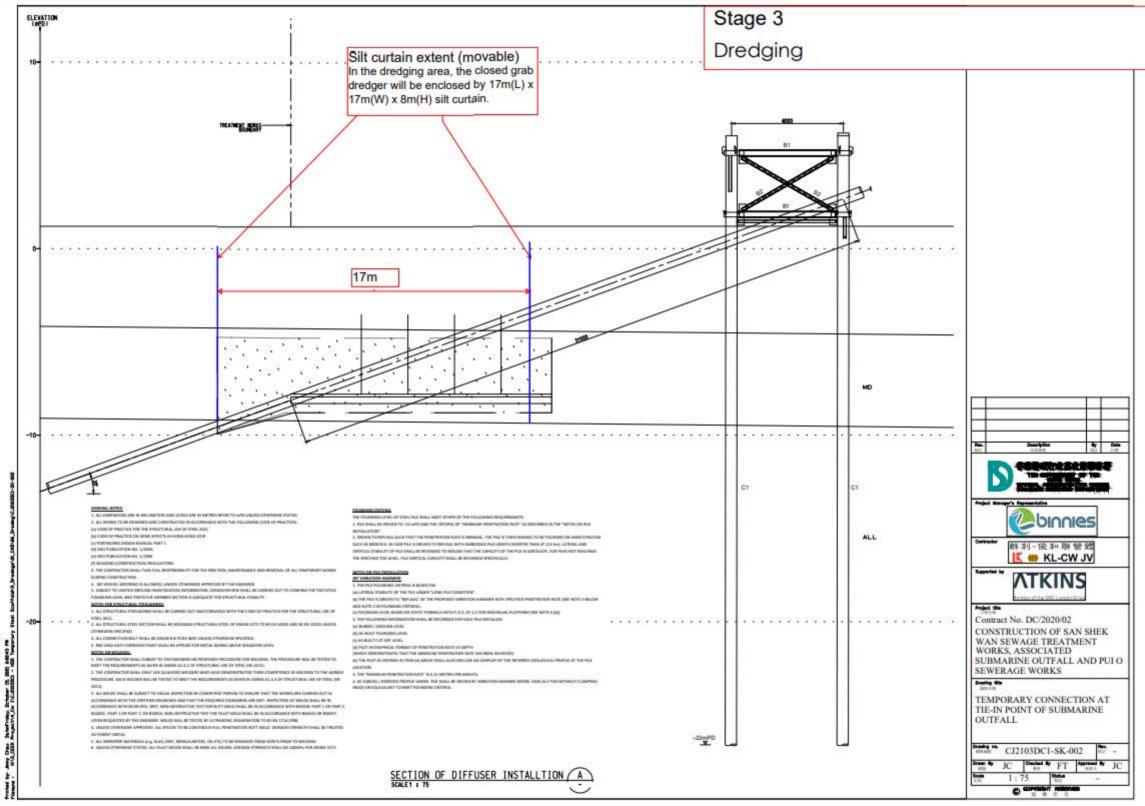
Check : Ho Tat Pui, Daniel	Scale : N.T.S.	Rev.
Ref : C3109/22/TGD0164	Date : 10 January 2022	00

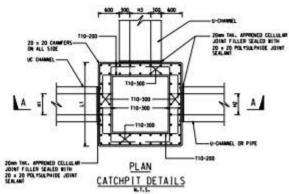
Figure 2.7

Typical Details of Proposed Silt Curtain

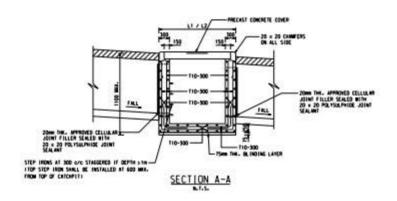


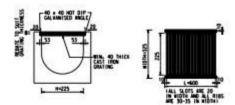




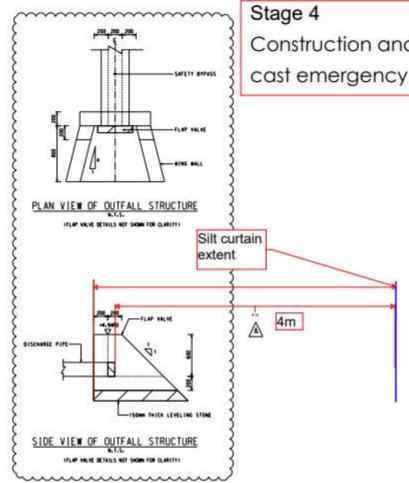


IL1 - 900 - GREATER OF HI OR H2- L2 - 900 - GREATER OF H3 OR H41





TYPICAL SECTION OF U-CHANNEL WITH CAST IRON GRATING



Coppright by Black & Verteb Song Cong Limited

6. FOR LOCATION OF OUNFALL REFERS TO DESMINES NO. 178711/080/25CHTTW/SE/SON

Construction and installation of precast emergency outfall

> A 10/20 TENDER ADDENDUM NO.3 BL SZ BL. 9019 04/20 04/20 04/20 04/20

> > Christinahor

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

TYPICAL DRAINAGE DETAILS

178711/B&V/CS/001

H.T.S.

BLACK & VEATCH HONG KONG LIMITED

Appendix 4.1

Copies of Calibration Certificates



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

Certificate No.:

23CA1110 03

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1) Larson Davis

Microphone **PCB**

Preamp **PCB**

Manufacturer: Type/Model No.:

LxT1

377B02

PRMLxT1L

Serial/Equipment No.: Adaptors used:

0004797

171529

028019

Item submitted by

Customer Name:

Lam Environmental Service Limited.

Address of Customer:

Request No.:

Date of receipt:

10-Nov-2023

Date of test:

14-Nov-2023

Reference equipment used in the calibration

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444 33873

28-Aug-2024 31-Jan-2024

CIGISMEC **CEPREI**

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

60 ± 10 % 1010 ± 5 hPa

Test specifications

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

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

3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

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

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

Feng Junqi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

15-Nov-2023

Company Chop:

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.

© Soils & Materials Engineering Co., Ltd.

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



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.:

23CA1110 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.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
-	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	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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	
	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 Weighting A at 8000 Hz	Pass Pass	0.3 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:

Fung Chi Yip

14-Nov-2023

End

Checked by:

Date:

Chan Yuk Yiu 15-Nov-2023

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



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Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:

LxT1

Serial No.

0004797

Date 14-Nov-2023

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 171529 028019

Report: 23CA1110 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

13.2

dB

Noise level in C weighting

17.5

dΒ

Noise level in Lin

23.3

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	ual level Tolerance		Devia	Deviation	
Telefolico/Expected Tevel	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	43.9	43.9	0.7	-0.1	-0.1	
39.0	38.9	38.9	0.7	-0.1	-0.1	
34.0	33.9	33.9	0.7	-0.1	-0.1	
33.0	32.9	32.9	0.7	-0.1	-0.1	

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Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:		LxT1		Ser	ial No.	0004797	Dat	e 14-Nov	v-2023
Microphone Preamp	type: type:	377B02 PRMLxT1L			ial No. ial No.	171529 028019	Rep	oort: 23CA1	110 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 Tolerance(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 meter type:		LxT1	Serial No.		0004797		14-Nov-2023
Microphone Preamp	type: type:	377B02 PRMLxT1L	Serial No. Serial No.		529 019	Report:	23CA1110 03
1995.0	94.0	93.8	93.9	1.0	1.0	0.1	
3981.0	94.0	93.2	93.2	1.0	1.0	0.0	
7943.0	94.0	91.0	91.0	1.5	3.0	0.0	
12590.0	94.0	87.8	87.8	3.0	6.0	0.0	

Frequency weighting Lin:

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	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	Tolera	nce(dB)	Deviation
dB	dB	dB	+	-	dB
116.0	115.0	114.9	1.0	1.0	-0.1

TIME WEIGHTING SLOW TEST

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

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

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	118.4	2.0	-0.6

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Page 4 of 5

Test Data for Sound Level Meter

Sound level meter type:

LxT1

Serial No.

0004797

Date 14-Nov-2023

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

171529 028019

Report: 23CA1110 03

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	118.4	2.0	-0.6

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:

40 Hz

Tone burst signal:

11 cycles of a sine wave of frequency 2000 Hz.

(Set to INT)

	Ref. Level Expected level Tone		Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	117.0+6.6	117.0	116.6	0.5	-0.4

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency:

2000 Hz

Amplitude:

The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

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

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Repeated burst indication Tolerance	
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

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
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.

0004797

Date 14-Nov-2023

Microphone Preamp type: type: 377B02 PRMLxT1L Serial No. Serial No. 171529 028019

Report: 23CA1110 03

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	90.0	60.0	60.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	cted Actual To		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
115.7	114.7	111.7	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
122.4	121.4	81.4	81.4	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	Tolerar	nce (dB)	Deviation
Hz dB		Measured (dB)	+ -		dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.1	1.0	1.0	0.2
8000	92.9	91.7	1.5	3.0	-1.2



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2

CERTIFICATE OF CALIBRATION

Certificate No.:

24CA0205 01-02

Page:

of

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Larson Davis CAL200 13128

Serial/Equipment No.: Adaptors used:

2

Item submitted by

Curstomer:

Lam Environmental Services Ltd.

Address of Customer:

-

Request No.:

Date of receipt:

05-Feb-2024

Date of test:

06-Feb-2024

Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer	Model:	Serial No.	Expiry Date:	Traceable to:
	B&K 4180	3257888	15-Aug-2024	SCL
	B&K 2673	3353200	13-Jun-2024	CEPREI
	B&K 2610	2346941	13-Jun-2024	CEPREI
	DS 360	61227	28-Jun-2024	CEPREI
	34401A	US36087050	01-Jun-2024	CEPREI
	8903B	GB41300350	13-Jun-2024	CEPREI
Universal counter	53132A	MY40003662	07-Jun-2024	CEPREI

Ambient conditions

Temperature:

21 ± 1 °C 55 ± 10 %

Relative humidity: Air pressure:

1005 ± 5 hPa

Test specifications

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

Test results

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

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

Fena

Approved Signatory:

Date:

07-Feb-2024

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



香港新界葵涌永基路 2 2 - 2 4 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.:

24CA0205 01-02

Page:

C

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	93.74	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 = 999.4 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 = 0.8%

Estimated expanded uncertainty

Fung Chi Yi

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

Calibrated by

Checked by

Date:

07-Feb-2024

Date:

06-Feb-202<mark>4</mark>)

U7-FED-2024

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

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

DEREK LO

LAM ENVIRONMENTAL SERVICES LTD

CLIENT: ADDRESS:

19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER:

HK2415171

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED:

19-Apr-2024

DATE OF ISSUE:

29-Apr-2024

GENERAL COMMENTS

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.

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

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

pH Value, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./ Equipment No.:

[14E100105/17G100383]/[N/A]

Date of Calibration:

26-April-2024

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2415171

ALS

SUB-BATCH:

0

DATE OF ISSUE:

29-Apr-2024

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Brand Name/

Multifunctional Meter

Model No.:

[YSI]/[Professional Plus]

Serial No./

[14E100105/17G100383]/[N/A]

Equipment No.: Date of Calibration:

26-April-2024

Date of Next Calibration:

26-July-2024

PARAMETERS:

pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.08	+0.08
7.0	7.12	+0.12
10.0	9.95	-0.05
	Tolerance Limit (pH unit)	±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	9.83	-1.7
20	19.44	-2.8
30	29.70	-1.0
	Tolerance Limit (%)	±10.0

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)
7.0	6.9	-0.1
25.5	25.3	-0.2
41.5	41.5	+0.0
	Tolerance Limit (°C)	±2.0

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

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics



ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

DEREK LO

LAM ENVIRONMENTAL SERVICES LTD

CLIENT: ADDRESS:

19/F, REMEX CENTRE,

42 WONG CHUK HANG ROAD,

HONG KONG

WORK ORDER:

HK2415171

SUB-BATCH:

LABORATORY:

HONG KONG

DATE RECEIVED:

19-Apr-2024

DATE OF ISSUE:

29-Apr-2024

GENERAL COMMENTS

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.

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

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Dissolved Oxygen

Brand Name/ Model No.:

[YSI]/[Professional Plus]

Serial No./ Equipment No.:

[14E100105/17G100383]/[N/A]

Date of Calibration:

26-April-2024

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK2415171

ALS

SUB-BATCH:

1

DATE OF ISSUE:

29-Apr-2024

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [Professional Plus]

Serial No./

[14E100105/17G100383]/[N/A]

Equipment No.: Date of Calibration: [112100100, 1, 0100000], [, ...

26-April-2024

Date of Next Calibration:

26-July-2024

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.64	3.02	+0.38
5.02	4.86	-0.16
7.78	7.80	+0.02
	Tolerance Limit (mg/L)	±0.20

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



ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: DEREK LO WORK ORDER: HK2423534

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

ADDRESS: 19/F, REMEX CENTRE, SUB-BATCH:

42 WONG CHUK HANG ROAD, HONG KONG

LABORATORY: HONG KONG

DATE RECEIVED: 13-Jun-2024

DATE OF ISSUE: 05-Jul-2024

GENERAL COMMENTS

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.

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

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Salinity

Brand Name/ Model No.: [HORIBA]/ [U-53/U-5000]
Serial No./ Equipment No.: [NYFVEEMS/S14JAV8U]/ [N/A]

Date of Calibration: 02-July-2024

Mr Chan Siu Ming, Vico Assistant Laboratory Manager

Mar Sign

Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2423534

SUB-BATCH: 1

DATE OF ISSUE: 05-Jul-2024

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Brand Name/ Model No.: Multifunctional Meter

[HORIBA]/[U-53/U-5000]

Serial No./

[NIVEV/EEN/C/C1/LAV/OLI]/[NI/A]

Equipment No.:

[NYFVEEMS/S14JAV8U]/[N/A]

Date of Calibration:

02-July-2024

Date of Next Calibration:

02-October-2024

PARAMETERS:

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	9.68	-3.2
20	20.35	+1.8
30	32.22	+7.4
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless

of equipment precision or significant figures.

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

Ma Si

Page 2 of 2



ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre,

1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: DEREK LO WORK ORDER: HK2423534

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

ADDRESS: 19/F, REMEX CENTRE, SUB-BATCH:

42 WONG CHUK HANG ROAD, HONG KONG

LABORATORY: HONG KONG

DATE RECEIVED: 13-Jun-2024 **DATE OF ISSUE:** 05-Jul-2024

GENERAL COMMENTS

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.

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

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Dissolved Oxygen, pH Value, Turbidity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-53/U-5000]
Serial No./ Equipment No.: [NYFVEEMS/S14JAV8U]/ [N/A]

Date of Calibration: 26-June-2024

Mr Chan Siu Ming, Vico Assistant Laboratory Manager

Ma Sign

Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2423534

SUB-BATCH: 0

DATE OF ISSUE: 05-Jul-2024

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: M Brand Name/

Multifunctional Meter

Model No.:

[HORIBA]/ [U-53/U-5000]

Serial No./ Equipment No.:

[NYFVEEMS/S14JAV8U]/[N/A]

Date of Calibration:

26-June-2024

Date of Next Calibration: 26-September-2024

PARAMETERS:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.85	3.01	+0.16
4.34	4.53	+0.19
6.64	6.55	-0.09
	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	7.03	+0.03
10.0	9.97	-0.03
	Tolerance Limit (pH unit)	±0.20

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

Mr Chan Siu Ming, Vico Assistant Laboratory Manager

Ma Sign

Environmental

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2423534

SUB-BATCH: 0

DATE OF ISSUE: 05-Jul-2024

CLIENT: LAM ENVIRONMENTAL SERVICES LTD

Equipment Type: Brand Name/ Model No.: Multifunctional Meter

[HORIBA]/ [U-53/U-5000]

Serial No./

[NYFVEEMS/S14JAV8U]/[N/A]

Equipment No.: Date of Calibration:

26-June-2024

Date of Next Calibration: 26-September-2024

PARAMETERS:

Turbidity Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.28	
4	4.28	+7.0
40	38.9	-2.8
80	77.8	-2.8
400	393	-1.8
800	814	+1.8
	Tolerance Limit (%)	±10.0

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.5	11.97	+1.5
24.5	23.95	-0.6
41.0	39.57	-1.4
	Tolerance Limit (°C)	±2.0

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

Mr Chan Siu Ming, Vico Assistant Laboratory Manager

Ma Ship

Page 3 of 3



Calibration Report

52508051 - D10E2801 Calibration No.

FT LaboratoriesLtd. Laboratory

Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories Address

(852) 2758 4861 Telephone

(852) 2758 8962 **Facsimile**

Lam Environmental Services Limited Customer

19/F., Remex Centre, 42 Wong Chuk Hang Road, Hong Kong Address

Turbidimeter Name/Description: Item Calibrated

> Shanghai Xinrui Instruments & Meters co.,Ltd Manufacturer:

WGZ-3B Model no: Equipment no.: 2209057

C23/01 under NCRM reference material number GBW(E) 120125. Reference Standard /

Standard Solution of Formazine Turbidity Major Measurement

In-house calibration method according to Ref: APHA22nd ed 213 OB Calibration Method

10 Apr., 2024 Date of item received

Date of Calibration 15 Apr., 2024

Chemical Laboratory of FT LaboratoriesLtd. Location of Calibration

Calibration Conditions

Relative Humidity

Notes:

Equipment

 20 ± 3 °C Temperature 30% to 80%

The test results are detailed in the subsequent page(s). Test Results

Date of Issue: 16 APR 2024 Certified by: CHAN Joseph Nicolas (Senior Technical Engineer)

> The above equipment has been calibrated against standards which are traceable to internationally recognized standards. (1)

This certificate shall not be reproduced, except in full, without the written approval of FT LaboratoriesLtd. (2)



Calibration Report

Calibration No.

52508051 - D10E2801

Results

Turbidity of standard solution used (NTU)	Measured value (NTU)	Error (%)
0	0	
4	4.00	0.00%
10	9.98	-0.20%
40	39.98	-0.05%
100	99.8	-0.20%
400	399.2	-0.20%
1000	999.0	-0.10%

Remarks:

- (A) Each reported result is the mean of three measurements on UUT (unit-under-test).
- (B) The values given in this Calibration Report only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.
- (C) Before calibration, UUT and reference equipment was placed in the laboratory for at least one hour.

< End of Report >

Calibrated by:

CH Choung

Checked by:

Date:

15 Apr., 2024

Date:



Calibration Report

Calibration No. : 60408001-G02E2402

Laboratory : FT LaboratoriesLtd.

Address : Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories

Telephone : (852) 2758 4861

Facsimile : (852) 2758 8962

Customer : Lam Environmental Services Limited

Address : 19/F., Remex Centre, 42 Wong Chuk Hang Road, Hong Kong

Item Calibrated : Name/Description: Turbidimeter

Manufacturer: Shanghai Xinrui Instruments & Meters co.,Ltd

Model no: WGZ-3B Equipment no.: 2209074

Reference Standard / : C23/01 under NCRM reference material number GBW(E) 120125.

Major Measurement Standard Solution of Formazine Turbidity

Equipment

Calibration Method : In-house calibration method according to Ref: APHA22nd ed 213 OB

Date of item received : 02 Jul.,2024

Date of Calibration : 05 Jul.,2024

Location of Calibration : Chemical Laboratory of FT LaboratoriesLtd.

Calibration Conditions

Notes:

Temperature : 20 ± 3 °C Relative Humidity : 30% to 80%

Test Results : The test results are detailed in the subsequent page(s).

Certified by:

Date of Issue: -5 | | 2024 |

CHAN Joseph Nicolas (Senior Technical Engineer)

(1) The above equipment has been calibrated against standards which are traceable to internationally recognized standards.

(2) This certificate shall not be reproduced, except in full, without the written approval of FT LaboratoriesLtd.

Appendix 4.2

Impact Monitoring Schedule for Reporting Month and Next Month



CONTRACT NO: SD 15/2022 OUTLYING ISLAND SEWERAGE STAGE 2 - SOUTH LANTAU SEWAGE WORKS -ENVIRONMENTAL TEAM SERVICES (2023 – 2024) Environmental Monitoring Schedule (Rev. 3)

Jul 2024

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	Wednesda	у	Thursday	Friday	Saturday
30 Jun		01 Jul	02 Ju		03 Jul	04 J	ul 05 .	lul 06 Jul
				Noise Monitoring				
				Noise Monitoring				
			Mid-Ebb 9:39			Mid-Ebb 11:1		Mid-Ebb 12:40
07 Jul		08 Jul	Mid-Flood 16:28 09 Ju		10 Jul	Mid-Flood 18:3		Mid-Flood 18:30*
				Noise Monitoring				
	Mid-Ebb	14:01		Mid-Ebb	15:10		Mid-Ebb 16:	06
	Mid-Flood	7:06		Mid-Flood	8:06		Mid-Flood 9:	21
14 Jul		15 Jul	16 Ju		17 Jul	18 J	ul 19 c	lul 20 Jul
				Noise Monitoring				
	Mid-Ebb	7:21		Mid-Ebb	9:30		Mid-Ebb 10:	
21 Jul	Mid-Flood	13:29 22 Jul	23 Ju	Mid-Flood	16:30* 24 Jul	25 J	Mid-Flood 18:	35 u 27 Jul
				Noise Monitoring			WQM for Mid-Flood	
							and Mid-Edd suspended due to	
							Strong	
							Monsoon Signal	
							Olgital	
	Mid-Ebb	12:59		Mid-Ebb	14:29		Mid-Ebb 15:	54
00.14	Mid-Flood	18:15*	20 1	Mid-Flood	7:41	04.4	Mid-Flood 9::	
28 Jul		29 Jul	30 Ju		31 Jul	01 Au	g 02 A	ug 03 Aug
				Noise Monitoring				
				WQM for Mid-ebb				
				suspended due to Amber Rainstorm)			
				Signal				
				L				
	Mid-Ebb Mid-Flood	7:11 13:35		Mid-Ebb Mid-Flood	9:32 16:55*		Mid-Ebb 11: Mid-Flood 17:2	
	IIVIIU-FIOOU	13:33	1	IVIIU-FIOOU	10.00	1	IVIIU-FIUUU 17:2	U



CONTRACT NO: SD 15/2022 OUTLYING ISLAND SEWERAGE STAGE 2 – SOUTH LANTAU SEWAGE WORKS –

ENVIRONMENTAL TEAM SERVICES (2023 – 2024) Tentative Impact Marine Water Quality Monitoring Schedule (Rev. 3) Aug 2024

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.

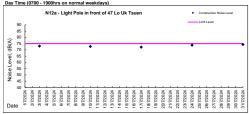
Sunday	Mond	ay	Tuesday	Wedne	esday	Thursday	Frid	ay	Saturday
28 Jul		29 Jul	30 Jul		31 Jul	01 Aug		02 Aug	03 Aug
	Mid-Ebb Mid-Flood	7:11 13:35		Mid-Ebb Mid-Flood	9:32 16:55*		Mid-Ebb Mid-Flood	11:07 18:30*	
04 Aug		05 Aug	06 Aug		07 Aug	08 Aug		09 Aug	10 Aug
	Mid-Ebb Mid-Flood	13:05 7:04*		Mid-Ebb Mid-Flood	14:10 7:24		Mid-Ebb Mid-Flood	15:05 8:36	
11 Aug	IVIIG T ICCG	12 Aug	13 Aug	Wild Flood	14 Aug	15 Aug	Wild T lood	16 Aug	17 Aug
	Mid-Ebb	16:57		Mid-Ebb	8:14		Mid-Ebb	10:00	
18 Aug	Mid-Flood	11:24 19 Aug	20 Aug	Mid-Flood	16:30* 21 Aug	22 Aug	Mid-Flood	17:00* 23 Aug	24 Aug
									Š
	Mid-Ebb	11:57		Mid-Ebb	13:25		Mid-Ebb	14:48	
25 Aug	Mid-Flood	17:30* 26 Aug	27 Aug	Mid-Flood	7:09* 28 Aug	29 Aug	Mid-Flood	8:30 30 Aug	31 Aug
	Mid-Ebb Mid-Flood	17:17* 12:02		Mid-Ebb Mid-Flood	8:14 16:00*		Mid-Ebb Mid-Flood	10:11 16:30*	

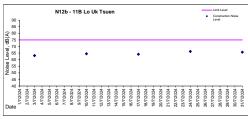
Appendix 4.3

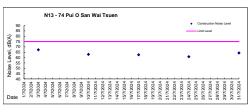
Noise Monitoring Results and Graphical Presentations

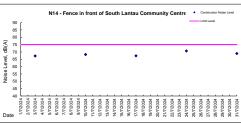
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

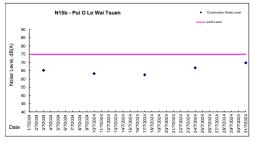
am

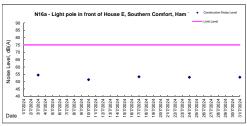


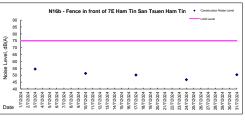


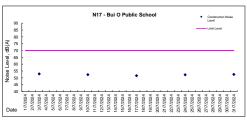














Day Time (0700 - 1900hrs on normal weekdays)

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

			0 17		Measur	ement No	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level		0.1 11:
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Lea	Leq	Major Construction	Other Noise
			CHECK		Unit:	dB(A), (5	i-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				14:15	75.1	76.0	46.8						
				14:20	73.5	74.6	45.3						
3 Jul 2024	Sunny	0.0	94.1	14:25	72.8	73.9	45.6	73.0	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
0 001 202 1	Odriny	0.0	04.1	14:30	73.9	75.0	44.3	75.0	75.5	CDASCIIIC ECVOI	75	IN/A	Hanne
				14:35	68.8	70.1	43.2						
				14:40	71.3	72.2	46.1						
				14:15	73.9	75.2	45.5						
				14:20	72.3	73.6	44.1						
10 Jul 2024	Sunny	0.0	94.1	14:25	72.7	74.1	44.3	72.7	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 341 2024	Guiniy	0.0	04.1	14:30	73.7	75.3	45.3		70.0	ADGOOMIO EOVOI	7.0	INA	Hanne
				14:35	71.5	72.8	43.2						
				14:40	71.6	72.9	43.2						
				14:15	73.3	74.2	44.2	1					
				14:20	71.8	72.7	43.6						
17 Jul 2024	Sunny	0.0	94.1	14:25	72.1	73.0	43.6	72.2	73.3	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				14:30	73.1	74.3	44.1					1071	Tiurne
				14:35	71.0	71.9	42.9	1					
				14:40	71.1	72.5	42.7						
				14:15	73.8	74.1	45.6						
				14:20	72.1	74.8	44.3	1					
24 Jul 2024	Cloudy	0.0	94.1	14:25	73.5	74.6	47.6	73.8	73.3	64	75	N/A	Traffic
				14:30	74.6	75.7	45.3	1					
				14:35	75.1	76.3	46.8						
				14:40	72.8	73.9	49.2						
				14:15	75.4	76.6	47.3	ļ					
				14:20	71.3	72.5	43.2	1					
31 Jul 2024	024 Cloudy 0.0	94.1	14:25	72.8	74.3	44.7	74.3	73.3	67	75	N/A	Traffic	
				14:30	75.8	76.8	47.7	ļ					
				14:35	73.9	75.1	45.8	ļ					
	1		1	14:40	74.9	76.2	46.8						

