


Civil Engineering and Development Department

**Agreement No. CE 59/2015 (EP)
Environmental Team for
Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

**Quarterly Environmental
Monitoring and Audit Report –
August 2021 – October 2021**

(version 1.0)

Approved By 
(Dr. HF Chan,
Environmental Team Leader)

REMARKS:

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

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

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Date: 22 June 2022

Attention: Mr Raymond Chan

BY FAX & POST
(Fax no.: 2739 0076)

Dear Sirs

Agreement No.: NTE 06/2016
Independent Environmental Checker for Tseung Kwan O – Lam Tin Tunnel
Quarterly Environmental Monitoring and Audit Report for August 2021 to October 2021

We refer to emails of 10 and 21 June 2022 from Cinotech Consultants Limited attaching the Quarterly Environmental Monitoring and Audit Report for August 2021 to October 2021.

We have no further comment and hereby verify the captioned report.

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

Yours faithfully
ANewR CONSULTING LIMITED

James Choi
Independent Environmental Checker

CPSJ/LCCR/LTKE/lsm

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EXECUTIVE SUMMARY

Introduction

1. This is the 20th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel – Design and Construction” (hereinafter called “the Project”). This summary report presents the EM&A works performed in the period from August 2021 to October 2021.
2. During the reporting quarter, the following works contracts were undertaken within the site:
 - Contract No. NE/2015/01 – Tseung Kwan O – Lam Tin Tunnel – Main Tunnel and Associated Works
 - Contract No. NE/2015/02 – Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works
 - Contract No. NE/2017/01 – Tseung Kwan O – Lam Tin Tunnel – Tseung Kwan O Interchange and Associated Works
 - Contract No. NE/2017/02 – Tseung Kwan O – Lam Tin Tunnel – Road P2/D4 and Associated Works
 - Contract No. NE/2017/06 – Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System(TCSS) and Associated Works
 - Contract No. NE/2017/07 – Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works

Environmental Monitoring Works

3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans, and environmental complaint handling procedures were also checked.
4. Summary of the non-compliance in the reporting quarter for the Project is tabulated in **Table I**. Details of the environmental monitoring results are presented in **Section 3**.

Table I Non-compliance (Exceedance) Record for the Project in the Reporting Quarter

| Parameter | No. of Exceedance | | No. of Exceedance due to Construction Activities of this Project | | Action Taken |
|------------------------------------------------------|-------------------|------------------|------------------------------------------------------------------|------------------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | |
| August 2021 | | | | | |
| Air Quality | 0 | 0 | 0 | 0 | N/A |
| Noise | 0 | 0 | 3 | 0 | Refer to Appendix K & L |
| Marine Water Quality | 58 | 130 | 0 | 0 | Refer to Appendix K |
| Groundwater Level Monitoring (Piezometer Monitoring) | N/A | N/A ¹ | N/A | N/A ¹ | N/A |
| Ecological | N/A | N/A | N/A | N/A | N/A |
| Cultural Heritage | 0 | 0 | 0 | 0 | N/A |
| Landfill Gas | 0 | 0 | 0 | 0 | N/A |

| Parameter | No. of Exceedance | | No. of Exceedance due to Construction Activities of this Project | | Action Taken |
|------------------------------------------------------|-------------------|------------------|------------------------------------------------------------------|------------------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | |
| September 2021 | | | | | |
| Air Quality | 1 | 1 | 0 | 2 | Refer to Appendix K |
| Noise | 3 | 0 | 3 | 0 | Refer to Appendix K & L |
| Marine Water Quality | 10 | 62 | 0 | 0 | Refer to Appendix K |
| Groundwater Level Monitoring (Piezometer Monitoring) | N/A | N/A ¹ | N/A | N/A ¹ | N/A |
| Ecological | N/A | N/A | N/A | N/A | N/A |
| Cultural Heritage | 0 | 0 | 0 | 0 | N/A |
| Landfill Gas | 0 | 0 | 0 | 0 | N/A |
| October 2021 | | | | | |
| Air Quality | 0 | 0 | 0 | 0 | N/A |
| Noise | 0 | 0 | 1 | 0 | Refer to Appendix K & L |
| Marine Water Quality | 25 | 55 | 0 | 0 | Refer to Appendix K |
| Groundwater Level Monitoring (Piezometer Monitoring) | N/A | N/A ¹ | N/A | N/A ¹ | N/A |
| Ecological | N/A | N/A | N/A | N/A | N/A |
| Cultural Heritage | 0 | 0 | 0 | 0 | N/A |
| Landfill Gas | 0 | 0 | 0 | 0 | N/A |

Note:

(1) No Limit Level for Groundwater Level Monitoring (Piezometer Monitoring).

Key Information in the Reporting Quarter5. Summary of key information in the reporting quarter is tabulated in **Table II**.**Table II Summary Table for Key Information in the Reporting Quarter**

| Event | Event Details | | Action Taken | Status | Remark |
|---------------------------------------------------------------------------|---------------|-----------------------|-------------------------|--------|------------------------|
| | Number | Nature | | | |
| Complaint received by Project Team / Complaint referred by EPD (Aug 2021) | 3 | Noise | Investigation Completed | Closed | Details refer to App L |
| Complaint received by Project Team / Complaint referred by EPD (Sep 2021) | 6 | Air / Noise | Investigation Completed | Closed | |
| Complaint received by Project Team / Complaint referred by EPD (Oct 2021) | 3 | Noise / Odour / Water | Investigation Completed | Closed | |
| Reporting Changes | 0 | --- | N/A | N/A | --- |
| Notifications of any summons & prosecutions received (Aug 2021) | 0 | --- | N/A | N/A | --- |

| Event | Event Details | | Action Taken | Status | Remark |
|-----------------------------------------------------------------|---------------|--------|--------------|--------|--------|
| | Number | Nature | | | |
| Notifications of any summons & prosecutions received (Sep 2021) | 0 | --- | N/A | N/A | --- |
| Notifications of any summons & prosecutions received (Oct 2021) | 0 | --- | N/A | N/A | --- |

Remarks:

6. Environmental monitoring works for the Project are considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations.

1. INTRODUCTION

Background

- 1.1 In 2002, Civil Engineering and Development Department (CEDD) commissioned an integrated planning and engineering study under Agreement No. CE 87/2001 (CE) “Further Development of Tseung Kwan O – Feasibility Study” (the “TKO Study”) to formulate a comprehensive plan for further development of TKO New Town. It recommended to further develop TKO to house a total population of 450,000 besides the district’s continuous commercial and industrial developments.
- 1.2 At present, the Tseung Kwan O Tunnel is the main connection between Tseung Kwan O (TKO) and other areas in the territory. To cope with the anticipated transport need, the TKO Study recommended the provision of Tseung Kwan O – Lam Tin Tunnel (TKO-LTT) (hereinafter referred to as “the Project”) and Cross Bay Link (CBL) to meet the long-term traffic demand between TKO and the external areas. The site layout plan for the Project is shown in **Figure 1**.
- 1.3 The Environmental Impact Assessment (EIA) Report for the TKO-LTT project was approved under the Environmental Impact Assessment Ordinance (EIAO) in July 2013. The corresponding Environmental Permit (EP) was issued in November 2013 (EP no.: EP-458/2013). Variations to the EP was applied and the latest EP (EP no.: EP-458/2013/C) was issued by the Director of Environmental Protection (DEP) in January 2017.

Project Organizations

- 1.4 Different parties with different levels of involvement in the project organization include:
- Project Proponent – Civil Engineering and Development Department (CEDD)
 - The Engineer and the Engineer’s Representative (ER) – AECOM
 - Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) – AnewR Consulting Limited (AnewR)
- 1.5 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

| Party | Role | Contact Person | Phone No. | Fax No. |
|----------|-----------------------------------|-----------------------|-----------|-----------|
| CEDD | Project Proponent | Mr. LO Sai Pak, Sunny | 2301 1384 | 2739 0076 |
| AECOM | Engineer’s Representative | Mr. Jackie Ng | 3910 1601 | 3910 1600 |
| Cinotech | Environmental Team | Dr. HF Chan | 2151 2088 | 3107 1388 |
| | | Mr. KS Lee | 2151 2091 | |
| AnewR | Independent Environmental Checker | Mr. James Choi | 2618 2836 | 3007 8648 |

Construction Activities undertaken during the Report Quarter

- 1.6 The major site activities undertaken in the reporting quarter are shown in **Appendix M**.

2. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

- 2.1 The EM&A Manual designates locations for environmental monitoring in terms of air quality, noise, groundwater quality, water quality, ecology, cultural heritage and landfill gas due to the Project. The Project area and monitoring locations are depicted in **Figures 1 - 6**. **Appendix A** gives details of monitoring requirements. Locations of the environmental sensitive receivers are shown in **Figures 3.1, 3.2, 4.1, 5.1, 6.2 and 9.2**.

Monitoring Methodology and Calibration Details

- 2.2 Monitoring works/equipment were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

- 2.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix B**.
- 2.4 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix N** was carried out.

Implementation Status of Environmental Mitigation Measures

- 2.5 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for implementation by the Contractor. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix I**.

Site Audit Summary

- 2.6 During site inspections in the reporting period, no non-compliances was recorded. The observations and recommendations made during the reporting period are summarized in **Appendix H**.

Status of Waste Management

- 2.7 The amount of wastes generated by the activities of the Work Contracts within TKO-LTT during the reporting period is shown in **Appendix J**.

3. MONITORING RESULTS**Weather Conditions**

3.1 The weather during monitoring sessions was summarized in **Table 3.1**.

Table 3.1 Summary of Weather Conditions in the Reporting Period

| Reporting Month | General Weather Conditions |
|-----------------|----------------------------|
| August 2021 | Sunny, Cloudy and Rainy |
| September 2021 | Sunny, Cloudy and Rainy |
| October 2021 | Sunny, Cloudy and Rainy |

3.2 The detail of weather conditions for each individual monitoring session was presented in the monthly EM&A report.

Air Quality

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

3.4 All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. One (1) Action Level was recorded while one (1) Limit Level exceedances were recorded.

3.5 The graphical presentations of the air quality monitoring results are shown in **Appendix C**.

Construction NoiseAugust 2021

3.6 All noise monitoring was conducted as scheduled in the reporting month. Three (3) Action Level exceedances were recorded due to the documented complaints received in this reporting month. No Limit Level exceedance was recorded in the reporting month. The summary of documented complaints and the complaint investigation in reporting month are tabulated in **Table 3.2**.

Table 3.2 Summary of Documented Complaints in August 2021

| Complaint No. | Complaint Details | Investigation Findings | Follow-up Action / Mitigation Measure |
|---------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Lam Tin Side | | | |
| 562 | Construction noise nuisance near Lei Yu Mun Road | The complaint is considered project-related and construction works were carried out. No monitoring was conducted on Public Holiday. The details shall be referred to CIR-N148 | The Contractor is reminded to follow the approved valid CNP. |
| Tseung Kwan O Side | | | |
| 559 | Noise nuisance near Ocean Shores (Jan 2021 – Jun 2021) | The complaint is considered project-related and current noise mitigation measures were reviewed. The details shall be referred to CIR-N145 | The Contractor is recommended to follow approved CNMP, repair the damaged noise barrier as soon as possible, and replace old PMEs with newer ones |
| 561 | Construction Noise Nuisance on Weekday during Daytime (August 2021) | The complaint is considered project-related. No non-compliance and limit level of daytime construction noise was recorded from late July 2021 to early 2021. The details shall be referred to CIR-N147. | |

September 2021

- 3.7 All noise monitoring was conducted as scheduled in the reporting month. Three (3) Action Level exceedances were recorded due to the documented complaints received in this reporting month. No Limit Level exceedances for day-time construction noise monitoring and no Limit Level exceedances for restricted hours noise monitoring were recorded in the reporting month. The summary of documented complaints and the complaint investigations in reporting month are tabulated in **Table 3.3**.

Table 3.3 Summary of Documented Complaints in September 2021

| Complaint No. | Complaint Details | Investigation Findings | Follow-up Action / Mitigation Measure |
|---------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lam Tin Side | | | |
| 563 & 566 | Construction noise nuisance from NE2015/01 (Sep 21) | The complaint is considered as project-related. Monitoring results indicate the construction noise are close to the limit level. The details shall be referred to CIR-N149. | The Contractors are reminded to keep conducting good site practices, such as regular maintenance of PMEs and strictly follow the requirements of approved CNP. |
| 564 & 565 | Air pollution from construction dust | Exceedance of 24hr TSP was recorded and evidence of air-quality-related environmental deficiencies was identified during site inspections. The complaint is considered project-related and details shall be referred to CIR-A22. | The Contractor had enhanced the watering and improved the situation by increasing the length of the tarpaulin fabric |
| Tseung Kwan O Side | | | |
| 567 | Construction Works during Restricted Hours (Sep 21) | The complaint is considered project-related and no non-compliance was recorded. The monitoring result of evening noise at Tseung Kwan O throughout September 2021 was reviewed and no limit level exceedance was found. The details shall be referred to CIR-N150 | Nil |

October 2021

- 3.8 All noise monitoring was conducted as scheduled in the reporting month. One (1) Action Level exceedance was recorded due to the documented complaints received in this reporting month. No exceedances for daytime and restricted hours of construction noise monitoring were recorded. The summary of documented complaints and the complaint investigations in reporting month are tabulated in **Table 3.4**.

Table 3.4 Summary of Complaints Details in October 2021

| Complaint No. | Complaint Details | Investigation Findings | Follow-up Action / Mitigation Measure |
|---------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lam Tin Side | | | |
| 570 | Noise nuisance on holiday during daytime | No clear judgement was made as other potential noise source existed. Nonetheless, the Contractor held a valid CNP and no non-compliance was found. The details shall be referred to CIR-N151. | The Contractors are reminded to keep conducting good site practices, such as regular maintenance of PMEs and strictly follow the requirements of approved CNP. |
| Tseung Kwan O Side | | | |
| 568 | Odour Nuisance near Tseung Kwan O Bay (Sep 2021) | The complaint is considered as non-project related. Measures such as adopting low-sulfur content diesel as far as possible are recommended. The details can be referred to CIR-O9 | Nil |
| 569 | Deterioration of Marine Water Quality in Tseung Kwan O Bay under Adverse Weather | The complaint is considered non-project related as the general condition of the sea is muddy during the date of the incident. The details can be referred to CIR-W18. | The Contractor is reminded to keep practicing good site practices such as deploying silt curtain and maintain the adequate capacity of the drainage system |

| Complaint No. | Complaint Details | Investigation Findings | Follow-up Action / Mitigation Measure |
|---------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 571 | Noise nuisance near Ocean Shores | Preliminary results from noise monitoring showed no limit level of exceedance and no non-compliance regarding the construction schedule was found. The details shall be referred to CIR-N152. | The Contractor is reminded to repair or replace damaged noise barrier and stick to the approved CNMP as far as possible |

3.9 The graphical presentations of the noise monitoring results are shown in **Appendix D**.

Water Quality

Exceedance Summary

August 2021

3.10 As for marine water quality monitoring, fifty-eight (58) and one-hundred-and-thirty (130) action level and limit level exceedances in Monitoring Stations (M) were recorded.

September 2021

3.11 As for marine water quality monitoring, ten (10) and sixty-two (62) action level and limit level exceedances in Monitoring Stations (M) were recorded.

October 2021

3.12 As for marine water quality monitoring, twenty-five (25) and fifty-five (55) action level and limit level exceedances in Monitoring Stations (M) were recorded.

Suspension of Groundwater Quality Monitoring

3.13 The groundwater monitoring was suspended since October 2019.

3.14 The monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the groundwater quality monitoring has been suspended since January 2020 upon the agreement by EPD.

Observation and Exceedance Investigations

3.15 During this reporting quarter, no sand plume was observed during the water quality monitoring and site audits, therefore there is no direct evidence that the recent exceedances were due to reclamation activities of the Project. The Contractor is reminded to deploy the silt curtain properly when the barge enters/exits the embayment area. If possible, the Contractor shall also move the barge during high tide to prevent stirring up the sediments on the sea bed.

3.16 Exceedances of turbidity and suspended solids were recorded from various monitoring stations non-specifically among all stations including the control stations. Investigations from August 2021 – October 2021 showed that the range of SS levels recorded in reporting period remained consistent with the records in recent months. Since we officially entered the wet season, all Contractors are reminded to clear the drainage,

repair any broken pipes/drainage and ensure there is an embankment surrounding the works area to prevent accidental muddy water spillage or surface runoff due to heavy downpours. Details of the exceedance investigation report can be found in **Appendix K**.

- 3.17 The graphical presentations of the marine water quality monitoring results are shown in **Appendix F**. Embayment measurement at W1 was completed in December 2019.

Daily Piezometer Monitoring

- 3.18 Construction phase daily piezometer monitoring was carried out during the whole period whenever tunnel construction activities were carried out within +/- 50m of the piezometer gate in the plan. The monitoring had switched to a monthly basis on 19 November 2018 as the construction activities were not within +/- 50m of the piezometer gate in the plan. Since no construction had been conducted within +/- 50m of the piezometer gate in the reporting quarter, no piezometer monitoring was conducted in the reporting quarter.

Ecological Monitoring

- 3.19 Post-translocation coral monitoring survey shall be conducted once every 3 months for a period of 12 months after completion of coral translocation. The post-translocation coral monitoring survey was completed in February 2017.

Monitoring Cultural Heritage

- 3.20 Monitoring of vibration impacts at Cha Kwo Ling Tin Hau Temple commenced on 8 April 2017. No Alert Alarm and Action (AAA) Level exceedance was recorded in the reporting quarter.

Landscape and Visual Monitoring and Audit

- 3.21 The implementation of landscape and visual mitigation measures was checked during the environmental site inspections. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Appendix H**.

Landfill Gas Monitoring

- 3.22 Monitoring of landfill gases was commenced in March 2016 and was carried out by the Contractors at the excavation location, Portion III in the reporting quarter. No Limit Level exceedance was recorded. The graphical presentations of the landfill gas monitoring results are shown in **Appendix G**.

Waste Management

- 3.23 Wastes generated from this Project include inert construction and demolition (C&D) materials, non-inert C&D materials, and marine sediments. Details of waste management data are presented in **Appendix I**.

Influencing Factors on the Monitoring Results

- 3.24 During the reporting period, the major dust and noise sources identified at the designated monitoring stations are as follows:

Table 3.5 Major Dust Sources during the Monitoring in the Reporting Period

| Station | Major Dust Source |
|---------|-------------------|
|---------|-------------------|

| | |
|-----------------------------------------------------------------------|-----------------------------------------------------------|
| AM1 – Tin Hau Temple | Road Traffic at Cha Kwo Ling Road |
| AM2 – Sai Tso Wan Recreation Ground | N/A |
| AM3 – Yau Lai Estate Bik Lai House | Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza |
| AM4 - Sitting-out Area at Cha Kwo Ling Village | Road Traffic at Cha Kwo Ling Road |
| AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office | Road Traffic at Cha Kwo Ling Road |
| AM5(A) - Tseung Kwan O DSD Desilting Compound | Vehicle Movement within the Desilting Compound |
| AM6(A) - Park Central, L1/F Open Space Area | Road Traffic at Po Yap Road |

Table 3.6 Major Noise Sources during the Monitoring in the Reporting Period

| Monitoring Stations | Locations | Major Noise Source |
|----------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|
| CM1 | Nga Lai House, Yau Lai Estate Phase 1, Yau Tong | Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza |
| CM2 | Bik Lai House, Yau Lai Estate Phase 1, Yau Tong | Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza |
| CM3 | Block S, Yau Lai Estate Phase 5, Yau Tong | Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza |
| CM4 | Tin Hau Temple, Cha Kwo Ling | Road Traffic at Cha Kwo Ling Road |
| CM5 | CCC Kei Faat Primary School, Yau Tong | Road Traffic at Yau Tong Road |
| CM6(A) | Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores | Road Traffic at O King Road near Ocean Shores |
| CM7(A) | Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores | Road Traffic at Tong Yin Street |
| CM8(A) | Park Central, L1/F Open Space Area | Road Traffic at Po Yap Road |
| CM9(A) | Rooftop of Capri Tower 10 | Rooftop (12/F) |

4. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

- 4.1 Environmental monitoring works were performed during the reporting period and all monitoring results were checked and reviewed. A summary of exceedances is attached in **Appendix K**.

Air Quality

- 4.2 No Action / Limit Level exceedance for 1-hour TSP monitoring was recorded in the reporting quarter.
- 4.3 One (1) Action Level exceedance for 24-hour TSP monitoring was recorded in the reporting quarter.
- 4.4 One (1) Limit Level exceedance for 24-hour TSP monitoring was recorded in the reporting quarter.

Construction Noise

- 4.5 Seven (7) Action Level exceedances were recorded due to the documented complaints received in the reporting quarter. No Limit Level exceedances was recorded in monitoring stations for day time and restricted construction noise in the reporting quarter, respectively. No Limit Level exceedance was recorded for day time construction noise in the reporting quarter.

Water Quality

- 4.6 The groundwater monitoring was suspended since October 2019.
- 4.7 Ninety-three (93) Action Level exceedances and Two-hundred-and-forty-seven (247) Limit Level exceedances in Monitoring Stations (M) were recorded for marine water quality monitoring in the reporting quarter.

Ecological Monitoring

No action/limit level of mortality was exceeded in the monitoring survey conducted in the reporting quarter.

Monitoring on Cultural Heritage

- 4.9 No Alert Alarm and Action (AAA) Level exceedance was recorded in the reporting quarter.