 $^{^{\}star}$ 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		Measur	ement No		Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other Noise
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				13:40	62.0	63.2	51.6						
				13:45	63.3	66.8	56.0						
3 Jul 2024	Sunny	0.0	94.1	13:50	58.7	62.1	55.6	63.1	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
3 Jul 2024	Outility	0.0	34.1	13:55	63.8	67.8	54.3	00.1	70.0	CDASCING ECVO	75	IVA	Hanne
				14:00	62.5	66.6	52.8						
				14:05	65.6	69.5	56.2						
				13:40	65.0	66.8	54.8						
				13:45	64.5	66.4	54.3						
10 Jul 2024	Sunny	0.0	94.1	13:50	61.5	63.4	51.3	64.5	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 301 2024	Outility	0.0	34.1	13:55	63.8	65.6	53.5	04.0	70.0	CDASCING ECVO	75	IVA	Hanne
				14:00	64.5	66.3	54.3						
				14:05	66.2	68.1	56.2						
				13:40	64.7	66.6	53.4						
				13:45	64.2	66.0	52.8						
17 Jul 2024	Sunny	0.0	94.1	13:50	61.2	63.2	53.1	64.1	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
11 Odi 2024	Outility	0.0	0	13:55	63.5	65.4	52.2	04.1	70.0	CDASCING ECVO	75	INA	Hanne
				14:00	64.1	66.1	52.8						
				14:05	65.8	67.8	54.5						
				13:40	68.2	71.3	50.6						
				13:45	65.9	67.4	55.5						
24 Jul 2024	Cloudy	0.0	94.1	13:50	64.1	67.4	59.1	66.2	76.8	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
L+ 0di 2024	Cioday	0.0	0	13:55	63.8	65.8	56.8	00.2	70.0	ADGOOMIO EOVOI		INA	Trairie
				14:00	66.6	68.3	56.2						
				14:05	67.2	69.0	57.9						
				13:40	64.4	66.1	54.8						
				13:45	64.1	65.8	54.5						
31 Jul 2024	0.1 Cloudy	94.1	13:50	66.7	68.1	54.1	65.7	76.8	<baseline level<="" td=""><td>75</td><td>Lifting machine</td><td>Traffic</td></baseline>	75	Lifting machine	Traffic	
0.00.2024		0 7.1	13:55	67.7	69.5	58.2	55.7	. 3.0	450001110 ECVOI		Litting machine	Hallic	
				14:00	66.2	67.9	56.6						
	I			14:05	63.5	65.2	53.9	Ĩ l					

^{*} 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	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	04 17 1
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction	Other Noise
			CHECK		Unit	: dB(A), (5	-min)		Unit:	dB(A), (30-min)		Noise Source(s)*	Source(s)
				11:30	67.9	68.3	67.2						
				11:35	68.9	70.9	67.7						Demolation
3 Jul 2024	Sunny	0.0	94.1	11:40	67.1	67.5	66.8	67.3	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>works at</td></baseline>	75	N/A	works at
3 3ui 2024	Guilly	0.0	34.1	11:45	68.8	70.6	64.3	07.5	75.0	CDGGCIIIC ECVCI	73	IVA	Restaurant
				11:50	65.3	67.4	63.2						Restaurant
				11:55	63.6	65.6	61.1						
				11:30	66.0	68.2	61.2						
				11:35	59.8	61.9	55.0						D
10 Jul 2024	Sunny	0.0	94.1	11:40	61.6	63.8	56.8	63.0	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Demolation works at</td></baseline>	75	N/A	Demolation works at
10 Jul 2024	Suring	0.0	34.1	11:45	61.5	63.7	56.7	63.0	73.0	<baseline level<="" p=""></baseline>	75	N/A	Restaurant
				11:50	63.4	65.6	58.6						Restaurant
				11:55	63.1	65.3	58.3						
				11:30	1:30 65.5 66.9 62.9								
				11:35	59.5	60.9	56.9						B 1.2
17 Jul 2024	Sunny	0.0	94.1	11:40	61.3	62.7	58.7	62.6	73.6	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Demolation works at</td></baseline>	75	N/A	Demolation works at
17 301 2024	Suring	0.0	34.1	11:45	61.2	62.6	58.6	02.0	73.0	CDasellile Level	73	IVA	
				11:50	63.0	64.4	60.4						Restaurant
				11:55	62.7	64.1	60.1						
				11:30	64.7	66.9	52.6						
				11:35	50.6	64.5	50.8						B 1.2
24 Jul 2024	Cloudy	0.0	94.1	11:40	56.3	57.4	51.0	60.8	73.6	<baseline level<="" td=""><td>75</td><td>27/4</td><td>Demolation</td></baseline>	75	27/4	Demolation
24 Jul 2024	Cloudy	0.0	94.1	11:45	54.4	55.6	52.1	00.0	73.0	<daseille level<="" p=""></daseille>	75	N/A	works at
				11:50	61.8	62.9	50.9						Restaurant
				11:55	62.9	64.2	53.2						
				11:30 66.3	66.3	67.5	64.5						
				11:35	65.4	66.6	63.6						
31 Jul 2024	Cloudy	0.0	94.1	11:40	64.3	65.5 62.5 64.		64.4	73.6	<baseline level<="" td=""><td>75</td><td>NT/4</td><td>Demolation</td></baseline>	75	NT/4	Demolation
31 Jul 2024	Cloudy	0.0	94.1	11:45	5 66.7 67.9 64.9		04.4	13.0	<paseiifie levei<="" p=""></paseiifie>	15	N/A	works at	
				11:50	55.4	56.6	53.6						Restaurant
				11:55	59.6	60.8	57.8						

^{*} 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

			Calibantian		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	Other
Date	Weather	Wind Speed	Chock	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Constructio	Noise
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)		n Noise	Source(s)
				10:55	67.6	68.3	66.4						
				11:00	67.2	68.1	66.3						
3 Jul 2024	Sunny	0.0	94.1	11:05	66.7	67.2	66.1	67.3	62.2	66	75	Excavating	Traffic
0 001 202 1	Curiny	0.0	0	11:10	68.3	69.1	66.2	07.5	02.2	00	70	Excavating	Hanne
				11:15	65.4	66.0	66.5						
				11:20	68.0	69.4	67.1						
				10:55	68.3	69.6	39.9						
				11:00	68.4	69.7	40.0						
10 Jul 2024	Sunny	0.0	94.1	11:05	68.2	69.5	39.8	68.3	62.2	67	75	Evention	Traffic
10 301 2024	Curiny	0.0	0	11:10	68.7	70.0	40.3	00.0	02.2	Oi	70	Excavating	Hanne
				11:15	67.0	68.3	38.6						
				11:20	68.9	70.2	40.5						
				10:55	67.4	68.3	38.3						
				11:00	67.5	68.4	38.4						
17 Jul 2024	Sunny	0.0	94.1	11:05	67.3	68.3	38.2	67.4	62.2	66	75	Excavating	Traffic
17 Jul 2024	Curiny	0.0	0	11:10	67.8	68.8	38.7	07.4	02.2	00	70	Excavating	Hanne
				11:15	66.1	67.1	37.0						
				11:20	68.0	69.0	38.9						
				10:55	70.3	71.0	69.5						
				11:00	70.9	71.4	70.3						
24 Jul 2024	Cloudy	0.0	94.1	11:05	71.1	71.4	70.7	70.7	62.2	70	75	Excavating	Traffic
24 Jul 2024	Oloddy	0.0	0	11:10	70.6	72.0	69.2	70.7	02.2	10	70	Excavating	Hanne
				11:15	69.8	70.3	70.5						
				11:20	71.3	73.6	69.6						
				10:55	68.4	69.6	40.3						
				11:00	65.8	67.0	37.7						
31 Jul 2024	Cloudy	y 0.0	94.1	11:05	68.3	69.5	40.2	69.0	62.2	68	75	Evention	Traffic
5. 00. E0E4	Cioddy		· · · ·	11:10	69.7	70.9	41.6	00.0	02.2	00	,,	Excavating	Trainc
				11:15	70.1	71.3	42.0						l
		1		11:20	70.1	71.3	42.0						

^{*} 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	65.5	68.4	60.1						
				15:05	62.6	63.9	60.1						
3 Jul 2024	Sunny	0.0	94.1	15:10	66.8	69.7	61.8	65.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
3 Jul 2024	Suriny	0.0	34.1	15:15	63.2	66.5	58.3	65.3	70.7	 	75	N/A	Tranne
				15:20	65.9	68.9	61.2						
				15:25	66.1	69.2	62.1						
				15:00	64.4	67.6	59.7						
				15:05	61.8	65.0	57.1						
10 Jul 2024	Sunny	0.0	94.1	15:10	64.7	67.9	60.0	63.3	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 Jul 2024	Outility	0.0	34.1	15:15	61.4	64.6	56.7	00.0	70.7	CDESCRITE LEVEL	75	IN/A	Tranne
				15:20	63.5	66.7	58.8						
				15:25	62.9	66.1	58.2						
				15:00	63.5	66.5	58.4						
				15:05	61.4	64.4	56.3						
17 Jul 2024	Sunny	0.0	94.1	15:10	63.7	66.7	58.6	62.6	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
17 301 2024	Outility	0.0	04.1	15:15	61.1	64.1	56.0	02.0	70.7	CDESCRITE LEVEL	75	IVA	Hanne
				15:20	62.8	65.7	57.7						
				15:25	62.3	65.3	57.2						
				15:00	68.5	71.8	60.5						
				15:05	66.6	71.0	57.6						
24 Jul 2024	Cloudy	0.0	94.1	15:10	67.6	71.5	60.8	66.8	70.7	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	,	***		15:15	65.3	70.3	58.9					19/7	Transc
				15:20	66.4	70.6	60.3						
				15:25	65.2	69.2	59.1						
				15:00	67.8	69.2 61.5							
				15:05	69.5	70.9	8 63.1 69.8 70.7						
31 Jul 2024	Cloudy	0.0	94.1	15:10	69.4	70.8		<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic		
	2.500)			15:15	71.1	72.5	64.8				.0	14/1	THILL
				15:20	69.4	70.8	63.1]					
				15:25	70.9	72.3	64.6						

^{*} 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		204		dB(A), (30-min)	Leq	Noise Source(s)*	Source(s)
				9:45	56.8	58.3	52.6						
				9:50	52.8	53.5	52.0						
3 Jul 2024	Sunny	0.0	94.1	9:55	53.1	54.1	51.9	54.5	68.1	<baseline level<="" td=""><td>75</td><td></td><td>m .cc</td></baseline>	75		m .cc
3 Jul 2024	Sunny	0.0	94.1	10:00	54.6	56.1	52.3	54.5	68.1	<baseline level<="" td=""><td>75</td><td>Crane</td><td>Traffic</td></baseline>	75	Crane	Traffic
				10:05	55.3	56.7	53.2						
				10:10	52.8	54.2	51.0						
				9:45	55.6	57.2	52.7						
				9:50	53.2	54.8	50.3						
10 Jul 2024	Sunny	0.0	94.1	9:55	53.2	54.8	50.3	54.1	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 001 202 1	Curry	0.0	01.1	10:00	55.3	56.9	52.4	· · · · ·	00.1	ADGOMINO EOVO		INA	Hanc
				10:05	53.9	55.6	51.2						
				10:10	52.3	53.9	50.2						
				9:45	54.8	56.0	50.7						
				9:50	52.4	53.6	48.3						
17 Jul 2024	Sunny	0.0	94.1	9:55	52.4	53.6	48.3	53.3	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
	-			10:00	54.5	55.7	50.4						
				10:05	53.1	54.3	49.0						
				10:10	51.6	52.8	47.5						
				9:45	53.7	52.2 53.6	43.4						
				9:50 9:55	52.6 52.4	53.5	44.2 43.9						
24 Jul 2024	Cloudy	0.0	94.1	10:00	55.3	56.3	43.2	53.0	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
				10:05	51.6	52.5	44.1						
				10:10	50.8	51.9	43.2						
				9:45	54.0	55.2	50.6						
				9:50	53.6	54.8	50.0						
				9:55	51.4	52.6	48.0						
31 Jul 2024	Cloudy 0.0	94.1	10:00	54.1	55.3	50.7	53.0	68.1	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic	
			10:05	52.2	53.4	48.7							
				10:10	52.1	53.3	48.8			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

					Measur	ement Noi	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Action Level	Major	0.1 17.1
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leg	Construct	Other Noise
			Check		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)		ion Noise	Source(s)
				10:20	56.8	58.3	52.6						
				10:25	52.8	53.5	52.0						
3 Jul 2024	Sunny	0.0	94.1	10:30	53.1	54.1	51.9	54.5	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
3 3 di 2024	Suring	0.0	34.1	10:35	54.2	56.8	50.8	34.3	00.5	Chaseline Level	75	N/A	Hailic
				10:40	55.1	57.3	52.3						
				10:45	53.6	55.9	51.9						
				10:20	51.3	54.5	46.5						
				10:25	50.2	53.4	45.4						
10 Jul 2024	Sunny	0.0	94.1	10:30	52.5	55.7	47.7	51.3	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
10 Jul 2024	Suring	0.0	34.1	10:35	51.5	54.7	46.7	31.3	00.5	Chaseline Level	75	N/A	Hailic
				10:40	51.3	54.5	46.5						
				10:45	50.9	54.1	46.1						
				10:20	50.1	52.7	44.3						
				10:25	49.0	51.6	43.2						
17 Jul 2024	Sunny	0.0	94.1	10:30	51.3	53.9	45.5	50.2	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
17 301 2024	Curiny	0.0	0	10:35	50.3	52.9	44.5	50.2	00.0	CDUSCHIIC ECVO	75	IN/A	Hanne
				10:40	50.1	52.7	44.3						
				10:45	49.8	52.4	44.0						
				10:20	43.7	44.4	43.4						
				10:25	45.4	48.6	44.2						
24 Jul 2024	Cloudy	0.0	94.1	10:30	50.1	53.6	43.9	46.8	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
24 Jul 2024	Cioday	0.0	0	10:35	46.8	49.8	42.8	40.0	00.0	CDUSCHIIC ECVO	75	IN/A	Hanne
				10:40	45.5	48.4	45.1						
				10:45	46.2	49.3	44.6						
				10:20	51.8	53.0	48.1						
				10:25	52.2	53.4	48.5						
31 Jul 2024	024 Cloudy 0.0	0.0	94.1	10:30	51.1	52.3	47.4	50.4	68.5	<baseline level<="" td=""><td>75</td><td>N/A</td><td>Traffic</td></baseline>	75	N/A	Traffic
		2.0		10:35	46.5	47.7	42.8	55.4	55.0	42400/IC ECVO	.0	IN/A	TIAIIIC
				10:40	46.8	48.0	43.1						
	1	1	l	10:45	50.7	51.9	47.0					1	

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



Day Time (0700 - 1900hrs on normal weekdays)

Location: N17 - Bui O Public School

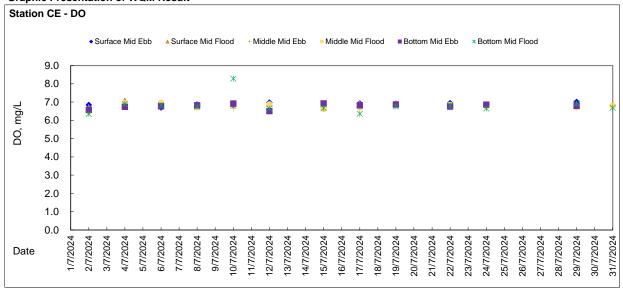
			Calibration		Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level	Major	
Date	Weather	Wind Speed	Calibration Check	Time	Leq	L10	L90	Leq	Leq	Leq	Leq	Construction Noise	Other Noise Source(s)
			CHECK		Unit	dB(A), (5	-min)		Unit:	dB(A), (30-min)	•	Source(s)*	
				13:00	53.7	54.8	49.2						
				13:05	53.1	55.1	47.2						
3 Jul 2024	Sunny	0.0	94.1	13:10	52.4	53.7	45.5	52.9	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
0 001 202 1	Outility	0.0	04.1	13:15	51.8	53.0	46.3	32.3	02.0	CDascille Ecvel	70	IVA	Hanne
				13:20	53.4	54.8	48.9						
				13:25	52.8	54.2	46.1						
				13:00	53.2	55.9	44.4						
				13:05	52.3	54.9	43.5						
10 Jul 2024	Sunny	0.0	94.1	13:10	50.9	53.6	42.1	52.4	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
10 301 2024	Curry	0.0	04.1	13:15	52.0	54.7	43.2	02.1	02.0	ADDOOMING EDVOI	70	IVA	Hanne
				13:20	52.5	55.1	43.7						
				13:25	52.9	55.6	44.1						
				13:00	52.4	55.5	45.6						
				13:05	51.5	54.6	44.7						
17 Jul 2024	Sunny	0.0	94.1	13:10	50.2	53.3	43.4	51.6	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
				13:15	51.3	54.4	44.5				• •	1771	Tiuric
				13:20	51.7	54.8	44.9						
				13:25	52.1	55.2	45.3						
				13:00	53.1	56.3	49.0						
				13:05	51.8	54.3	48.9						
24 Jul 2024	Cloudy	0.0	94.1	13:10	49.8	51.3	48.0	52.2	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
				13:15	52.6	55.3	48.7	1				1.471	Thirte
				13:20	51.9	54.2	47.6						
				13:25	53.4	56.0		49.2					
				13:00	51.9	54.6	45.4						
				13:10 F3.0	55.7	46.5	1						
31 Jul 2024	Cloudy	0.0	94.1	13:10	52.9	55.6	46.4	52.5	62.3	<baseline level<="" td=""><td>70</td><td>N/A</td><td>Traffic</td></baseline>	70	N/A	Traffic
				13:15	53.7	56.4	47.2						2.41110
				13:20	52.4	55.1	45.9						
				13:25	50.5	53.2	44.0						

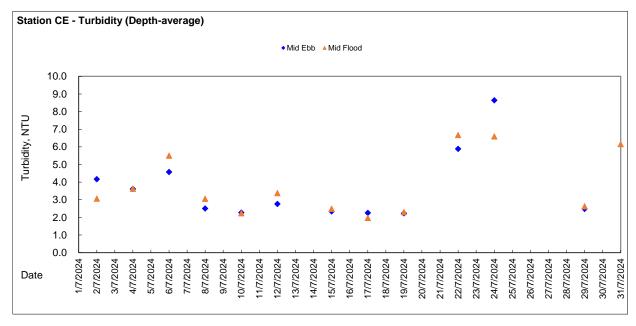
^{*} N/A refers to no major construction noise observed during noise monitoring