Landscape and Visual

- 4.10 No non-compliance of the landscape and visual impact was recorded in the reporting quarter.

Landfill Gas

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

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

- 4.10 During site audits in the reporting quarter, no non-compliance was recorded. Recommendations made in each individual site audit session were attached in the **Appendix H**.

Summary of Environmental Complaints and Prosecutions

- 4.11 Twelve (12) cases of environmental complaints on this Project were received in the reporting quarter. The details were attached in **Appendix L**.
- 4.12 No environmental prosecution was received in the reporting quarter.

5. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

Effectiveness of Mitigation Measures

- 5.1 The mitigation measures recommended in the EIA report are considered effective in minimizing environmental impacts.
- 5.2 The Contractor has implemented the recommended mitigation measures except those mitigation measures not applicable at this stage.
- 5.3 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed.
- 5.4 The summary record of non-compliance (exceedances) of Action/Limit Level for environmental monitoring in the reporting quarter has been presented in **Table I** above and in **Appendix K**.
- 5.5 Twelve (12) cases of environmental complaints were received in the reporting quarter. The details were attached in the **Appendix L**.
- 5.6 No warning, notification of summon and environmental prosecution was received in the reporting quarter. The details were attached in the **Appendix L**.

Recommendations

- 5.7 Joint weekly site audits by the representatives of the Engineer, Contractor and the ET were conducted in the reporting quarter. The following recommendations was made to the Contractor for the coming reporting month:

Air Quality Impact

- To implement dust suppression measures such as water spray on all haul roads, stockpiles, dry surfaces, excavation and rock breaking works.
- To cover stockpile of dusty material by impervious material
- To properly display NRMM Label to Powered Mechanical Equipment on site
- To avoid smoke emission from Powered Mechanical Equipment on site
- To remove the dusty cement bags after use.
- To provide sand bag bunds to gullies at site access near the site office
- To provide top and three-side enclosure for grouting equipment on site
- To repair the gaps and the noise tarpaulin sheets to ensure the effectiveness of dust curtain.

Construction Noise

- Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.
- To provide mitigation measures to PME as proposed in the approved NMP.
- To repair noise barrier of breaker on site.
- To provide proper acoustic material for enclosing the breaker head

Water Quality Impact

- To prevent any surface runoff discharge into any stream course or the waters in vicinity.
- To review and implement temporary drainage system.
- To ensure properly maintenance for de-silting facilities.
- To clear the silt and sediment in the sedimentation tanks or those accumulated in drainage.
- To provide bund to stockpile storage area on site to avoid leakage of surface runoff.
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge.
- To provide and repair the silt curtain to fully enclose the site.
- To remove the dusty material to avoid mud/sand fall into the sea.
- To prevent silty water flow out of site during wheel washing
- To provide bunds or containment pit to prevent muddy water flow out of site.
- To remove the construction waste in U-channel.
- To set up proper drainage system within site.
- To cover or seal the gaps of covers of catchpit to prevent silt water or oil stain flow out of site.
- To remove the sand material deposited near the seafront.
- To provide sand bag bunds to gullies
- To cover exposed ground with tarpaulin and sandbag to avoid surface run-off
- Provide sufficient storage/diversion for storm water collected within the site during rainstorm, in order to avoid overflowing the water treatment tanks

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site.
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To avoid improper handling or storage of oil drum on site.
- To provide label to identify waste storage area within site.
- To remove oil stain mixed with muddy water within site.
- To provide drip tray to chemical containers
- To remove the construction material from drip tray and provide a plug for drip tray on site.

Landscape and Visual

- To remove the construction material near the tree and set up proper tree protection area

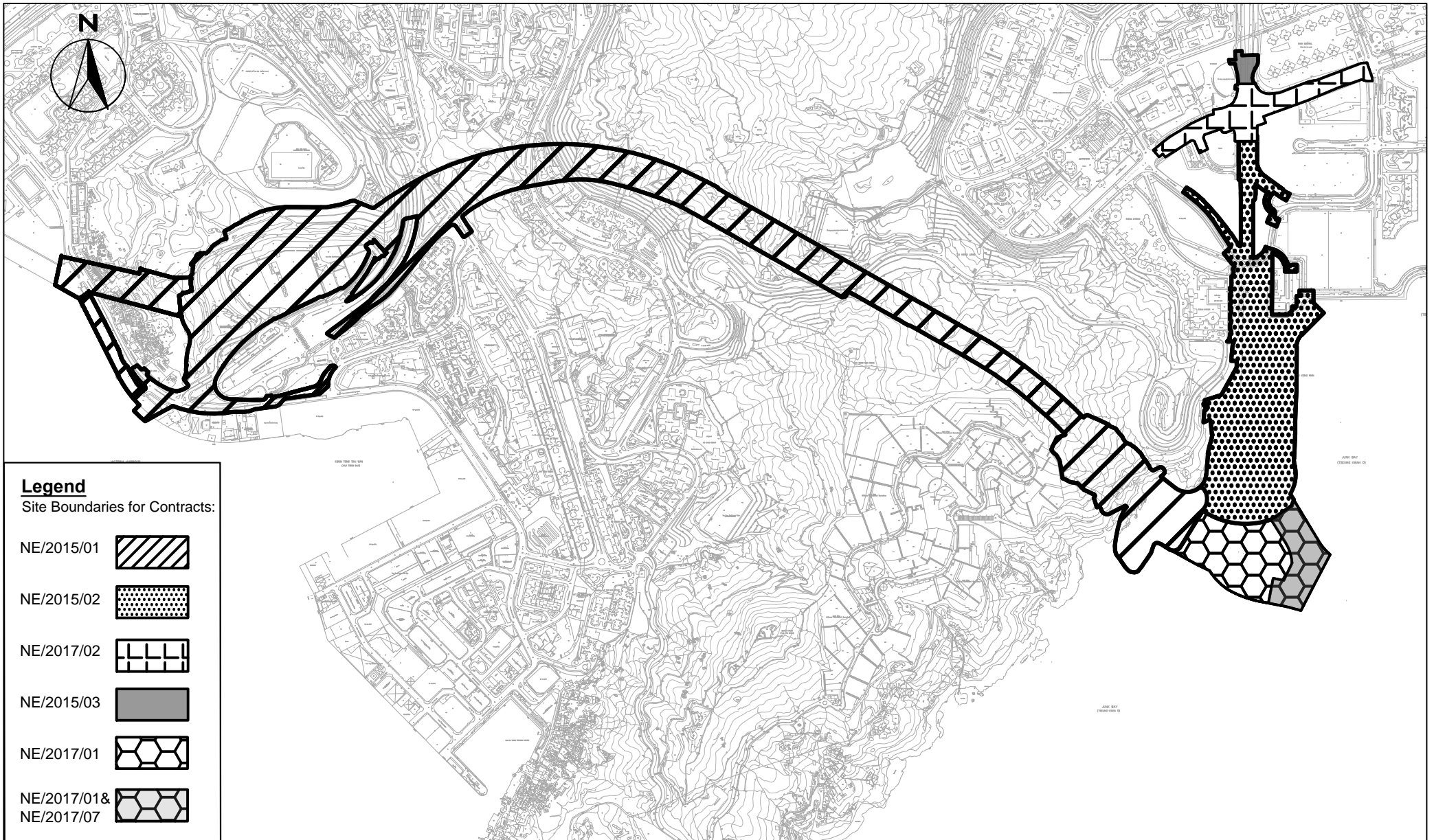
Permit/Licence

- To provide and display the Environmental Permit for the marine barge.
- To update the Environmental Permit displayed on crane barge.

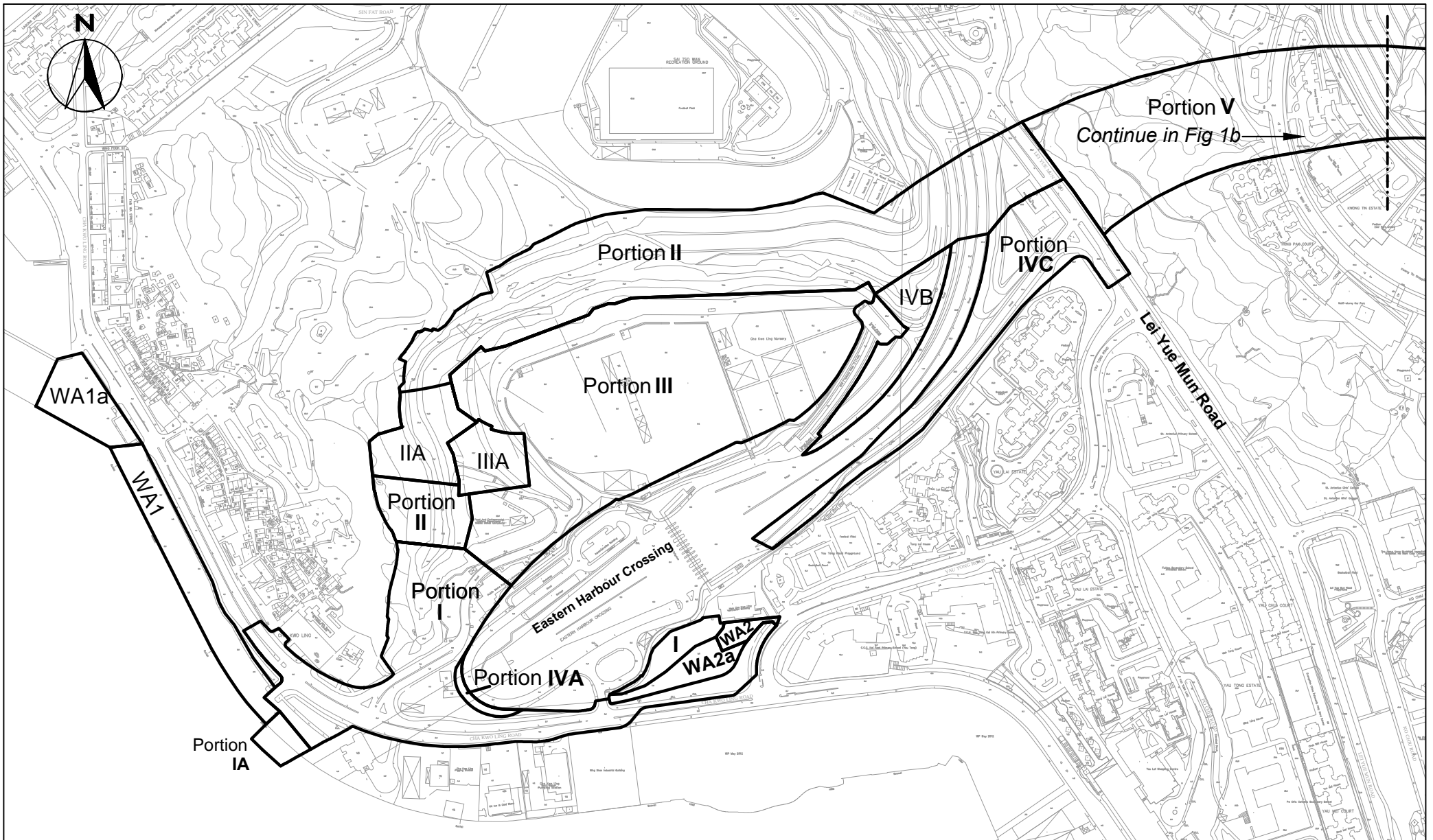
Cultural Heritage

- To properly set up fenced-off buffer zone around Tin Hau Temple.

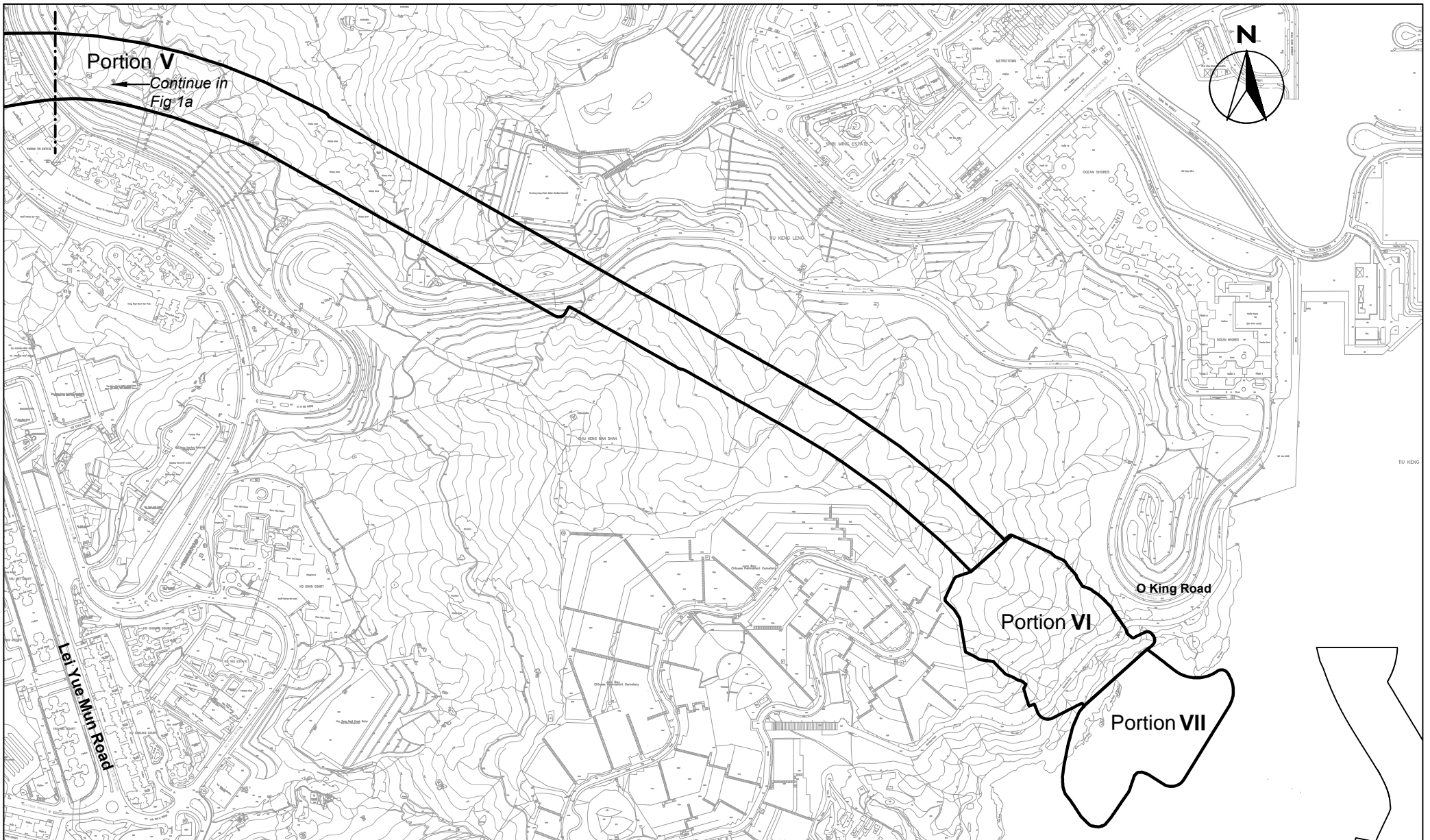
FIGURES



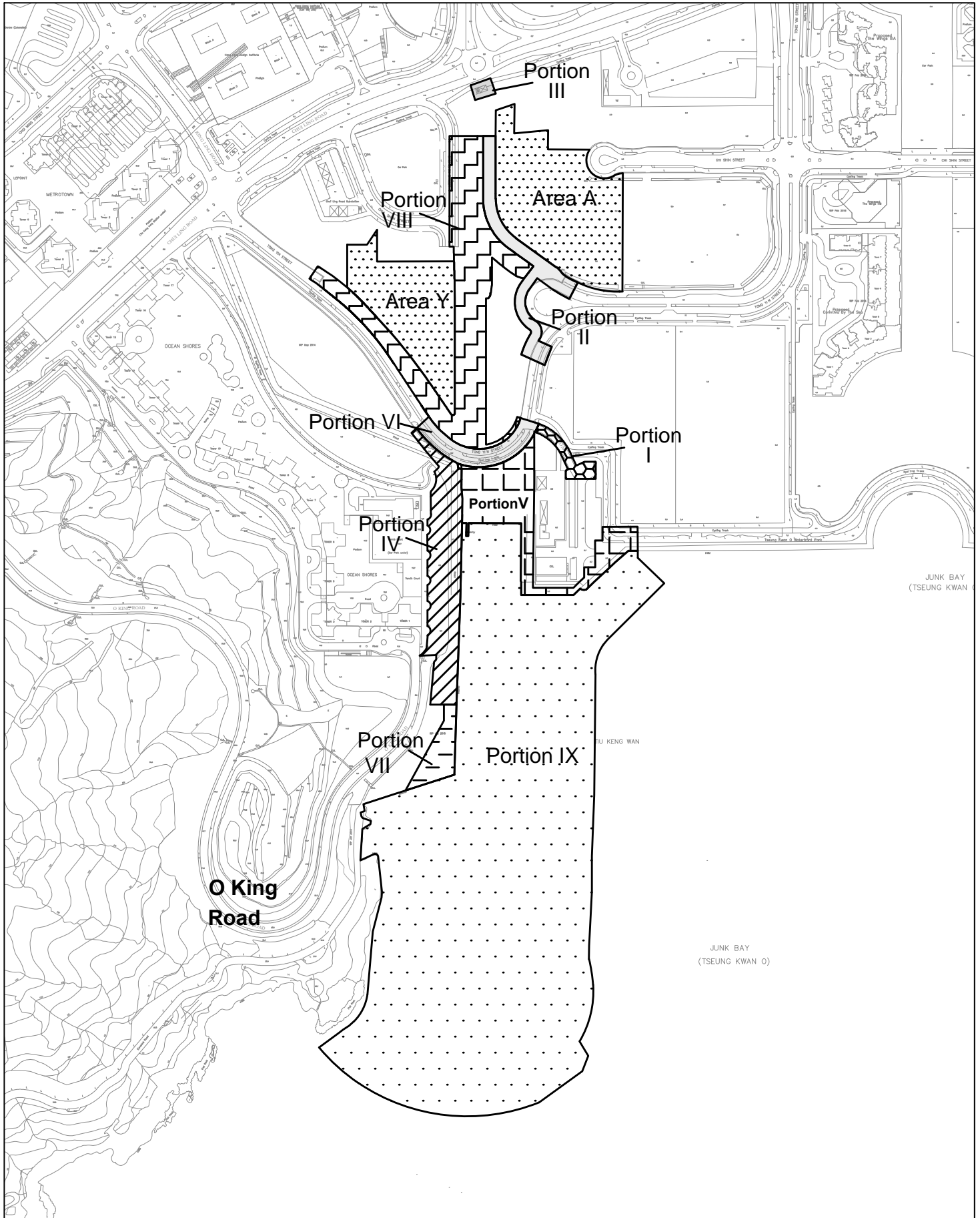
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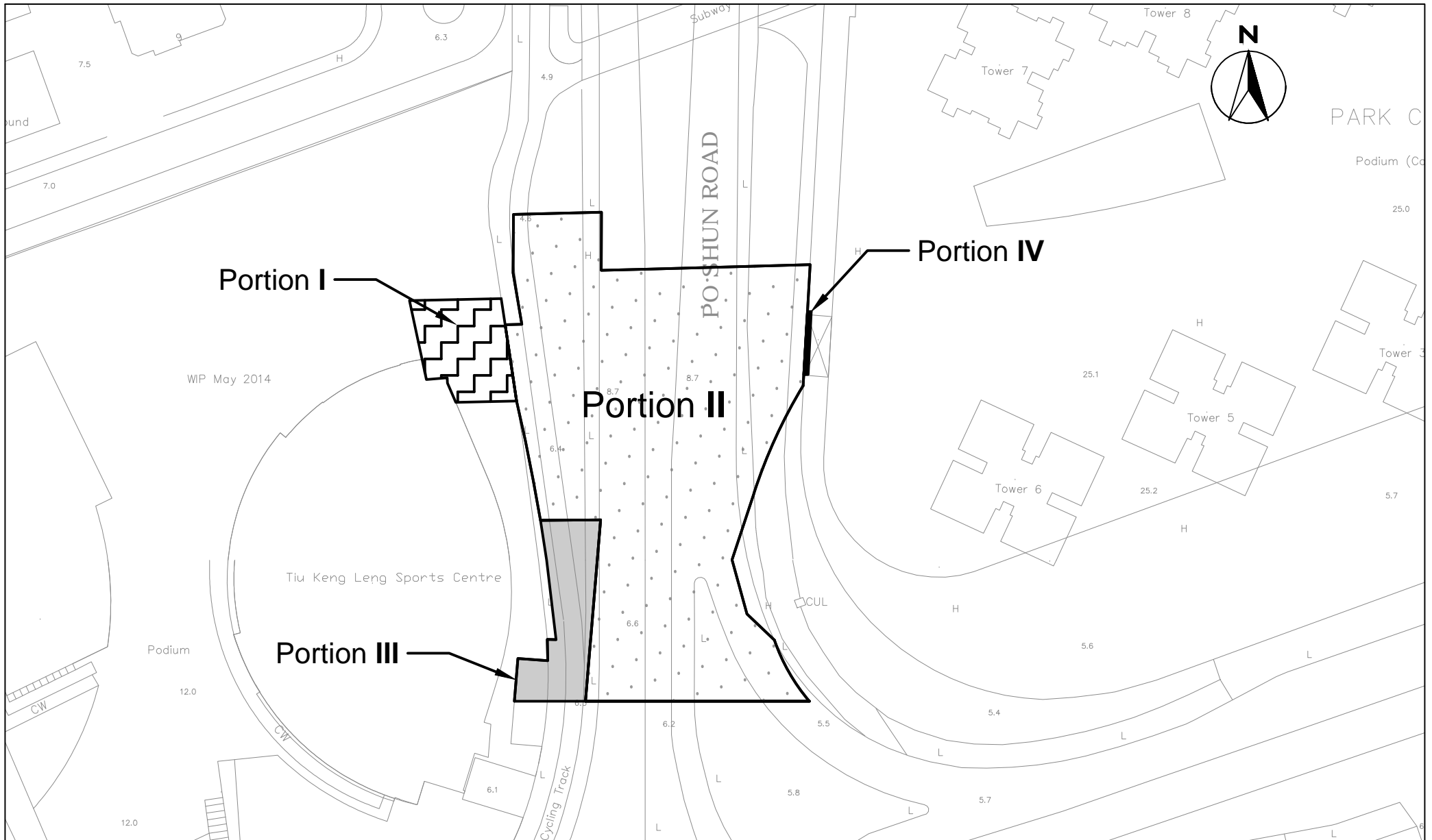
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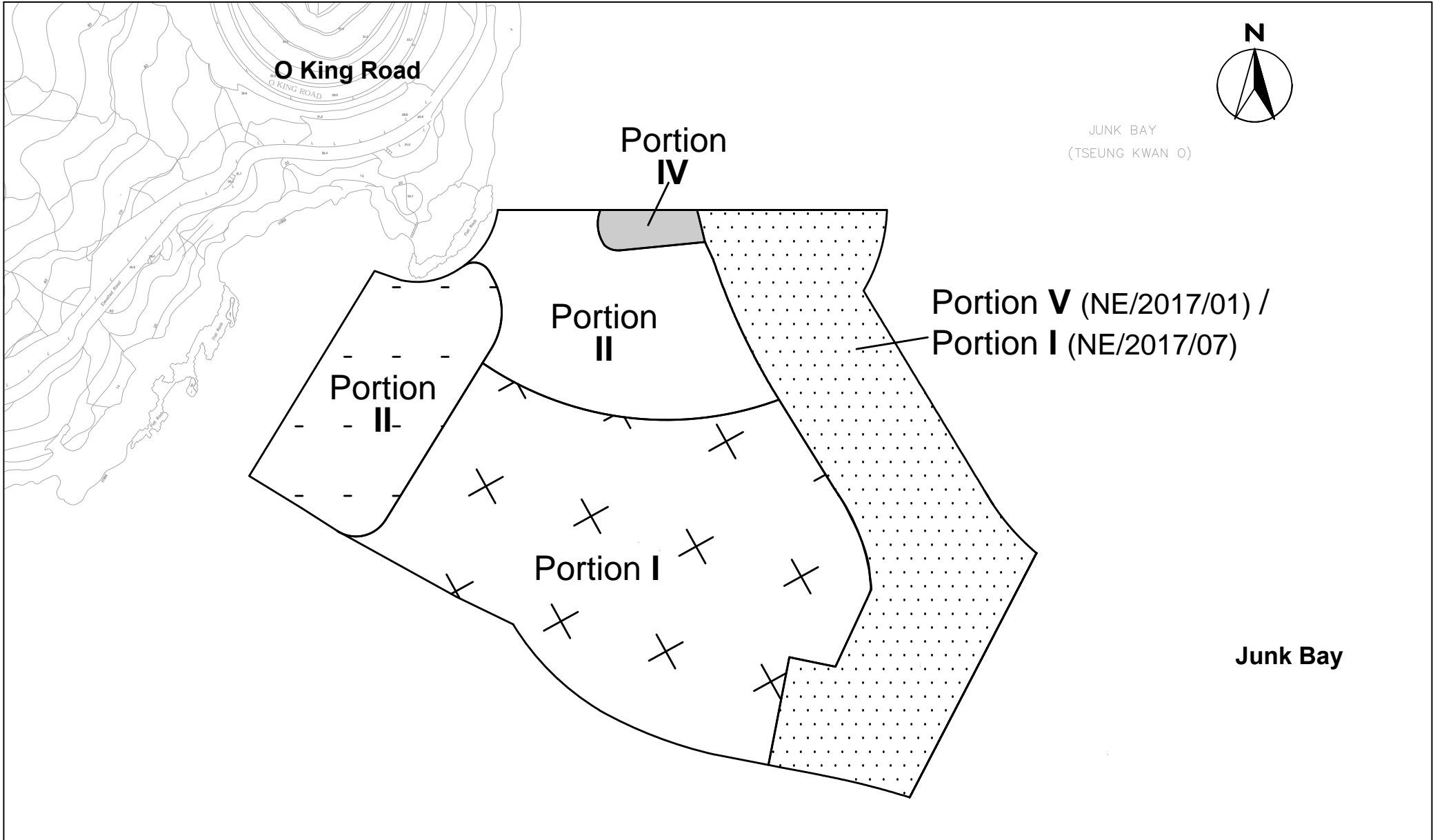
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| | | REV | - |