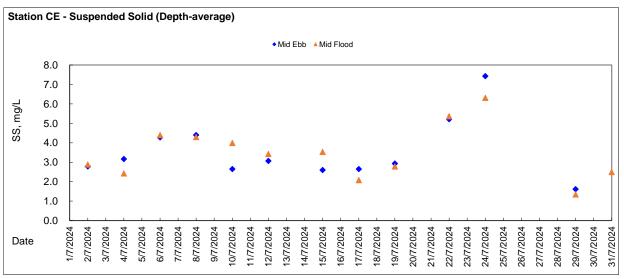
Appendix 4.4

Marine Water Quality Monitoring Results and Graphical Presentations

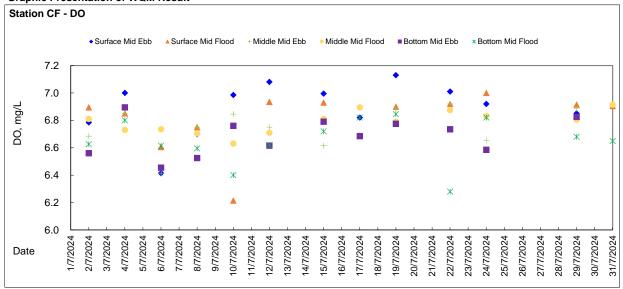


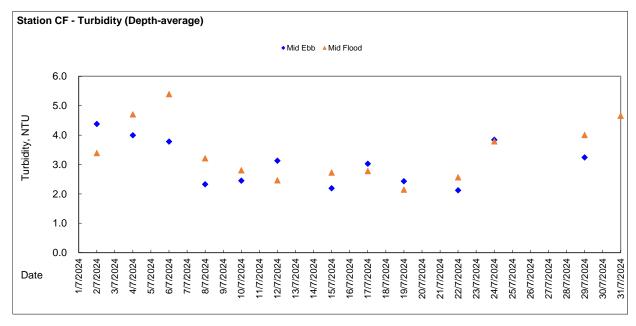


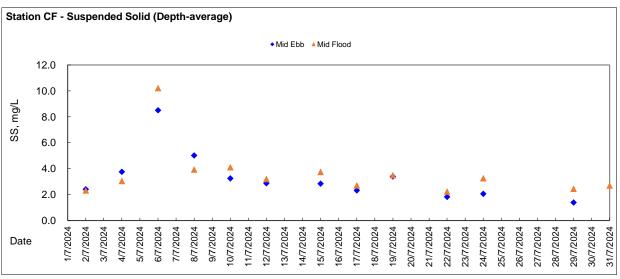




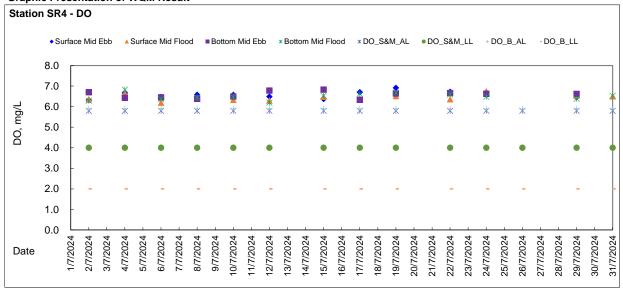


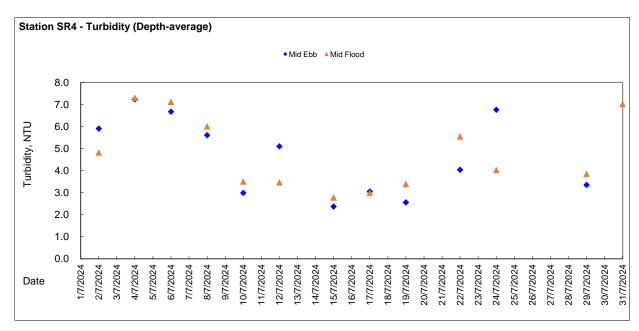


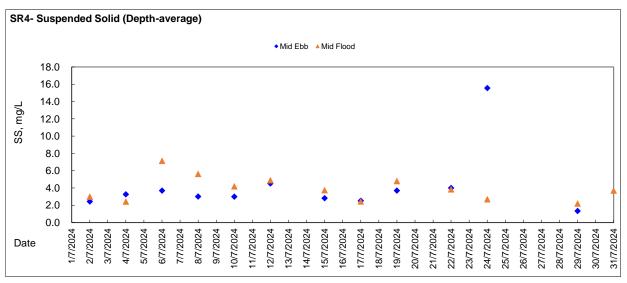




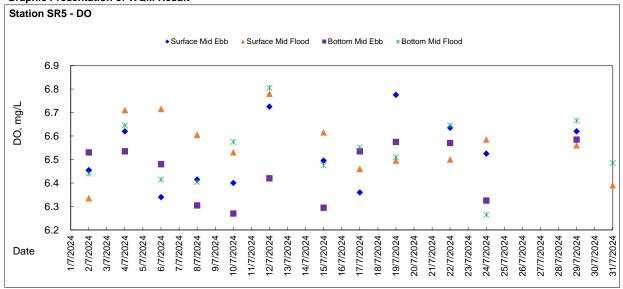


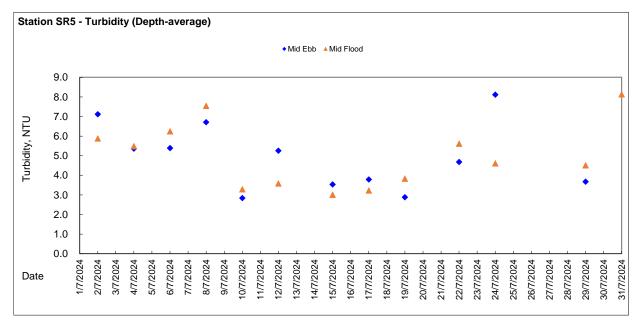


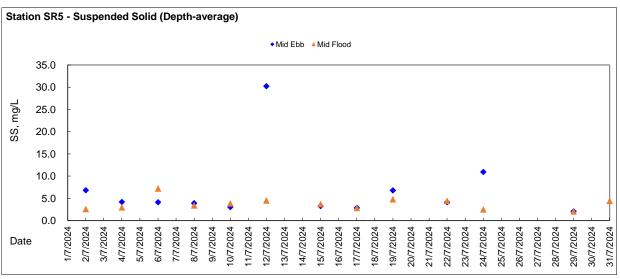




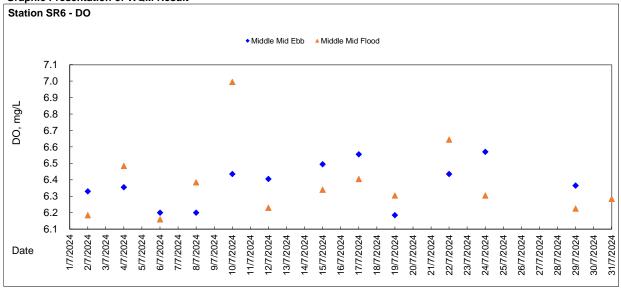


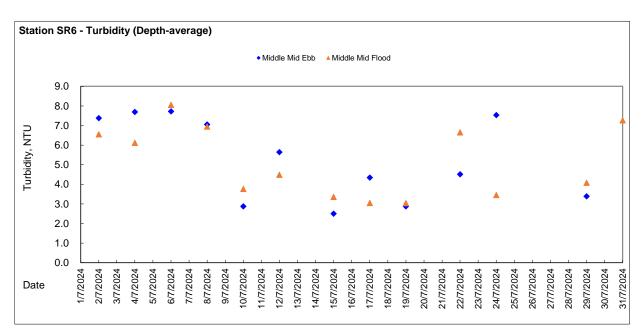


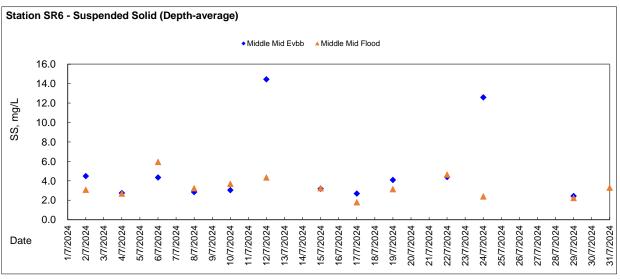




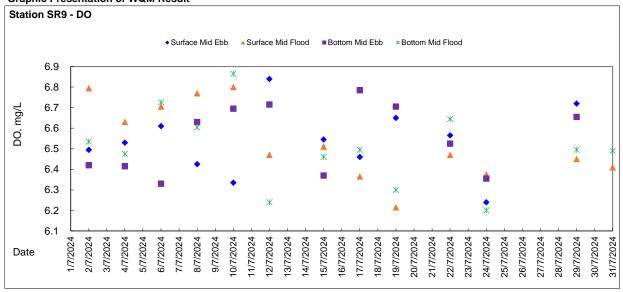


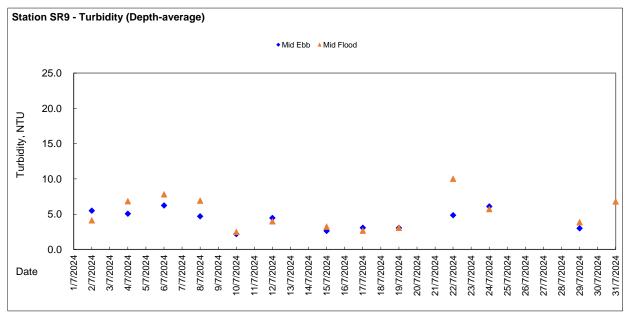


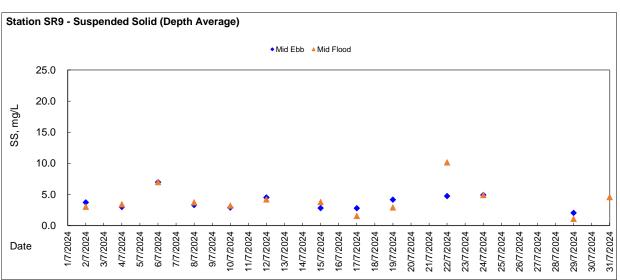






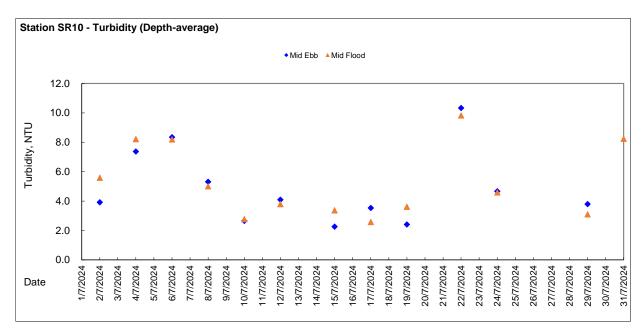


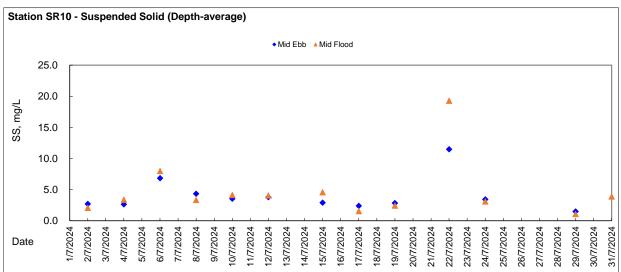




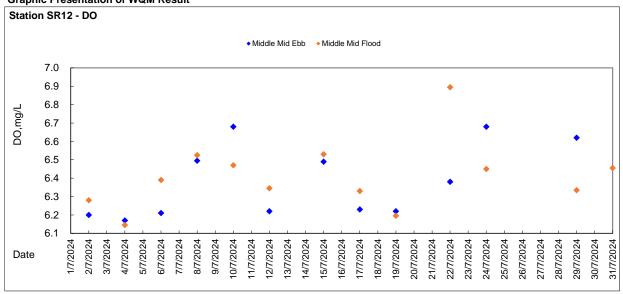


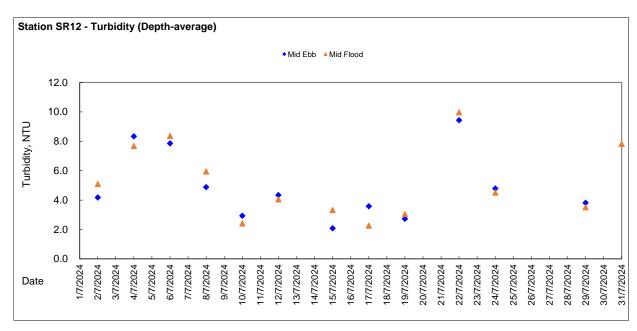
Graphic Presentation of WQM Result Station SR10 - DO Middle Mid Ebb ▲ Middle Mid Flood 6.8 6.7 DO, mg/L 6.6 6.5 6.4 6.3 6.2 6.1 8/7/2024 22/7/2024 24/7/2024 27/7/2024 29/7/2024 2/7/2024 3/7/2024 5/7/2024 6/7/2024 7/7/2024 0/7/2024 11/7/2024 12/7/2024 15/7/2024 16/7/2024 19/7/2024 28/7/2024 9/7/2024 13/7/2024 25/7/2024 26/7/2024 14/7/2024 17/7/2024 18/7/2024 20/7/2024 21/7/2024 23/7/2024 30/7/2024 31/7/2024 Date

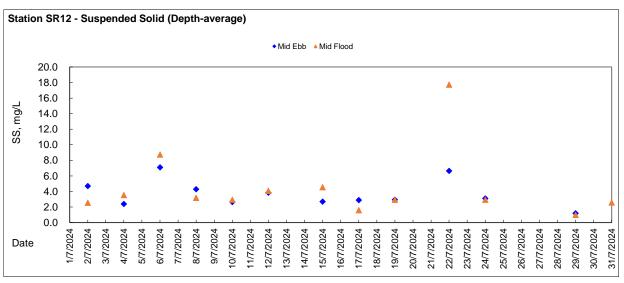




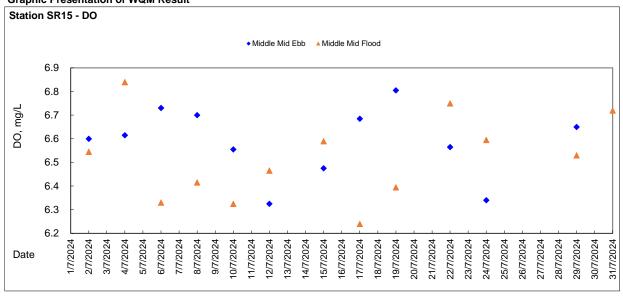


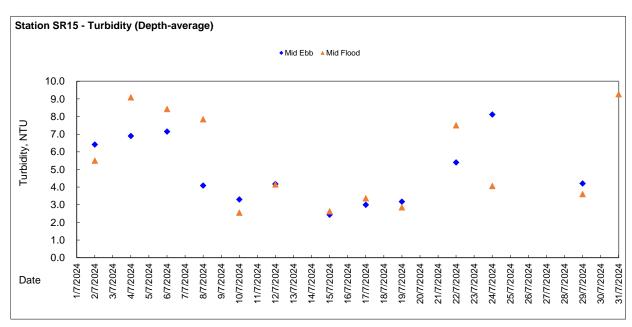


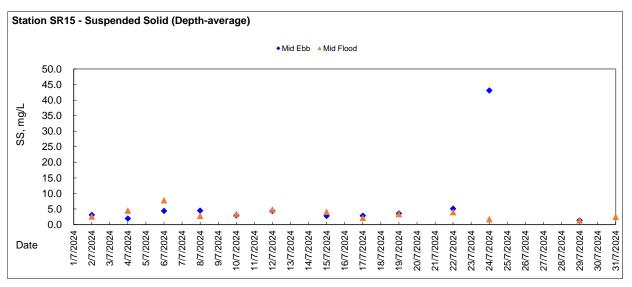












Impact Water Quality Monitoring at Station SR4 (surface) - Ebb Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation		00	Turl	bidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			P	pt		%		g/L	N'	TU		ıg/L
	Duto		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:09	3.9	1.0	27.10	27.10	8.15	8.16	14.51	14.51	83.50	82.85	6.37	6.32	5.98	6.18	2.4	2.3
	2772024	Oloudy	9:10	3.9	1.0	27.10	27.10	8.16	0.10	14.50	14.01	82.20	02.00	6.27	0.02	6.37	0.10	2.1	
	4/7/2024	Cloudy	10:54	3.8	1.0	27.00	27.05	8.60	8.61	13.11	13.08	89.00	90.35	6.57	6.67	7.49	7.35	3.3	
		,	10:55	3.8	1.0	27.10		8.61		13.04		91.70		6.77		7.21		3.2	
	6/7/2024	Cloudy	12:00	3.8	1.0	25.90	25.85	8.26	8.27	24.93	24.85	90.20	89.20	6.54	6.48	6.12	6.04	3.8	
			12:01	3.8	1.0	25.80		8.27		24.76		88.20		6.41		5.96		4.3	
	8/7/2024	Cloudy	14:15	4.0	1.0	27.80	27.75	8.45	8.46	20.41	20.32	86.80	86.50	6.59	6.58	5.02	5.22	2.6	
			14:16	4.0	1.0	27.70		8.46		20.22		86.20		6.57		5.42		2.9	
	10/7/2024	Fine	15:28	3.8	1.0	29.37	29.46	7.33	7.33	20.97	20.94	92.40	92.00	6.60	6.58	3.24	3.13	3.0	2.9
			15:29	3.8	1.0	29.54		7.32		20.90		91.60		6.55		3.01		2.7	
	12/7/2024	Cloudy	16:07	3.9	1.0	30.74	30.67	7.13	7.13	18.56	18.51	92.70	92.85	6.48	6.49	4.98	4.88	4.1 3.7	3.9
			16:08	3.9	1.0	30.59		7.13		18.46		93.00		6.49		4.77			
	15/7/2024	Fine	7:21	3.7	1.0	30.41	30.40	7.04	7.05	17.72	17.69	93.00	93.65	6.33	6.37	2.51	2.43	2.6	
SR4			7:22 9:13	3.7	1.0	30.38		7.05 7.01		17.65 19.99		94.30 96.80		6.41		2.34		2.4	
	17/7/2024	Cloudy	9:13	3.6	1.0	30.52	30.57	7.01	7.02	20.12	20.06	97.90	97.35	6.74	6.70	2.09	2.82	2.0	
			10:07	3.5	1.0	29.73		6.97		24.13		99.20		6.88		2.95		3.7	
	19/7/2024	Cloudy	10:07	3.5	1.0	29.73	29.69	6.96	6.97	23.99	24.06	100.50	99.85	6.95	6.92	2.25	2.41	3.4	3.6
			12:25	3.6	1.0	28.31		6.96		28.73		90.40		6.67		4.62		4.7	-
	22/7/2024	Cloudy	12:26	3.6	1.0	28.28	28.30	6.97	6.97	28.63	28.68	91.70	91.05	6.77	6.72	4.41	4.52	4.5	4.6
			14:44	3.3	1.0	30.41		7.00		29.37		97.50		6.67		7.25		5.1	
	24/7/2024	Cloudy	14:45	3.3	1.0	30.59	30.50	7.01	7.01	29.22	29.30	98.00	97.75	6.69	6.68	7.14	7.20	4.4	4.8
		Strong																	-
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	00770004		7:09	3.5	1.0	27.89	27.80	6.92	6.92	25.57	25.68	86.60	86.95	6.44	6.46	2.62	2.82	<1.0	1.0
	29/7/2024	Cloudy	7:10	3.5	1.0	27.71	27.80	6.92	6.92	25.79	25.68	87.30	86.95	6.48	6.46	3.01	2.82	<1.0	1.0
	31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	er			•		•	

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 (surface) - Flood Tide

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	16:13	3.3	1.0	27.30	27.30	8.28	8.28	15.14	15.13	86.30	85.20	6.44	6.36	4.24	4.34	2.8	2.7
		,	16:14	3.3	1.0	27.30		8.28		15.11		84.10		6.28	0.00	4.44		2.5	
	4/7/2024	Cloudy	18:39	3.2	1.0	27.10	27.15	8.52	8.53	13.19	13.18	90.00	89.20	6.73	6.67	6.99	6.92	3.6	
		,	18:40	3.2	1.0	27.20		8.53	0.00	13.17	10110	88.40		6.61	0.0.	6.84		3.4	_
	6/7/2024	Cloudy	18:31	3.2	1.0	25.30	25.30	8.10	8.10	22.47	22.42	85.90	85.35	6.23	6.19	6.37	6.30	8.1	
		,	18:32	3.2	1.0	25.30		8.09		22.36		84.80		6.15		6.23		7.2	
	8/7/2024	Cloudy	7:17	3.3	1.0	27.00	27.10	8.35	8.35	17.98	18.12	88.60	89.35	6.39	6.44	6.32	6.53	3.4	
		,	7:18	3.3	1.0	27.20		8.35	0.00	18.25		90.10		6.48		6.74		9.9	
	10/7/2024	Cloudy	8:05	3.5	1.0	28.80	28.77	7.31	7.31	21.70	21.66	89.80	90.15	6.31	6.34	3.64	3.57	3.9	
			8:06	3.5	1.0	28.74		7.30		21.62		90.50		6.36		3.49		3.8	
	12/7/2024	Cloudy	9:00	3.7	1.0	30.24	30.17	7.13	7.13	18.73	18.66	89.10	88.70	6.37	6.29	3.60	3.47	3.4	
			9:01	3.7	1.0	30.10		7.12		18.59		88.30		6.21		3.34		4.8	
	15/7/2024	Fine	14:37	3.4	1.0	30.74	30.67	7.07	7.07	18.51	18.42	95.40	95.80	6.46	6.48	2.31	2.43	3.7	
SR4			14:38	3.4	1.0	30.59		7.06		18.33		96.20		6.50		2.54		3.2	
	17/7/2024	Cloudy	16:47	3.3	1.0	29.97	29.98	7.01	7.01	23.21	23.31	94.70	93.65	6.41	6.39	2.96	3.17	2.0	
			16:48	3.3	1.0	29.98		7.00		23.41		92.60		6.36		3.37		2.3	
	19/7/2024	Cloudy	18:31	3.2	1.0	29.25	29.21	6.97	6.98	23.14	23.08	92.20	92.05	6.52	6.51	3.42	3.27	4.3	
			18:32	3.2	1.0	29.17		6.98		23.02		91.90		6.50		3.11		3.8	
	22/7/2024	Cloudy	18:09	3.2	1.0	27.94	27.88	7.01	7.01	29.15	29.08	86.70	86.65	6.36	6.36	5.12	4.91	3.5	
			18:10	3.2	1.0	27.81		7.01		29.01		86.60		6.36		4.70		3.3	
	24/7/2024	Cloudy	7:31	3.6	1.0	29.90	29.82	7.00	7.01	29.48	29.43	96.20	95.40	6.79	6.75	4.00	3.99	2.6	
		Strong	7:32	3.6	1.0	29.73		7.01		29.37		94.60		6.71		3.98		2.8	ـــــ
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	29/7/2024	Cloudy	13:41	3.2	1.0	27.25	27.28	6.95	6.95	28.73	28.68	90.60	89.90	6.56	6.53	3.19	3.41	1.7	
			13:42	3.2	1.0	27.30		6.95		28.62		89.20		6.50		3.62		1.8	1
	31/7/2024	Cloudy	17:02 17:03	3.6	1.0	28.20	28.26	6.92	6.92	28.64	28.58	97.00 95.40	96.20	6.58	6.50	7.72 7.58	7.65	4.1	4.0

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	inity	DO Sa	turation		00	Turl	bidity	5	S
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			р	pt		%	m	g/L	N'	TU		g/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:11	3.9	2.9	27.00	26.95	8.14	8.14	14.73	14.66	86.50	87.70	6.61	6.70	5.73	5.64	2.8	2.7
	2/1/2024	Cioudy	9:12	3.9	2.9	26.90	20.55	8.14	0.14	14.59	14.00	88.90	07.70	6.79	0.70	5.54	3.04	2.5	2
	4/7/2024	Cloudy	10:56	3.8	2.8	27.20	27 25	8.56	8.55	13.36	13.46	88.00	87 10	6.49	6.44	6.98	7 12	3.7	3.3
	4///2024	Oloudy	10:57	3.8	2.8	27.30	27.20	8.54	0.00	13.56	10.40	86.20	07.10	6.38	0.44	7.25	7.12	2.9	
	6/7/2024	Cloudy	12:02	3.8	2.8	25.40	25.40	8.20	8 19	25.28	25.19	90.70	90.10	6.50	6.46	7.12	7.31	3.6	3.4
	0772024	Oloudy	12:03	3.8	2.8	25.40	20.40	8.18	0.10	25.09	20.10	89.50	50.10	6.41	0.40	7.49	7.01	3.1	
	8/7/2024	Cloudy	14:18	3.8	2.8	27.20	27 10	8.35	8.36	21.98	22.06	83.90	84 35	6.35	6.38	6.12	5 99	2.9	3.3
		,	14:19	4.0	3.0	27.00		8.36	0.00	22.14		84.80		6.41		5.86		3.7	
	10/7/2024	Fine	15:30	3.8	2.8	29.29	29.30	7.31	7.31	22.64	22.54	91.30	90.90	6.52	6.50	2.94	2.85	3.3	3.2
			15:31	3.8	2.8	29.30		7.31		22.43		90.50		6.47		2.76		3.0	
	12/7/2024	Cloudy	16:09	3.9	2.9	30.69	30.82	7.12	7.12	18.34	18.54	97.20	97.30	6.77	6.78	5.23	5.33	4.4	5.2
			16:10	3.9	2.9	30.94		7.12		18.74		97.40		6.79		5.42		5.9	
	15/7/2024	Fine	7:23	3.6	2.7	30.38	30.45	7.04	7.04	18.88	18.90	95.80	96.55	6.79	6.83	2.25	2.31	2.9	3.2
SR4			7:24	3.7	2.7	30.51		7.04		18.91		97.30		6.86		2.37		3.4	
	17/7/2024	Cloudy	9:15	3.6	2.6	30.61	30.58	7.00	7.00	20.13	20.08	90.60	91.15	6.30	6.33	3.41	3.29	2.2	2.3
			9:16	3.6	2.6	30.55		6.99		20.02		91.70		6.36		3.16		2.4	
	19/7/2024	Cloudy	10:09	3.5	2.5	29.32	29.37	6.93	6.94	24.57	24.66	95.50	95.75	6.61	6.64	2.60	2.71	3.6	3.9
		-	10:10	3.5	2.5	29.41		6.94		24.74		96.00		6.67		2.81		4.1	
	22/7/2024	Cloudy	12:27	3.6	2.6	28.31	28.37	6.98	6.98	28.02	28.12	90.80	90.30	6.69	6.66	3.40	3.56	3.2	3.4
		-	12:28	3.6	2.6	28.42		6.97		28.21		89.80		6.63		3.71		3.6	
	24/7/2024	Cloudy	14:46	3.3	2.3	30.42	30.37	7.01	7.01	29.27	29.22	96.60	97.25	6.58	6.63	6.37	6.33	10.2	26.4
		Strong	14:47	3.3	2.3	30.31		7.01		29.16		97.90		6.68		6.28		42.6	
	26/7/2024	Monsoon							WQM	was cancell	ed due to ad	verse weath	er						
		Signal	7:11	3.5	2.5	27.49		6.92		28.29		90.70	ı	6.64		3.94	ı	1.6	ı
	29/7/2024	Cloudy	7:11	3.5	2.5	27.49	27.57	6.92	6.93	28.29	28.21	89.70	89.95	6.60	6.62	3.94	3.89	1.6	1.7
		Amber Rain	1.12	3.5	2.5	27.64	l	6.93	l				l	6.60	l	3.83	l	1.8	l
	31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	er						

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

Station Reference	Sampling	141 -1	Sampling	Water Depth	Sampling Depth		erature	р	Н		linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time				С				pt		%		g/L		TU		ng/L
				m	m	Value	AVG		AVG		AVG		AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	16:15	3.3	2.3	27.30	27.25	8.29	8.29	15.37	15.24	84.40	84.10	6.31	6.29	5.19	5.30	3.1	
		-	16:16	3.3	2.3	27.20		8.28		15.10		83.80		6.26		5.40		3.6	_
	4/7/2024	Cloudy	18:41	3.2	2.2	27.40	27.35	8.56	8.55	12.71	12.82	93.00	92.35	6.88	6.83	7.49	7.69	1.1	
		,	18:42	3.2	2.2	27.30		8.54		12.93		91.70		6.77		7.88		1.6	_
	6/7/2024	Cloudy	18:33	3.2	2.2	25.20	25.20	8.11	8.12	22.53	22.67	88.20	87.75	6.39	6.37	7.86	7.94	8.3	
			18:34	3.2	2.2	25.20		8.13		22.80		87.30		6.34		8.01		5.0	
	8/7/2024	Cloudy	7:19	3.3	2.3	26.50	26.55	8.14	8.13	24.14	24.05	90.20	89.45	6.49	6.46	5.67	5.48	4.4	
		,	7:20	3.3	2.3	26.60		8.12		23.95		88.70		6.43		5.29		4.8	
	10/7/2024	Cloudy	8:07	3.5	2.5	28.37	28 40	7.33	7.33	23.99	23.93	92.00	91.85	6.49	6.47	3.33	3 44	4.4	
		,	8:08	3.5	2.5	28.43		7.32		23.87		91.70		6.45		3.54		4.7	
	12/7/2024	Cloudy	9:02	3.7	2.7	29.51	29.43	7.13	7.13	23.11	23.02	82.80	82.95	6.16	6 19	3.51	3.46	6.2	
		,	9:03	3.7	2.7	29.34		7.12		22.93		83.10		6.22		3.41		5.2	-
	15/7/2024	Fine	14:39	3.4	2.4	30.35	30.38	7.05	7.05	18.59	18.66	97.20	96.65	6.58	6.54	3.24	3.13	4.3	4.
SR4	10/7/2024	1110	14:40	3.4	2.4	30.40	00.00	7.04	7.00	18.73	10.00	96.10	50.00	6.49	0.04	3.01	0.10	3.8	
0114	17/7/2024	Cloudy	16:49	3.3	2.3	29.73	29.67	7.02	7.02	24.51	24.48	91.60	91.05	6.66	6.63	2.98	2.83	2.5	2.1
	111112024	Cioday	16:50	3.3	2.3	29.61	20.07	7.01	7.02	24.45	24.40	90.50	01.00	6.60	0.00	2.67	2.00	3.0	2
	19/7/2024	Cloudy	18:33	3.2	2.2	29.37	29.31	6.96	6.97	27.12	27 24	94.80	93.90	6.77	6.68	3.47	3.52	7.5	5.6
	18/7/2024	Cloudy	18:34	3.2	2.2	29.24	25.51	6.97	0.51	27.35	21.24	93.00	55.50	6.59	0.00	3.56	3.32	3.6	0.0
	22/7/2024	Cloudy	18:11	3.2	2.2	27.77	27.81	6.99	7.00	28.95	28.90	89.40	89.00	6.63	6.59	6.07	6 17	4.1	4.3
	22/1/2024	Cioudy	18:12	3.2	2.2	27.84	27.01	7.00	7.00	28.84	20.50	88.60	05.00	6.55	0.55	6.27	0.17	4.5	1
	24/7/2024	Cloudy	7:33	3.6	2.6	29.69	29.76	7.00	7.01	29.09	29.14	91.90	92.90	6.41	6.48	4.25	4.06	3.0	2.7
	24/1/2024		7:34	3.6	2.6	29.82	29.76	7.01	7.01	29.19	29.14	93.90	92.90	6.55	0.40	3.87	4.06	2.4	1 2
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						-
	29/7/2024	Cloudy	13:43	3.2	2.2	27.27	27.26	6.96	6.96	29.08	29.14	88.80	88.30	6.40	6.38	4.51	4.30	2.8	2.
	29///2024	Cidudy	13:44	3.2	2.2	27.25	27.26	6.95	6.96	29.19	29.14	87.80	68.30	6.36	6.38	4.08	4.30	2.5] -
	31/7/2024	Cloudy	17:04	3.6	2.6	28.20	28.17	6.93	6.93	28.71	28.83	89.10	89.35	6.51	6.53	6.36	6.39	3.0	3.4
	31/1/2024	Ciduay	17:05	3.6	2.6	28.14	28.17	6.92	6.93	28.95	28.83	89.60	69.35	6.55	6.53	6.42	6.39	3.8	. 1 3.