| | | | | | |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-------|--|
|  Cinotech Consultants Limited | Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel– Design and Construction Site Portions under Works Contract No. NE/2015/02 | SCALE 1:5000@A4 CHECK CC JOB No. MA16034 | DATE 25 July 2021 DRAWN KC FIGURE NO. 1C | REV - | |
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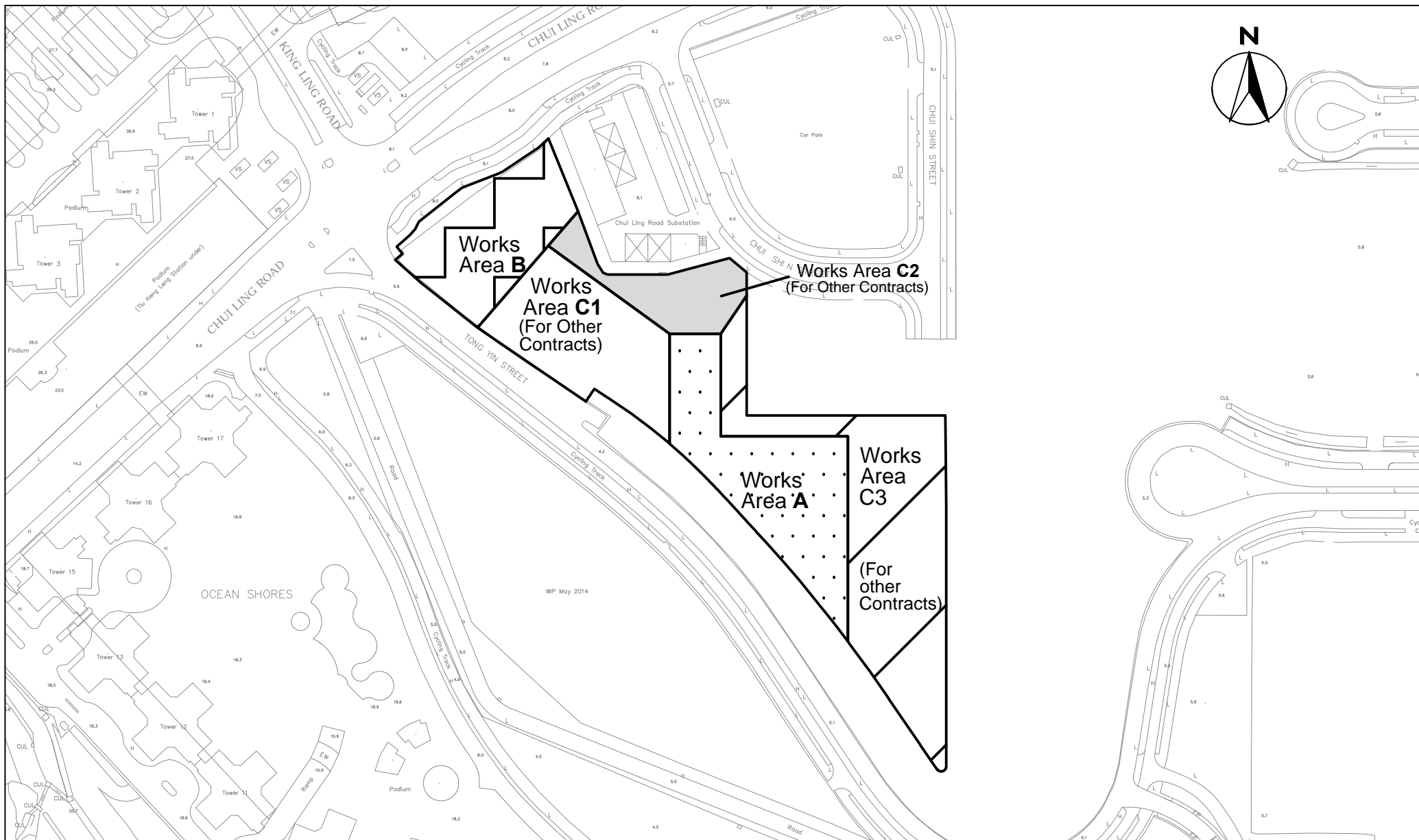


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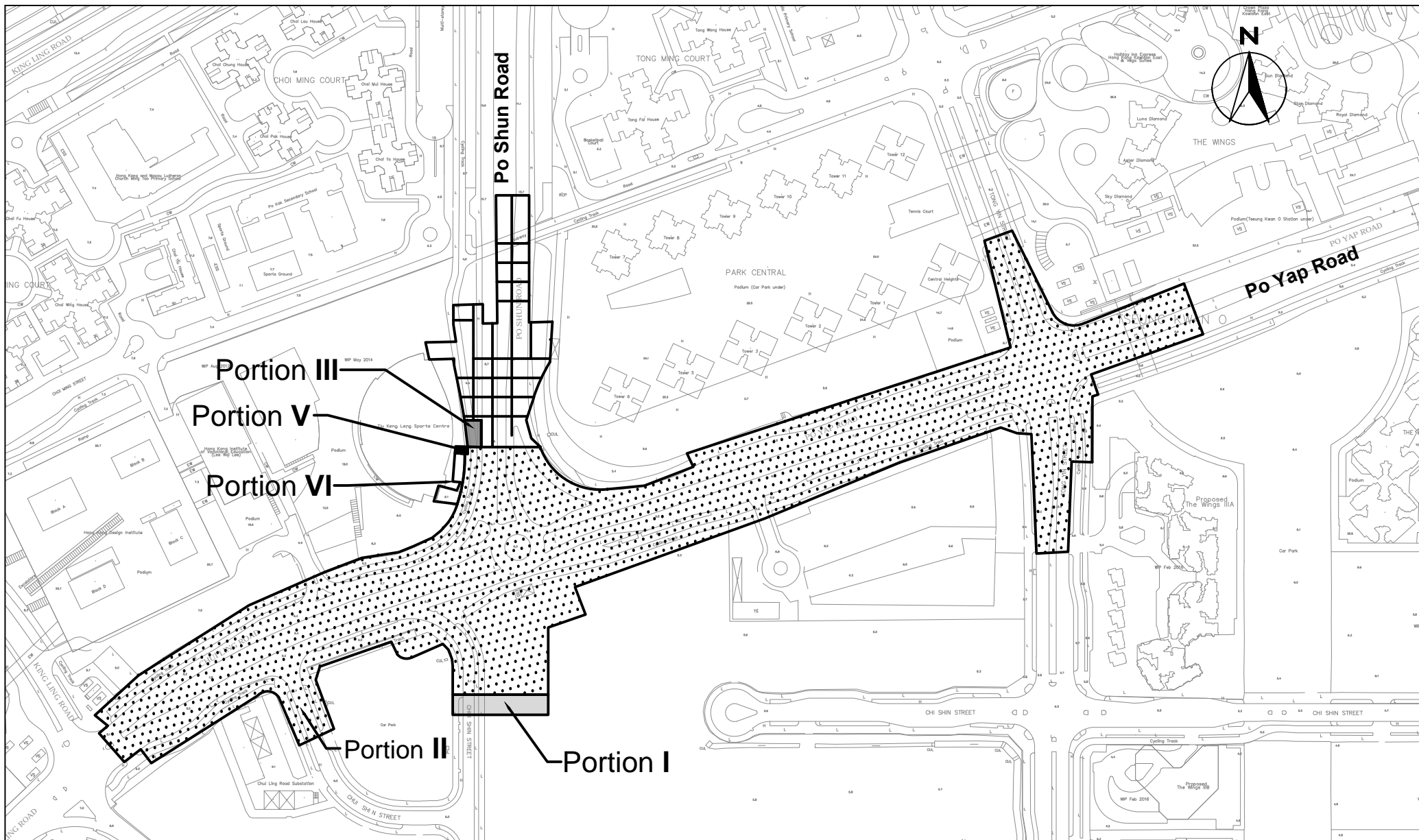


Agreement No. CE 59/2015 (EP)
 Environmental Team for Tseung Kwan O – Lam Tin Tunnel– Design and Construction
Site Portions in Tseung Kwan O under Works Contract No. NE/2017/01

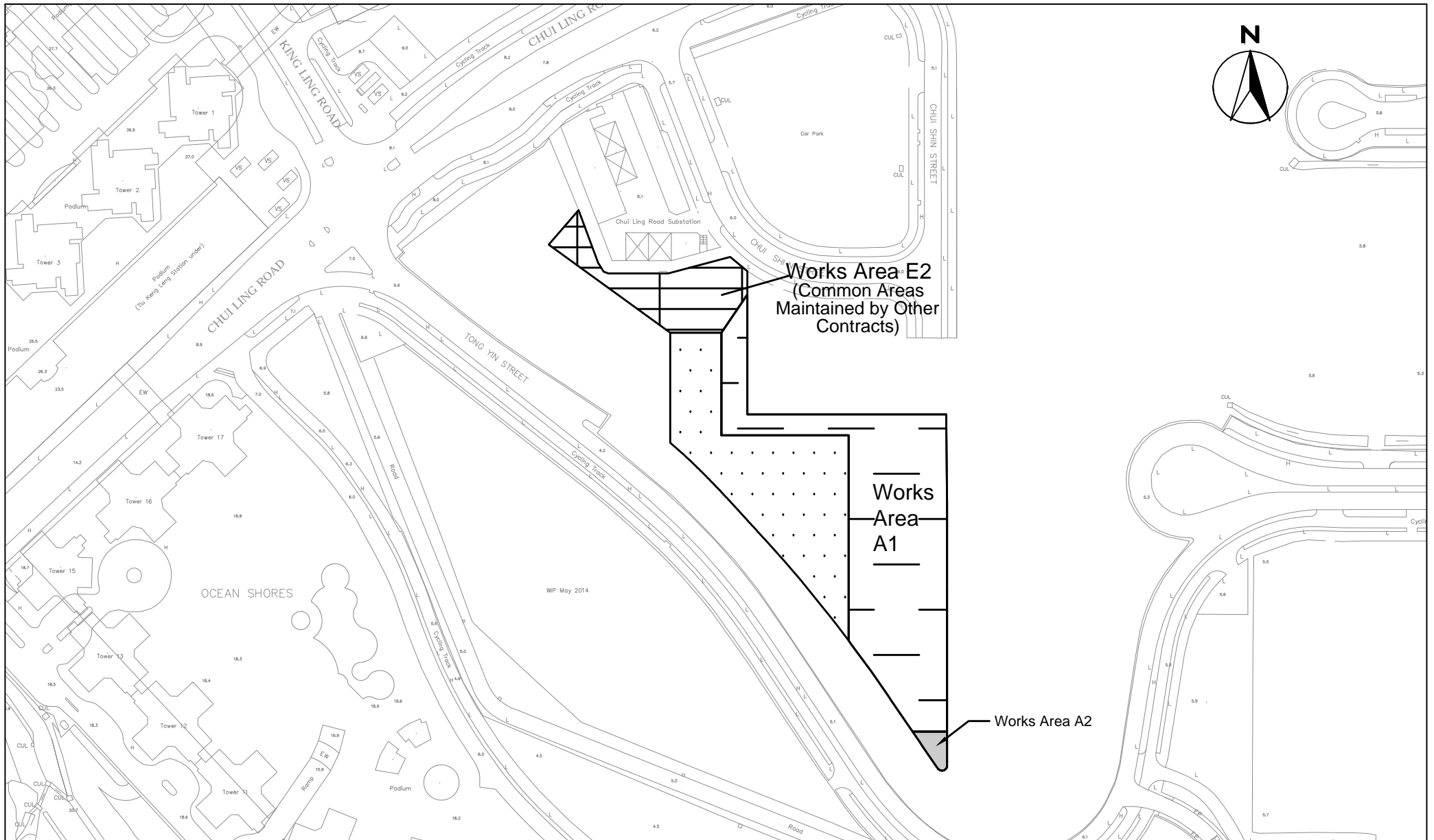
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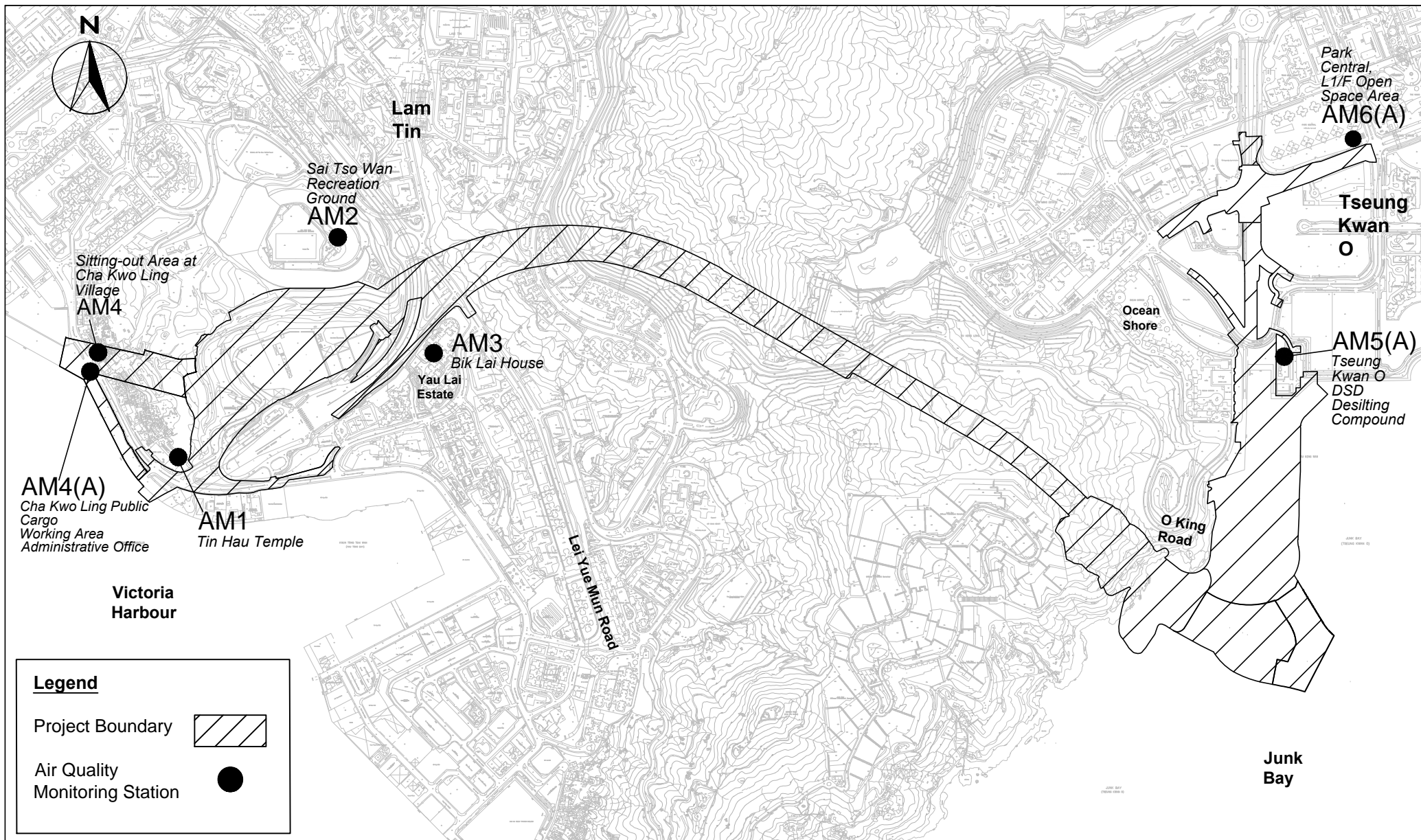
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| | | REV | - |