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

Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	D	00	Turl	bidity		SS
	Weather		Depth	Depth	٩	С			р	pt		%	m	g/L	N'	TU	m	ıg/L
Bato		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
2/7/2024	Cloudy	9:19	4.2	1.0	27.30	27.25	8.14	8 15	14.94	14.83	85.50	86.25	6.41	6.46	7.01	6 94	3.0	
2772024	Cioday	9:20	4.2	1.0	27.20	27.20		0.10	14.72	14.00		00.20		0.40		0.04		
4/7/2024	Cloudy	11:03		1.0	27.30	27.30		8 59	13.09	13.05		89.60		6.62		5.73		
	,													0.02			3.9	
6/7/2024	Cloudy					25.35		8 18		25.41		87.00		6.34		5.43		
	,	12:11			25.30		8.17		25.39									
8/7/2024	Cloudy	15:11	4.3	1.0	28.20	28 10	8.54	8.54	20.25	20 17		85.65		6.42		7 13		
	,	14:06	4.4	1.0					20.09					0				
10/7/2024	Fine					29.67		7.33		21.57		93.80		6.40		2.91		3.1
12/7/2024	Cloudy					30.47		7.14		19.48		96.20		6.73		4.98		52.2
15/7/2024	Fine	_				30.62		7.05		17.90		92.10		6.50		3.44		
17/7/2024	Cloudy					30.93		6.98		19.37		92.85		6.36		3.91		2.8
							0.00				02							
19/7/2024	Cloudy					29.48		6.96		24.58		96.95		6.78		3.05		3.1
22/7/2024	Cloudy					28.30		6.98		28.07		89.35		6.64		3.73		
24/7/2024	Cloudy	_				30.28		7.01		29.41		94.10		6.53		7.89		
	Strong	14:35	3.8	1.0	30.29		7.00		29.51		94.20		6.53		7.95		8.4	
26/7/2024	Monsoon							WQM	was cancell	ed due to ad	verse weath	er						
	Signal																	
29/7/2024	Cloudy	_				27.48		6.92		27.36		89.95		6.62		3.27		
	A	7:20	3.9	1.0	27.40		6.92		27.45		90.50		6.63		3.17		2.3	l
31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	ier						
	12/7/2024 15/7/2024 17/7/2024 19/7/2024 22/7/2024 24/7/2024 26/7/2024 29/7/2024	Date Weather 27/2024 Cloudy 47/2024 Cloudy 67/2024 Cloudy 67/2024 Cloudy 10/7/2024 Fine 12/7/2024 Fine 12/7/2024 Cloudy 15/7/2024 Cloudy 19/7/2024 Cloudy 22/7/2024 Cloudy 24/7/2024 Cloudy	Date Weather Time 27/2024 Cloudy 9:19 9:20 4/7/2024 Cloudy 11:03 9:20 4/7/2024 Cloudy 11:03 1:21:0 8/7/2024 Cloudy 12:10 1:51:1 10/7/2024 Fine 15:11 1:51:1 15/7/2024 Fine 7:31 15:56 15:57 15:57 15:57 15:57 7:32 17:7/2024 15/7/2024 Fine 7:31 7:32 7:31 15:7/2024 10:16 10:16 10:17 10	Sampling Date Depth Depth Date	Sampling Date Depth Depth Depth Time m m m	Sampling Depth D	Sampling Date Depth Time Depth Time Time	Sampling Date Depth Depth Peth Pet	Sampling Date Depth Depth Time m Value AVG Value AVG	Sampling Date Weather Date Sampling Date Depth Time □ C	Sampling Date Depth Depth Time m walue AVG Value AVG	Sampling Date Depth Depth Per Per Depth Per Per	Sampling Date Depth Depth Time m Walue AVG Value AVG	Sampling Date Depth Depth Sec Dept	Sampling Date Time Time	Sampling Date Depth Depth Perm Name Nam	Sampling Date Depth Depth Fire Time Depth Depth Depth Page AVG AVG	Sampling Date Depth Depth Depth Term m m Value AVG V

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	Н	Sal	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
	2/7/2024	Cloudy	16:05	3.7	1.0	27.00	27.05	8.28	8 28	15.44	15.33	84.80	84.35	6.36	6.34	5.67	5.76	3.1	
		,	16:06	3.7	1.0	27.10		8.27	0.20	15.21	10.00	83.90		6.31	0.0.	5.84		2.6	
	4/7/2024	Cloudy	18:30	3.6	1.0	26.40	26.35	8.13	8.14	22.17	22.13	90.60	90.95	6.69	6.71	6.73	6.49	3.7	
			18:31	3.6	1.0	26.30		8.14		22.09		91.30		6.73		6.24		2.3	
	6/7/2024	Cloudy	18:21	3.7	1.0	24.90	24.95	8.09	8.09	22.14	22.26	94.10	94.75	6.69	6.72	6.24	6.39	7.5	
		,	18:22	3.7	1.0	25.00		8.09		22.37		95.40		6.74		6.54		6.7	_
	8/7/2024	Cloudy	7:26	3.8	1.0	27.00	27.00	8.33	8.34	18.43	18.49	90.70	90.65	6.61	6.61	7.77	7.90	4.1	
			7:27	3.8	1.0	27.00		8.35		18.54		90.60		6.60		8.02		3.4	
	10/7/2024	Cloudy	8:14	3.8	1.0	28.72	28.69	7.32	7.32	22.25	22.12	94.60	94.15	6.56	6.53	3.47	3.35	4.2	
			8:15	3.8	1.0	28.65		7.32		21.99		93.70		6.50		3.22		4.2	
	12/7/2024	Cloudy	9:09	3.9	1.0	29.92	30.03	7.14	7.15	19.50	19.62	92.70	92.35	6.81	6.78	3.72	3.87	4.0	
		,	9:10	3.9	1.0	30.13		7.15		19.74		92.00		6.75		4.02		5.2	
	15/7/2024	Fine	14:27	3.6	1.0	30.62	30.58	7.04	7.04	18.21	18.18	94.90	95.15	6.60	6.62	2.80	2.96	3.2	
SR5			14:28	3.6	1.0	30.53		7.04		18.15		95.40		6.63		3.12		3.4	
	17/7/2024	Cloudy	16:38	3.7	1.0	30.12	30.01	7.02	7.02	23.12	23.04	88.90	89.70	6.44	6.46	3.72	3.83	2.5	
		,	16:39	3.7	1.0	29.90		7.02		22.96		90.50		6.48		3.94		2.2	
	19/7/2024	Cloudy	18:22	3.5	1.0	29.10	29.23	6.96	6.96	25.04	25.14	94.50	93.85	6.53	6.50	3.61	3.74	3.0	
		-	18:23	3.5	1.0	29.36		6.96		25.24		93.20		6.46		3.86		3.4	
	22/7/2024	Cloudy	17:58	3.5	1.0	27.75	27.85	7.00	7.01	28.74	28.79	87.50	88.45	6.44	6.50	5.42	5.53	4.7	
			17:59	3.5	1.0	27.95		7.01		28.84		89.40		6.56		5.64		4.9	
	24/7/2024	Cloudy	7:40	4.2	1.0	29.96	29.93	7.00	7.00	29.10	29.11	97.30	97.25	6.59	6.59	4.83	4.90	2.7	
		Strong	7:41	4.2	1.0	29.90		7.00		29.12		97.20		6.58		4.97		2.3	<u> </u>
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	29/7/2024	Cloudy	13:30	3.5	1.0	27.12	27.15	6.94	6.94	28.86	28.82	87.00	86.70	6.57	6.56	4.73	4.61	1.9	1.9
	23772024	Sibudy	13:31	3.5	1.0	27.17	27.13	6.94	0.54	28.77	20.02	86.40	30.70	6.55	0.50	4.48	4.01	1.8	1.5
	31/7/2024	Cloudy	16:54 16:55	3.9	1.0	28.25 28.41	28.33	6.92 6.92	6.92	28.73 28.56	28.65	87.20 89.80	88.50	6.38	6.39	9.23	9.15	4.5 3.8	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	0	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	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
	2/7/2024	Cloudy	9:22	4.2	3.2	26.90	26.90	8.11	8.12	15.13	15.03	87.10	86.20	6.57	6.53	7.12	7.29	5.9	10.9
	2/1/2024	Cioddy	9:23	4.2	3.2	26.90	20.50	8.13	0.12	14.92	13.03	85.30	00.20	6.49	0.55	7.46	1.20	15.8	10.5
	4/7/2024	Cloudy	11:06	4.2	3.2	26.00	26.00	8.02	8.01	22.47	22 41	89.60	88.45	6.63	6.54	4.84	4 99	5.7	4.9
	4772024	Oloudy	11:07	4.2	3.2	26.00	20.00	8.00	0.01	22.35	22.41	87.30	00.40	6.44	0.04	5.13	4.55	4.0	
	6/7/2024	Cloudy	12:13	4.2	3.2	25.10	25.15	8.19	8 19	25.45	25.39	88.80	89.10	6.46	6.48	5.09	5.34	3.5	
	0772024	Oloudy	12:14	4.2	3.2	25.20	20.10	8.19	0.10	25.33	20.00	89.40	00.10	6.50	0.40	5.58	0.04	3.5	
	8/7/2024	Cloudy	14:08	4.4	3.4	27.50	27.45	8.35	8.36	22.03	22.14	84.60	84.20	6.33	6.31	6.43	6.28	3.9	
		,	14:09	4.4	3.4	27.40		8.37		22.24		83.80		6.28		6.13		4.4	
	10/7/2024	Fine	15:14	4.3	3.3	29.00	29.05	7.29	7.30	24.24	24.15	92.10	92.35	6.25	6.27	2.94	2.77	2.7	
			15:15	4.3	3.3	29.09		7.30		24.05		92.60		6.29		2.60		3.4	
	12/7/2024	Cloudy	15:59	4.2	3.2	30.01	29.93	7.14	7.13	22.51	22.46	92.30	92.50	6.41	6.42	5.38	5.53	7.6	8.4
		-	16:00	4.2	3.0	29.85		7.12		22.40		92.70		6.43		5.67		9.1	
	15/7/2024	Fine	7:34	4.0	3.0	30.37	30.31	7.05	7.05	19.09	19.23	90.50	89.60	6.35	6.30	3.54	3.63	3.9	
SR5			7:35	4.0	3.0	30.24		7.05		19.37		88.70		6.24		3.71		3.6	
	17/7/2024	Cloudy	9:26	4.0	3.0	30.98	31.05	6.99	6.99	19.90	20.02	98.20	97.30	6.58	6.54	3.52	3.66	2.9	
			9:27	4.0 3.9	3.0	31.12		6.98		20.14		96.40 93.40		6.49		3.79 2.57		3.1 10.8	
	19/7/2024	Cloudy	10:18	3.9	2.9	29.39	29.40	6.96 6.96	6.96	24.20	24.25	93.40	93.30	6.57	6.58	2.57	2.71	10.8	
					-														
	22/7/2024	Cloudy	12:42	4.1	3.1	28.17	28.25	6.70	6.69	27.88 27.95	27.92	88.80 87.80	88.30	6.61	6.57	5.31 5.95	5.63	5.2	
			14:36	3.8	2.8	30.25		7.01		29.73		92.40		6.36		8.42		8.6	
	24/7/2024	Cloudy	14:37	3.8	2.8	30.10	30.18	7.01	7.01	29.61	29.67	91.40	91.90	6.29	6.33	8.25	8.34	15.6	
		Strong	14.37	3.0	2.0	30.10		7.01						0.23		0.23		13.0	1
	26/7/2024	Monsoon							WQM	was cancell	ed due to ad	verse weath	er						
		Signal	7:21	3.9	2.9	27.35		6.91		28.13		84.50		6.59		3.91		1.9	
	29/7/2024	Cloudy	7:22	3.9	2.9	27.60	27.48	6.92	6.92	28.08	28.11	84.40	84.45	6.58	6.59	4.24	4.08	1.6	
	31/7/2024	Amber Rain Storm			1		ı		WQM	was cancell	ed due to ad	verse weath	er		ı		1	1	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

	Sampling		Sampling	Water	Sampling	Temp	erature	р	Н	Sal	inity	DO Sa	turation		0	Turi	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m		N'	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	16:07	3.7	2.7	27.10	27.15	8.27	8.27	15.59	15.46	85.60	86.55	6.39	6.44	6.12	6.01	2.5	2.4
	2772024	Oloudy	16:08	3.7	2.7	27.20	27.10	8.27	0.27	15.33	10.40	87.50	00.00	6.49	0.44	5.89	0.01	2.2	2
	4/7/2024	Cloudy	18:32	3.6	2.6	26.20	26 10	8.12	8.11	22.52	22 46	89.80	90.15	6.62	6.65	4.25	4 49	4.0	2.9
	4772024	Oloudy	18:33	3.6	2.6	26.00	20.10	8.10	0.11	22.40	22.40	90.50	00.10	6.67	0.00	4.72	4.40	1.8	
	6/7/2024	Cloudy	18:23	3.7	2.7	25.10	25.05	8.11	8 11	22.08	22.09	90.90	89.50	6.45	6.42	6.24	6 10	6.6	7.3
	0//2024	Oloudy	18:24	3.7	2.7	25.00	20.00	8.10	0.11	22.10	22.00	88.10	05.00	6.38	0.42	5.96	0.10	8.0	
	8/7/2024	Cloudy	7:28	3.8	2.8	27.10	27.15	8.30	8.31	20.93	20.84	89.10	88.15	6.47	6.41	7.04	7 19	2.0	
	G/7/2024	Oloudy	7:29	3.8	2.8	27.20	27.10	8.31	0.01	20.74	20.04	87.20	00.10	6.34	0.41	7.34	7.10	4.1	
	10/7/2024	Cloudy	8:16	3.8	2.8	28.36	28.32	7.30	7.31	23.84	23.73	94.40	93.90	6.60	6.58	3.02	3 22	3.8	
		,	8:17	3.8	2.8	28.28		7.31		23.62		93.40		6.55		3.42		3.2	
	12/7/2024	Cloudy	9:11	3.9	2.9	29.41	29.30	7.14	7 14	23.84	23.75	92.20	91.60	6.86	6.81	3.44	3 29	4.5	
		,	9:12	3.9	2.9	29.18		7.13		23.65		91.00		6.75	•	3.13		4.3	
	15/7/2024	Fine	14:29	3.6	2.6	30.51	30.46	7.06	7.06	19.02	18.96	94.40	93.35	6.53	6.48	3.14	3.04	4.2	
SR5			14:30	3.6	2.6	30.40		7.05		18.90	10.00	92.30		6.42		2.94		4.0	
	17/7/2024	Cloudy	16:40	3.7	2.7	29.70	29.76	7.01	7.02	24.87	24.91	91.40	91.95	6.53	6.55	2.95	2.61	3.1	
		,	16:41	3.7	2.7	29.81		7.02		24.95		92.50		6.57		2.27		3.6	
	19/7/2024	Cloudy	18:24	3.5	2.5	29.13	29.08	6.96	6.97	26.79	26.74	88.90	88.20	6.54	6.51	4.01	3.91	4.8	
		,	18:25	3.5	2.5	29.02		6.97		26.68		87.50	00.20	6.48		3.81		7.9	
	22/7/2024	Cloudy	18:00	3.5	2.5	27.83	27.79	7.00	7.00	28.96	29.04	92.40	91.95	6.67	6.65	5.82	5.70	4.2	
		,	18:01	3.5	2.5	27.74		7.00		29.12		91.50		6.62		5.57		3.8	
	24/7/2024	Cloudy	7:43	4.2	3.2	29.91	29.92	7.01	7.01	29.09	29.10	95.40	95.55	6.25	6.27	4.43	4.31	2.4	
			7:44	4.2	3.2	29.93		7.01		29.10		95.70		6.28		4.18		2.6	
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	13:32	3.5	2.5	27.20	27.18	6.95	6.95	28.97	28.98	86.60	87.90	6.63	6.67	4.33	4.42	2.5	2.3
	20/1/2024	Gioudy	13:33	3.5	2.5	27.16	27.10	6.95	6.95	28.98	20.90	89.20	37.90	6.70	0.07	4.50	4.42	2.1	2.3
	31/7/2024	Cloudy	16:56	3.9	2.9	28.08	28.10	6.92	6.92	28.04	28.14	94.50	95.45	6.44	6.49	6.97	7.11	4.2	
	31/1/2024	Gioudy	16:57	3.9	2.9	28.12	20.10	6.91	0.92	28.24	20.14	96.40	35.45	6.53	6.49	7.25	7.11	5.2	4.7

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sal	linity	DO Sa	turation	0	00	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			р	pt		%	m	g/L	N'	TU	m	ıg/L
	Date		Tille	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:28	2.8	1.4	26.70	26.75	8.14	8.15	14.13	14.09	82.40	83.60	6.23	6.33	7.62	7.37	4.2	4.5
	2/1/2024	Cioudy	9:29	2.8	1.4	26.80	20.73	8.15	0.13	14.05	14.05	84.80	03.00	6.43	0.55	7.12	7.37	4.8	4.0
	4/7/2024	Cloudy	11:14	2.7	1.4	26.50	26 60	8.32	8.32	16.89	16.83	86.70	86.55	6.36	6.36	7.89	7 69	2.7	
	4772024	Oloudy	11:15	2.7	1.4	26.70	20.00	8.32	0.02	16.77	10.00	86.40	00.00	6.35	0.00	7.49	7.00	2.8	
	6/7/2024	Cloudy	12:19	2.7	1.4	24.90	24.95	8.17	8 19	25.24	25.13	86.00	85.70	6.26	6.20	7.43	7.72	4.3	4.4
	0772024	Oloudy	12:20	2.7	1.4	25.00	24.00	8.20	0.10	25.01	20.10	85.40	00.70	6.14	0.10	8.01	7.72	4.4	
	8/7/2024	Cloudy	13:54	2.9	1.5	28.10	28.05	8.55	8.54	20.37	20.19	85.00	85.65	6.17	6.20	7.23	7.05	2.7	2.9
		,	13:55	2.9	1.5	28.00		8.53		20.00		86.30		6.23		6.87		3.0	
	10/7/2024	Fine	15:08	2.7	1.4	29.58	29.66	7.32	7.33	21.34	21.45	94.30	94.25	6.44	6.44	2.73	2.87	3.0	3.1
			15:09	2.7	1.4	29.73		7.33		21.56		94.20		6.43		3.01		3.1	
	12/7/2024	Cloudy	15:47	2.7	1.4	30.37	30.66	7.10	7.10	18.61	18.71	93.10	92.50	6.43	6.41	5.94	5.64	22.3	
		-	15:48	2.7	1.3	30.94		7.10		18.80		91.90		6.38		5.33		6.6	
SR6	15/7/2024	Fine	7:41	2.6	1.3	30.16	30.22	7.04	7.05	19.00	18.95	95.80	94.65	6.53	6.50	2.67	2.50	3.4	3.2
			7:42	2.5	1.3	30.27		7.05		18.89		93.50		6.46		2.32		3.0	
	17/7/2024	Cloudy	9:34	2.6	1.3	31.12	31.05	6.71	6.71	20.21	20.16	96.90	97.10	6.52	6.56	4.56	4.34	2.8	
			9:35 10:27	2.6	1.3	30.97 29.37		6.70 6.97		20.10		97.30 90.40		6.59		4.12 3.01		2.6	
	19/7/2024	Cloudy	10:27	2.6	1.3	29.37	29.26	6.96	6.97	25.10	24.97	88.70	89.55	6.12	6.19	2.73	2.87	4.9	
			10:28	2.6	1.3	29.14		6.69		24.83		88.70		6.49		4.61		4.9	
	22/7/2024	Cloudy	12:49	2.7	1.4	29.01	28.89	6.71	6.70	28.24	28.18	86.00	87.10	6.38	6.44	4.61	4.51	4.5	
			14:25	2.5	1.3	30.23		7.02		28.90		96.80		6.58		7.43		40.4	
	24/7/2024	Cloudy	14:26	2.5	1.3	30.23	30.22	7.02	7.02	28.99	28.95	96.40	96.60	6.56	6.57	7.62	7.53	14.8	12.6
		Strong	14.20	2.0	1.5	30.21	l	7.02			l			0.50	l	7.02	l	14.0	1
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
			7:30	2.6	1.3	27.34		6.90		28.49		85.20		6.36		3.49		2.6	
	29/7/2024	Cloudy	7:31	2.6	1.3	27.24	27.29	6.90	6.90	28.20	28.35	85.50	85.35	6.37	6.37	3.27	3.38	2.3	
	31/7/2024	Amber Rain Storm					,		WQM	was cancell	ed due to ad	verse weath	er		,		•		•

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature	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	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	15:55	2.3	1.2	27.10	27.05	8.30	8.30	15.24	15.13	82.40	82.90	6.15	6 19	6.67	6.55	3.4	3.1
	2772024	Oloudy	15:56	2.3	1.2	27.00	27.00	8.29	0.00	15.02	10.10	83.40	02.50	6.22	0.10	6.43	0.00	2.8	0.1
	4/7/2024	Cloudy	18:21	2.2	1.1	25.70	25.75	8.09	8.09	22.76	22 67	87.60	86.85	6.53	6.49	5.98	6.12	1.8	
	4772024	Oloudy	18:22	2.2	1.1	25.80	20.70	8.08	0.00	22.58	22.07	86.10	00.00	6.44	0.40	6.25	0.12	3.6	
	6/7/2024	Cloudy	18:10	2.2	1.1	24.80	24 85	8.15	8 14	21.13	21 00	86.20	85.35	6.22	616	8.12	8.06	6.8	6.0
	0//2024	Oloudy	18:11	2.2	1.1	24.90	24.00	8.13	0.14	20.87	21.00	84.50	00.00	6.10	0.10	7.99	0.00	5.1	
	8/7/2024	Cloudy	7:36	2.5	1.3	26.70	26.80	8.37	8.36	18.86	18.91	87.00	86.80	6.42	6.39	6.90	6.95	3.1	
	G/7/2024	Oloudy	7:37	2.5	1.3	26.90	20.00	8.35	0.00	18.96	10.51	86.60	00.00	6.35	0.00	6.99	0.00	3.4	
	10/7/2024	Cloudy	8:24	2.5	1.3	28.09	28 13	7.28	7 29	24.01	23.92	100.60	101.05	6.97	7.00	4.01	3.77	3.9	3.7
	10/1/2024	Oloudy	8:25	2.5	1.3	28.16	20.10	7.29	7.20	23.82	20.02	101.50	101.00	7.02	7.00	3.52	0.77	3.5	
	12/7/2024	Cloudy	9:20	2.5	1.3	29.82	29.92	7.15	7 15	20.26	20.39	93.80	92.60	6.28	6.23	4.38	4 49	3.8	
		,	9:21	2.5	1.3	30.02		7.14		20.52		91.40		6.18	0.20	4.59		4.9	
SR6	15/7/2024	Fine	14:16	2.3	1.2	30.78	30.85	7.06	7.06	18.08	18.15	91.00	91.55	6.28	6.34	3.41	3.36	3.2	
SINO			14:17	2.3	1.2	30.92		7.06		18.21		92.10		6.40		3.30		3.3	
	17/7/2024	Cloudy	16:28	2.3	1.2	29.41	29.39	6.98	6.99	23.24	23.21	90.50	91.05	6.39	6.41	3.14	3.05	1.9	
		,	16:29	2.3	1.2	29.36		6.99		23.18		91.60		6.42		2.95		1.7	
	19/7/2024	Cloudy	18:10	2.3	1.2	28.61	28.59	6.98	6.98	26.18	26.09	90.80	91.50	6.25	6.31	3.19	3.04	3.4	3.2
	10/1/2024	Oloudy	18:11	2.3	1.2	28.57	20.00	6.98	0.50	26.00	20.00	92.20	01.00	6.36	0.01	2.89	0.04	2.9	
	22/7/2024	Cloudy	17:49	2.4	1.2	27.98	27.96	7.02	7.02	23.45	24.39	89.60	89.85	6.62	6.65	6.73	6.65	4.5	4.7
	ZZ///ZOZ-4	Oloudy	17:50	2.4	1.2	27.94	27.50	7.02	7.02	25.32	24.00	90.10	00.00	6.67	0.00	6.57	0.00	4.8	4.7
	24/7/2024	Cloudy	7:49	2.7	1.4	30.08	30.05	7.02	7.02	28.72	28.70	97.80	96.25	6.39	6.31	3.27	3.46	2.5	
	2-111202-4		7:50	2.7	1.4	30.01	00.00	7.01	7.02	28.67	20.70	94.70	00.20	6.22	0.01	3.64	0.40	2.3	
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	13:20	2.3	1.2	26.98	27.01	6.95	6.95	29.37	29.31	87.00	86.70	6.29	6.23	4.25	4.08	2.1	2.3
	29/1/2024	Cidudy	13:21	2.3	1.2	27.04	27.01	6.94	6.95	29.25	29.31	86.40	86.70	6.16	6.23	3.91	4.08	2.4	2.3
	31/7/2024	Cloudy	16:45	2.5	1.3	27.98	28.01	6.91	6.92	28.43	28.39	90.70	90.15	6.31	6.29	7.37	7.27	3.2	3.3
	31/1/2024	Cidudy	16:46	2.5	1.3	28.04	20.01	6.92	0.92	28.35	20.39	89.60	30.15	6.26	6.29	7.17	1.21	3.3	3.3

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

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation	0	00	Turl	bidity		SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С			Р	pt		%	m	g/L	N.	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:45	4.3	1.0	27.30	27.25	8.20	8.21	15.24	15 10	89.90	89.05	6.54	6.50	5.86	5.68	3.2	3.4
	2/1/2024	Cioudy	9:46	4.3	1.0	27.20	27.23	8.22	0.21	14.96	13.10	88.20	05.00	6.45	0.50	5.50	3.00	3.5	0.4
	4/7/2024	Cloudy	11:32	4.3	1.0	28.10	28.00	8.54	8.55	12.37	12.29	89.70	88 65	6.61	6.53	4.84	4 70	3.0	
	4772024	Gloudy	11:33	4.3	1.0	27.90	20.00	8.55	0.00	12.21	12.20	87.60	00.00	6.45	0.00	4.56	4.70	2.6	
	6/7/2024	Cloudy	12:38	4.0	1.0	26.20	26.30	8.16	8 17	21.48	21.56	91.90	91.35	6.63	6.61	6.73	6.49	7.2	
	0772024	Oloudy	12:39	4.0	1.0	26.40	20.00	8.17	0.17	21.64	21.00	90.80	01.00	6.59	0.01	6.24	0.40	8.8	
	8/7/2024	Cloudy	13:38	5.0	1.0	28.10	28.10	8.44	8.44	20.64	20.43	86.40	85.55	6.46	6.43	4.79	5.39	2.7	
			13:39	5.0	1.0	28.10		8.43		20.22		84.70		6.39		5.98		2.6	
	10/7/2024	Fine	14:51	4.2	1.0	29.73	29.63	7.33	7.33	31.41	31.40	90.30	90.65	6.31	6.34	2.19	2.08	2.7	
			14:52	4.2	1.0	29.53		7.32		31.38		91.00		6.36		1.97		2.4	
	12/7/2024	Cloudy	15:30	4.2	1.0	30.01	29.91	7.17	7.17	19.27	19.22	98.40	97.75	6.86	6.84	4.42	4.20	4.9	
			15:31	4.2	1.0	29.80		7.16		19.17		97.10		6.82		3.98		4.5	
	15/7/2024	Fine	7:56	4.0	1.0	30.52	30.48	7.06	7.06	17.61	17.55	94.80	93.65	6.61	6.55	2.54	2.43	2.6	
SR9			7:57	4.1	1.0	30.43		7.05		17.48		92.50		6.48		2.32		2.8	
	17/7/2024	Cloudy	9:45	4.0	1.0	30.50	30.51	6.99	7.00	20.91	20.95	95.10	94.80	6.48	6.46	3.18	3.33	3.3	
			9:46	4.0	1.0	30.51		7.00		20.98		94.50		6.44		3.47			
	19/7/2024	Cloudy	10:44 10:45	3.9	1.0	29.84	29.78	6.97 6.96	6.97	22.94	22.89	94.50 93.00	93.75	6.68	6.65	3.36	3.18	4.0	
			13:05	4.0	1.0	28.20		6.98		28.59		89.50		6.61		3.33		4.2	
	22/7/2024	Cloudy	13:06	4.0	1.0	28.37	28.29	6.98	6.98	28.63	28.61	88.60	89.05	6.52	6.57	3.94	3.64	4.2	
			14:09	3.9	1.0	29.85		7.02		29.94		92.60		6.29		6.95		4.0	
	24/7/2024	Cloudy	14:10	3.9	1.0	29.82	29.84	7.02	7.02	29.77	29.86	91.00	91.80	6.19	6.24	6.88	6.92	7.4	
		Strong	14.10	0.0	1.0	20.02		7.02						0.10		0.00		7.4	1
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ner						
			7:47	3.9	1.0	27.42		6.93		27.70		87.60		6.79		2.86		2.7	
	29/7/2024	Cloudy	7:48	3.9	1.0	27.56	27.49	6.93	6.93	27.30	27.50	85.30	86.45	6.65	6.72	2.73	2.80	2.3	
	31/7/2024	Amber Rain Storm						•	WQM	was cancell	ed due to ad	verse weath	ner						

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	Tempe		р	Н	Sal	inity		turation	D			bidity		S
Station Reference	Date	Weather	Time	Depth	Depth		C				pt		%	mg			TU		g/L
				m	m		AVG		AVG		AVG		AVG		AVG		AVG	Value	AVG
	2/7/2024	Cloudy	15:40	3.8	1.0	27.00	27.10	8.34	8.34	15.49	15.42	89.30	88.70	6.85	6.80	4.37	4.23	3.2	3.5
		,	15:41	3.8	1.0	27.20		8.33		15.35		88.10		6.74		4.08		3.8	
	4/7/2024	Cloudy	18:06	3.8	1.0	27.50	27.55	8.53	8.53	12.67	12.75	89.00	88.20	6.69	6.63	7.23	7.11	3.8	3.6
		,	18:07	3.8	1.0	27.60		8.52		12.82		87.40		6.57		6.98		3.3	
	6/7/2024	Cloudy	17:54	3.5	1.0	25.90	25.95	8.18	8.19	21.04	21.08	94.00	94.30	6.68	6.71	8.56	8.41	8.0	7.3
		,	17:55	3.5	1.0	26.00		8.19		21.12		94.60		6.73		8.25		6.6	
	8/7/2024	Cloudy	7:52	4.3	1.0	27.50	27 45	8.41	8 40	21.02	20.95	92.30	91.65	6.83	6.77	7.12	7.22	3.0	3.4
	0772024	Cioday	7:53	4.3	1.0	27.40	27.40	8.39	0.40	20.87	20.00	91.00	01.00	6.71	0.77	7.32	7.22	3.7	-
	10/7/2024	Cloudy	8:41	3.9	1.0	28.84	28 75	7.31	7.31	21.94	21.87	93.20	93.40	6.79	6.80	2.64	2 43	2.8	2.7
	10/1/2024	Gloddy	8:42	3.9	1.0	28.66	20.70	7.31	7.01	21.80	21.07	93.60	55.40	6.81	0.00	2.22	2.40	2.6	
	12/7/2024	Cloudy	9:37	4.0	1.0	30.31	30.36	7.14	7.15	18.14	18.28	95.40	94.20	6.53	6.47	4.21	4.39	4.5	4.4
	12/1/2024	Cioddy	9:38	4.0	1.0	30.41	30.30	7.15	7.13	18.41	10.20	93.00	54.20	6.41	0.47	4.57	4.55	4.2	
	15/7/2024	Fine	13:00	3.7	1.0	30.72	30.83	7.06	7.06	18.44	18.53	92.30	93.05	6.48	6.51	2.99	2.96	4.0	3.5
SR9	13/7/2024	1 1116	13:01	3.7	1.0	30.94	30.03	7.05	7.00	18.62	10.55	93.80	55.05	6.54	0.51	2.92	2.50	3.8	J.,
Sito	17/7/2024	Cloudy	16:11	3.4	1.0	30.11	30.09	7.02	7.01	23.49	23.53	93.20	93.75	6.33	6.37	2.67	2.54	1.9	1.8
	17/7/2024	Cloudy	16:12	3.4	1.0	30.06	30.09	7.00	7.01	23.56	23.53	94.30	93.75	6.40	0.37	2.41	2.54	1.6	1.0
	19/7/2024	Cloudy	17:55	3.5	1.0	29.00	29.04	6.97	6.97	26.25	26.22	90.40	90.10	6.24	6.22	2.64	2.83	3.0	3.1
	19/7/2024	Cloudy	17:56	3.5	1.0	29.08	29.04	6.96	6.97	26.18	20.22	89.80	90.10	6.19	0.22	3.01	2.03	3.1	3.1
	22/7/2024	Cloudy	17:34	3.5	1.0	28.03	28.08	7.01	7.01	28.06	28 11	86.00	86.70	6.42	6.47	9.19	9.28	9.6	9.4
	22///2024	Cloudy	17:35	3.5	1.0	28.13	28.08	7.00	7.01	28.16	28.11	87.40	86.70	6.52	6.47	9.37	9.28	9.2	9.4
	24/7/2024	Cloudy	8:06	4.2	1.0	29.64	29.71	7.01	7.01	29.74	29.70	94.30	93.75	6.40	6.38	7.24	7.15	5.5	5.3
	24///2024		8:07	4.2	1.0	29.77	29.71	7.01	7.01	29.66	29.70	93.20	93.75	6.35	6.38	7.06	7.15	5.1	5.5
	26/7/2024	Strong Monsoon	·						WQM	was cancell	ed due to ad	verse weath	ier						
		Signal																	
	29/7/2024	Cloudy	13:05	3.6	1.0	27.12	27.16	6.95	6.95	28.17	28.21	90.20	89.55	6.49	6.45	3.70	3.82	1.1	1.3
			13:06	3.6	1.0	27.19		6.95		28.25		88.90		6.41		3.94		1.3	
	31/7/2024	Cloudy	16:28	3.8	1.0	28.29	28.29	6.91	6.91	28.44	28.49	96.10	95.15	6.48	6.41	6.77	6.86	3.8	4.
		,	16:29	3.8	1.0	28.28		6.90		28.54		94.20	,	6.34		6.95		4.2	

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

	0		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	aturation		00	Tur	bidity	5	SS
Station Reference	Sampling Date	Weather	Time	Depth	Depth	0	С			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
	2/7/2024	Cloudy	9:48	4.3	3.3	27.20	27.20	8.23	8.23	15.08	15.15	87.40	86.15	6.50	6.42	5.28	5.33	4.3	
	2772024	Oloudy	9:49	4.3	3.3	27.20	27.20	8.23	0.20	15.21	10.10	84.90	00.10	6.34	0.42	5.37	0.00	3.9	
	4/7/2024	Cloudy	11:35	4.3	3.3	28.20	28 20	8.46	8.46	14.84	14.73	86.50	87 55	6.31	6.42	5.12	5.43	3.3	
		,	11:36	4.3	3.3	28.20		8.45		14.62		88.60	0.100	6.52		5.74		3.1	
	6/7/2024	Cloudy	12:41	4.0	3.0	26.30	26.20	8.16	8.17	21.37	21.30	86.60	86.55	6.33	6.33	5.84	5.98	6.9	
		,	12:42	4.0	3.0	26.10		8.18		21.23		86.50		6.33		6.12		5.0	
	8/7/2024	Cloudy	13:42	5.0	4.0	28.30	28.20	8.49	8.44	21.94	21.87	84.60	84.95	6.61	6.63	4.12	4.01	4.4	4.0
			13:43	5.0	4.0	28.10		8.38		21.80		85.30		6.65		3.89		3.5	
	10/7/2024	Fine	14:54	4.2	3.2	29.25	29.22	7.32	7.33	22.41	22.32	94.60	94.00	6.74	6.70	2.41	2.27	3.2	
			14:55	4.2	3.2	29.19		7.33		22.23		93.40		6.65		2.13		3.3	
	12/7/2024	Cloudy	15:33	4.2	3.2	29.81	29.83	7.15	7.15	20.01	19.91	96.60	95.95	6.74	6.72	4.68	4.74	4.5	
			15:34 7:59	4.2	3.1	29.84		7.15 7.04		19.80 17.61		95.30 90.50		6.69		4.79		4.2 2.8	
	15/7/2024	Fine				30.42	30.44	7.04	7.05		17.73	90.50	89.45	6.42	6.37	2.73	2.84	2.8	
SR9			8:00 9:48	4.1	3.1	30.45		7.05		17.84 20.41		96.20		6.74		3.02		2.3	
	17/7/2024	Cloudy	9:48	4.0	3.0	30.31	30.28	6.99	7.00	20.41	21.37	98.40	97.30	6.83	6.79	2.59	2.81	2.3	
			10:46	3.9	2.9	29.92		6.99		24.86		98.40		6.74		2.59		4.2	
	19/7/2024	Cloudy	10:46	3.9	2.9	30.05	29.99	6.97	6.97	25.01	24.94	93.40	94.55	6.67	6.71	3.12	2.93	4.8	
			13:08	4.0	3.0	28.25		6.70		29.01		90.20		6.59		6.12		2.3	
	22/7/2024	Cloudy	13:09	4.0	3.0	28.09	28.17	6.99	6.85	28.23	28.62	88.60	89.40	6.46	6.53	6.02	6.07	8.5	
			14:11	3.9	2.9	29.87		7.02		29.93		94.00		6.38		5.18		3.8	
	24/7/2024	Cloudy	14:12	3.9	2.9	29.89	29.88	7.01	7.02	29.98	29.96	92.80	93.40	6.33	6.36	5.37	5.28	4.2	
		Strong																	
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ner						
	29/7/2024	Cloudy	7:49	3.9	2.9	27.64	27.56	6.94	6.94	28.01	28.08	84.40	85.00	6.61	6.66	3.04	3.20	1.7	1.6
	29/1/2024	Cioudy	7:50	3.9	2.9	27.48	27.56	6.93	6.94	28.14	28.08	85.60	85.00	6.70	6.66	3.36	3.20	1.5	1.6
	31/7/2024	Amber Rain Storm					*	*	WQM	was cancell	ed due to ad	verse weath	ner						*

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

	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
	2/7/2024	Cloudy	15:42	3.8	2.8	27.10	27.05	8.27	8.29	15.45	15.65	87.10	88.45	6.49	6.54	3.97	4.05	2.4	2
		,	15:43	3.8	2.8	27.00		8.30		15.84		89.80		6.58		4.12		2.8	
	4/7/2024	Cloudy	18:08	3.8	2.8	27.60	27.60	8.30	8.31	16.73	16.62	87.30	86.45	6.54	6.48	6.43	6.58	3.5	
			18:09	3.8	2.8	27.60		8.31		16.50		85.60		6.41		6.72		3.2	
	6/7/2024	Cloudy	17:56	3.5	2.5	25.80	25.85	8.18	8.19	20.97	20.92	93.90	94.20	6.70	6.73	7.24	7.25	7.2	
		,	17:57	3.5	2.5	25.90		8.20		20.87		94.50		6.75		7.25		6.2	
	8/7/2024	Cloudy	7:55	4.3	3.3	27.10	27.15	8.35	8.36	21.81	21.96	89.00	89.60	6.59	6.61	6.37	6.63	4.4	
		,	7:56	4.3	3.3	27.20		8.36	0.00	22.10		90.20		6.62		6.89	0.00	3.9	
	10/7/2024	Cloudy	8:43	3.9	2.9	28.48	28.49	7.29	7.30	23.74	23.80	93.60	94.40	6.85	6.87	2.35	2.54	3.2	
			8:44	3.9	2.9	28.50		7.30		23.85		95.20		6.88		2.73		4.3	
	12/7/2024	Cloudy	9:40	4.0	3.0	30.73	30.57	7.14	7.14	17.84	17.80	90.60	91.20	6.19	6.24	3.69	3.58	4.5	
		,	9:41	4.0	3.0	30.41		7.13		17.76		91.80		6.29		3.46		3.7	
	15/7/2024	Fine	13:02	3.7	2.7	30.64	30.61	7.05	7.05	19.42	19.27	88.20	87.35	6.52	6.46	3.61	3.52	3.8	
SR9			13:03	3.7	2.7	30.58		7.05		19.11		86.50	000	6.40	00	3.43	0.02	3.6	
	17/7/2024	Cloudy	16:13	3.4	2.4	29.90	29.94	7.01	7.01	24.21	24.29	94.50	94.00	6.53	6.50	2.66	2.80	1.4	
		,	16:14	3.4	2.4	29.98		7.01		24.36		93.50		6.46		2.94		1.3	_
	19/7/2024	Cloudy	17:57	3.5	2.5	29.18	29 14	6.95	6.96	27.82	27.88	92.10	92.35	6.31	6.30	3.39	3.31	2.6	
		,	17:58	3.5	2.5	29.10		6.96	0.00	27.94		92.60		6.29	0.00	3.23		3.0	
	22/7/2024	Cloudy	17:36	3.5	2.5	27.95	27.90	6.99	7.00	28.34	28.27	89.80	90.00	6.62	6.65	10.60	10.75	10.7	1
			17:37	3.5	2.5	27.84		7.00		28.20		90.20		6.67		10.90		11.2	
	24/7/2024	Cloudy	8:09	4.2	3.2	29.68	29.63	7.01	7.02	29.81	29.88	90.30	89.45	6.23	6.20	4.16	4.32	4.0	
			8:10	4.2	3.2	29.57		7.02		29.95	-0.00	88.60		6.17		4.47		5.1	
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	29/7/2024	Cloudy	13:07	3.6	2.6	27.08	27.05	6.94	6.95	28.24	28.31	89.50	89.80	6.46	6.50	4.01	3.89	<1.0	
	2011/2024	Cidudy	13:08	3.6	2.6	27.01	27.05	6.95	6.95	28.37	20.31	90.10	39.00	6.53	6.50	3.76	3.09	<1.0	
	31/7/2024	Cloudy	16:30	3.8	2.8	28.04	28.11	6.91	6.91	28.73	28.66	95.80	95.50	6.50	6.49	6.83	6.74	4.6	
	31/1/2024	Cidudy	16:31	3.8	2.8	28.17	20.11	6.91	0.91	28.59	20.00	95.20	35.50	6.48	0.49	6.65	0.74	5.8	

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	0	00	Turl	bidity	S	SS
Station Reference	Date	Weather	Time	Depth	Depth	0	'C			l p	ppt		%	m	g/L	N'	TU	m	g/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:53	2.7	1.4	27.00	26.95	8.17	8 18	15.11	15.13	90.30	89.95	6.70	6.65	4.12	3.92	2.9	2.7
	2/1/2024	Cioudy	9:54	2.7	1.4	26.90	20.55	8.18	0.10	15.14	13.13	89.60	05.50	6.60	0.03	3.71	3.52	2.5	2.,
	4/7/2024	Cloudy	11:42	2.7	1.4	28.20	28 15	8.56	8.56	12.90	13.01	83.80	84 15	6.17	6.22	7.49	7.37	3.1	2.7
	4///2024	Oloudy	11:43	2.7	1.4	28.10	20.10	8.56	0.00	13.12	10.01	84.50	04.10	6.26	0.11	7.24	7.07	2.2	
	6/7/2024	Cloudy	12:48	2.6	1.3	26.10	26.00	8.17	8 16	21.04	21.06	88.20	88.35	6.42	6.43	8.56	8.34	4.6	6.9
	0///2024	Cioudy	12:49	2.6	1.3	25.90	20.00	8.15	0.10	21.08	21.00	88.50	00.33	6.44	0.43	8.12	0.54	9.1	0.5
	8/7/2024	Cloudy	13:29	2.8	1.4	27.60	27.50	8.35	8.36	22.11	22 21	84.40	84.35	6.53	6.53	5.43	5.31	4.3	4.4
	0/1/2024	Cioudy	13:30	2.8	1.4	27.40	27.30	8.36	0.30	22.31	22.21	84.30	04.33	6.52	0.55	5.19	3.31	4.4	
	10/7/2024	Fine	14:41	2.8	1.4	29.24	29.17	7.33	7.33	23.15	23.10	92.50	92.35	6.24	6.24	3.00	2.65	3.8	3.6
	10/7/2024	FINE	14:42	2.8	1.4	29.10	29.17	7.33	7.33	23.05	23.10	92.20	92.33	6.23	0.24	2.30	2.00	3.3	3.0
	12/7/2024	Cloudy	15:19	2.7	1.4	30.11	30.02	7.14	7 14	19.84	19 77	92.40	91.85	6.46	6.41	4.24	4.09	3.4	3.8
	12/1/2024	Cioudy	15:20	2.7	1.4	29.92	30.02	7.14	7.14	19.69	10.77	91.30	91.00	6.35	0.41	3.93	4.05	4.2	0.0
	15/7/2024	Fine	8:05	2.5	1.4	30.54	30.49	7.05	7.05	18.11	18.00	90.00	89 10	6.32	6.28	2.41	2 26	3.0	2.9
SR10	13/7/2024	1 1110	8:06	2.7	1.4	30.43	30.45	7.05	7.00	17.89	10.00	88.20	05.10	6.23	0.20	2.10	2.20	2.8	2.0
SKIO	17/7/2024	Cloudy	9:53	2.5	1.3	29.98	29.97	7.01	7.02	23.84	23.79	90.70	91.05	6.21	6.24	3.67	3.53	2.2	2.4
	17/7/2024	Cioudy	9:54	2.5	1.3	29.96	20.01	7.02	7.02	23.73	23.18	91.40	91.00	6.26	0.24	3.39	3.33	2.6	
	19/7/2024	Cloudy	10:53	2.5	1.3	29.36	29.32	6.94	6.95	25.86	25.79	89.00	89.60	6.20	6.22	2.69	2.41	3.0	2.9
	18/1/2024	Cioudy	10:54	2.5	1.3	29.28	25.52	6.95	0.55	25.71	23.18	90.20	05.00	6.24	0.22	2.12	2.41	2.7	2.0
	22/7/2024	Cloudy	13:16	2.6	1.3	28.06	28 13	6.99	6.99	29.15	29.03	83.60	84 15	6.17	6.23	10.80	10.33	12.2	11.5
	22/1/2024	Cidudy	13:17	2.6	1.3	28.19	20.13	6.99	6.99	28.90	29.03	84.70	04.13	6.29	0.23	9.85	10.33	10.8	11.5
	24/7/2024	Cloudy	13:58	2.4	1.2	29.95	29.92	7.01	7.01	29.37	29.33	94.70	93.65	6.43	6.41	4.73	4.66	4.0	3.5
	24/1/2024		13:59	2.4	1.2	29.89	20.02	7.01	7.01	29.29	25.55	92.60	55.05	6.38	0.41	4.59	4.00	2.9	3.3
	26/7/2024	Monsoon Signal							WQM	was cancell	led due to ac	verse weath	ier						
	29/7/2024	Cloudy	7:56	2.7	1.4	27.49	27.53	6.93	6.93	28.37	28 24	86.50	87.70	6.46	6.52	3.94	3.79	1.6	1.5
	29/1/2024	Cidudy	7:57	2.7	1.4	27.56	27.53	6.93	6.93	28.10	28.24	88.90	87.70	6.58	6.52	3.63	3.79	1.4	1.5
	31/7/2024	Amber Rain Storm							WQM	was cancell	led due to ac	verse weath	ier						

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	F	Н	Sal	inity	DO Sa	turation		0	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m		N	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	15:31	2.3	1.2	26.70	26.75	8.20	8.20	16.00	15.82	86.80	85.65	6.33	6.31	5.69	5.59	2.1	2.1
	2772024	Oloudy	15:32	2.3	1.2	26.80	20.70	8.19	0.20	15.63	10.02	84.50	00.00	6.28	0.01	5.48	0.00	2.1	2
	4/7/2024	Cloudy	17:57	2.3	1.2	27.90	27.80	8.38	8.39	15.53	15.47	83.60	82.95	6.26	6.21	8.42	8 22	3.4	3.4
	47772024	Oloudy	17:58	2.3	1.2	27.70	27.00	8.40	0.00	15.41	10.47	82.30	02.00	6.15	0.11	8.01	U.LL	3.4	
	6/7/2024	Cloudy	17:44	2.2	1.1	25.70	25.75	8.16	8 17	21.51	21.50	94.40	93.65	6.69	6.65	8.37	8 19	8.6	8.0
	0//2024	Oloudy	17:45	2.2	1.1	25.80	20.70	8.17	0.17	21.49	21.00	92.90	55.55	6.61	0.00	8.01	0.10	7.4	
	8/7/2024	Cloudy	8:01	2.4	1.2	27.40	27.35	8.36	8.36	22.14	22.07	90.40	89.50	6.60	6.57	5.13	5.01	3.3	
	G/7/2024	Oloudy	8:02	2.4	1.2	27.30	27.00	8.36	0.00	21.99	22.07	88.60	00.00	6.54	0.01	4.89	0.01	3.4	-
	10/7/2024	Cloudy	8:30	2.6	1.3	28.62	28 49	7.33	7.33	23.54	23.50	84.60	84.80	6.15	6.16	2.84	2 77	4.5	4.2
	10/1/2024	Oloudy	8:31	2.6	1.3	28.36	20.40	7.32	1.00	23.46	20.00	85.00	04.00	6.17	0.10	2.69	2	3.8	
	12/7/2024	Cloudy	9:47	2.6	1.3	30.50	30.60	7.13	7 13	17.61	17.61	96.00	96.70	6.72	6.74	3.57	3.79	4.0	4.1
		,	9:48	2.6	1.3	30.69		7.13		17.60		97.40		6.76		4.01		4.1	
	15/7/2024	Fine	12:49	2.5	1.3	30.62	30.55	7.07	7.06	20.12	20.04	91.80	91.30	6.77	6.73	3.41	3.37	4.7	4.6
SR10			12:50	2.5	1.3	30.47		7.05		19.96		90.80		6.68		3.33		4.5	
	17/7/2024	Cloudy	16:00	2.3	1.2	29.82	29.81	7.02	7 01	24.95	24.91	90.20	89.35	6.35	6.29	2.87	2.57	1.6	
		,	16:01	2.3	1.2	29.79		7.00		24.86		88.50	00.00	6.22	0.20	2.27		1.5	
	19/7/2024	Cloudy	17:46	2.2	1.1	29.19	29.24	6.96	6.96	28.43	28.36	88.60	89.30	6.14	6.18	3.64	3.61	2.4	2.5
	10/1/2024	Oloudy	17:47	2.2	1.1	29.28	20.24	6.95	0.00	28.29	20.00	90.00	00.00	6.22	0.10	3.58	0.01	2.5	
	22/7/2024	Cloudy	17:24	2.3	1.2	27.79	27.87	7.00	7.00	28.33	28.38	89.80	90.40	6.68	6.71	9.85	9.82	19.6	19.3
	ZZ///ZOZ-4	Oloudy	17:25	2.3	1.2	27.94	27.07	7.00	7.00	28.43	20.00	91.00	50.40	6.73	0.71	9.79	0.02	19.0	10.0
	24/7/2024	Cloudy	8:15	2.9	1.5	29.46	29.53	7.02	7.02	29.05	29.06	91.20	91.65	6.28	6.33	4.56	4.59	2.6	
	2-111202-4		8:16	2.9	1.5	29.59	20.00	7.02	7.02	29.06	20.00	92.10	01.00	6.38	0.00	4.62	4.00	3.6	
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	12:54	2.4	1.2	27.08	27.09	6.95	6.95	28.73	28.69	86.40	86.35	6.27	6.26	3.25	3.10	1.2	1.1
	29/1/2024	Cidudy	12:55	2.4	1.2	27.10	27.09	6.95	6.95	28.64	28.69	86.30	66.35	6.25	6.26	2.95	3.10	1.0	1.1
	31/7/2024	Cloudy	16:19	2.5	1.3	28.41	28.48	6.91	6.92	27.91	27.83	92.50	92.90	6.24	6.25	8.47	8.24	4.4	3.9
	31/1/2024	Cidudy	16:20	2.5	1.3	28.54	20.40	6.92	0.92	27.74	21.03	93.30	32.90	6.26	6.25	8.01	0.24	3.4	3.5

Impact Water Quality Monitoring at Station SR12 (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	0	С			р	pt		%	m	g/L	N'	TU	m	ng/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:58	2.8	1.4	27.10	27.05	8.18	8.18	15.24	15.39	84.40	83.40	6.29	6.20	3.98	4.18	4.4	4.7
	2772024	Cioudy	9:59	2.8	1.4	27.00	27.00	8.17	0.10	15.53	10.00	82.40	00.40	6.11	0.10	4.37	4.10	5.0	
	4/7/2024	Cloudy	11:48	2.8	1.4	28.20	28 20	8.54	8.53	13.69	13.64	82.80	83 70	6.10	6 17	8.53	8.33	2.3	
		,	11:49	2.8	1.4	28.20		8.52		13.59		84.60		6.24	•	8.13		2.5	
	6/7/2024	Cloudy	12:54	2.5	1.3	26.00	26.00	8.14	8.14	21.65	21.58	84.60	85.35	6.18	6.21	7.69	7.86	7.5	
		,	12:55	2.5	1.3	26.00		8.14		21.50		86.10		6.24	0.2.	8.02	1.00	6.7	
	8/7/2024	Cloudy	13:22	2.8	1.4	27.70	27.60	8.18	8.17	23.01	22.92	87.40	88.40	6.43	6.50	4.73	4.88	4.6	
		-	13:23	2.9	1.5	27.50		8.16		22.82		89.40		6.56		5.02		4.0	
	10/7/2024	Fine	14:34	2.8	1.4	29.25	29.31	7.33	7.34	22.94	23.04	97.50	98.15	6.63	6.68	3.12	2.93	2.8	
			14:35	2.8	1.4	29.36		7.34		23.14		98.80		6.73		2.74		2.5	
	12/7/2024	Cloudy	15:12	2.8	1.4	29.73	29.59	7.13	7.14	19.25	19.21	89.80	89.85	6.22	6.22	4.10	4.33	3.8	
			15:13	2.8	1.4	29.44		7.14		19.16		89.90		6.22		4.56		3.9	
	15/7/2024	Fine	8:11	2.6	1.4	30.54	30.58	7.05 7.06	7.06	18.51	18.62	95.80 93.40	94.60	6.58	6.49	2.09	2.08	2.8	
SR12			8:12	2.7	1.4														
	17/7/2024	Cloudy	10:00	2.6	1.3	29.86 29.85	29.86	7.01	7.02	23.89	23.88	93.20 92.90	93.05	6.24	6.23	3.41	3.58	3.0 2.8	
			10:01	2.6	1.3	29.85		6.97		25.23		92.90		6.26		2.60		2.4	
	19/7/2024	Cloudy	10:59	2.4	1.2	29.15	29.17	6.96	6.97	25.23	25.30	88.80	89.45	6.18	6.22	2.84	2.72	2.8	
			13:22	2.4	1.4	28.07		6.98		28.69		87.50		6.45		9.73		8.7	
	22/7/2024	Cloudy	13:23	2.7	1.4	28.09	28.08	6.98	6.98	28.73	28.71	86.50	87.00	6.31	6.38	9.12	9.43	4.6	
			13:52	2.5	1.3	29.64		7.01		29.05		94.40		6.66		4.62		2.1	
	24/7/2024	Cloudy	13:53	2.5	1.3	29.84	29.74	7.01	7.01	29.14	29.10	95.00	94.70	6.70	6.68	4.95	4.79	3.1	
		Strong																	
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	ier						
	00770004		8:01	2.5	1.3	27.68	27.64	6.93	6.93	28.12	28.21	84.80	05.05	6.59	6.62	3.95	3.81	1.2	1.2
	29/7/2024	Cloudy	8:02	2.5	1.3	27.59	27.64	6.92	6.93	28.30	28.21	85.30	85.05	6.65	6.62	3.67	3.81	1.2	
	31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	ier					•	