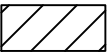
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| | | REV | - |




| | | | | |
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Legend

Project Boundary 

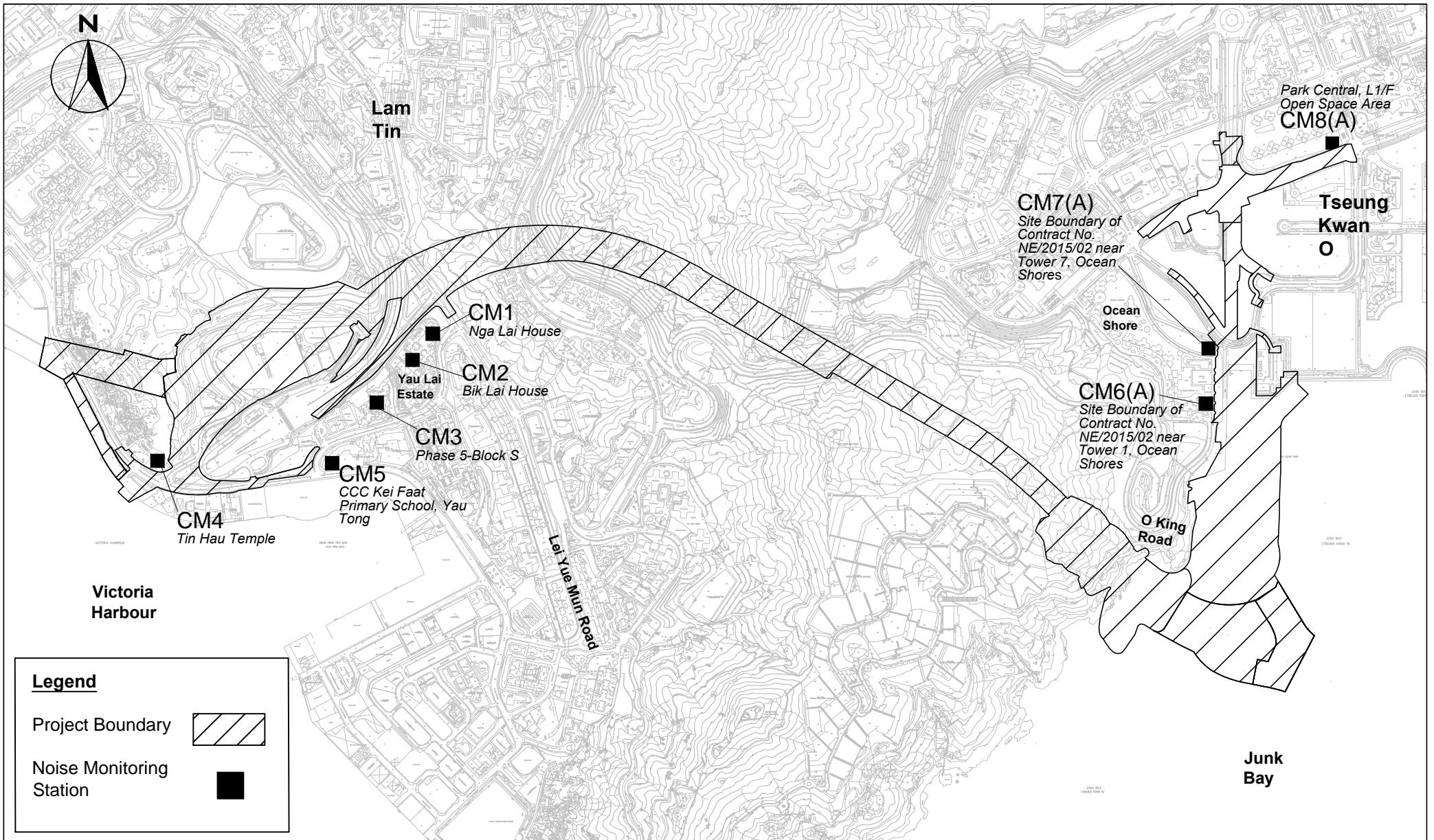
Air Quality Monitoring Station 



Agreement No. CE 59/2015 (EP)
 Environmental Team for Tseung Kwan O – Lam Tin Tunnel– Design and Construction

Air Quality Monitoring Station

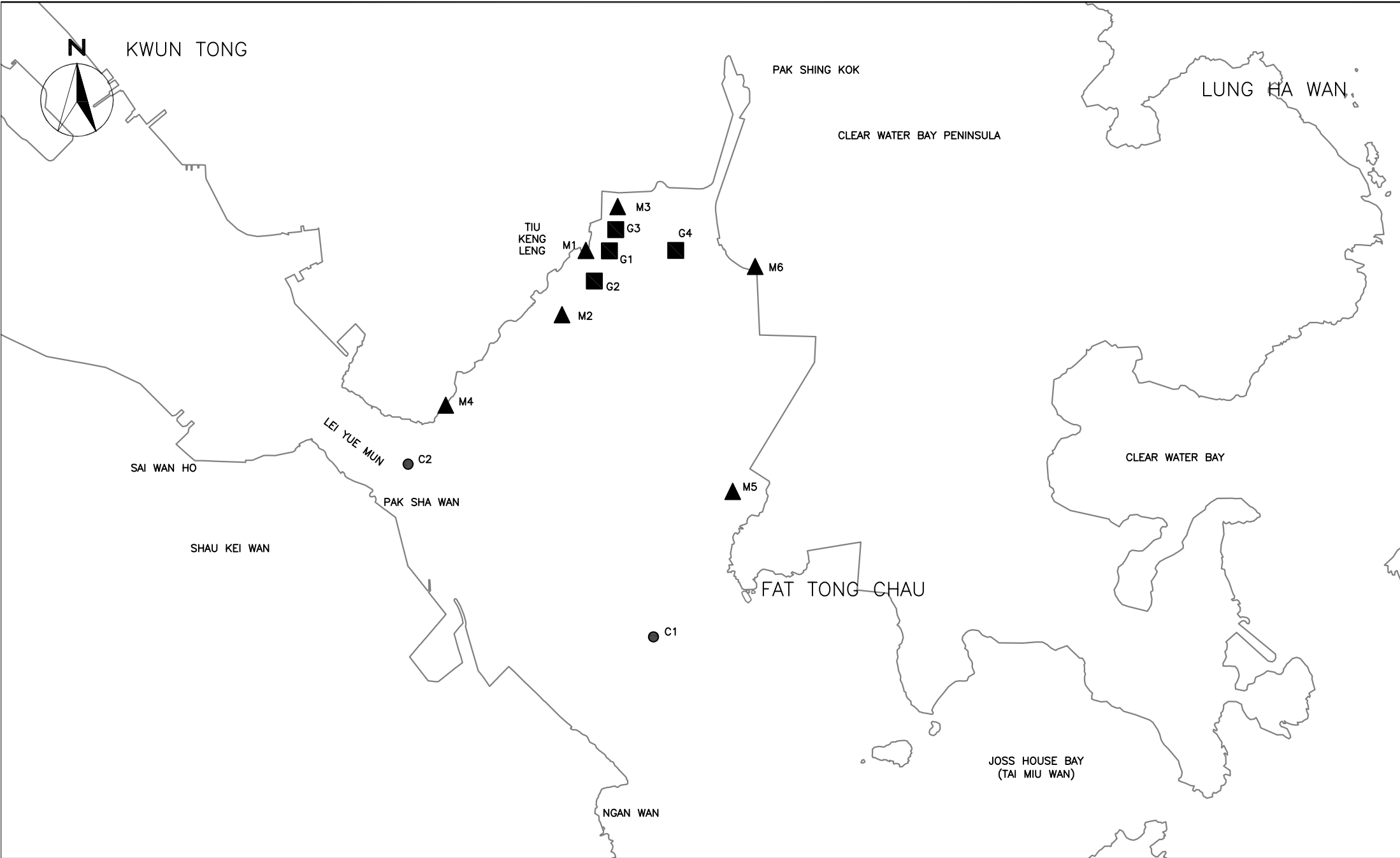
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| JOB No. | MA16034 | FIGURE NO. | 2 | REV - |



Agreement No. CE 59/2015 (EP)
 Environmental Team for Tseung Kwan O – Lam Tin Tunnel– Design and Construction

Noise Monitoring Stations

| | | | | |
|---------|------------|------------|---------------|----------|
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| CHECK | CC | DRAWN | KC | |
| JOB No. | MA16034 | FIGURE NO. | 3 | REV - |



CINOTECH

Cinotech Consultants Limited

Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O – Lam Tin Tunnel –
 Design and Construction

Locations of Water Quality Monitoring Stations

| | | | | |
|-------------|---------|------------|----------|----------|
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| PROJECT NO. | MA16034 | FIGURE NO. | 5 | REV — |

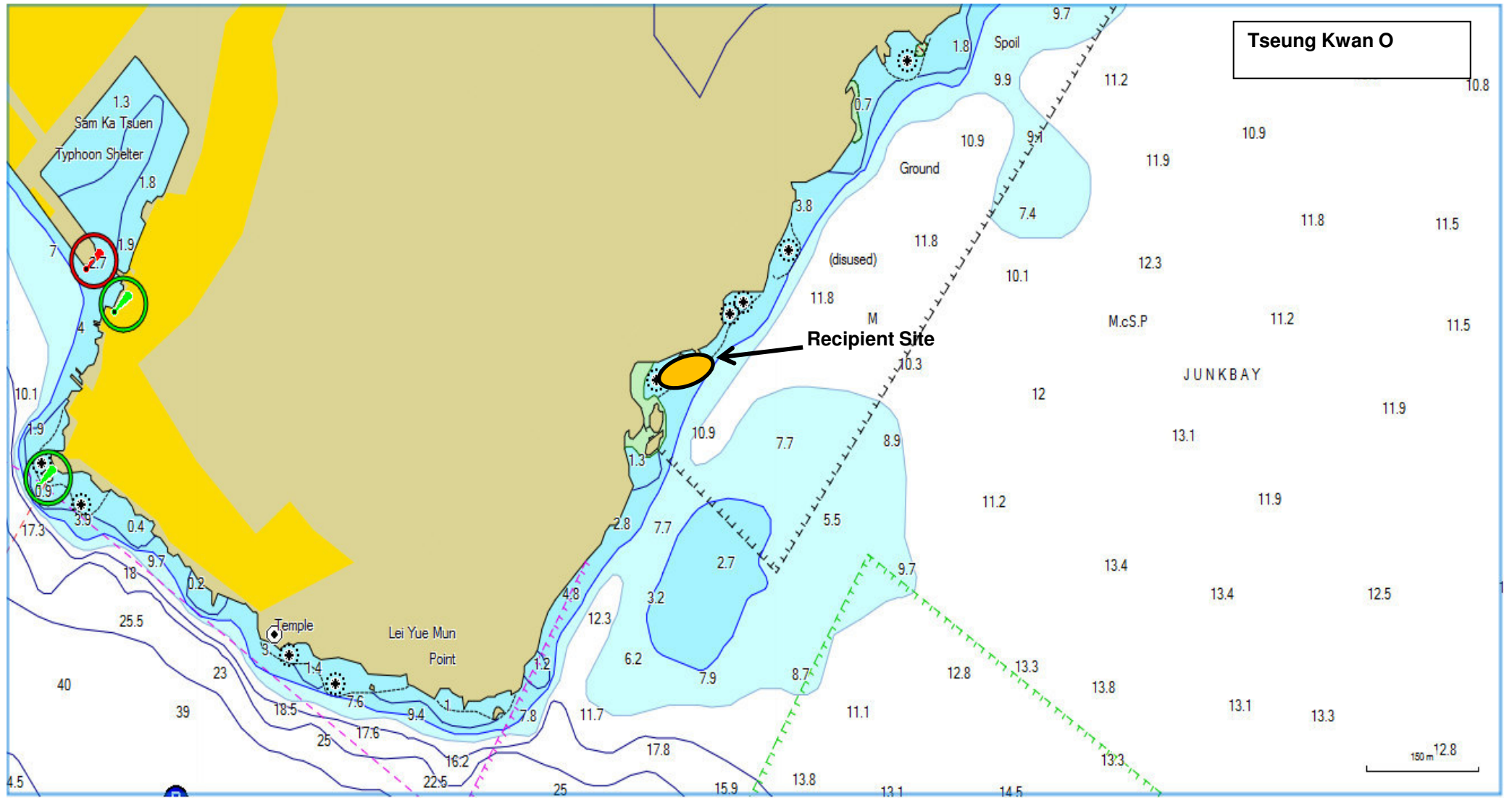


Title Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
 Locations of Landfill Gas Monitoring

Scale N.T.S
 Date Dec-16

Project No. MA16034
 Figure 6



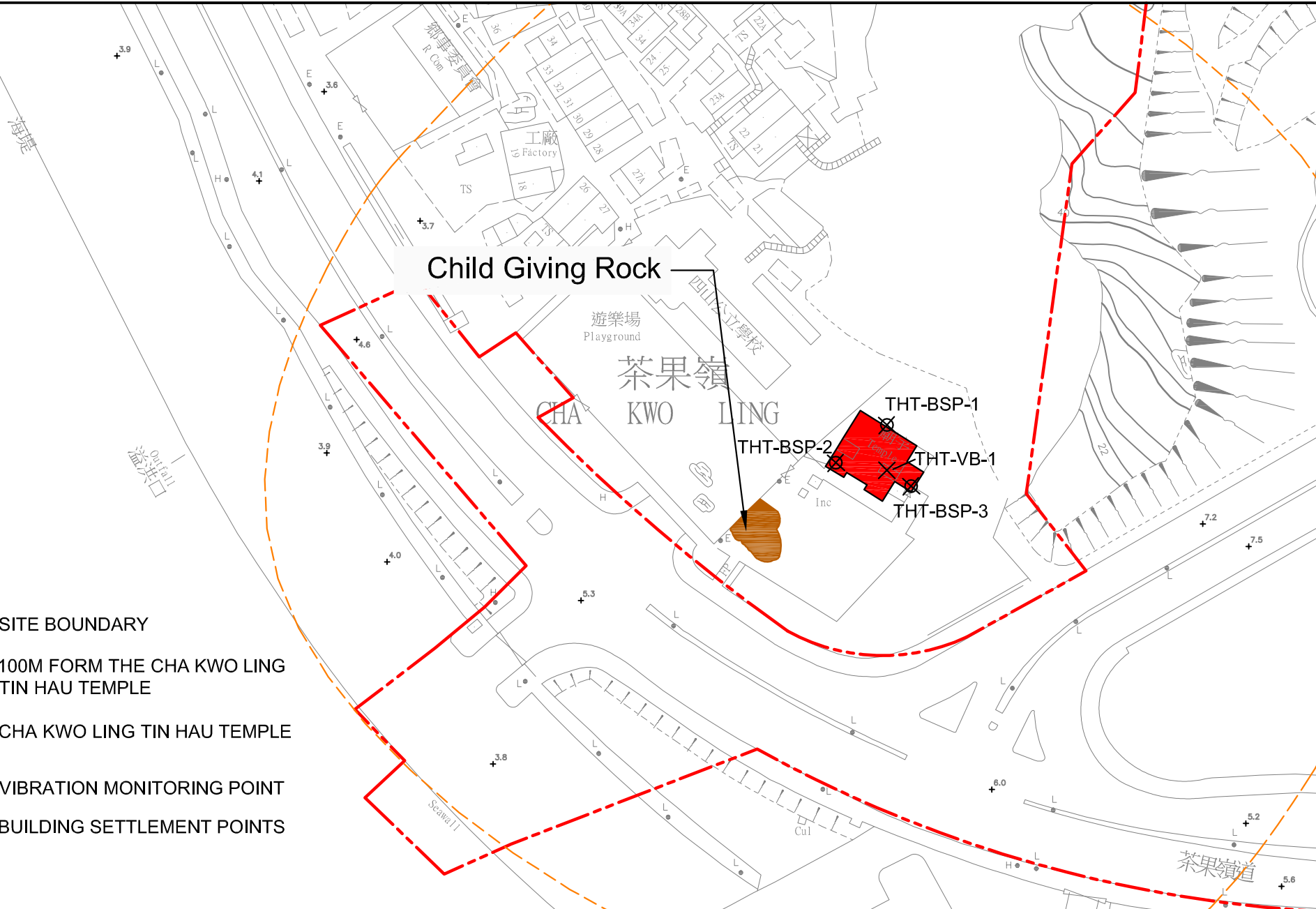
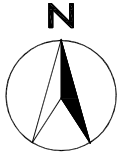


Title Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
 Location of Post-translocation Coral Monitoring

Scale N.T.S
 Date Mar-17

Project No. MA16034
 Figure 7





LEGEND

- SITE BOUNDARY
- 100M FORM THE CHA KWO LING TIN HAU TEMPLE
- CHA KWO LING TIN HAU TEMPLE
- X VIBRATION MONITORING POINT
- ⊗ BUILDING SETTLEMENT POINTS



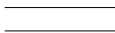


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| CHECK | JF | DRAWN | AC | |
| JOB No. | MA16034 | FIGURE NO. | 8 | REV |
| | | | | - |



Ocean Shore

TIU KENG
LENG

Legend

-  MARINE AREA EMBAYED BY RECLAMATION
-  RECLAMATION FOOTPRINT
-  O KING ROAD
-  LOCATION OF OUTFALL
-  MONITORING STATION W2

| | | | | |
|-------------|-----------|------------|----------|----------|
| SCALE | 1:4000@A4 | DATE | NOV 2019 | |
| CHECK | BC | DRAWN | KC | |
| PROJECT NO. | MA16034 | FIGURE NO. | 9 | REV — |

**APPENDIX A
MONITORING REQUIREMENTS**

Appendix A - Environmental Impact Monitoring Requirements

Table I – Air Quality Monitoring

| Type of Monitoring | Parameter | Frequency | Location | Measurement Conditions |
|--------------------|-------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air Quality | 1 hour TSP | Three times / 6 days | <ul style="list-style-type: none"> • AM1 – Tin Hau Temple • AM2 – Sai Tso Wan Recreation Ground • AM3 – Yau Lai Estate Bik Lai House • AM4⁽¹⁾ – Road Traffic at Cha Kwo Ling Road • AM4(A)^{(2)(*)} – Cha Kwo Ling Public Cargo Working Area Administrative Office • AM5(A)^(*) – Tseung Kwan O DSD Desilting Compound • AM6(A)^(*) – Park Central, L1/F Open Space Area | <ul style="list-style-type: none"> • AM1 – Ground Level • AM2 – Ground Level • AM3 – Rooftop (41/F) • AM4⁽¹⁾ – Ground Level • AM4(A)^{(2)(*)} – Rooftop (3/F) • AM5(A)^(*) – Ground Level • AM6(A)^(*) – 1/F |
| | 24 hour TSP | Once / 6 days | | |

Remarks: (1) For 1-hour TSP monitoring; (2) For 24-hour TSP monitoring

(*) Air quality monitoring at designated station AM4(24-hr TSP), AM5 and AM6 was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4(A) (24-hr TSP only), AM5(A) and AM6(A) respectively.

Table II – Noise Monitoring

| Type of Monitoring | Parameter | Frequency | Location | Measurement Conditions |
|--------------------|-------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Noise | L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during 0700 to 1900 on normal weekdays | Once per week | <ul style="list-style-type: none"> • CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong • CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong • CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong • CM4 – Tin Hau Temple, Cha Kwo Ling • CM5 – CCC Kei Faat Primary School, Yau Tong • CM6(A)* – Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores • CM7(A)* – Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores • CM8(A)* – Park Central, L1/F Open Space Area | <ul style="list-style-type: none"> • CM1 – Rooftop (41/F) • CM2 – Rooftop (41/F) • CM3 – Rooftop (40/F) • CM4 – Ground Level • CM5 – Rooftop (6/F) • CM6(A)* – Ground Level • CM7(A)* – Ground Level • CM8(A)* – 1/F |

Remarks: *Noise monitoring at designated station CM6, CM7 & CM8 was rejected by the premise owners. Therefore, baseline and impact noise monitoring works were carried out at alternative noise monitoring stations CM6(A), CM7(A) and CM8(A) respectively.