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature	р	Н	Sal	inity	DO Sa	turation		0	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%		g/L	N	TU	m	ng/L
	Duto		111110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	15:26	2.4	1.2	26.90	26.80	8.20	8.20	15.56	15.73	84.00	84.45	6.24	6.28	4.98	5.11	2.8	2.6
	2772024	Oloudy	15:27	2.4	1.2	26.70	20.00	8.20	0.20	15.89	10.70	84.90	04.40	6.32	0.10	5.23	0.11	2.3	2.0
	4/7/2024	Cloudy	17:52	2.4	1.2	27.80	27.80	8.40	8.40	15.41	15.40	82.90	82 25	6.19	6 15	7.52	7 68	3.0	
	4772024	Oloudy	17:53	2.4	1.2	27.80	27.00	8.40	0.40	15.39	10.40	81.60	OL.LO	6.10	0.10	7.84	7.00	4.1	
	6/7/2024	Cloudy	17:39	2.1	1.1	25.90	25 90	8.16	8 16	21.04	21.07	88.80	88 10	6.41	6.39	8.24	8.37	8.3	
	0//2024	Oloudy	17:40	2.1	1.1	25.90	20.00	8.16	0.10	21.10	21.07	87.40	00.10	6.37	0.00	8.49	0.01	9.2	
	8/7/2024	Cloudy	8:07	2.6	1.3	27.20	27.30	8.32	8.33	22.23	22.35	87.20	87.70	6.49	6.53	5.86	5.94	3.3	
	G/7/2024	Oloudy	8:08	2.6	1.3	27.40	27.00	8.33	0.00	22.47	22.00	88.20	07.70	6.56	0.00	6.02	0.04	3.1	
	10/7/2024	Cloudy	8:58	2.5	1.3	29.01	28 85	7.30	7.31	23.34	23.25	94.60	94.20	6.50	6.47	2.51	2 42	2.4	
	10/1/2024	Oloudy	8:59	2.5	1.3	28.69	20.00	7.31	7.01	23.16	20.20	93.80	04.20	6.44	0.41	2.32	2.42	3.5	
	12/7/2024	Cloudy	9:55	2.7	1.4	30.51	30.49	7.14	7 14	17.59	17.56	93.40	92.55	6.42	6.35	4.12	4.06	4.2	
		,	9:56	2.7	1.4	30.47		7.14		17.52		91.70	02.00	6.27	0.00	3.99		4.0	
	15/7/2024	Fine	12:42	2.4	1.2	30.46	30.59	7.06	7.06	19.34	19.43	88.70	88.80	6.52	6.53	3.18	3.33	4.4	4.6
SR12			12:43	2.4	1.2	30.71		7.05		19.51		88.90		6.54		3.47		4.7	
	17/7/2024	Cloudy	15:53	2.3	1.2	29.88	29.89	7.01	7.01	24.99	25.03	91.00	91.55	6.28	6.33	1.96	2.26	1.5	
		,	15:54	2.3	1.2	29.90		7.01		25.06		92.10	0.1.00	6.38	0.00	2.56		1.7	
	19/7/2024	Cloudy	17:41	2.2	1.1	28.76	28.88	6.97	6.96	27.64	27.61	92.80	91.90	6.23	6.20	2.98	3.05	3.2	3.0
	10/1/2024	Oloudy	17:42	2.2	1.1	28.99	20.00	6.95	0.50	27.57	27.01	91.00	01.00	6.16	0.10	3.12	0.00	2.7	
	22/7/2024	Cloudy	17:19	2.4	1.2	27.95	27.90	6.99	6.99	28.56	28.50	93.50	92.45	6.94	6.90	10.25	9.97	17.4	17.8
	ZZ///ZOZ-4	Oloudy	17:20	2.4	1.2	27.85	27.50	6.99	0.00	28.44	20.00	91.40	0L.40	6.85	0.50	9.69	0.01	18.1	17.0
	24/7/2024	Cloudy	8:20	2.8	1.4	29.39	29.27	7.01	7.01	29.10	29.14	95.80	94.95	6.49	6.45	4.52	4.51	2.7	
	2-117202-4		8:21	2.8	1.4	29.14	20.27	7.01	7.01	29.17	20.14	94.10	04.00	6.41	0.40	4.50	4.01	3.2	
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	12:47	2.3	1.2	27.15	27.13	6.95	6.95	28.60	28.67	87.00	87.60	6.30	6.34	3.27	3.52	<1.0	1.0
	29/1/2024	Cidudy	12:48	2.3	1.2	27.10	27.13	6.94	6.95	28.73	28.67	88.20	67.60	6.37	6.34	3.76	3.52	<1.0	1.0
	31/7/2024	Cloudy	16:13	2.3	1.2	28.50	28.45	6.92	6.92	28.18	28.22	89.40	89.80	6.40	6.46	7.74	7.83	2.6	
	31/1/2024	Gioudy	16:14	2.3	1.2	28.39	20.45	6.91	0.92	28.25	20.22	90.20	09.00	6.51	0.40	7.92	1.03	2.5	2.0

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С		-		pt		%		g/L		TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	9:02	2.8	1.4	26.90	26.95	8.12	8 13	14.63	14.56	86.90	86.70	6.63	6.60	6.47	6.41	3.1	3.1
		,	9:03	2.8	1.4	27.00		8.14	00	14.49		86.50		6.57	0.00	6.35		3.1	
	4/7/2024	Cloudy	10:46	2.8	1.4	27.20	27.10	8.59	8.60	13.42	13.28	89.20	89.90	6.56	6.62	7.01	6.90	2.0	
		,	10:47	2.8	1.4	27.00		8.60	0.00	13.14		90.60		6.67	0.02	6.79		1.9	
	6/7/2024	Cloudy	11:52	2.5	1.3	25.70	25 65	8.22	8 22	25.37	25 23	93.80	93.40	6.78	6.73	7.31	7 15	4.0	4.4
	0772024	Oloudy	11:53	2.5	1.3	25.60	20.00	8.22	0.22	25.08	20.20	93.00	55.40	6.68	0.70	6.98	7.10	4.8	
	8/7/2024	Cloudy	14:24	2.8	1.4	27.60	27.60	8.43	8.42	21.31	21 17	87.50	88.00	6.68	6.70	3.94	4.09	4.7	4.5
		,	14:25	2.8	1.4	27.60		8.41		21.03		88.50		6.72		4.24		4.3	
	10/7/2024	Fine	15:38	4.8	2.4	29.11	29.35	7.30	7.31	23.04	23.18	90.70	91.10	6.52	6.56	3.17	3.30	3.1	
	10/1/2024	1 1110	15:39	4.8	2.4	29.59	20.00	7.31	7.01	23.31	20.10	91.50	01.10	6.59	0.00	3.42	0.00	2.9	
	12/7/2024	Cloudy	16:16	2.6	1.3	30.43	30.47	7.14	7 15	19.06	19 19	91.80	91.25	6.36	6.33	3.92	4.17	4.6	4.4
	12///2024	Oloudy	16:17	2.6	1.3	30.51	00.41	7.15	7.10	19.31	10.10	90.70	01.20	6.29	0.00	4.42	4.17	4.2	
	15/7/2024	Fine	7:13	2.6	1.3	30.34	30.37	7.05	7.06	17.33	17.38	95.60	94 90	6.54	6.48	2.22	2 43	2.7	2.8
SR15	10///2024	1 1110	7:14	2.6	1.3	30.40	00.01	7.06	7.00	17.42	11.00	94.20	04.00	6.41	0.40	2.64	2.40	2.9	2.0
01110	17/7/2024	Cloudy	9:05	2.7	1.4	30.37	30.39	7.01	7.01	20.10	19.97	97.70	97.90	6.67	6.69	3.12	2.99	2.7	2.9
	111112024	Oloudy	9:06	2.7	1.4	30.40	00.00	7.00	7.01	19.84	10.07	98.10	07.00	6.70	0.00	2.86	2.00	3.0	
	19/7/2024	Cloudy	10:00	2.5	1.3	29.52	29.57	6.97	6.97	23.25	23.14	96.60	96.05	6.84	6.81	3.01	3 18	3.4	3.6
	10///2024	Oloudy	10:01	2.5	1.3	29.61	20.07	6.97	0.07	23.02	20.14	95.50	50.00	6.77	0.01	3.34	0.10	3.7	0.0
	22/7/2024	Cloudy	12:23	2.7	1.4	28.57	28.60	6.98	7.00	28.54	28.58	89.00	89.10	6.56	6.57	5.37	5 40	3.8	
	22/1/2024	Cioudy	12:24	2.7	1.4	28.63	20.00	7.01	7.00	28.61	20.30	89.20	05.10	6.57	0.57	5.43	3.40	6.4	0.1
	24/7/2024	Cloudy	14:52	2.4	1.2	30.96	30.90	7.01	7.02	29.25	29.34	88.90	89.65	6.32	6.34	8.25	8.12	49.0	43.1
	24/1/2024		14:53	2.4	1.2	30.84	00.00	7.02	7.02	29.42	20.04	90.40	05.00	6.36	0.04	7.98	0.12	37.2	40.1
	26/7/2024	Monsoon Signal							WQM	was cancel	led due to ad	verse weath	er						
	29/7/2024	Cloudy	7:01	2.7	1.4	27.34	27.37	6.91	6.92	27.89	27.90	87.50	88.10	6.62	6.65	4.25	4.20	1.3	1.4
	20/1/2024	Cidudy	7:02	2.7	1.4	27.40	21.31	6.92	0.92	27.90	27.90	88.70	36.10	6.68	6.65	4.15	4.20	1.4	1.4
	31/7/2024	Amber Rain Storm							WQM	was cancel	led due to ad	verse weath	er						

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

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

																_				
	Station Reference	Sampling	Weather	Sampling	Water Depth	Sampling Depth		erature C		Н		linity		turation		0		bidity	_	SS
	Station Reference	Date	vveautei	Time			Value	AVG	Value	AVG	Value	pt AVG		% AVG	Value	a/L AVG		TU AVG	Value m	g/L AVG
⊦				16:24	m 2.4	m 1.2		AVG		AVG		AVG		AVG		AVG		AVG		
		2/7/2024	Cloudy	16:24	2.4	1.2	27.40 27.20	27.30	8.27 8.28	8.28	15.07 15.27	15.17	87.60 86.60	87.10	6.56	6.55	5.37 5.63	5.50	2.6	2.6
				18:46	2.4	1.2	25.90		8.28		22.12		93.30		6.89		9.24			
		4/7/2024	Cloudy	18:46	2.3	1.2	25.90	25.85	8.12	8.13	22.12	22.27	93.30	92.50	6.79	6.84	9.24 8.94	9.09	4.1	4.5
				18:47	2.3	1.1	25.80		8.14		22.42		88.30				8.94			
		6/7/2024	Cloudy	18:39	2.1	1.1	25.20	25.10	8.10	8.11	22.84	22.75	86.80	87.55	6.39	6.33	8.35 8.51	8.43	9.2 6.4	7.8
				7:09	2.1	1.1	27.20		8.37		19.56		88.90		6.43		7.95		3.0	-
		8/7/2024	Cloudy	7:10	2.4	1.2	27.10	27.15	8.35	8.36	19.39	19.48	88.60	88.75	6.40	6.42	7.74	7.85	2.6	2.8
				7:56	2.4	1.2	28.64		7.31		21.65		88.10		6.35		2.43		3.2	-
		10/7/2024	Cloudy	7:57	2.4	1.2	28.73	28.69	7.31	7.31	21.84	21.75	87.00	87.55	6.30	6.33	2.43	2.55	3.6	3.4
				8:52	2.3	1.2	29.19		7.13		22.89		90.50		6.49		4.05		5.1	
		12/7/2024	Cloudy	8:53	2.3	1.2	29.67	29.43	7.14	7.14	23.04	22.97	89.20	89.85	6.44	6.47	4.25	4.15	4.6	4.9
				14:45	2.3	1.2	30.55		7.07		19.01		95.40		6.61		2.74		4.2	
		15/7/2024	Fine	14:46	2.3	1.2	30.42	30.49	7.07	7.07	19.24	19.13	94.80	95.10	6.57	6.59	2.51	2.63	4.0	4.1
	SR15			16:56	2.4	1.2	29.84		7.00		24.25		92.80		6.29		3.49		2.2	
		17/7/2024	Cloudy	16:57	2.4	1.2	29.74	29.79	6.98	6.99	24.15	24.20	91.20	92.00	6.19	6.24	3.24	3.37	2.2	2.2
		40770004	01. 1	18:39	2.3	1.2	29.06	00.00	6.98	6.98	23.24	23.31	90.40	00.05	6.40	0.40	2.76	2.86	3.6	
		19/7/2024	Cloudy	18:40	2.3	1.2	29.12	29.09	6.97	6.98	23.37	23.31	90.10	90.25	6.39	6.40	2.95	2.86	3.2	3.4
		22/7/2024	Cloudy	18:17	2.4	1.2	27.88	27.98	7.00	7.01	28.77	28.85	91.00	91 25	6.73	6.75	7.52	7.51	4.1	4.0
		22/1/2024	Cloudy	18:18	2.4	1.2	28.08	27.98	7.01	7.01	28.92	28.85	91.50	91.25	6.77	6.75	7.49	7.51	3.9	4.0
		24/7/2024	Cloudy	7:20	2.6	1.3	29.84	29.91	7.01	7.01	29.19	29.20	94.50	93.35	6.66	6.60	4.01	4.06	1.5	1.8
		24/1/2024		7:21	2.6	1.3	29.98	20.01	7.01	7.01	29.21	25.20	92.20	55.55	6.53	0.00	4.11	4.00	2.0	1.0
		26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
		29/7/2024	Cloudy	13:49	2.4	1.2	27.30	27.27	6.95	6.95	28.40	28.39	91.00	90 10	6.60	6.53	3.73	3.61	1.2	1.4
		29/1/2024	Cidudy	13:50	2.4	1.2	27.24	21.21	6.94	6.95	28.37	20.39	89.20	90.10	6.46	6.53	3.48	3.01	1.5	1.4
		31/7/2024	Cloudy	17:08	2.6	1.3	28.41	28 35	6.92	6.92	28.32	28.38	98.10	99.55	6.65	6.72	9.11	9.27	2.5	2.4
		517772024	Siduly	17:02	2.6	1.3	28.28	20.55	6.91	0.52	28.43	20.30	101.00	35.33	6.79	0.72	9.43	5.27	2.3	2.4

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	bidity	S	S
Station Reference	Date	Weather	Time	Depth	Depth	0	С			Р	ppt		%	m	g/L	N.	TU	m	g/L
	Date		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	10:10	8.6	1.0	27.30	27 25	8.16	8 17	14.62	14.73	91.30	91.65	6.81	6.85	4.08	4.00	2.4	2.3
	2772024	Oloudy	10:11	8.6	1.0	27.20	27.20	8.17	0.17	14.83		92.00	01.00	6.88	0.00	3.92	4.00	2.2	
	4/7/2024	Cloudy	12:01	8.6	1.0	28.00	27.95	8.43	8 44	13.89	13.80	94.80	92.90	7.04	6.88	3.59	3.79	2.8	2.8
		,	12:02	8.6	1.0	27.90		8.44		13.70		91.00		6.71		3.98		2.8	
	6/7/2024	Cloudy	13:07	8.4	1.0	27.30	27.35	8.75	8.76	21.17	21.31	93.40	93.85	6.65	6.70	4.00	4.06	4.7	4.4
	0772024	Oloudy	13:08	8.4	1.0	27.40	27.00	8.76	0.70	21.44	21.01	94.30	55.55	6.75	0.70	4.12	4.00	4.1	
	8/7/2024	Cloudy	13:10	8.9	1.0	28.20	28.10	8.43	8 44	21.02	21.11	89.10	89 65	6.86	6.88	3.01	2.94	5.8	5.0
	0772024	Oloudy	13:11	8.9	1.0	28.00	20.10	8.44	0.44	21.19	21.11	90.20	00.00	6.89	0.00	2.86	2.04	4.1	0.0
	10/7/2024	Fine	14:02	8.9	1.0	29.85	29.91	7.31	7.31	22.52	22 63	98.40	97.40	6.89	6.82	2.93	2.89	4.0	3.9
	10/1/2024	11110	14:03	8.9	1.0	29.97	20.01	7.30	7.01	22.73	22.00	96.40	57.40	6.75	0.02	2.84	200	3.8	
	12/7/2024	Cloudy	15:00	8.6	1.0	30.61	30.52	7.15	7.15	17.81	17 78	101.80	100.80	7.02	6.97	3.39	3.41	3.8	3.8
	12112024	Oloudy	15:01	8.6	1.0	30.42	00.02	7.15	7.10	17.74	11.10	99.80	100.00	6.92	0.01	3.42	0.41	3.8	0.0
	15/7/2024	Fine	8:24	8.5	1.0	30.49	30.46	7.04	7.05	18.24	18.18	95.40	95.95	6.83	6.85	2.52	2 65	2.9	3.1
CE	10/1/2024	11110	8:25	8.5	1.0	30.42	00.40	7.05	7.00	18.11	10.10	96.50	55.55	6.86	0.00	2.77	2.00	3.2	
	17/7/2024	Cloudy	10:12	8.6	1.0	30.11	30.08	7.01	7.01	22.64	22 60	95.10	94 65	6.95	6.93	2.19	2 22	2.8	2.9
	111112024	Oloudy	10:13	8.6	1.0	30.04	00.00	7.00	7.01	22.55	22.00	94.20	54.00	6.90	0.50	2.25	2.22	3.0	20
	19/7/2024	Cloudy	11:09	8.4	1.0	30.12	30.06	6.97	6.98	22.66	22 73	98.90	97.65	6.95	6.91	2.49	2.58	3.6	3.5
	10/1/2024	Oloudy	11:10	8.4	1.0	29.99	00.00	6.98	0.50	22.80	22.70	96.40	57.00	6.86	0.01	2.66	200	3.3	
	22/7/2024	Cloudy	13:35	8.4	1.0	28.37	28.33	6.70	6.85	28.94	28.84	92.60	93.60	6.84	6.94	5.02	5 14	4.5	3.7
	ZEIT/ZOZ4	Oloudy	13:36	8.4	1.0	28.28	20.00	6.99	0.00	28.74	20.04	94.60	55.50	7.04	0.04	5.26	0.14	2.8	
	24/7/2024	Cloudy	13:40	8.5	1.0	30.25	30.20	7.02	7.01	30.18	30.21	95.60	95.00	6.88	6.86	7.95	8.30	5.1	4.8
	24/1/2024		13:41	8.5	1.0	30.14	30.20	7.00	7.01	30.23	30.21	94.40	93.00	6.83	0.00	8.65	0.50	4.4	4.0
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	led due to ac	verse weath	er						
	29/7/2024	Cloudy	8:14	8.4	1.0	27.73	27.59	6.95	6.95	28.03	28.06	93.70	93.05	7.04	7.01	2.56	2.64	2.2	2.1
	29/7/2024	Cidudy	8:15	8.4	1.0	27.45	27.59	6.94	6.95	28.08	20.00	92.40	93.05	6.98	7.01	2.72	2.04	2.0	2.1
	31/7/2024	Amber Rain Storm							WQM	was cancell	led due to ac	verse weath	er						

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

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

		Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turt	oidity	5	S
	Station Reference	Date	Weather	Time	Depth	Depth		С			р	ppt		%	m			ΤU		g/L
Į		Duic		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
		2/7/2024	Cloudy	15:15	8.2	1.0	27.10	27 15	8.16	8 17	14.24	14 13	90.50	90.40	6.70	6.70	3.24	3.36	3.4	3.6
			,	15:16	8.2	1.0	27.20	2	8.18		14.02		90.30		6.69		3.47		3.7	
		4/7/2024	Cloudy	17:40	8.1	1.0	27.00	27.10	8.46	8.46	13.24	13.28	95.50	94 60	7.15	7.08	4.12	4.07	2.9	2.7
			,	17:41	8.1	1.0	27.20		8.45	0.10	13.32		93.70		7.00	1.00	4.01		2.5	
		6/7/2024	Cloudy	17:28	7.9	1.0	27.60	27.50	8.01	8 40	21.24	21.15	95.00	95 40	6.77	6.80	5.99	5.71	3.8	3.9
			,	17:29	7.9	1.0	27.40	21100	8.79		21.06		95.80		6.82		5.42	****	4.0	
		8/7/2024	Cloudy	8:20	8.6	1.0	27.70	27 60	8.35	8.36	20.97	20.93	92.00	92 30	6.85	6.87	4.01	4 07	2.8	3.1
			,	8:21	8.6	1.0	27.50		8.37	0.00	20.88		92.60		6.89		4.12		3.4	
		10/7/2024	Cloudy	9:11	8.6	1.0	28.87	28.78	7.32	7.32	22.80	22 75	98.60	98 20	6.92	6.88	2.19	2 26	4.2	4.1
			,	9:12	8.6	1.0	28.68		7.31		22.69		97.80		6.84		2.32		3.9	
		12/7/2024	Cloudy	10:08	8.4	1.0	36.84	33.71	7.15	7.15	18.94	18.81	99.40	99.00	6.95	6.91	3.86	3.76	3.8	4.3
				10:09	8.4	1.0	30.58		7.14		18.68		98.60		6.86		3.65		4.8	
		15/7/2024	Fine	12:30	8.3	1.0	30.91	30.80	7.05	7.06	17.94	17.89	97.40	97.05	6.89	6.86	2.41	2.51	3.4	3.2
	CE			12:31	8.3	1.0	30.68		7.06		17.83		96.70		6.82		2.61		3.0	
		17/7/2024	Cloudy	15:41	8.3	1.0	30.12	30.11	7.02	7.02	23.25	23.22	94.60	94.45	6.91	6.91	2.29	2.47	2.3	2.5
				15:42	8.3	1.0	30.09		7.01		23.18		94.30		6.90		2.65		2.6	
		19/7/2024	Cloudy	17:29	8.2	1.0	29.00	29.03	6.98	6.78	25.41	25.35	94.40	94.80	6.87	6.90	2.11	2.19	2.9	2.8
			,	17:30	8.2	1.0	29.06		6.57		25.29		95.20		6.93		2.26		2.6	
		22/7/2024	Cloudy	17:07	7.9	1.0	28.24	28.39	6.99	6.99	28.29	28.38	93.20	92.85	6.89	6.87	5.52	4.81	4.2	4.1
			-	17:08	7.9	1.0	28.54		6.99		28.47		92.50		6.84		4.09		3.9	
		24/7/2024	Cloudy	8:33	8.8	1.0	29.50	29.56	7.00	7.00	30.12	30.13	99.00	98.30	6.91	6.88	5.98	6.30	5.8	5.1
			Strong	8:34	8.8	1.0	29.61		7.00		30.14		97.60		6.84		6.61		4.4	
		26/7/2024	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	er						
		29/7/2024	Cloudy	12:35	8.2	1.0	27.19	27.20	6.93	6.94	28.37	28.33	94.80	93.95	6.89	6.84	2.30	2.34	1.8	1.8
		23772024	Cioddy	12:36	8.2	1.0	27.20	27.20	6.94	0.54	28.29	20.55	93.10	33.33	6.79	0.04	2.37	2.54	1.8	1.0
		31/7/2024	Cloudy	16:00 16:01	8.1 8.1	1.0	28.81 28.94	28.88	6.93 6.92	6.93	28.51 28.40	28.46	94.90 96.60	95.75	6.81 6.92	6.87	6.79 7.05	6.92	3.0 2.7	2.9
L									0.02											

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

0.1.07	Sampling		Sampling	Water Depth	Sampling	Temp		F	Н		linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time		Depth		С				ppt		%	m			TU		ıg/L
				m	m		AVG	Value	AVG		AVG		AVG		AVG		AVG	Value	AVG
	2/7/2024	Cloudy	10:14	8.6	4.3	27.20	27.20	8.14	8.14	15.35	15.41	90.80	89.50	6.78	6.74	4.24	4.18	2.9	
		1	10:15	8.6	4.3	27.20		8.14		15.47		88.20		6.69		4.11		2.6	
	4/7/2024	Cloudy	12:05	8.6	4.3	27.60	27.50	8.36	8.37	14.40	14.57	90.30	92.50	6.59	6.74	4.25	4.18	3.3	
			12:06	8.6	4.3	27.40		8.38		14.73		94.70		6.88		4.10		4.0	
	6/7/2024	Cloudy	13:11	8.4	4.2	26.90	26.85	8.64	8.64	22.67	22.60	95.00	95.30	6.79	6.81	5.13	5.03	3.9	
			13:12	8.4	4.2	26.80		8.63		22.52		95.60		6.83		4.92		4.2	
	8/7/2024	Cloudy	13:14	8.9	4.5	27.60	27.60	8.39	8.38	21.97	21.91	87.70	87.55	6.71	6.70	2.59	2.73	4.0	
		,	13:15	8.9	4.5	27.60		8.37		21.84		87.40		6.69		2.87		4.0	
	10/7/2024	Fine	14:06	8.9	4.5	29.51	29.43	7.31	7.31	23.19	23 14	89.80	90.70	6.65	6.66	1.61	1.77	2.5	
			14:07	8.9	4.5	29.35		7.30		23.09		91.60		6.67		1.93		2.3	
	12/7/2024	Cloudy	15:04	8.6	4.3	30.01	30.13	7.13	7.14	20.87	20.91	96.30	94.85	6.58	6.58	2.82	2.77	3.2	
			15:05	8.6	4.3	30.24		7.14		20.94		93.40		6.58		2.72		3.3	
	15/7/2024	Fine	8:28	8.5	4.3	30.18	30.20	7.05	7.05	19.81	19.83	94.80	95.10	6.63	6.75	2.62	2.52	2.6	2.5
CE			8:29	8.5	4.3	30.21		7.04		19.84		95.40		6.87		2.41		2.4	
-	17/7/2024	Cloudy	10:16	8.6	4.3	29.99	30.12	7.00	7.00	23.35	23.43	94.50	94.95	6.88	6.91	2.60	2.46	2.8	
			10:17	8.6	4.3	30.25		7.00		23.50		95.40		6.93		2.31		2.6	
	19/7/2024	Cloudy	11:13	8.4	4.2	29.94	29.84	6.97	6.97	25.18	25.21	95.20	95.70	6.81	6.83	2.48	2.37	3.0	
			11:14	8.4	4.2	29.74		6.97		25.24		96.20		6.85		2.25		2.8	
	22/7/2024	Cloudy	13:39	8.4	4.2	28.19	28 22	6.99	6.85	28.54	28 64	91.00	90.90	6.72	6.72	6.12	6.05	4.0	
		,	13:40	8.4	4.2	28.25		6.71	0.00	28.73		90.80		6.71		5.97		5.9	
	24/7/2024	Cloudy	13:44	8.5	4.3	29.97	30.00	7.01	7.01	29.61	29.59	95.20	93.90	6.87	6.82	8.89	8.73	6.7	7.2
			13:45	8.5	4.3	30.02		7.01		29.57		92.60		6.77	0.00	8.56		7.7	
	26/7/2024	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	er						
	29/7/2024	Cloudy	8:18	8.4	4.2	27.41	27.52	6.94	6.94	28.11	28.11	90.20	89.50	6.93	6.87	2.43	2.34	1.6	1.6
	20/1/2024	Cidudy	8:19	8.4	4.2	27.62	21.52	6.94	0.94	28.10	20.11	88.80	09.50	6.81	0.07	2.24	2.34	1.5	1.0
	31/7/2024	Amber Rain Storm							WQM	was cancell	led due to ad	verse weath	er		•			•	•

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

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

	Sampling		Sampling	Water	Sampling	Temp	erature		H	Sal	inity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	0	С				pt		%	m			TU		ng/L
	Duto		1 11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	15:19	8.2	4.1	27.10	27.05	8.19	8.20	14.98	15.06	87.50	87.25	6.51	6.50	3.25	3 18	2.7	
	2772024	Oloudy	15:20	8.2	4.1	27.00	27.00	8.20	0.20	15.13	10.00	87.00	07.20	6.48	0.00	3.10	0.10	3.1	
	4/7/2024	Cloudy	17:44	8.1	4.1	25.90	25.85	8.01	8.00	24.13	24.11	93.10	92.70	6.99	6.95	3.54	3.70	1.8	
		,	17:45	8.1	4.1	25.80		7.98		24.08		92.30		6.90		3.85		2.2	
	6/7/2024	Cloudy	17:31	7.9	4.0	26.40	26.45	8.58	8.63	22.20	22.29	97.50	97.75	6.93	6.96	6.01	5.81	5.3	
	********	,	17:32	7.9	4.0	26.50		8.67		22.37		98.00		6.98		5.60		5.2	
	8/7/2024	Cloudy	8:24	8.6	4.3	26.80	26.80	8.28	8.29	22.31	22.44	87.00	87.85	6.67	6.71	3.18	3.03	4.9	
		,	8:25	8.6	4.3	26.80		8.29	5.25	22.57		88.70	000	6.75	•	2.87		5.6	1
	10/7/2024	Cloudy	9:15	8.6	4.3	28.49	28.52	7.30	7.31	23.92	24.03	98.40	98.85	6.92	6.94	2.54	2.38	2.9	
	10///2024	Oloudy	9:16	8.6	4.3	28.54	20.02	7.31	7.01	24.14	24.00	99.30	55.55	6.95	0.04	2.21	2.00	3.4	
	12/7/2024	Cloudy	10:12	8.4	4.2	30.38	30.45	7.14	7.14	18.99	19.02	99.20	99.15	6.88	6.88	4.24	4.12	4.8	
		,	10:13	8.4	4.2	30.51		7.14		19.05		99.10		6.87	0.00	4.00		3.8	
	15/7/2024	Fine	12:34	8.3	4.2	30.70	30.73	7.06	7.06	18.36	18.45	91.60	91.15	6.64	6.62	2.92	2 70	3.7	
CE	10///2024	1 1110	12:35	8.3	4.2	30.76	00.70	7.05	7.00	18.54	10.40	90.70	01.10	6.60	0.02	2.47	20	3.4	
	17/7/2024	Cloudy	15:45	8.3	4.2	29.99	30.05	7.02	7.03	24.21	24.31	97.00	97.30	6.68	6.71	2.07	2.03	2.2	2.1
	111112024	Oloudy	15:46	8.3	4.2	30.11	00.00	7.03	7.00	24.41	24.01	97.60	01.00	6.74	0.71	1.99	2.00	2.0	1
	19/7/2024	Cloudy	17:33	8.2	4.1	29.18	29.15	6.97	6.97	25.77	25.81	95.40	94.00	6.89	6.83	2.36	2.48	2.2	
		,	17:34	8.2	4.1	29.12		6.97		25.84		92.60		6.77	0.00	2.60		2.4	
	22/7/2024	Cloudy	17:10	7.9	4.0	28.25	28 21	7.00	7.00	28.74	28.68	92.40	92.80	6.80	6.84	7.43	7.61	5.5	5.7
	LETTIEUE	Oloudy	17:11	7.9	4.0	28.17	20.21	6.99	7.00	28.62	20.00	93.20	02.00	6.88	0.04	7.79	7.01	5.8	
	24/7/2024	Cloudy	8:37	8.8	4.4	29.50	29.44	7.00	7.01	30.61	30.55	95.90	96.45	6.75	6.78	7.19	6.60	6.3	
			8:38	8.8	4.4	29.37		7.01		30.49		97.00		6.80		6.00		5.5	
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	12:39	8.2	4.1	27.21	27.26	6.94	6.94	28.34	28.42	93.10	93.05	6.71	6.72	2.75	2.59	1.3	1.3
	2011/2024	Cidudy	12:40	8.2	4.1	27.30	21.20	6.93	0.94	28.50	20.42	93.00	33.05	6.72	0.72	2.42	2.59	1.2	! 1.3
	31/7/2024	Cloudy	16:04	8.1	4.1	28.79	28.78	6.78	6.88	28.60	28.62	93.10	93.55	6.78	6.79	6.37	6.25	1.6	2.1
	31/1/2024	Cidudy	16:05	8.1	4.1	28.76	20.70	6.97	0.00	28.63	20.02	94.00	33.55	6.80	6.79	6.12	0.25	2.6	2.1

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity	DO Sa	turation	0	00	Tur	bidity	5	SS
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
	2/7/2024	Cloudy	10:17	8.6	7.6	26.90	26.90	8.08	8.08	18.53	18.46	87.70	87 60	6.58	6.58	4.29	4.32	3.1	3.3
	2772024	Oloudy	10:18	8.6	7.6	26.90	20.00	8.07	0.00	18.39	10.40	87.50	07.00	6.57	0.00	4.34	4.02	3.5	
	4/7/2024	Cloudy	12:08	8.6	7.6	27.20	27.10	8.16	8.17	20.55	20.53	92.60	92.55	6.74	6.74	2.76	2.87	3.5	3.1
		,	12:09	8.6	7.6	27.00		8.17		20.50		92.50		6.74	•	2.98		2.6	
	6/7/2024	Cloudy	13:14	8.4	7.4	26.00	26 10	8.27	8 27	24.89	24.95	93.80	94.80	6.69	6.77	4.56	4.63	3.8	4.4
	0///2024	Cioddy	13:15	8.4	7.4	26.20	20.10	8.27	0.27	25.01	24.55	95.80	54.00	6.85	0.77	4.69	4.03	5.0	4.4
	8/7/2024	Cloudy	13:17	8.9	7.9	27.50	27.50	8.32	8.32	22.13	22 19	88.40	88 20	6.83	6.82	1.98	1.84	3.8	4.3
	0///2024	Cioudy	13:18	8.9	7.9	27.50	27.50	8.32	0.32	22.25	22.10	88.00	00.20	6.81	0.02	1.69	1.04	4.7	4.0
	10/7/2024	Fine	14:09	8.9	7.9	28.85	28 90	7.31	7.32	25.99	25.89	99.60	99.10	6.94	6.92	2.18	2 15	1.5	1.7
	10/7/2024	rille	14:10	8.9	7.9	28.94	20.90	7.32	1.32	25.79	25.09	98.60	99.10	6.90	0.92	2.12	2.15	1.8	1.7
	12/7/2024	Cloudy	15:07	8.6	7.6	29.11	29.00	7.11	7.11	25.73	25.57	93.10	92.90	6.52	6.51	2.02	2.10	1.9	2.2
	12/1/2024	Cioudy	15:08	8.6	7.6	28.88	25.00	7.11	7.11	25.41	23.31	92.70	32.30	6.49	0.51	2.17	2.10	2.4	
	15/7/2024	Fine	8:31	8.5	7.5	29.37	29.32	7.02	7.02	25.01	24 94	97.80	97 55	6.94	6.93	1.74	1.85	2.1	2.3
CE	13/7/2024	1 1110	8:32	8.5	7.5	29.27	25.32	7.02	7.02	24.86	24.04	97.30	57.33	6.91	0.55	1.96	1.03	2.4	2.5
OL.	17/7/2024	Cloudy	10:19	8.6	7.6	29.87	29.86	7.02	6.96	24.31	24.26	93.20	92.95	6.84	6.82	1.98	2.09	2.2	2.4
	17/7/2024	Cidudy	10:20	8.6	7.6	29.84	29.00	6.90	6.96	24.20	24.20	92.70	92.95	6.80	0.02	2.19	2.09	2.5	2.4
	19/7/2024	Cloudy	11:16	8.4	7.4	29.07	29.10	6.95	6.95	26.89	26.98	97.40	97 10	6.88	6.87	1.69	1.76	2.5	2.5
	18/1/2024	Cioudy	11:17	8.4	7.4	29.13	25.10	6.94	0.55	27.06	20.50	96.80	37.10	6.86	0.07	1.82	1.70	2.4	2.5
	22/7/2024	Cloudy	13:42	8.4	7.4	28.16	28.15	6.70	6.85	29.03	28.94	92.40	92.30	6.76	6.76	6.24	6.45	6.5	7.1
	22/1/2024	Cidudy	13:43	8.4	7.4	28.13	20.15	6.99	0.00	28.84	20.94	92.20	92.30	6.75	0.76	6.66	0.40	7.6	7.1
	24/7/2024	Cloudy	13:47	8.5	7.5	29.99	29.98	7.00	7.01	30.24	30.31	95.00	95.10	6.86	6.86	8.99	8.89	12.2	10.4
	24/1/2024		13:48	8.5	7.5	29.96	29.90	7.01	7.01	30.38	30.31	95.20	95.10	6.86	0.00	8.79	0.09	8.5	10.4
	26/7/2024	Monsoon Signal							WQM	was cancel	led due to ad	verse weath	er						
	29/7/2024	Cloudy	8:21	8.4	7.4	27.59	27.49	6.94	6.94	28.59	28.68	88.40	88.50	6.80	6.80	2.37	2.46	1.0	1.2
	20/1/2024	Cidudy	8:22	8.4	7.4	27.38	21.49	6.93	0.94	28.77	20.00	88.60	36.30	6.79	0.00	2.54	2.40	1.4	1.2
	31/7/2024	Amber Rain Storm						•	WQM	was cancel	led due to ad	verse weath	er				•		

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	r	Н	Sa	linity		turation		0		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С				pt		%	m			TU		ıg/L
				m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	15:22	8.2	7.2	26.40	26.45	8.05	8.04	20.47	20.41	84.00	85.10	6.27	6.35	2.51	2.66	2.3	
			15:23	8.2	7.2	26.50		8.03		20.35		86.20	- ' '	6.43		2.80		2.1	
	4/7/2024	Cloudy	17:47	8.1	7.1	25.50	25.50	7.98	7.98	25.53	25.47	92.50	92.05	6.94	6.91	3.17	3.13	2.5	
		,	17:48	8.1	7.1	25.50		7.97		25.41		91.60		6.87		3.08		2.7	
	6/7/2024	Cloudy	17:34	7.9	6.9	25.80	25.75	8.24	8 23	24.49	24.44	95.50	96.10	6.79	6.84	4.86	4 99	3.7	4.1
		,	17:35	7.9	6.9	25.70		8.22	0.20	24.38		96.70		6.88	0.0.	5.12		4.4	
	8/7/2024	Cloudy	8:27	8.6	7.6	26.40	26 45	8.23	8 23	23.42	23.28	89.00	88.30	6.80	6.75	2.02	2 07	5.1	4.6
		,	8:28	8.6	7.6	26.50		8.23	0.20	23.14		87.60		6.70		2.12		4.0	
	10/7/2024	Cloudy	9:18	8.6	7.6	28.44	28.39	7.31	7.31	23.64	23.58	99.20	99.10	6.94	8.29	2.02	2.08	5.2	4.8
	10///2024	Oloddy	9:19	8.6	7.6	28.34	20.00	7.31	7.01	23.52	20.00	99.00	00.10	9.63	0.10	2.14	200	4.4	
	12/7/2024	Cloudy	10:15	8.4	7.4	29.56	29.38	7.12	7.13	24.41	24.31	98.30	97.80	6.71	6.65	2.12	2.27	1.8	1.7
	12/1/2024	Oloudy	10:16	8.4	7.4	29.19	20.00	7.13	7.10	24.21	24.01	97.30	07.00	6.59	0.00	2.41		1.6	
	15/7/2024	Fine	12:37	8.3	7.3	30.29	30.31	7.03	7.04	20.37	20.29	93.20	92.45	6.71	6.67	2.19	2.26	3.7	3.9
CE	13/7/2024	Tille	12:38	8.3	7.3	30.33	30.31	7.04	7.04	20.20	20.25	91.70	32.43	6.63	0.07	2.33	2.20	4.0	0.0
OL.	17/7/2024	Cloudy	15:48	8.3	7.3	29.85	29.80	7.03	7.03	25.37	25.26	92.10	91.65	6.38	6.37	1.25	1.42	1.6	1.7
	17/7/2024	Cioudy	15:49	8.3	7.3	29.74	25.00	7.02	7.00	25.14	25.20	91.20	51.00	6.35	0.57	1.59	1.42	1.8	1
	19/7/2024	Cloudy	17:36	8.2	7.2	29.19	29.19	6.96	6.97	26.50	26.57	92.20	92.85	6.75	6.77	2.28	2.24	2.6	3.3
	13/7/2024	Cioudy	17:37	8.2	7.2	29.19	20.10	6.97	0.51	26.64	20.51	93.50	52.00	6.78	0.77	2.20	2.24	4.0	3.3
	22/7/2024	Cloudy	17:13	7.9	6.9	28.10	28.23	7.01	7.01	29.07	29 17	92.00	92 10	6.79	6.80	7.95	7 60	6.2	6.4
	22/1/2024	Cioddy	17:14	7.9	6.9	28.35	20.23	7.00	7.01	29.26	20.17	92.20	32.10	6.80	0.00	7.25	7.00	6.6	0.4
	24/7/2024	Cloudy	8:40	8.8	7.8	29.52	29.49	7.01	7.01	30.55	30.57	94.40	93.25	6.69	6.65	6.25	6.88	8.7	8.0
	24/1/2024		8:41	8.8	7.8	29.46	20.40	7.00	7.01	30.59	30.31	92.10	55.25	6.61	0.03	7.51	0.00	7.2	0.0
	26/7/2024	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	er						
	29/7/2024	Cloudy	12:42	8.2	7.2	27.25	27.28	6.93	6.94	28.14	28.13	95.20	95.50	6.91	6.93	2.89	2.96	<1.0	1.0
	20/1/2024	Cidudy	12:43	8.2	7.2	27.30	21.20	6.94	0.94	28.11	20.13	95.80	35.50	6.94	6.93	3.02	2.90	<1.0	1.0
	31/7/2024	Cloudy	16:07	8.1	7.1	28.77	28.81	6.88	6.85	28.74	28.66	93.20 91.60	92.40	6.77	6.70	5.13 5.46	5.30	2.4	2.5
			16:08	8.1	7.1	28.84		6.82	1	28.57	1	91.60		6.62		5.46		2.5	1

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

	Sampling		Sampling	Water	Sampling	Temp	erature	F	Н	Sa	linity	DO Sa	turation	D	0	Turl	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	٥	С			р	pt		%	mg	g/L	N'	TU	m	ıg/L
	Date		TIIIIO	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	8:43	8.7	1.0	26.80	26.85	8.07	8.07	12.18	12 29	87.70	87 10	6.81	6.79	5.19	5.31	2.6	2.7
	2772024	Oloudy	8:44	8.7	1.0	26.90	20.00	8.07	0.07	12.40	12.20	86.50	07.10	6.76	0.70	5.43	0.01	2.8	
	4/7/2024	Cloudy	10:26	8.7	1.0	27.20	27.15	8.51	8.50	15.57	15.50	95.70	95.50	7.02	7.00	4.21	4.39	5.6	4.3
	4772024	Oloudy	10:27	8.7	1.0	27.10	27.10	8.49	0.00	15.42	10.00	95.30	55.50	6.98	7.00	4.57	4.00	3.0	4.0
	6/7/2024	Cloudy	11:32	8.6	1.0	25.60	25.65	8.24	8 25	24.08	24 16	88.50	87.75	6.45	6.42	4.02	4.07	6.7	
	0112024	Oloudy	11:33	8.6	1.0	25.70	20.00	8.26	0.20	24.24	24.10	87.00	01.10	6.38	0.42	4.12	4.01	5.9	
	8/7/2024	Cloudy	14:42	8.7	1.0	27.40	27.35	8.46	8 45	20.25	20.21	89.80	88.70	6.77	6.70	2.41	2.29	4.9	5.0
	0772024	Oloudy	14:43	8.7	1.0	27.30	27.00	8.44	0.40	20.17	20.21	87.60	00.70	6.63	0.70	2.17	2.20	5.0	0.0
	10/7/2024	Fine	15:54	8.8	1.0	29.94	29.87	7.31	7.30	20.73	20.66	100.80	102.65	6.93	6.99	2.56	2.78	3.6	3.5
	10/7/2024	Tille	15:55	8.8	1.0	29.80	25.07	7.29	7.30	20.59	20.00	104.50	102.00	7.04	0.55	2.99	2.70	3.3	0.0
	12/7/2024	Cloudy	16:34	8.5	1.0	30.23	30.32	7.12	7.12	22.44	22.58	103.70	102.80	7.11	7.08	3.37	3.25	4.2	3.9
	12112024	Oloudy	16:35	8.5	1.0	30.41	00.02	7.11	7.1.2	22.71	22.00	101.90	102.00	7.05	7.00	3.12	0.20	3.6	0.0
	15/7/2024	Fine	6:55	8.6	1.0	30.38	30.40	7.04	7.05	19.20	19.22	101.90	102.15	6.96	7.00	2.13	2.07	3.4	3.2
CF	10/1/2024	1 1110	6:56	8.6	1.0	30.41	00.40	7.05	7.00	19.24	10.22	102.40	102.10	7.03	7.00	2.01	2.01	3.0	
0.	17/7/2024	Cloudy	8:46	8.5	1.0	30.23	30 14	6.98	6.99	20.26	20.32	99.10	98.75	6.85	6.82	3.47	3.31	2.9	2.8
	111112024	Oloudy	8:47	8.5	1.0	30.04	00.14	6.99	0.00	20.37	20.02	98.40	50.75	6.79	0.02	3.14	0.01	2.6	20
	19/7/2024	Cloudy	9:40	8.5	1.0	29.62	29.73	6.96	6.97	22.88	22 90	104.50	105 10	7.11	7 13	2.23	2 16	4.0	3.8
	18/7/2024	Cioddy	9:41	8.5	1.0	29.84	25.73	6.97	0.81	22.91	22.50	105.70	103.10	7.15	7.	2.09	2.10	3.6	0.0
	22/7/2024	Cloudy	12:03	8.6	1.0	28.00	28.11	6.97	6.97	27.94	27.98	95.30	95.55	6.98	7.01	2.44	2.32	2.5	2.7
	22/1/2024	Cioudy	12:04	8.6	1.0	28.22	20.11	6.96	0.51	28.02	21.50	95.80	55.55	7.04	7.01	2.19	2.52	2.8	
	24/7/2024	Cloudy	15:11	8.4	1.0	30.39	30.40	7.01	7.01	28.97	29.55	102.20	101.40	6.96	6.92	4.61	4.49	2.7	2.9
	24/1/2024		15:12	8.4	1.0	30.41	30.40	7.00	7.01	30.12	25.55	100.60	101.40	6.88	0.52	4.37	4.40	3.0	20
	26/7/2024	Strong Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
	29/7/2024	Cloudy	6:42	8.6	1.0	27.91	27.80	6.91	6.91	26.20	26.25	89.80	88.70	6.87	6.85	3.19	3.21	<1.0	1.0
	29/7/2024	Cidudy	6:43	8.6	1.0	27.69	27.00	6.91	0.91	26.29	20.23	87.60	00.70	6.83	0.00	3.23	3.21	<1.0	1.0
	31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	ier						

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

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

Sampling		Sampling	Water	Sampling			F	Н	Sal	inity								SS
Date	Weather	Time	Depth	Depth														ng/L
			m	m		AVG		AVG		AVG		AVG		AVG		AVG		AVG
2/7/2024	Cloudy					27.15		8.16		12.73		91.25		6.90		4.37		2.9
4/7/2024	Cloudy					27 25		8 71		13.31		92 90		6.85		4.91		3.3
6/7/2024	Cloudy	18:58		1.0		25.45		8.39		25.65		92 55		6.61		6.05		10.6
	,	18:59		1.0														
8/7/2024	Cloudy	6:49	8.4	1.0		26.80		8 21		21.06		93.90		6.75		2 01	4.8	4.9
0772024	Cioday	6:50	8.4	1.0	26.90	20.00	8.21	0.21	20.99	21.00	94.30	55.50	6.77	0.70	3.02	2.01	4.9	
10/7/2024	Cloudy	7:37	8.4	1.0	28.38	28.43	7.31	7 31	21.12	21 25	87.50	88 10	6.19	6.22	3.04	3 12	5.3	5.3
10/7/2024	Cioudy	7:38	8.4	1.0	28.47	20.43	7.30	7.51	21.37	21.23	88.70	00.10	6.24	0.22	3.19	3.12	5.3	
12/7/2024	Cloudy	8:34	8.3	1.0	30.42	20.47	7.14	7 16	21.61	21.72	99.10	09.76	6.97	6.04	2.73	262	3.8	3.8
12/1/2024	Cioudy	8:35	8.3	1.0	30.51	30.47	7.15	7.13	21.84	21.73	98.40	30.73	6.90	0.54	2.51	2.02	3.7	3.0
15/7/2024	Eine	15:04	8.2	1.0	30.82	20.76	7.03	7.04	18.41	10 27	102.70	101 20	6.98	6.03	2.94	2 12	3.4	3.3
13/7/2024	11110	15:05	8.2	1.0	30.67	30.73	7.04	7.04	18.32	10.57	99.90	101.30	6.88	0.55	3.30	3.12	3.2	
17/7/2024	Cloudy	17:14	8.2	1.0	30.24	20.21	7.01	7.02	20.48	20.62	94.60	03.60	6.73	6 60	3.52	2 20	3.2	3
17/7/2024	Cioudy	17:15	8.2	1.0	30.37	30.31	7.02	7.02	20.57	20.55	92.60	33.00	6.65	0.03	3.25	3.35	2.9	J.
40/7/2024	Claudia	18:51	8.1	1.0	29.16	20.24	6.99	6.00	22.56	22.05	96.40	07.05	6.85	6.00	2.88	2.05	2.9	3.1
19/7/2024	Cloudy	18:52	8.1	1.0	29.25	29.21	6.99	0.99	22.74	22.03	97.70	97.05	6.95	6.90	2.42	2.00	3.2	3.1
22/7/2024	Claudia	18:37	8.0	1.0	28.39	20.44	6.96	6.07	28.05	20.45	95.20	04.45	6.98	6.00	2.51	2.20	2.4	2.5
22/1/2024	Cloudy	18:38	8.0	1.0	28.43	20.41	6.97	0.97	28.24	20.13	93.10	94.15	6.86	0.92	2.21	2.30	2.6	2.0
04770004	0	7:05	8.6	1.0	29.68	00.74	6.99	0.00	28.86	00.00	99.20	400.40	6.96	7.00	3.09	0.40	3.0	2.9
24/1/2024	Cloudy	7:06	8.6	1.0	29.79	29.74	6.99	6.99	28.99	28.93	101.60	100.40	7.04	7.00	3.23	3.16	2.7	2.3
26/7/2024	Strong Monsoon							WQM	was cancelle	ed due to ad	verse weath	ner					•	
		14:07	8.2	1.0	27.26		6.94		26.73		93.50		6.80		2.85		12	
29/7/2024	Cloudy	14:08	8.2	1.0	27.51	27.39	6.95	6.95	26.51	26.62		94.00	7.03	6.92	2.72	2.79	1.5	
		17:28		1.0											4 47			
31/7/2024	Cloudy					28.20		6.91		28.97		104.00		6.91		4.60	1.8	
	Date 9 2/7/2024 4/7/2024 6/7/2024 10/7/2024 11/7/2024 11/7/2024 11/7/2024 22/7/2024 22/7/2024	Date Weather 2/7/2024 Cloudy 4/7/2024 Cloudy 6/7/2024 Cloudy 8/7/2024 Cloudy 10/7/2024 Cloudy 12/7/2024 Cloudy 15/7/2024 Cloudy 15/7/2024 Cloudy 15/7/2024 Cloudy 2/7/2024 Cloudy	Date Weather Time 2 2/7/2024 Cloudy 16.47 4/7/2024 Cloudy 19.04 4/7/2024 Cloudy 19.05 6/7/2024 Cloudy 18.59 8/7/2024 Cloudy 6.50 10/7/2024 Cloudy 7.37 10/7/2024 Cloudy 8.35 15/7/2024 Fine 15.04 15/7/2024 Cloudy 15.06 15/7/2024 Cloudy 15.06 17/7/2024 Cloudy 17.74 17/7/2024 Cloudy 18.51 18/7/2024 Cloudy 18.51 18/7/2024 Cloudy 18.51 18/7/2024 Cloudy 7.06 22/7/2024 Cloudy 7.06 24/7/2024 Cloudy 7.06 25/7/2024 Cloudy 7.06 25/7/2024 Cloudy 14.07 26/7/2024 Cloudy 14.07	Sampling Date Depth Depth Date Depth Date Depth Depth	Sampling Date Depth Dept	Sampling Date Depth Depth Depth Date	Sampling Date Depth Depth Text	Sampling Date Depth Dept	Sampling Date Depth Depth Popth Popt	Sampling Date	Sampling Date Depth Depth Sampling Date Time m m Value AVG AVG Value AVG AVG Value AVG AVG	Sampling Date Depth Time m Walue AVG Value AVG Value	Sampling Date Depth Time m Walue AVG Value AVG Value	Sampling Date Depth Time Time Walue AVG Value AVG Valu	Sampling Date Depth Dept	Sampling Date Depth Time Time	Sampling Date Depth Time Time	Sampling Date Depth Time m Walse AVG Walse AVG Value AVG Value