Table III – Water Quality Monitoring

| Monitoring Stations | Parameters, unit | Depth | Frequency |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Groundwater Quality | | | |
| Stream 1- Stream 3 | <ul style="list-style-type: none"> • DO, mg/L • DO Saturation, % • pH • Water Temperature (°C) • Turbidity, NTU • SS, mg/L • BOD₅, mg O₂/L • TOC, mg-TOC/L • Total Nitrogen, mg/L • Ammonia-N, mg NH₃-N/L • Total Phosphate, mg-P/L | Mid-depth | <p style="text-align: center;">Biweekly</p> <p style="text-align: center;">(When the tunnel construction works are found within 50m of the location, weekly.)</p> |
| Marine Water Quality | | | |
| M1 M2 M3 M4 M5 M6 C1 C2 G1 G2 G3 G4 | <p><i>In-situ:</i></p> <p>Dissolved oxygen (DO) concentration, DO saturation, turbidity, pH, temperature and salinity</p> <p><u>Laboratory Testing:</u></p> <p>Suspended Solids (SS)</p> | <p><u>M1-M5, C1-C2, G1-G4</u></p> <ul style="list-style-type: none"> • 3 water depths: 1m below water surface, mid-depth and 1m above sea bed. • If the water depth is less than 3m, mid-depth sampling only. • If the water depth is less than 6m, omit mid-depth sampling. <p><u>M6</u></p> <ul style="list-style-type: none"> • at the vertical level where the water abstraction point of the intake is located(i.e. approximately mid-depth level) | <p style="text-align: center;">3 days per week</p> <p style="text-align: center;">/</p> <p style="text-align: center;">2 per monitoring day</p> <p style="text-align: center;">(1 for mid-ebb and 1 for mid-flood)</p> |

Table IV –Landfill Gas Monitoring

| Type of Monitoring | Parameter | Frequency | Location |
|--------------------|------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Landfill Gas | Methane, Carbon dioxide and Oxygen | at least daily before starting the work of the day | <ul style="list-style-type: none"> • Excavation Locations • Manholes and Chambers • Relocation of monitoring wells • Any other Confined Spaces |

Table V –Ecological Monitoring

| Type of Monitoring | Parameter | Frequency |
|--------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Marine Ecology | The presence, survival, health condition and growth of the translocated coral colonies | Once every 3 months after completion for a period of 12 months |

**APPENDIX B
ACTION AND LIMIT LEVELS**

APPENDIX B – Action and Limit Levels**Air Quality*****1-hr TSP***

| Monitoring Stations | Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|---------------------|------------------------------------------|----------------------------------------|---------------------------------------|
| AM1 | Tin Hau Temple | 275 | 500 |
| AM2 | Sai Tso Wan Recreation Ground | 273 | |
| AM3 | Yau Lai Estate Bik Lai House | 271 | |
| AM4 | Sitting-out Area at Cha Kwo Ling Village | 278 | |
| AM5(A) | Tseung Kwan O DSD Desilting Compound | 273 | |
| AM6(A) | Park Central, L1/F Open Space Area | 285 | |

24-hr TSP

| Monitoring Stations | Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|---------------------|-----------------------------------------------------------------|----------------------------------------|---------------------------------------|
| AM1 | Tin Hau Temple | 173 | 260 |
| AM2 | Sai Tso Wan Recreation Ground | 192 | |
| AM3 | Yau Lai Estate Bik Lai House | 167 | |
| AM4(A) | Cha Kwo Ling Public Cargo Working Area Administrative Office | 210 | |
| AM5(A) | Tseung Kwan O DSD Desilting Compound | 175 | |
| AM6(A) | Park Central, L1/F Open Space Area | 165 | |

Noise

| Time Period | Action Level | Limit Level |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|
| 0700-1900 hrs on normal weekdays | When one documented complaint is received from any one of the monitoring stations | 75 dB(A) ⁽¹⁾ |
| 1900-2300 on all days and 0700-2300 on general holidays (including Sundays) | | 60/65/70 dB(A) ⁽²⁾⁽³⁾ |
| 2300-0700 on all days | | 45/50/55 dB(A) ⁽²⁾⁽³⁾ |

¹ 70 dB(A) for schools and 65 dB(A) for schools during examination period.² Acceptable Noise Levels for Area Sensitivity Rating of A/B/C³ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Water Quality***Groundwater***

| Parameters | Action | Limit |
|----------------------------------------|--------------------------|--------------------------|
| DO in mg L ⁻¹ | 7.6 | 7.6 |
| pH | 6.0 – 8.9 | 6.0 – 9.0 |
| BOD ₅ in mg L ⁻¹ | 2.0 | 2.0 |
| TOC in mg L ⁻¹ | Stream 1 and Stream 2: 9 | Stream 1 and Stream 2: 9 |
| | Stream 3: 6 | Stream 3: 6 |
| Total Nitrogen in mg L ⁻¹ | 2.0 | 2.1 |
| Ammonia-N in mg L ⁻¹ | 0.15 | 0.20 |
| Total Phosphate in mg L ⁻¹ | 0.05 | 0.05 |
| SS in mg L ⁻¹ | 7.6 | 12.1 |
| Turbidity in NTU | 2.1 | 2.3 |

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, 5-day biochemical oxygen demand (BOD₅), Total organic carbon (TOC), Total Nitrogen, Ammonia-N and Total Phosphate, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.

Groundwater Level Monitoring

| Drill Hole No. | 38568-LDH1 | TKO-LBH907 |
|-----------------------|-------------------|-------------------|
| Action Level (mPD) | +74.65 | +17.59 |

Marine Water Quality

| Parameter (unit) | Depth | Action Level | Limit Level |
|-------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| DO in mg/L (See Note 1 and 4) | Stations G1-G4, M1-M5 | | |
| | Depth Average | <u>4.9 mg/L</u> | <u>4.6 mg/L</u> |
| | Bottom | <u>4.2 mg/L</u> | <u>3.6 mg/L</u> |
| | Station M6 | | |
| | Intake Level | <u>5.0 mg/L</u> | <u>4.7 mg/L</u> |
| Turbidity in NTU (See Note 2 and 4) | Stations G1-G4, M1-M5 | | |
| | Bottom | <u>19.3 NTU</u> or 120% of upstream control station's Turbidity at the same tide of the same day | <u>22.2 NTU</u> or 130% of upstream control station's Turbidity at the same tide of the same day |
| | Station M6 | | |
| | Intake Level | <u>19.0 NTU</u> | <u>19.4 NTU</u> |
| SS in mg/L (See Note 2 and 4) | Stations G1-G4 | | |
| | Surface | <u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day | <u>6.9mg/L</u> or 130% of upstream control station's SS at the same tide of the same day |
| | Stations M1-M5 | | |
| | Surface | <u>6.2 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day | <u>7.4 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day |
| | Stations G1-G4, M1-M5 | | |
| | Bottom | <u>6.9 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day | <u>7.9 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day |
| | Station M6 | | |
| Intake Level | <u>8.3 mg/L</u> | <u>8.6 mg/L</u> | |

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.
4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

Ecology***Post-translocation Coral Monitoring***

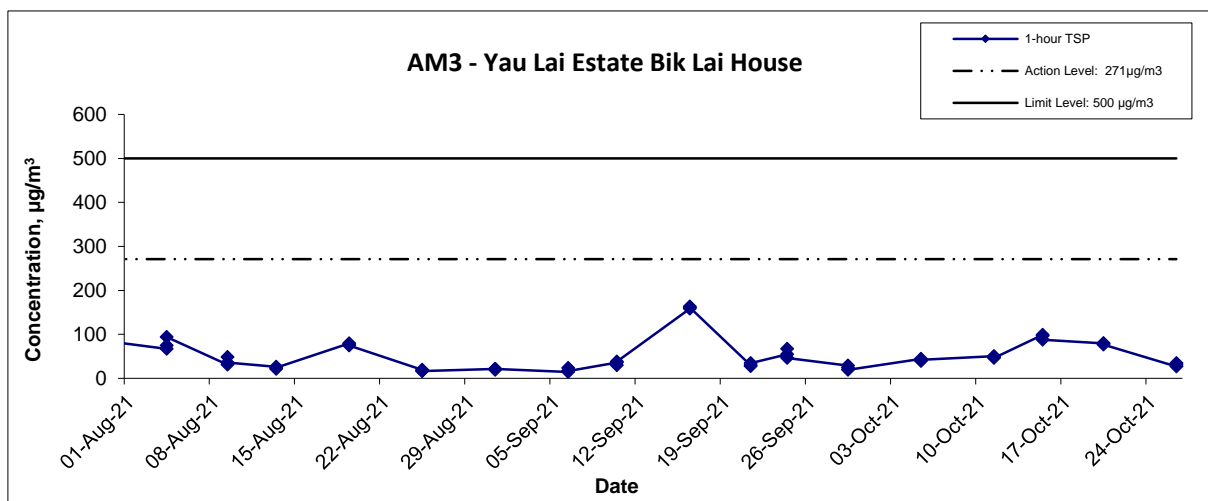
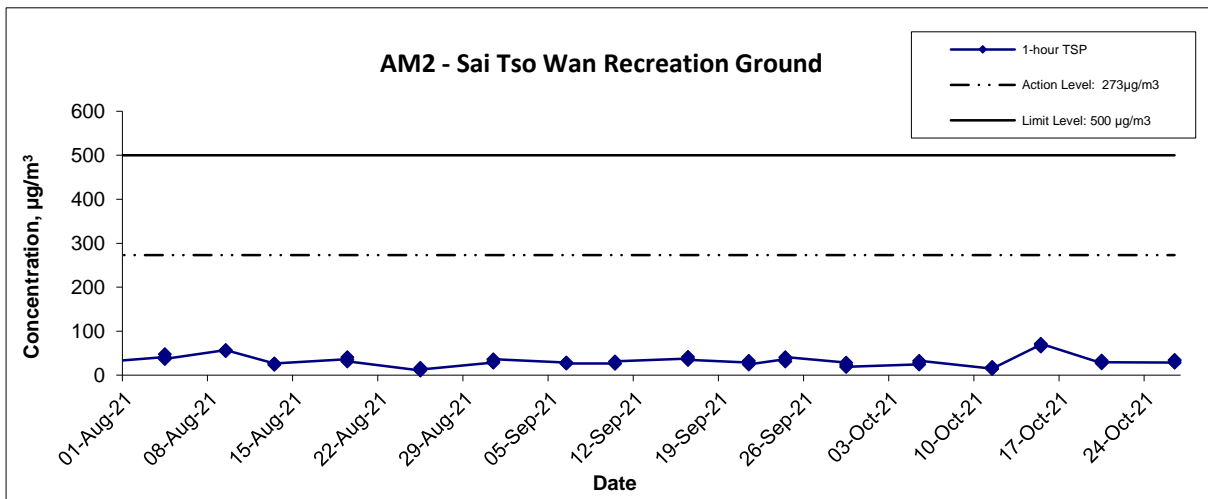
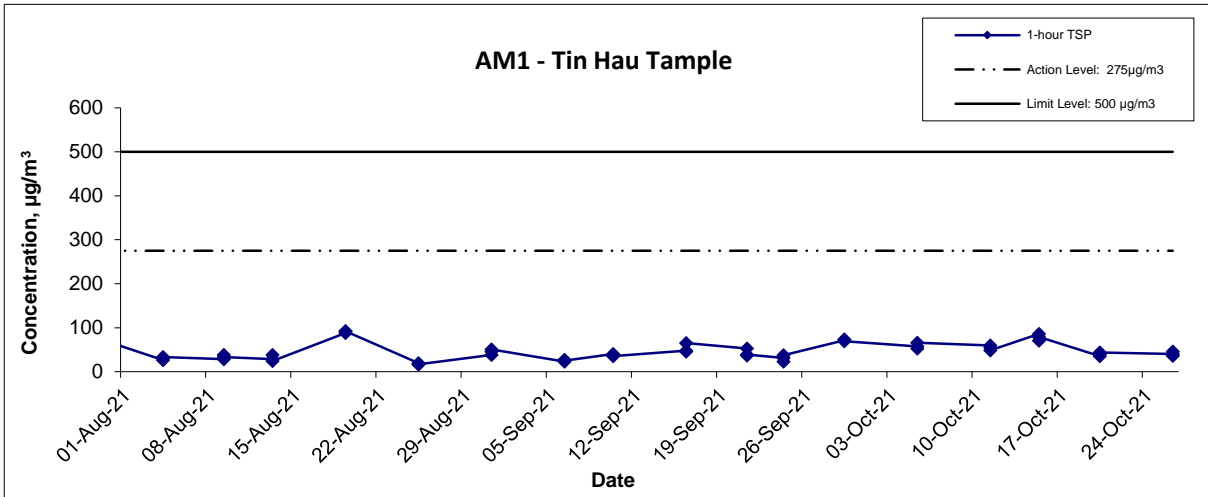
| Parameter | Action Level Definition | Limit Level Definition |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mortality | If during Impact Monitoring a 15% increase in the percentage of partial mortality on hard corals occurs at more than 20% of the tagged coral at any one Impact Monitoring Site that is not recorded at the Control Site, then the Action Level is exceeded. | If during the Impact Monitoring a 25% increase in the percentage of partial mortality occurs at more than 20% of the tagged coral at any one Impact Monitoring Site that is not recorded at the Control Site, then the Limit Level is exceeded. |

Landfill Gas Monitoring

| Parameter | Limit Level |
|------------------|----------------------------------|
| Oxygen | <19% |
| | <18% |
| Methane | >10% LEL (i.e. > 0.5% by volume) |
| | >20% LEL (i.e. > 1% by volume) |
| Carbon Dioxide | >0.5% |
| | >1.5% |

**APPENDIX C
GRAPHICAL PRESENTATION OF AIR
QUALITY MONITORING RESULTS**

1-hr TSP Concentration Levels



Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel -
 Design and Construction

Graphical Presentation of 1-hour TSP Monitoring Results

Scale

N.T.S

Date

Oct-21

Project

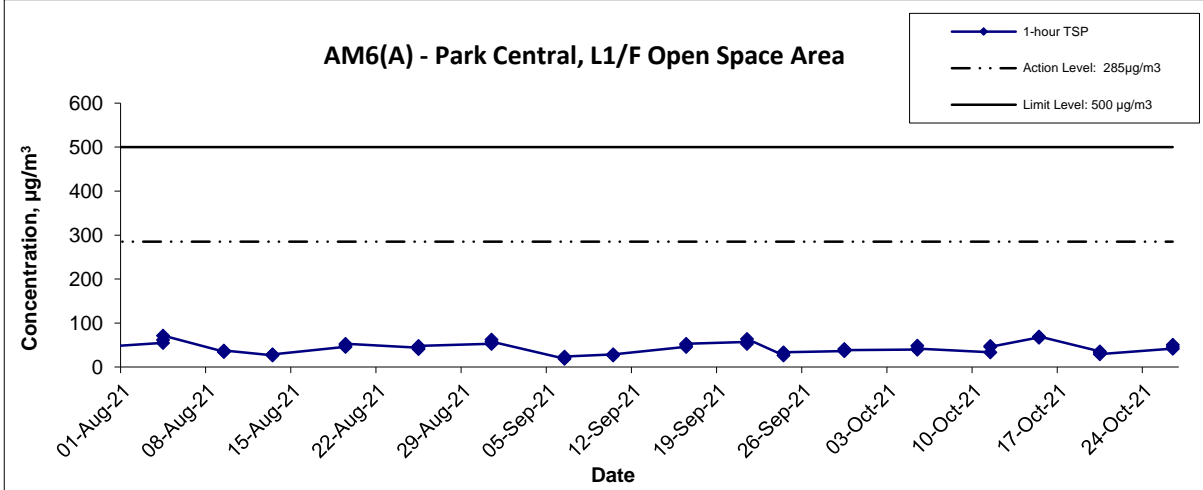
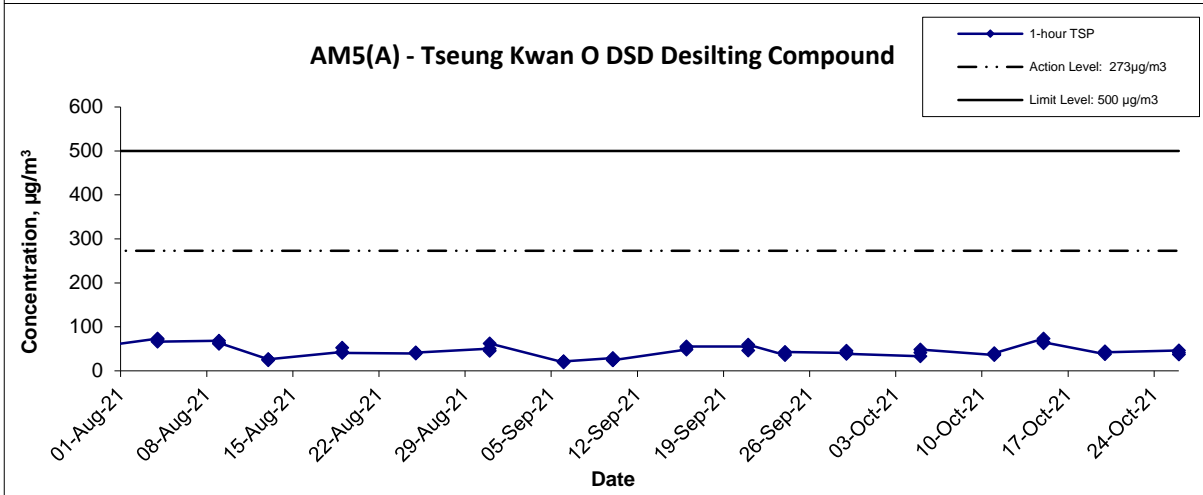
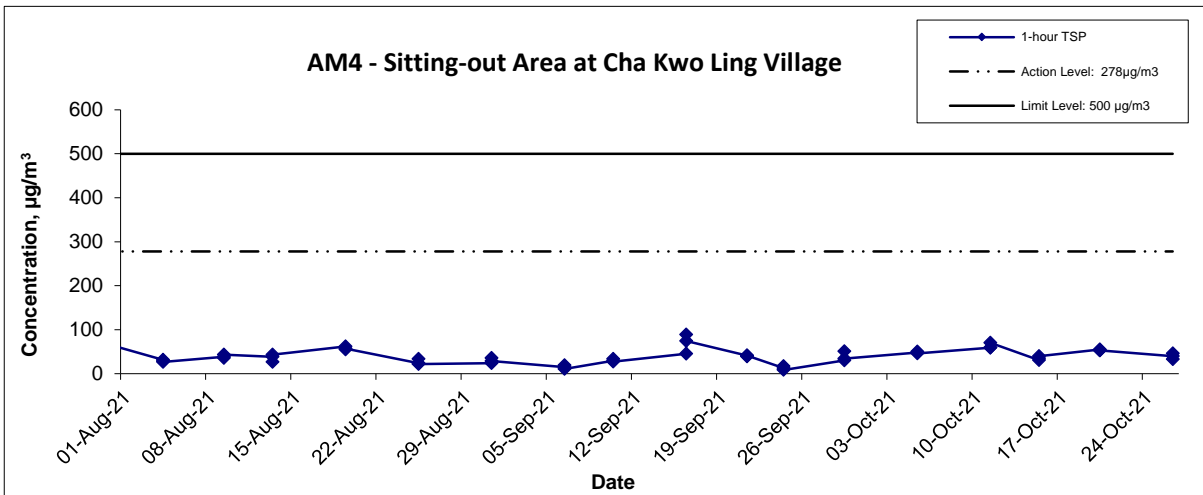
No. MA16034

Appendix

C

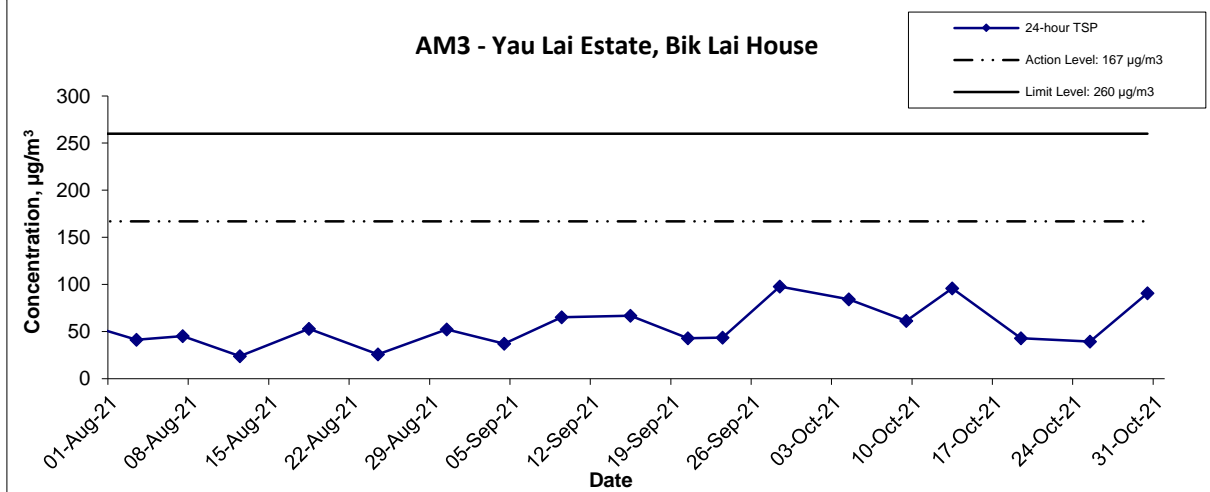
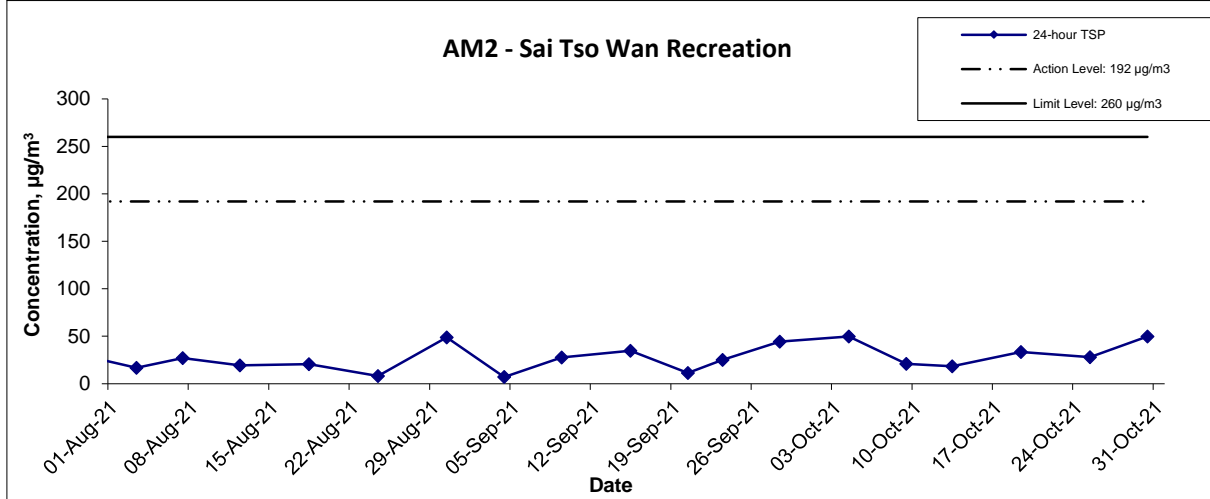
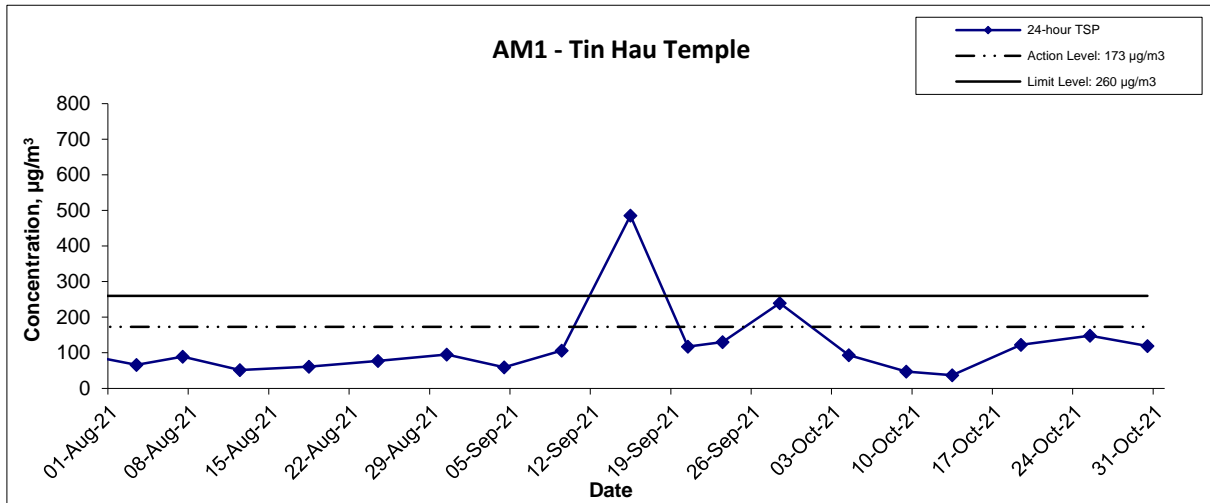
CINOTECH

1-hr TSP Concentration Levels



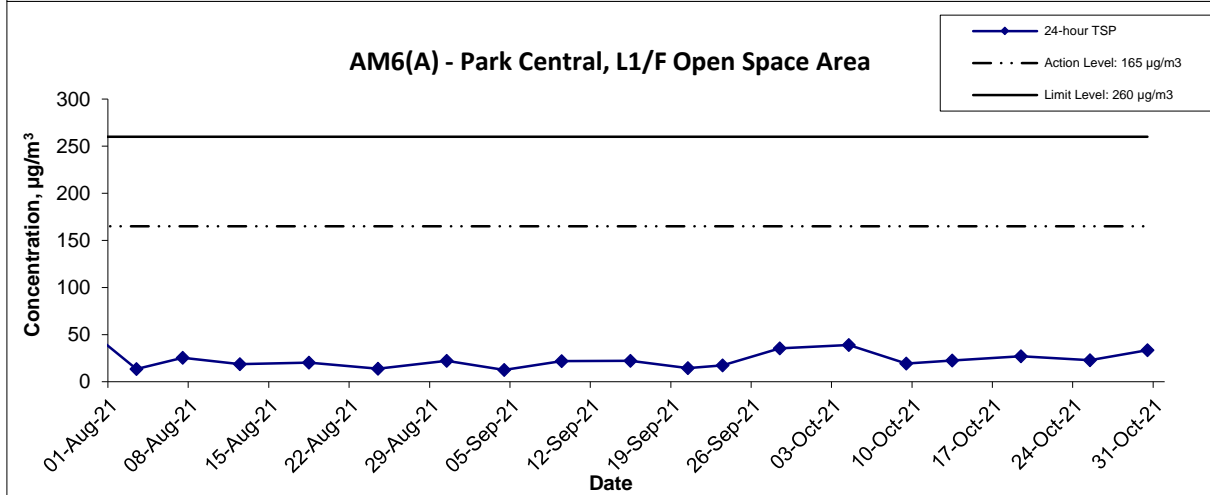
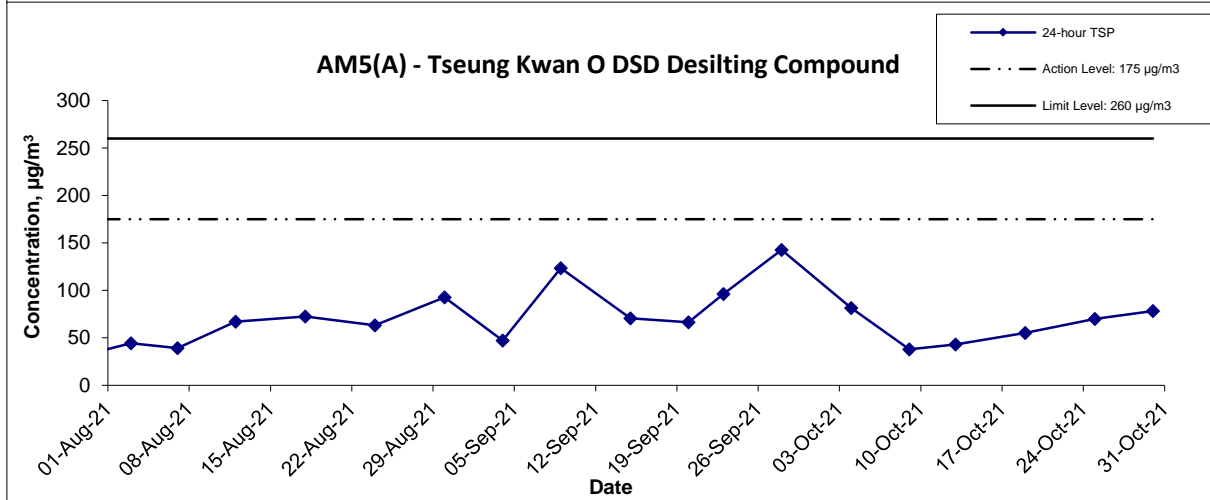
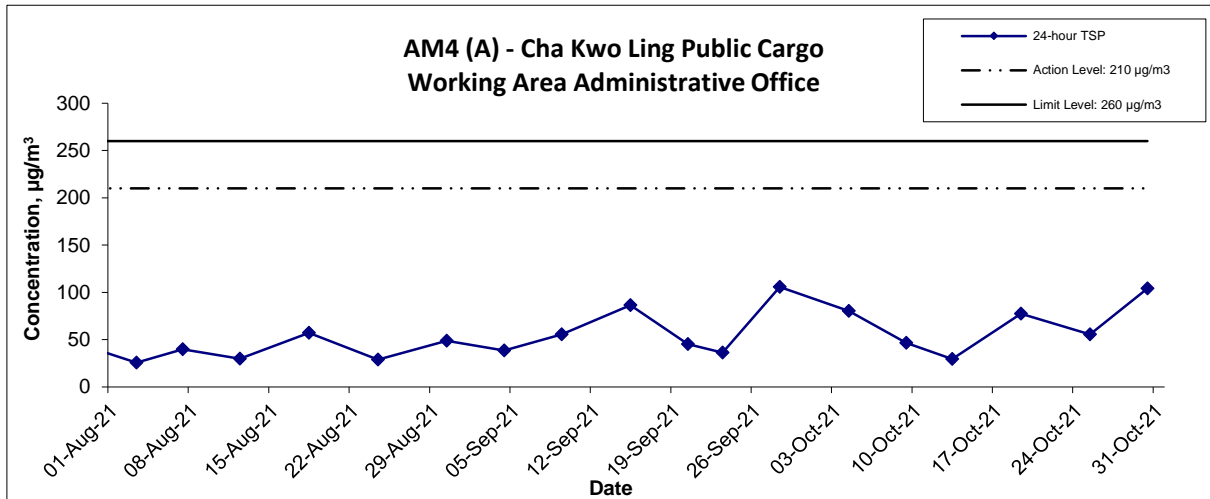
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| Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Graphical Presentation of 1-hour TSP Monitoring Results | Scale | N.T.S | Project No. | MA16034 | |
| | Date | Oct-21 | Appendix | C | |

24-hr TSP Concentration Levels



| | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------------|---------|--|
| Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Graphical Presentation of 24-hour TSP Monitoring Results | Scale | N.T.S | Project No. | MA16034 | |
| | Date | Oct-21 | Appendix | C | |

24-hr TSP Concentration Levels



Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel -
 Design and Construction

Graphical Presentation of 24-hour TSP Monitoring Results

Scale
 N.T.S

Date
 Oct-21

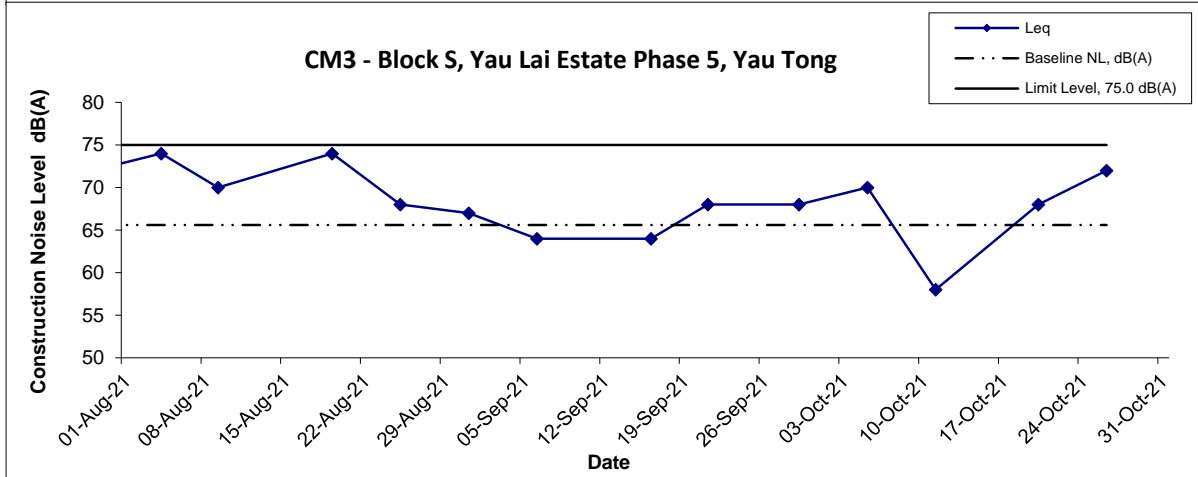
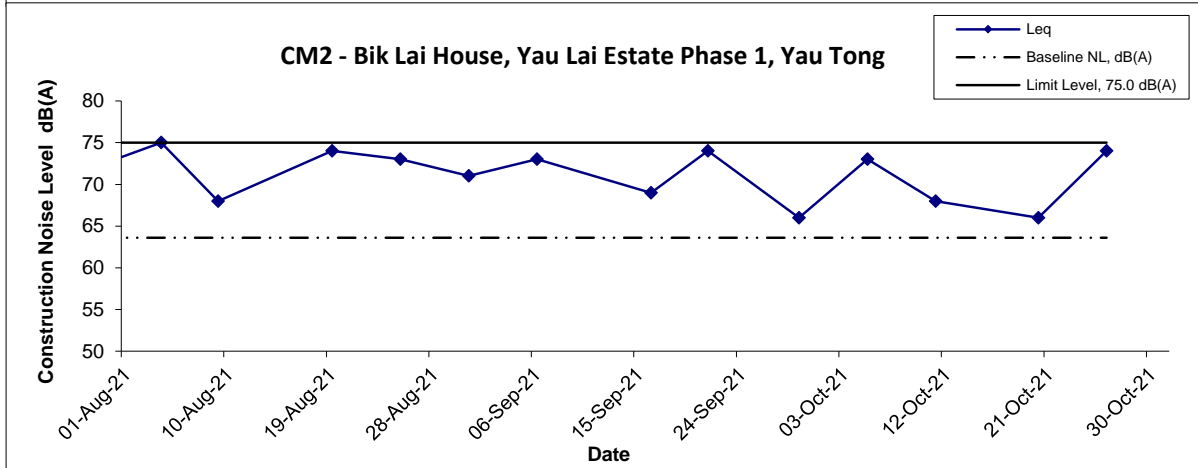
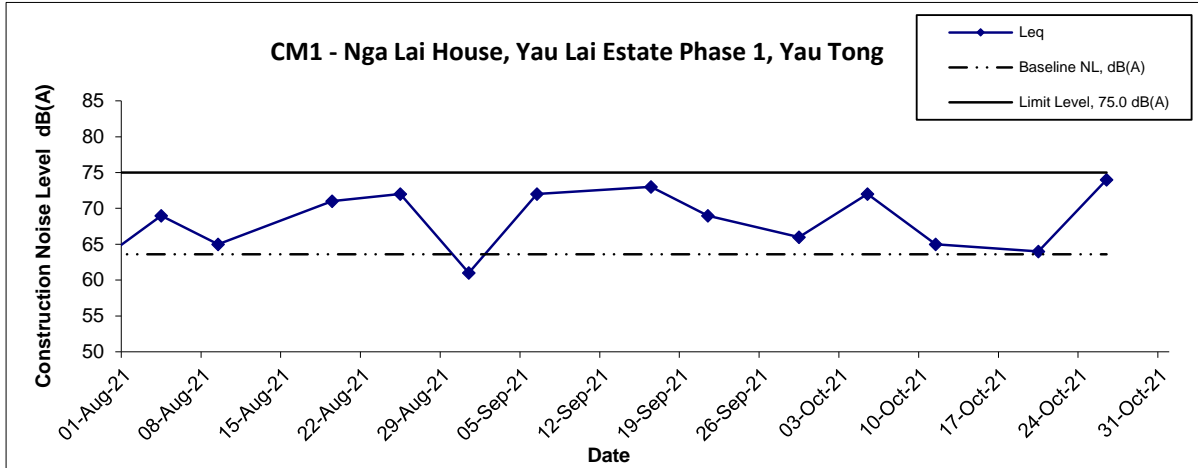
Project
 No. MA16034

Appendix
 C



**APPENDIX D
GRAPHICAL PRESENTATION OF
NOISE MONITORING RESULTS**

Noise Levels

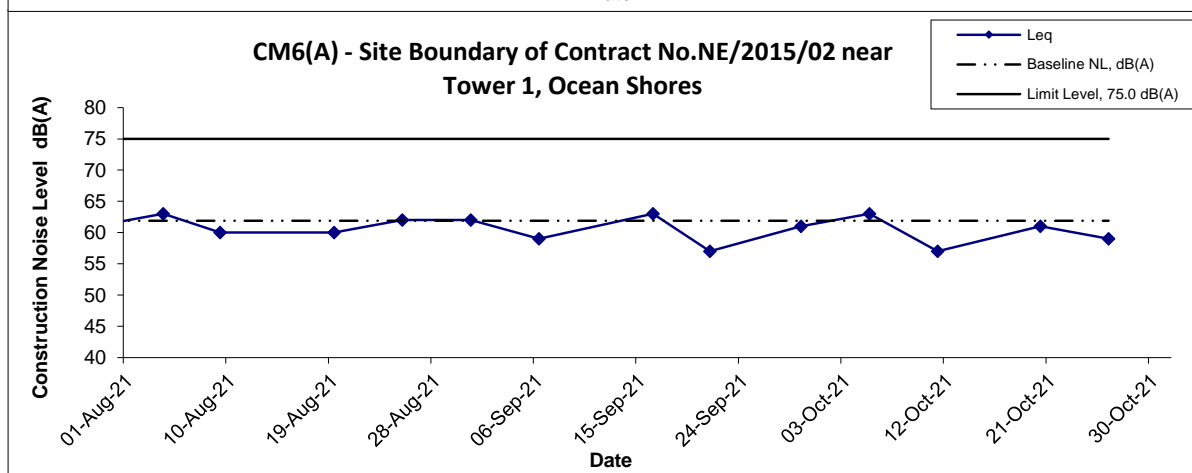
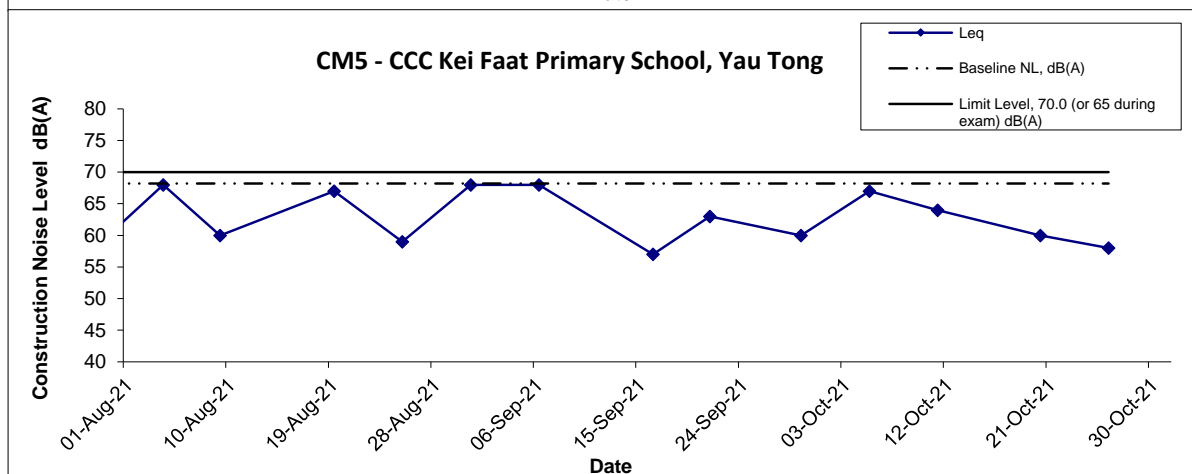
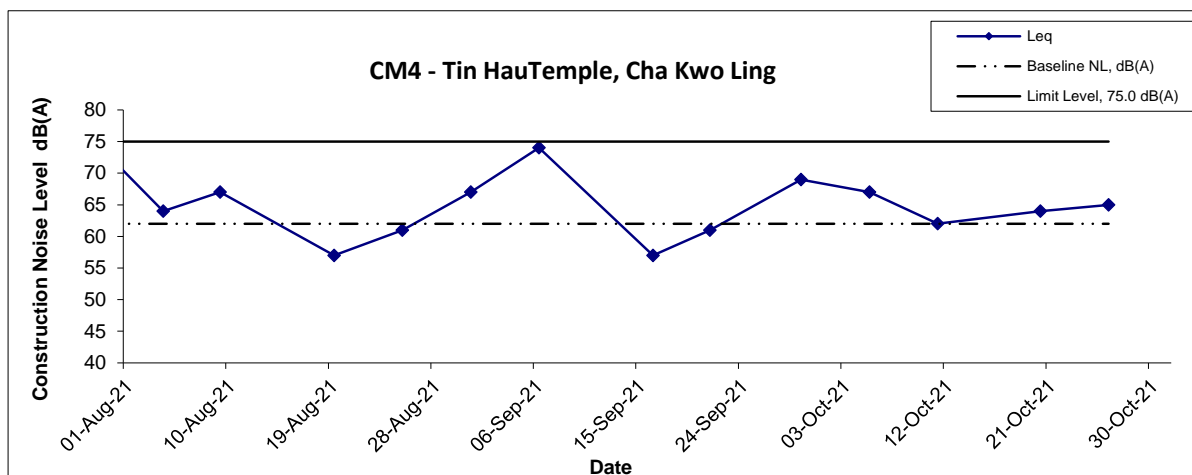


Title Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel -
 Design and Construction
 Graphical Presentation of
 Construction Noise Monitoring Results

| | |
|--------|-------------|
| Scale | Project |
| N.T.S | No. MA16034 |
| Date | Appendix |
| Oct-21 | D |



Noise Levels

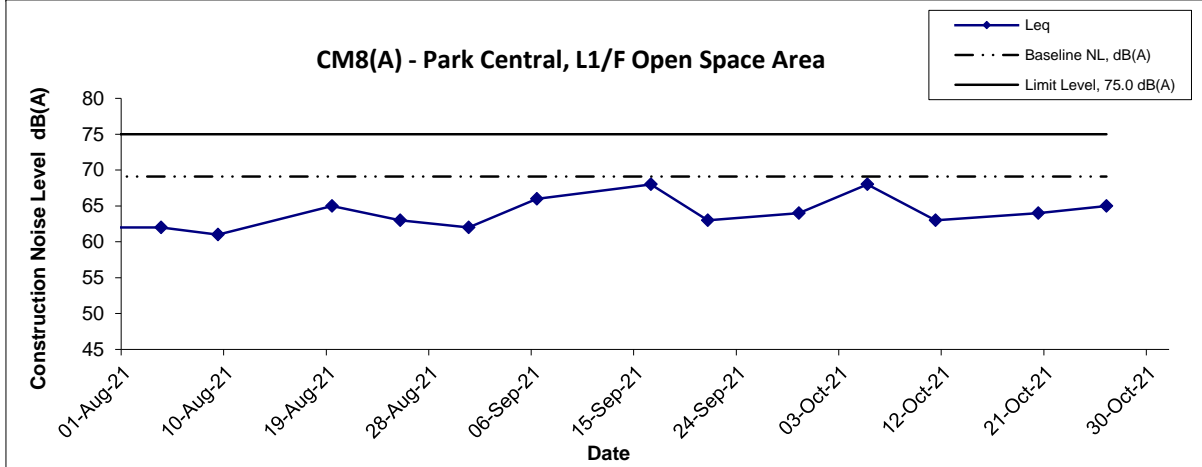
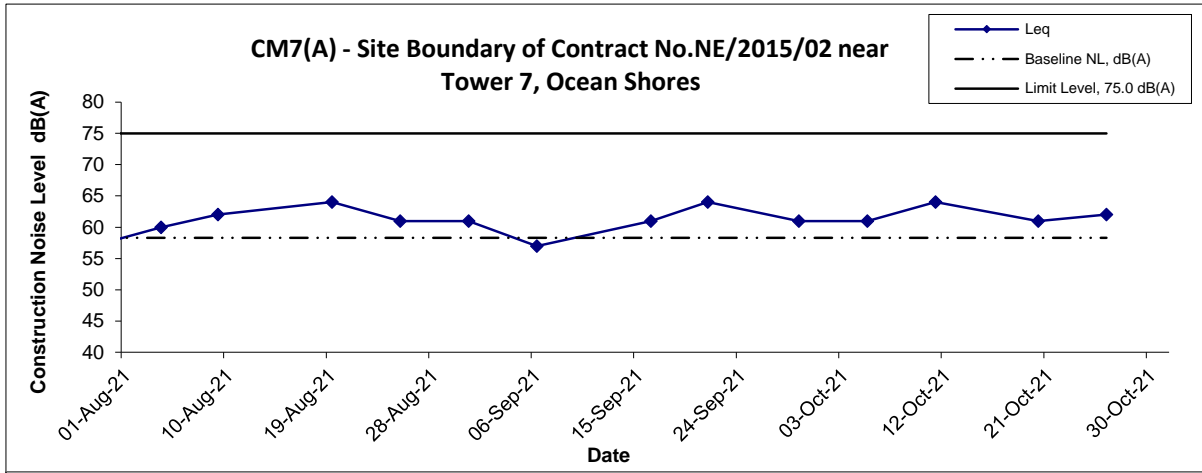