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation		00		bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth	°C			-		ppt		%	m		NTU			ıg/L
				m	m		AVG	Value	AVG		AVG		AVG		AVG		AVG	Value	AVG
	2/7/2024	Cloudy	8:47	8.7	4.4	26.70	26.75	8.09	8.09	13.17	13.21	85.90	85.35	6.72	6.69	4.03	4.01	2.4	2.4
			8:48	8.7	4.4	26.80		8.08	0.00	13.24		84.80		6.65	0.00	3.99		2.4	
	4/7/2024	Cloudy	10:30	8.7	4.4	27.00	27.00	8.41	8 41	16.85	16.94	93.00	93.05	6.84	6.85	4.12	4.04	3.8	
	4//2024	,	10:31	8.7	4.4	27.00		8.40		17.02		93.10		6.86	0.00	3.96	4.04	4.2	
	6/7/2024	Cloudy	11:36	8.6	4.3	25.10	25.05	8.13	8 13	24.99	24.95	87.80	88.10	6.40	6.42	3.92	3.81	6.0	
	0172024	Oloudy	11:37	8.6	4.3	25.00	20.00	8.13	0.10	24.90	24.00	88.40	00.10	6.43	0.42	3.69	0.01	8.2	
	8/7/2024	Cloudy	14:46	8.7	4.4	27.10	27 20	8.41	8.42	21.28	21.35	89.00	89 60	6.71	6.75	2.94	274	4.2	4.2
	0//2024 Cloudy	14:47	8.7	4.4	27.30	21.20	8.42	0.42	21.41	21.55	90.20	05.00	6.79	0.73	2.54	2.74	4.2		
	10/7/2024	10/7/2024 Fine	15:58	8.8	4.4	29.59	28.16	7.30	7.30	21.41	21 49	98.60	97.85	6.87	6.85	2.39	2.26	2.5	2.6
	10/7/2024		15:59	8.8	4.4	26.73		7.30		21.56	21.49	97.10	97.00	6.82	0.00	2.12	2.20	2.7	2.0
	12/7/2024	Cloudy	16:38	8.5	4.3	29.25	29.16	7.22	7 17	25.41	25.36	96.20	96.70	6.69	6.75	3.99	3.60	2.8	2.9
	12///2024	Cidudy	16:39	8.5	4.3	29.06	29.10	7.11	7.17	25.31	25.30	97.20	96.70	6.81	6.75	3.21	3.00	3.0	2.0
	15/7/2024	Fine	6:59	8.6	4.3	30.38	30.37	7.04	7 04	19.17	19 13	92.70	93.25	6.60	6.62	2.10	2.14	2.8	2.8
CF	15/7/2024	rille	7:00	8.6	4.3	30.36	30.37	7.04	7.04	19.09	19.13	93.80	93.25	6.63	0.02	2.17	2.14	2.7	2.0
CF	47770004	Cloudy	8:50	8.5	4.3	30.24	30.16	6.98	6.98	21.31	21.26	96.40	96.05	6.71	0.00	2.59	2.73	2.6	2.5
	17/7/2024	Cloudy	8:51	8.5	4.3	30.08		6.98	6.98	21.20	21.26	95.70	96.05	6.67	6.69	2.86	2.13	2.3	2.5
	19/7/2024		9:44	8.5	4.3	29.54	29.50	6.96	0.00	23.53	23.52	99.80	99.20	6.91	6.89	2.56	2 67	3.4	3.4
	19/7/2024	Cloudy	9:45	8.5	4.3	29.46		6.96		23.50		98.60	99.20	6.86	6.89	2.78	2.67	3.3	3.4
			12:07	8.6	4.3	28.17	28 13	6.97	6.98	28.61	28.55	94.00		6.97	6.92	2.17		1.8	1.7
	22/7/2024	Cloudy	12:08	8.6	4.3	28.08	28.13	6.98	6.98	28.48	28.55	92.60	93.30	6.87	6.92	2.35	2.26	1.6	1./
			15:15	8.4	4.2	30.47		7.00		28.97		95.00		6.63		3.50		1.6	
	24/7/2024 Clo	Cloudy	15:16	8.4	4.2	30.36	30.42	7.01	7.01	28.94	28.96	96.60	95.80	6.68	6.66	3.02	3.26	1.7	1.7
	26/7/2024	Strong Monsoon Signal					I		WQM		ed due to ad		er		I		I		
	00/7/0004		6:46	8.6	4.3	27.49	27.61	6.91	6.91	27.21	07.00	89.80	00.40	6.88	6.89	3.34	3.28	1.3	1.4
	29/7/2024	Cloudy	6:47	8.6	4.3	27.73	27.61	6.90	6.91	27.19	27.20	89.00	89.40	6.89	6.89	3.22	3.28	1.5	1.4
	31/7/2024	Amber Rain Storm							WQM	was cancell	ed due to ad	verse weath	er						

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

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

Sampling Date	Weather	Sampling		Sampling	Temperature		pH		Salinity		DO Saturation		DO		Turbidity		+	SS
Date	Weather	Time	Depth	Depth	٩					pt		%	m			TU		ng/L
		11110	m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG	Value	AVG
2/7/2024	Cloudy	16:51	8.2	4.1	27.00	27 00	8.15	8.15	12.95	12.85	89.40	90.40	6.72	6.81	3.42	3.30	2.5	
		16:52		4.1	27.00	27.00		0.10	12.74	12.00		50.40		0.01		0.00	2.3	
4/7/2024	Cloudy	19:08	8.0	4.0	27.40	27 35	8.68	8.60	13.49	13.41	92.00	91 10	6.79	6.73	5.47	5.33	2.8	3.1
	,	19:09	8.0	4.0	27.30	21100	8.69		13.33		90.20		6.67		5.19		3.3	
6/7/2024	Cloudy	19:02	8.0	4.0	25.40	25.00	8.04	8.04	26.24	26.21	94.60	94.20	6.78	6.74	5.24	5.13	10.1	
0///2024	Cloudy	19:03	8.0	4.0	24.60	25.00	8.03	0.04	26.17	20.21	93.80	34.20	6.69	0.74	5.02	5.15	9.5	5.0
8/7/2024	Cloudy	6:53	8.4	4.2	26.40	26.40	8.17	8 17	24.10	24 18	92.20	92.85	6.66	6.71	3.79	3.67	2.2	3.5
0112024	Oloudy	6:54	8.4	4.2	26.40	20.40	8.16	0.17	24.25	24.10	93.50	02.00	6.75	0.71	3.54	0.07	4.7	0.0
10/7/2024	Cloudy	7:41	8.4	4.2	28.67	20.50	7.31	7 21	22.74	22.66	94.50	04.20	6.64	6.63	3.10	2.02	3.5	3.7
	Oloudy	7:42	8.4	4.2	28.48	20.30	7.31	7.31	22.57	22.00	94.10	54.30	6.62	0.03	2.96	3.03	3.8	0.7
	Cloudy	8:38	8.3	4.2	29.42	20.02	7.12	7 12	24.95	24.01	92.40		6.69	6.71	2.29	2.26	3.4	3.2
	Cloudy	8:39	8.3	4.2	28.22	20.02	7.12	7.12	24.86	24.51	93.80	55.10	6.73	0.71	2.42	2.30	3.0	0.2
45/7/2004	E	15:08	8.2	4.1	30.46	20.55	7.05	7.05	20.11	20.46	98.30	00.05	6.79	6.04	2.80	2.70	3.9	3.8
15/7/2024	rille	15:09	8.2	4.1	30.64	30.55	7.04	7.05	20.21	20.16	99.60	90.95	6.83	0.01	2.71	2.76	3.6	3.0
47/7/0004	Cloudy	17:18	8.2	4.1	30.25	20.24	7.01	7.04	20.74	20.05	95.40	05.45	6.89	6.00	2.19	2 20	2.8	2.7
17/7/2024	Cloudy	17:19	8.2	4.1	30.22	30.24	7.00	7.01	20.56	20.05	95.50	95.45	6.90	6.90	2.59	2.39	2.6	2.7
10/7/2024	Cloudy	18:55	8.1	4.1	29.12	20.05	6.99	6.99	24.56	24.60	95.40	95.35	6.79	6.70	1.73	1 01	4.6	4.0
18/7/2024	Cloudy	18:56	8.1	4.1	28.97	29.05	6.98		24.43	24.50	95.30	55.55	6.79	0.75	1.88	1.01	3.4	4.0
22/7/2024	Claudin	18:41	8.0	4.0	28.49	20.42	6.97	6.07	28.31	20.22	94.40	02.50	6.93	6.00	2.54	274	2.3	2.4
22/1/2024	Cloudy	18:42	8.0	4.0	28.34	20.42	6.97	0.97	28.15	20.23	92.60	93.50	6.82	0.00	2.93		2.5	2.4
24/7/2024	Claudin	7:09	8.6	4.3	29.58	20.50	7.00	7.00	29.45	20.44	94.20	04.45	6.82	6.00	3.44	2 27	3.1	2.9
24/7/2024		7:10	8.6	4.3	29.42	29.50	7.00	7.00	29.37	29.41	94.70	94.45	6.84	0.03	3.29	3.31	2.6	2.9
Strong Manager								wow						•	•			
26/7/2024								WQM	was cancell	ed due to ad	verse weatn	ier						
29/7/2024 Cloudy		14:11	8.2	4.1	27.20	07.47	6.95	6.05	28.79	20.05	93.70	02.00	6.80	6.04	4.82	4.00	2.4	2.5
	Cioudy	14:12	8.2	4.1	27.14	27.17	6.94	6.95	28.90	28.85	93.90	93.80	6.81	6.81	5.02		2.6	2.5
24/7/2024	Claudi	17:32	8.3	4.2	28.36	20.26	6.90	6.04	28.80	20.00	105.20	404.25	6.99	6.00	4.85	4.72	3.7	3.3
31/7/2024	Cioudy	17:33	8.3	4.2	28.15	28.26	6.92	6.91	28.79	28.80	103.50	104.35	6.84	6.92	4.61	4./3	2.8	3.3
	4/7/2024 6/7/2024 8/7/2024 10/7/2024 12/7/2024 15/7/2024 17/7/2024 19/7/2024 22/7/2024 24/7/2024 29/7/2024 31/7/2024	4/7/2024 Cloudy 6/7/2024 Cloudy 8/7/2024 Cloudy 10/7/2024 Cloudy 12/7/2024 Cloudy 12/7/2024 Cloudy 15/7/2024 Cloudy 19/7/2024 Cloudy 22/7/2024 Cloudy 22/7/2024 Cloudy 24/7/2024 Cloudy 24/7/2024 Cloudy 24/7/2024 Cloudy 24/7/2024 Cloudy 35/7/2024 Cloudy 35/7/2024 Cloudy 35/7/2024 Cloudy 31/7/2024 Cloudy	16,000 1	277/2024 Cloudy 16:52 8.2	16:52 8.2 4.1	167/2024 Cloudy 1652 8.2 4.1 27.00 167/2024 Cloudy 1908 8.0 4.0 27.40 1909 8.0 4.0 27.50 1909 8.0 4.0 27.50 1909 8.0 4.0 27.50 1902 8.0 4.0 25.40 1903 8.0 4.0 25.40 1903 8.0 4.0 25.40 1903 8.0 4.0 25.40 1903 8.0 4.0 25.40 1903 8.0 4.0 25.40 107/2024 Cloudy 7.41 8.4 4.2 28.67 127/2024 Cloudy 7.42 8.4 4.2 28.67 127/2024 Cloudy 8.38 8.3 4.2 29.42 127/2024 Cloudy 8.39 8.3 4.2 29.42 157/2024 Fine 15.08 8.2 4.1 30.46 177/2024 Cloudy 7.18 8.2 4.1 30.25 197/2024 Cloudy 17.18 8.2 4.1 30.25 197/2024 Cloudy 18.50 8.1 4.1 29.12 197/2024 Cloudy 18.50 8.1 4.1 29.12 197/2024 Cloudy 18.50 8.1 4.1 29.12 227/2024 Cloudy 7.00 8.6 4.3 29.42 247/2024 Cloudy 7.10 8.6 4.3 29.42 247/2024 Cloudy 14.11 8.2 4.1 27.00 247/2024 Cloudy 17.32 8.3 4.2 28.36	277,0024 Cloudy 165.52 8.2 4.1 27.00 27.00	Arrivable Arri	17/2024 Cloudy 16:52 8.2 4.1 27:00 8.15 8.	16.52	17/2024 Cloudy 16:52 8.2 4.1 27:00 27:00 8.15 1.348 12.48 12.48 12.49	Africance Afri	Africance Afri	Africance Afri	14/7/2024 Cloudy 16.52 8.2 4.1 27.00 27.00 8.15 8.19 12.74 12.85 91.40 99.40 6.90 6.73 4/7/2024 Cloudy 19.08 8.0 4.0 27.40 27.35 8.68 8.69 13.33 13.41 92.00 91.10 6.67 6.73 6/7/2024 Cloudy 19.02 8.0 4.0 22.40 25.00 8.63 8.68 13.33 13.41 90.20 91.10 6.67 6.73 8/7/2024 Cloudy 19.02 8.0 4.0 22.40 25.00 8.63 8.68 26.71 22.11 64.60 94.20 6.69 6.74 8/7/2024 Cloudy 6.53 8.4 4.2 22.40 26.40 8.16 24.25 24.10 24.18 92.20 92.85 6.66 6.71 10/7/2024 Cloudy 7.41 8.4 4.2 28.67 28.85 7.31 7.31 22.74 22.68 94.50 94.20 6.62 12/7/2024 Cloudy 8.38 8.3 4.2 22.48 28.82 7.712 7.12 24.95 24.91 92.40 93.00 6.62 15/7/2024 Fine 15.08 8.2 4.1 30.48 30.55 7.04 7.05 20.21 20.16 99.80 98.9 6.83 6.81 17/7/2024 Cloudy 17.18 8.2 4.1 30.25 30.24 7.00 7.01 7.01 20.74 20.7	277/2024 Cloudy 1652 8.2	Arrivary Cloudy 1652 8.2	Arrivary Cloudy 1652 8.2

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

	Sampling		Sampling	Water	Sampling		erature	F	Н	Sa	linity		turation		0		bidity		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
	2/7/2024	Cloudy	8:50	8.7	7.7	26.70	26.70	8.09	8.09	13.78	13.73	83.80	84.15	6.52	6.56	3.64	3.81	2.1	2.2
	2772024	Oloudy	8:51	8.7	7.7	26.70	20.70	8.09	0.00	13.68	10.70	84.50	04.10	6.60	0.00	3.98	0.01	2.2	
	4/7/2024 Cloudy	Cloudy	10:33	8.7	7.7	25.80	25.80	8.08	8.07	22.94	22.89	92.80	93.50	6.87	6.90	3.42	3.55	4.0	3.0
		,	10:34	8.7	7.7	25.80		8.06		22.84		94.20		6.92		3.67		2.0	
	6/7/2024	Cloudy	11:39	8.6	7.6	24.70	24.60	8.01	8.00	25.98	25.89	88.20	90.00	6.39	6.46	3.25	3.46	7.8	12.2
	0/1/2024	Oloudy	11:40	8.6	7.6	24.50	24.00	7.99	0.00	25.79	20.00	91.80	50.00	6.52	0.40	3.67	0.40	16.5	
	8/7/2024	Cloudy	14:49	8.7	7.7	26.40	26.35	8.24	8 24	24.50	24.37	86.60	86.20	6.55	6.53	1.87	1.95	5.6	6.0
	0///2024	Oloudy	14:50	8.7	7.7	26.30	20.00	8.24	0.24	24.23	24.07	85.80	00.20	6.50	0.00	2.02	1.00	6.3	1
	10/7/2024	7/2024 Fine	16:01	8.8	7.8	29.30	29.28	7.31	7.32	24.23	24 17	95.90	96.05	6.74	6.76	2.19 2.44	2.32	3.6	3.7
	10/7/2024		16:02	8.8	7.8	29.26	25.20	7.32	7.32	24.10	24.17	96.20		6.78	0.70		2.32	3.8	J
	12/7/2024 Cloudy	Cloudy	16:41	8.5	7.5	28.47	28.42	7.10	7 10	26.83	26.93	95.60	95.35	6.63	6.62	2.65	2.54	2.1	1.9
	12///2024	Cioddy	16:42	8.5	7.5	28.37	20.42	7.10	7.10	27.02	20.83	95.10	55.55	6.60	0.02	2.42	2.04	1.6	1.0
	15/7/2024	Fine	7:02	8.6	7.6	30.18		7.04	7.05	19.13	19.08	99.40	98.90	6.80	6.79	2.44	2.37	2.6	2.6
CF	10/1/2024	1 1110	7:03	8.6	7.6	30.20		7.05	7.00	19.02	10.00	98.40	50.50	6.78	0.75	2.29	2.01	2.6	1
Oi Oi	17/7/2024	Cloudy	8:53	8.5	7.5	29.86	29.93	6.98		21.31	21.41	95.60	96.10	6.65	6.69	3.10	3.04	1.9	1.8
	17/7/2024	Cioudy	8:54	8.5	7.5	29.99		7.00		21.50	21,41	96.60	96.10	6.72	0.03	2.98	3.04	1.7	1
	19/7/2024	Cloudy	9:47	8.5	7.5	29.32	29.36	6.95	6.96	23.94	24 04	94.80	95.45	6.72	6.78	2.50	2.46	3.0	3.1
	13/7/2024	Cioudy	9:48	8.5	7.5	29.40	25.50	6.96	0.30	24.13	24.04	96.10	55.45	6.83	0.70	2.41	2.40	3.1	J. 1
	22/7/2024	Cloudy	12:10	8.6	7.6	28.15	28 20	6.97	6.97	28.69	28.77	91.30	91.05	6.76	6.74	1.99	1 79	1.2	1.2
	22/1/2024	Cidudy	12:11	8.6	7.6	28.24	20.20	6.97	6.97	28.84	20.11	90.80	91.05	6.71	0.74	1.58	1.79	1.1	1.2
	24/7/2024	Claudin	15:18	8.4	7.4	30.03	30.01	7.01	7.01	29.49	29.61	94.50	94.20	6.60	6.59	3.83	3.76	1.6	1.7
	24/7/2024 Cloudy		15:19	8.4	7.4	29.98	30.01	7.01	7.01	29.73	25.01	93.90	54.20	6.57	0.55	3.69	3.70	1.8	1
	26/7/2024 Monsoi Signa	Monsoon Signal							WQM	was cancell	led due to ad	verse weath	er						
		Cloudy	6:49	8.6	7.6	27.42	27.33	6.90	6.90	28.52	28.56	88.10	07.00	6.85	6.83	3.16	3.23	1.9	1.8
	29/1/2024	Cioudy	6:50	8.6	7.6	27.23	27.33	6.90	6.90	28.60	28.56	87.10		6.80	6.83	3.29	3.23	1.7	1.8 I
	31/7/2024	Amber Rain Storm							WQM	was cancell	led due to ad	verse weath	er			•			

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		erature	F	Н	Sa	linity	DO Sa	turation	D	0	Tur	bidity		SS
Station Reference	Date	Weather	Time	Depth	Depth		С			ppt		%		mg/L			TU		ng/L
	Duto			m	m	Value	AVG	Value	AVG	Value	AVG	Value	AVG		AVG	Value	AVG	Value	AVG
	2/7/2024	Cloudy	16:54	8.2	7.2	26.10	26.20	7.95	7 98	24.25	24.33	88.00	87.55	6.65	6.63	2.39	2.51	1.6	
		,	16:55	8.2	7.2	26.30		8.00		24.41		87.10	0	6.60		2.62		1.8	
	4/7/2024	Cloudy	19:11	8.0	7.0	27.00	26.95	8.58	8.58	14.98	14.89	92.70	92.10	6.84	6.80	3.78	3.88	3.1	
		,	19:12	8.0	7.0	26.90		8.58	0.00	14.80		91.50		6.76	0.00	3.98	0.00	2.6	
	6/7/2024	Cloudy	19:05	8.0	7.0	24.30	24 25	8.00	8.00	26.51	26.68	90.70	90.60	6.62	6.62	4.87	5.00	10.9	
		,	19:06	8.0	7.0	24.20		8.00		26.84		90.50		6.61	0.02	5.12		9.6	
	8/7/2024	Cloudy	6:56	8.4	7.4	26.20	26.15	8.14	8 15	24.94	24 87	90.50	90.95	6.57	6.60	2.94	3.07	3.6	
	0772024	72024 Globaly	6:57	8.4	7.4	26.10	20.10	8.15	0.10	24.80	24.07	91.40	00.00	6.62	0.00	3.19	0.01	3.4	
	10/7/2024 Cloudy	Cloudy	7:44	8.4	7.4	28.51	28.66	7.30	7.30	22.80	22.89	91.60	92.35	6.38	6.40	2.39	2.27	3.1	
			7:45	8.4	7.4	28.80		7.29		22.98		93.10	02.00	6.42		2.15		3.7	
	12/7/2024 Cloudy	Cloudy	8:41	8.3	7.3	28.22	28.37	7.13	7.13	26.12	26.27	92.20	91.55	6.66	6.62	2.42	2.41	2.8	
			8:42	8.3	7.3	28.51		7.12		26.42		90.90		6.58		2.40		2.5	
	15/7/2024	Fine	15:11	8.2	7.2	29.74	29.66	7.03	7.03	24.05	24.00	96.40	96.00	6.74	6.72	2.09	2.30	4.1	
CF			15:12	8.2	7.2	29.58		7.03		23.95		95.60		6.70		2.50		4.3	
	17/7/2024	Cloudy	17:21	8.2	7.2	30.11	30.08	7.69	7.69	21.23	21.29	95.20	94.40	6.87	6.82	2.73	2.55	2.3	
			17:22	8.2	7.2	30.04		7.69		21.34		93.60		6.77		2.37		2.5	
	19/7/2024	Cloudy	18:58	8.1	7.1	28.84	28.87	6.97		25.32		95.80	96.60	6.81	6.85	2.05	1.97	3.7	
			18:59	8.1	7.1	28.90		6.96		25.40		97.40		6.88		1.89		3.2	
	22/7/2024	Cloudy	18:44	8.0	7.0	28.15	28.26	6.95	6.96	29.03	29.09	83.00	84.30	6.26	6.28	2.82	2.60	1.9	
		-	18:45	8.0	7.0	28.37		6.96		29.14		85.60		6.30		2.37		1.7	_
	24/7/2024	Cloudy	7:12	8.6	7.6	29.37	29.45	7.01	7.01	29.86	29.92	93.00	94.05	6.79	6.82	4.73	4.84	4.4	
		Strong	7:13	8.6	7.6	29.53		7.00		29.97		95.10		6.85		4.94		3.8	<u></u>
	26/7/2024	Monsoon Signal							WQM	was cancell	ed due to ad	verse weath	er						
		Cloudy	14:14	8.2	7.2	27.60	27.32	6.95	6.95	27.80	28.04	91.50	90.90	6.70	6.68	4.40	4.30	3.4	
	25,7,2024	Gioddy	14:15	8.2	7.2	27.04	27.32	6.95	0.55	28.27	20.04	90.30	30.80	6.66	0.00	4.19	4.50	3.6	
	31/7/2024	Cloudy	17:35 17:36	8.3 8.3	7.3 7.3	27.95 28.13	28.04	6.91	6.91	28.65 28.84	28.75	93.40 91.80	92.60	6.68	6.65	4.52 4.78	4.65	2.9	

Appendix 4.5

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2024

	Ac	ctual Quantities	of Inert C&D	Material Gen	erated Monthl	y	Actu	al Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated (a)	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	1.68	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00	0.00	8.63
Feb	0.18	0.00	0.00	0.00	0.18	0.00	8.1554	0.0418	0.0011	0.00	17.86
Mar	0.19	0.00	0.00	0.00	0.19	0.00	0.0053	0.0454	0.0017	0.00	13.31
Apr	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	7.67
May	1.27	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	10.26
Jun	2.57	0.00	0.00	0.00	2.57	0.00	0.00	0.0999	0.00	0.00	12.42
Sub-total	5.96	0.00	0.00	0.00	5.96	0.00	8.1607	0.1871	0.0028	0.00	70.15
July	1.37	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	8.96
Aug											
Sept											
Oct											
Nov											
Dec											
Total	7.33	0.00	0.00	0.00	7.33	0.00	8.1607	0.1871	0.0028	0.00	79.11

Notes:

- (1) The inert C&D material except slurry and bentonite are disposed at Mui Wo Temporary Public Fill Bank (MW-PFRF) or Tuen Mun Area 38 Fill Bank (TM38-FB)
- (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, Chi Ma Wan Road
2	Excavation and site formation at SSWSTW and POSPS
3	Removal works of ELS
4	ELS works
5	Superstructure RC Works
6	E&M Installation at POSPS

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 (August, September and October 2024) Construction Rolling Program

Item	Construction Activities
1	Excavation, sewer laying, construction of manhole at Pui O Lo UkTsuen, South Lantau Road, Chi Ma Wan Road
2	Dredging at marine *
3	Site formation works
4	Drilling works
5	Excavation works
6	ELS works
7	Superstructure RC Works
8	Removal works of ELS
9	E&M Installation at POSPS

^{*}Note: Dredging and related marine works were suspended, contractor will notice ET one month before commencement of marine works.