Title Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel -
 Design and Construction
 Graphical Presentation of
 Construction Noise Monitoring Results

| | |
|--------|-------------|
| Scale | Project |
| N.T.S | No. MA16034 |
| Date | Appendix |
| Oct-21 | D |

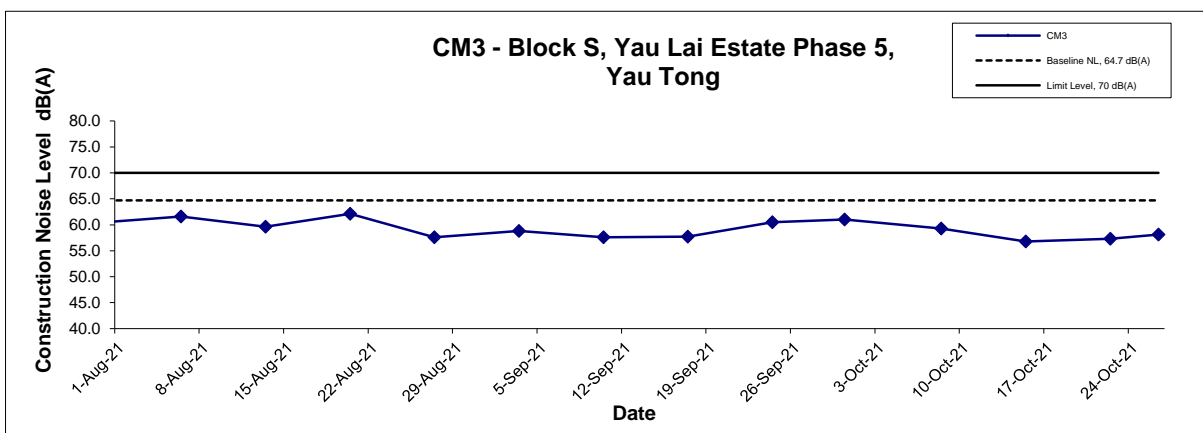
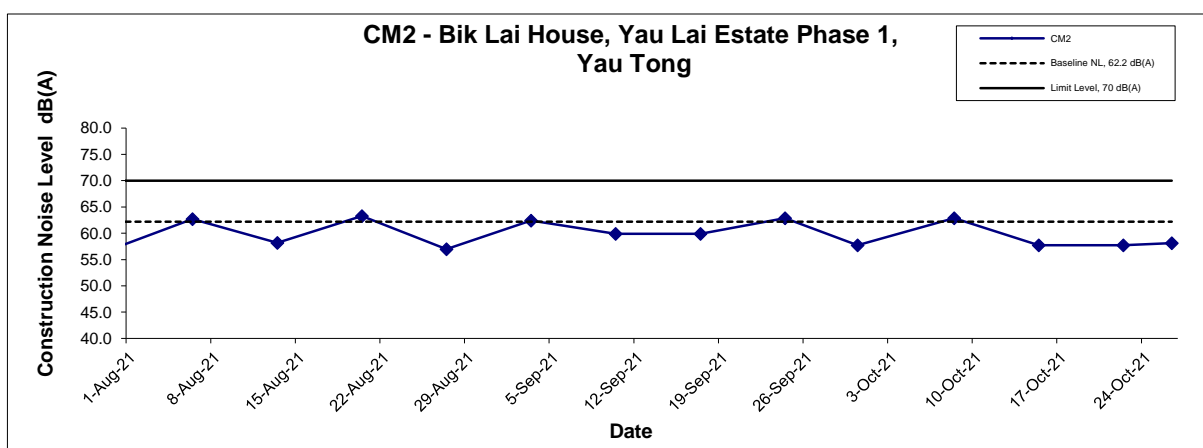
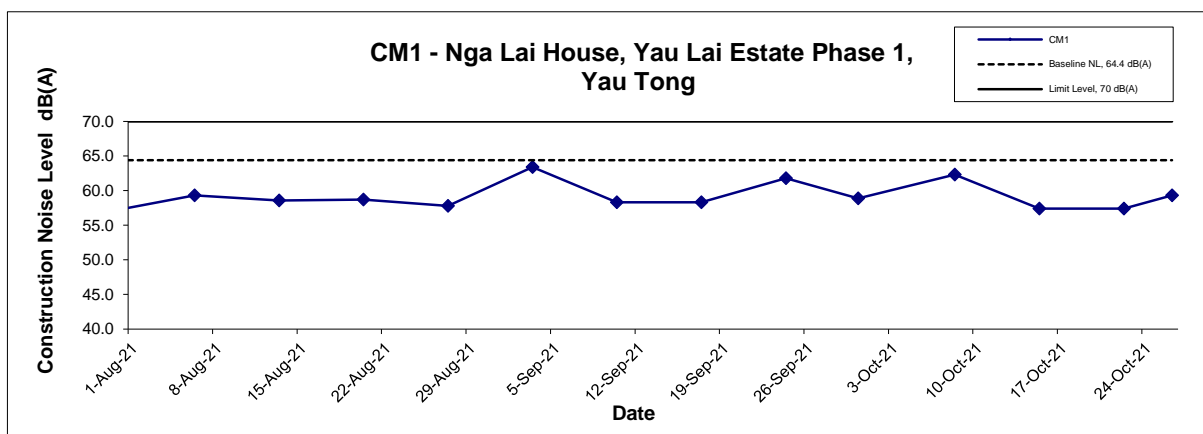


Noise Levels



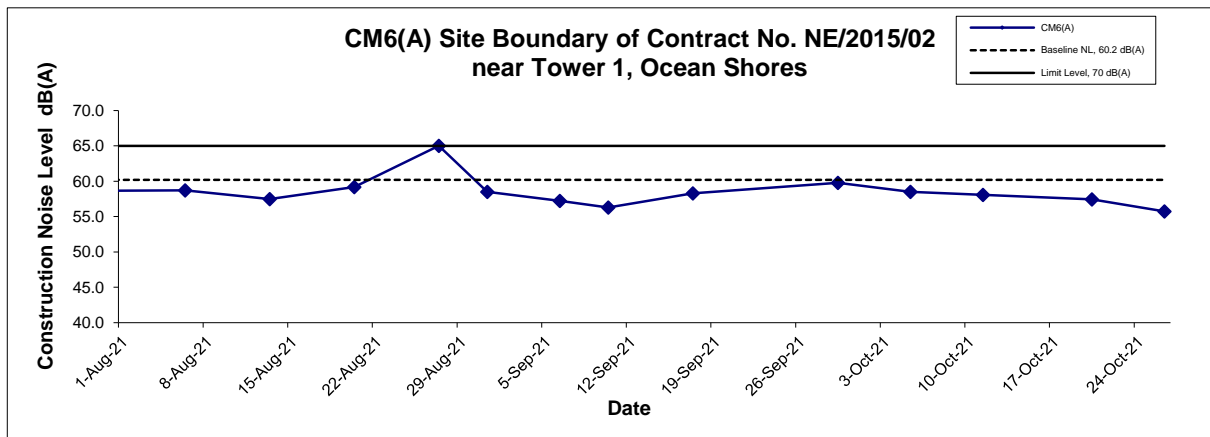
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| Title Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Graphical Presentation of Construction Noise Monitoring Results | Scale N.T.S | Project No. MA16034 | |
| | Date Oct-21 | Appendix D | |

Noise Levels (Restricted Hours - 19:00 - 23:00 on normal weekdays)



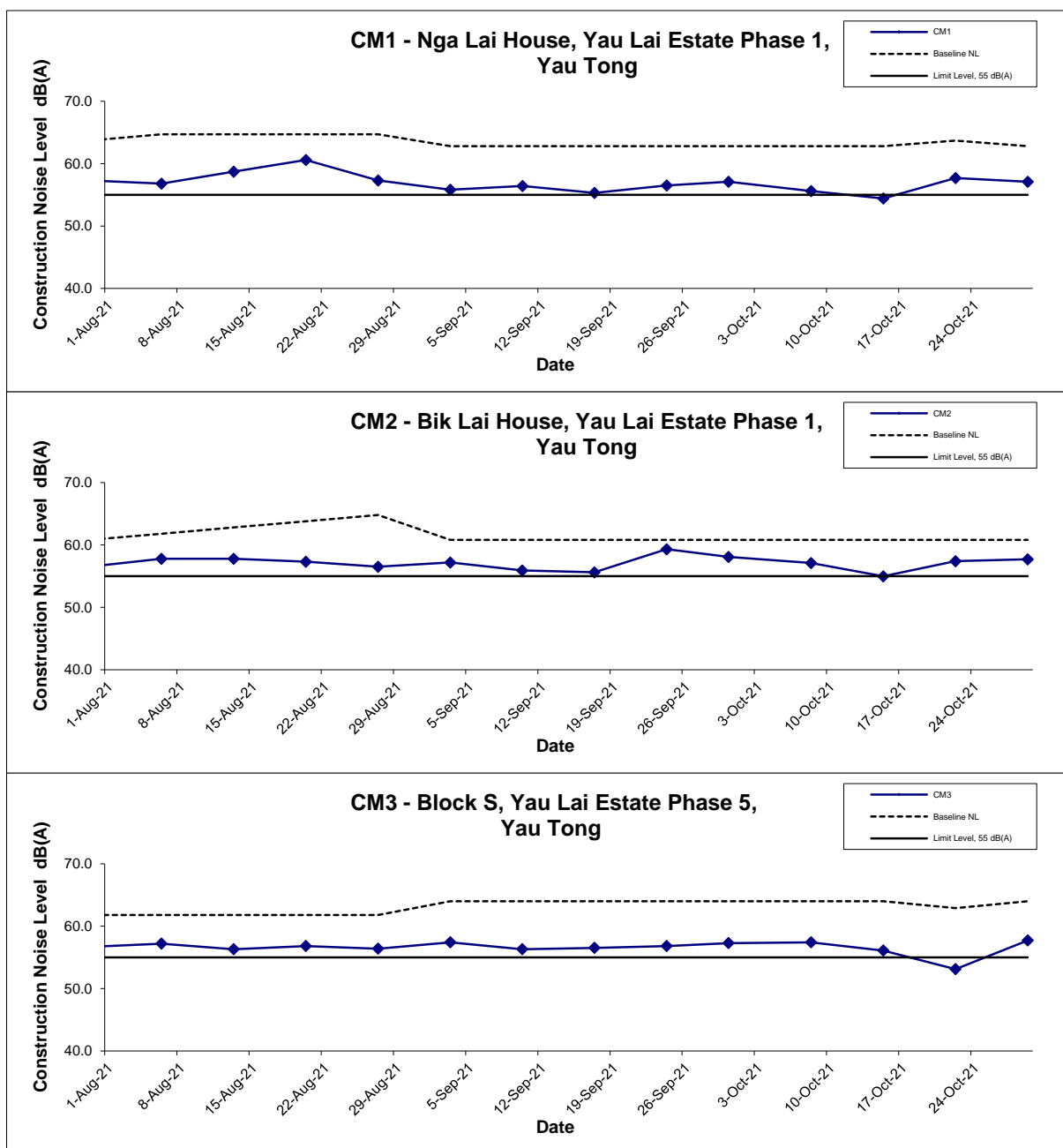
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| Title Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Graphical Presentation of Restricted Noise Monitoring Results | Scale N.T.S | Project No. MA16034 | |
| | Date Oct-2021 | Appendix D | |

Noise Levels
(Restricted Hours - 19:00 - 23:00 on normal weekdays)



| | | | | |
|-------|---------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|
| Title | Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction | Scale | Project No. | CINOTECH |
| | Graphical Presentation of Restricted Noise Monitoring Results | N.T.S | MA16034 | |
| | | Date | Appendix | |
| | | Oct-2021 | D | |

Noise Levels (Restricted Hours - 2300-0700 on normal weekdays)



Title Agreement No. CE/59/2015 (EP)
 Environmental Team for Tseung Kwan O - Lam Tin Tunnel -
 Design and Construction
 Graphical Presentation of Restricted Noise Monitoring Results

Scale N.T.S
 Date Oct-2021

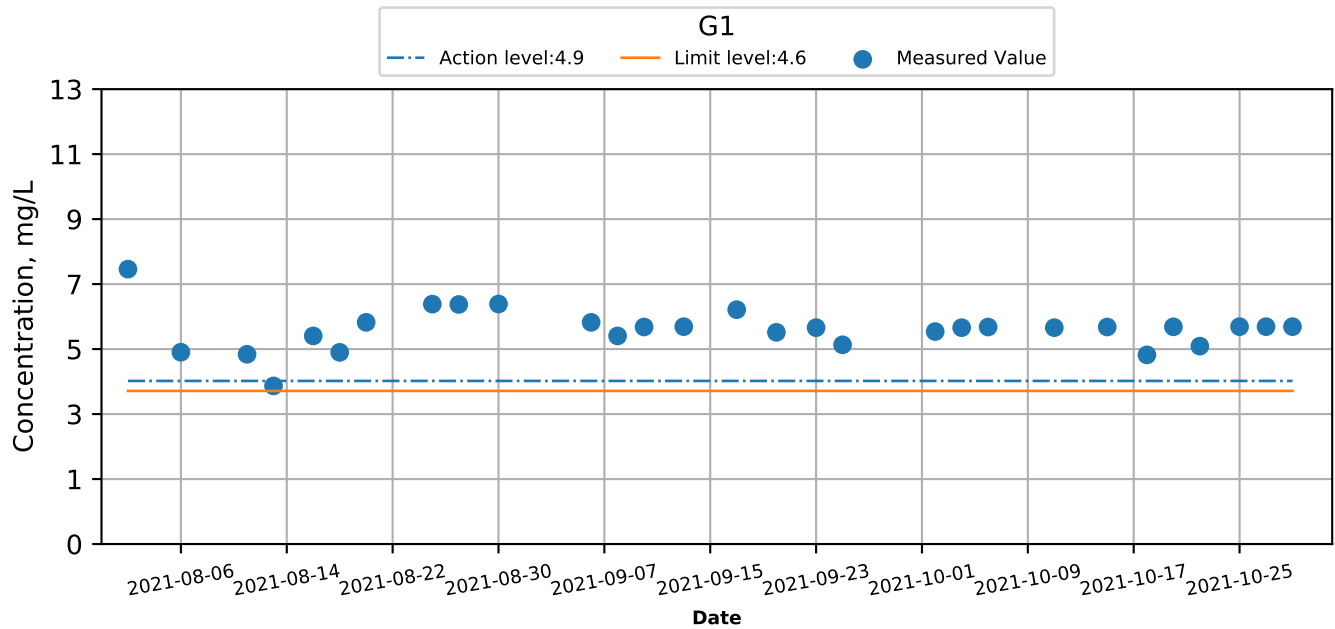
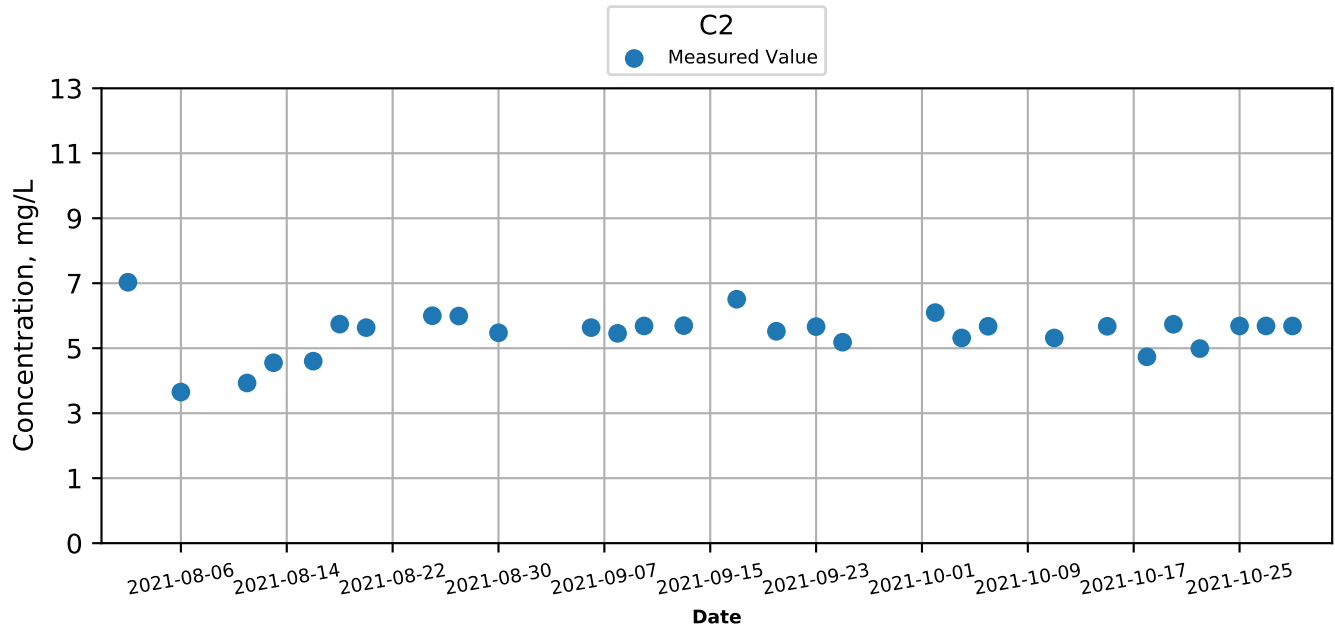
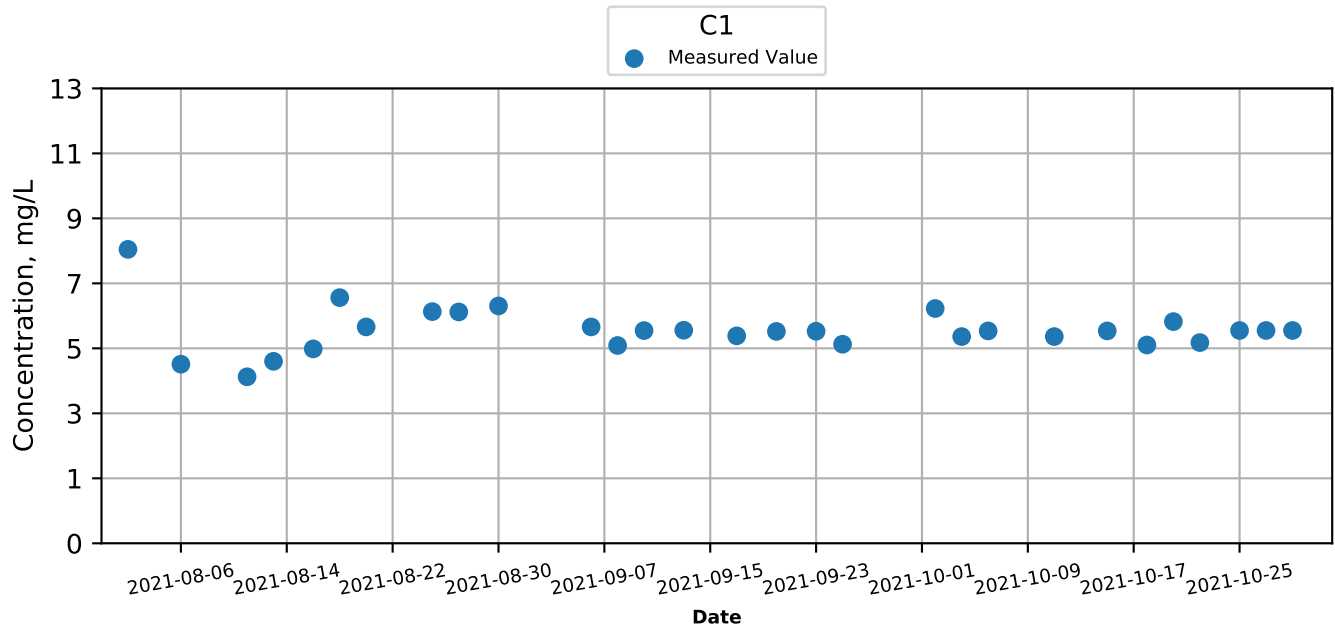
Project No. MA16034
 Appendix D



**APPENDIX F
GRAPHICAL PRESENTATION OF
MARINE WATER QUALITY
MONITORING RESULTS**

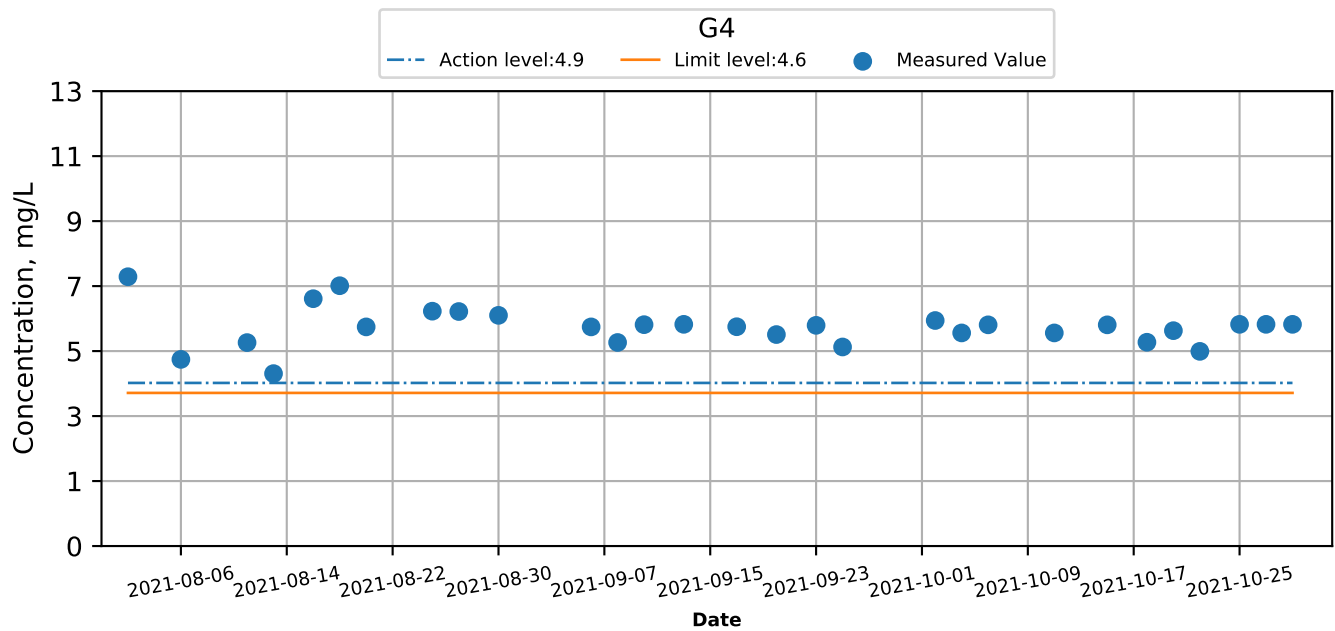
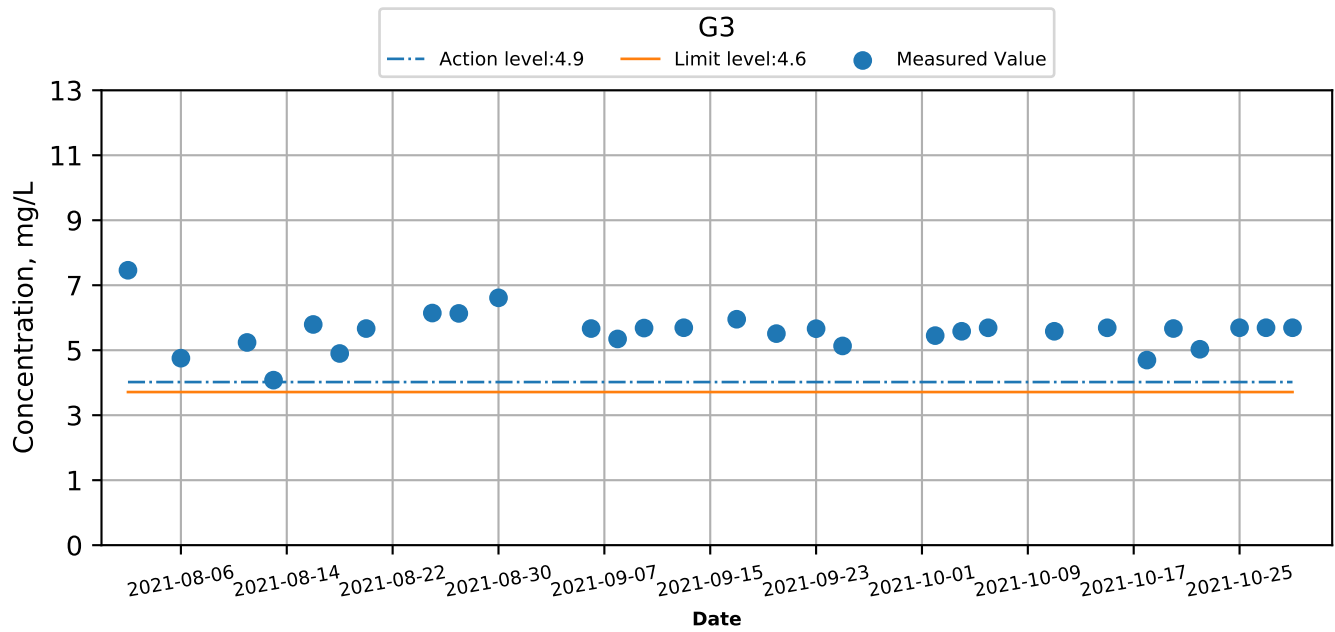
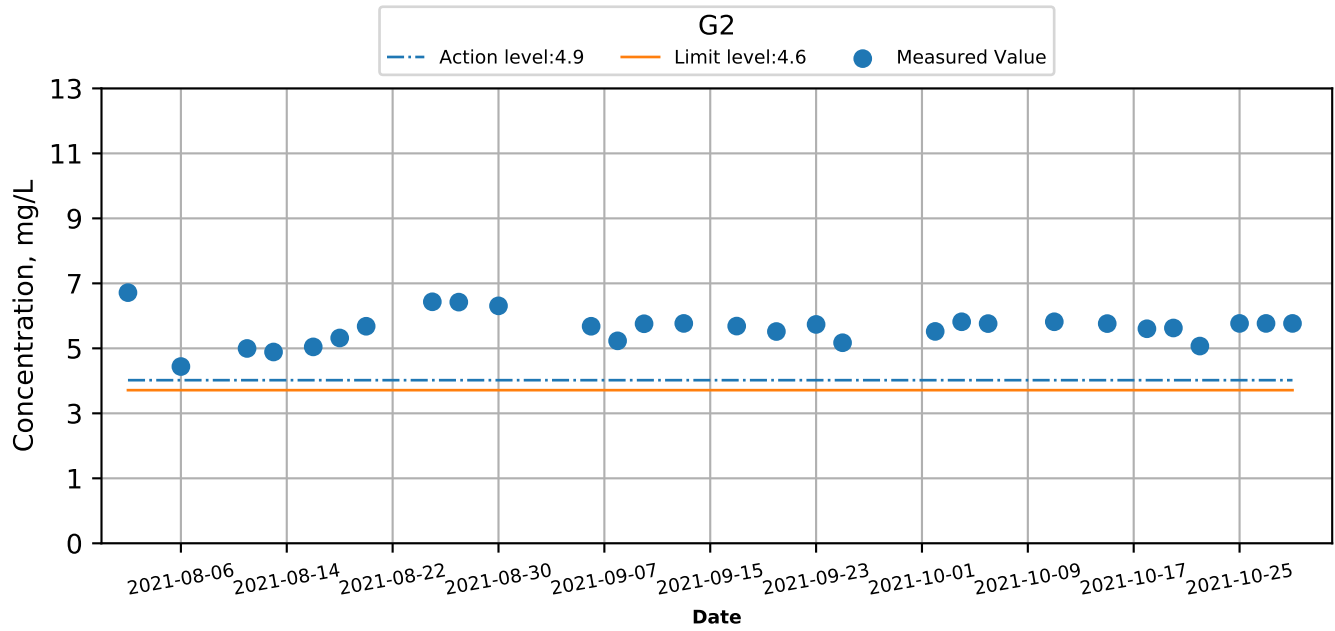
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Ebb



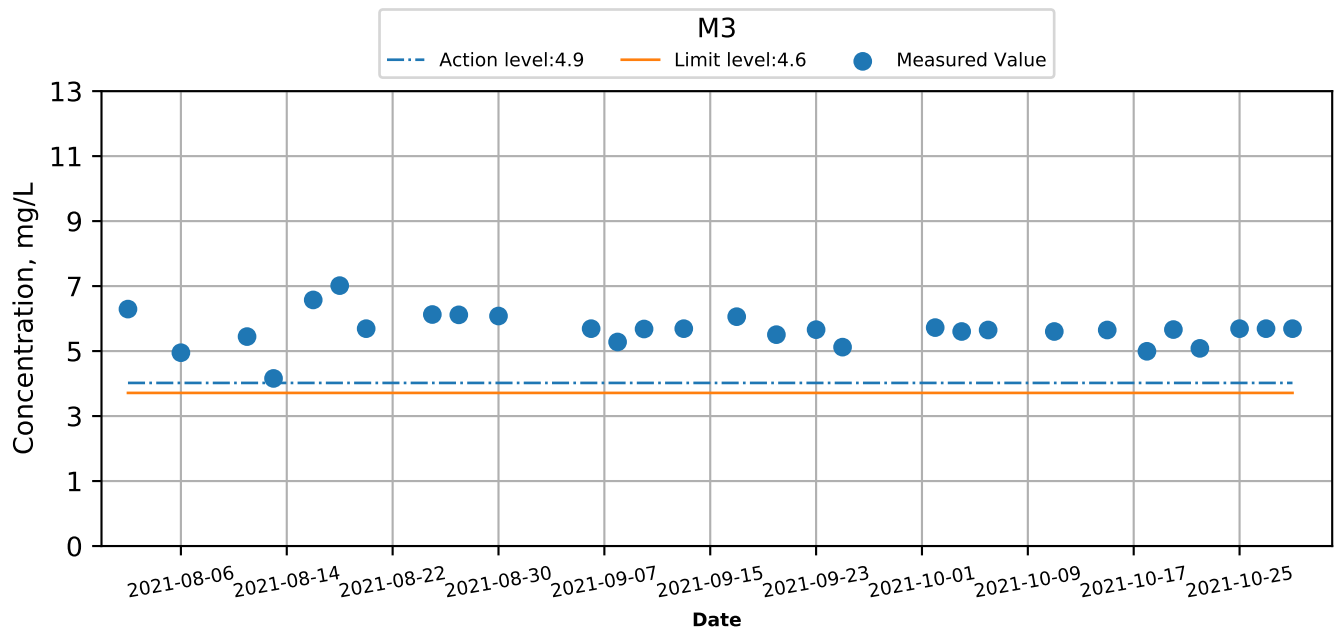
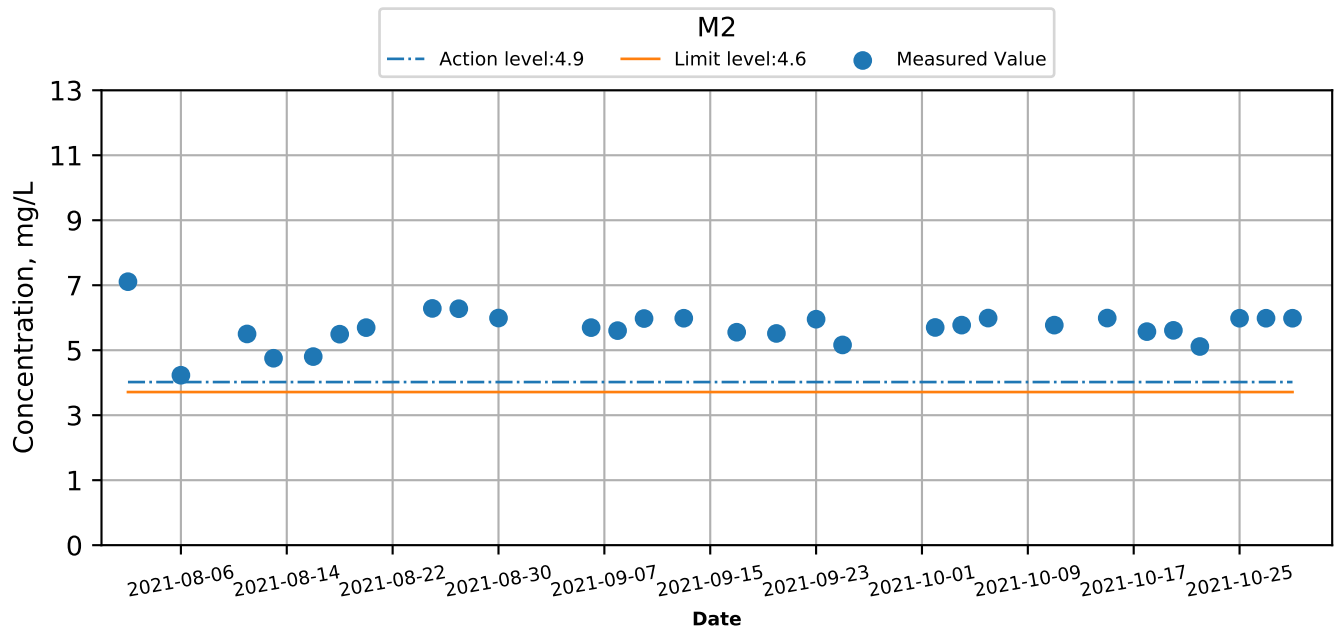
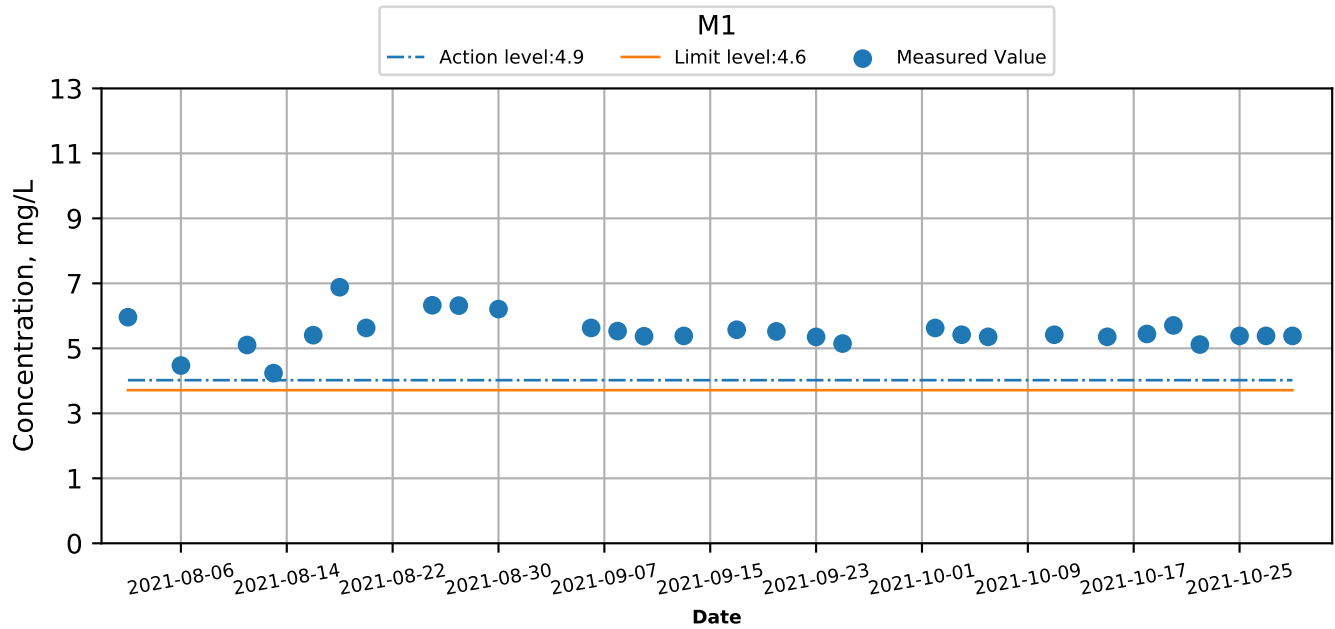
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Ebb



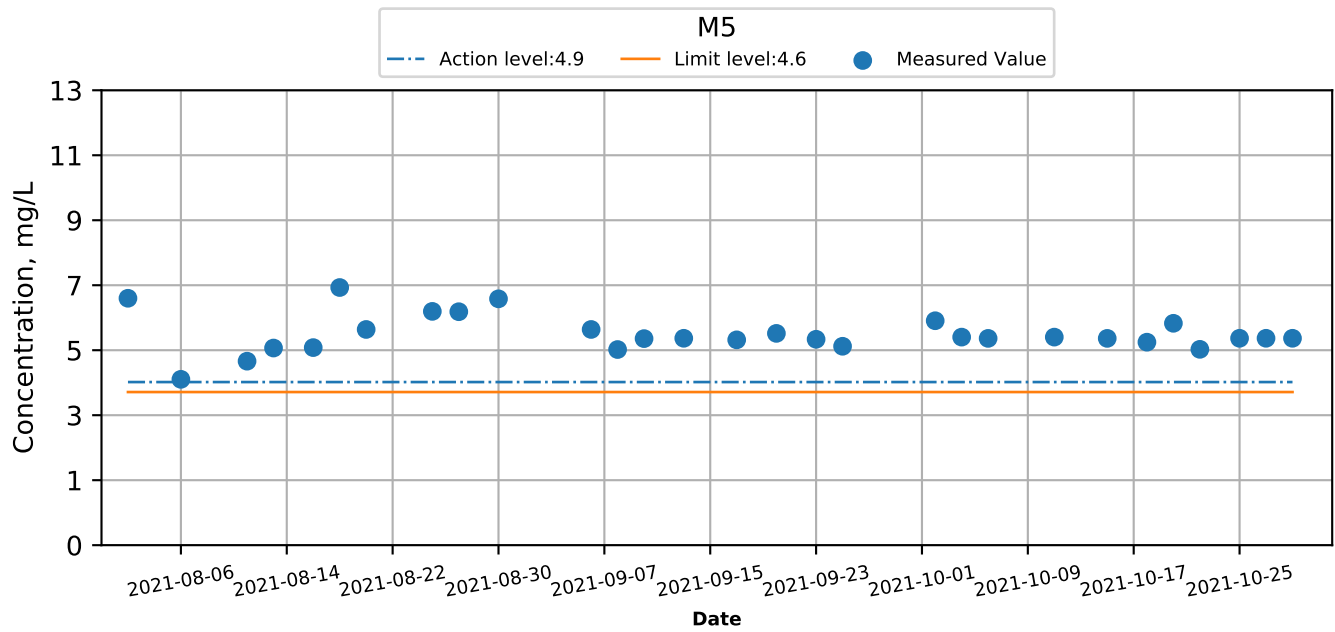
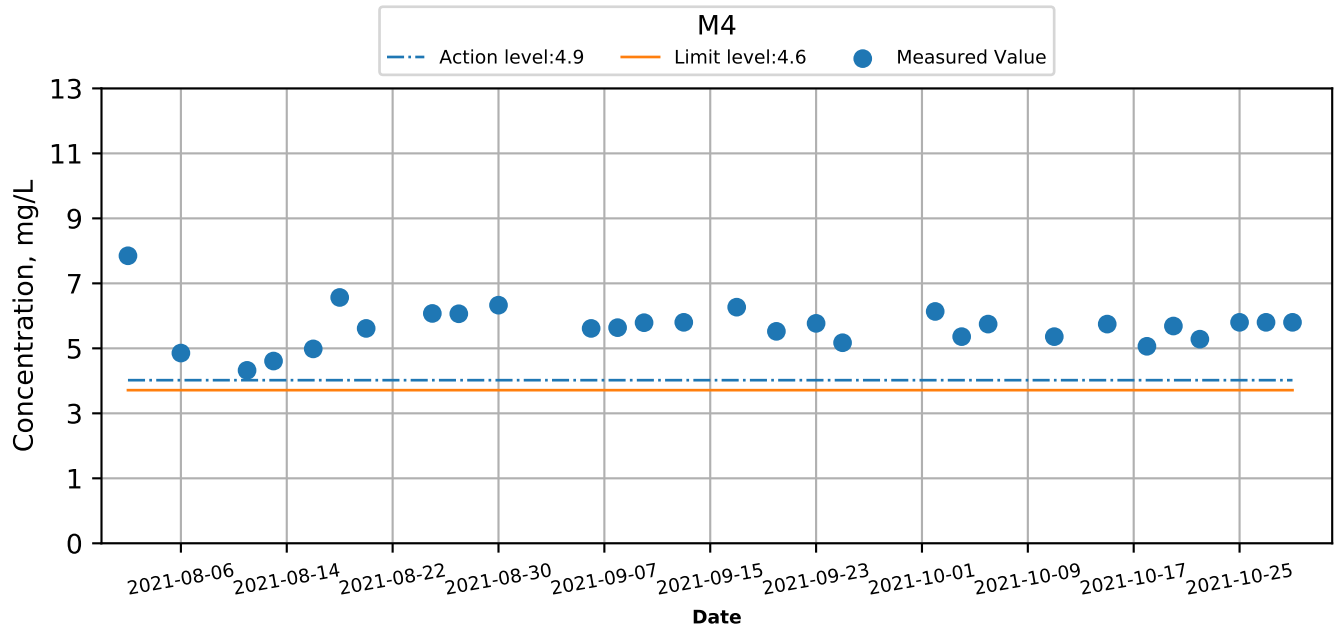
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Ebb



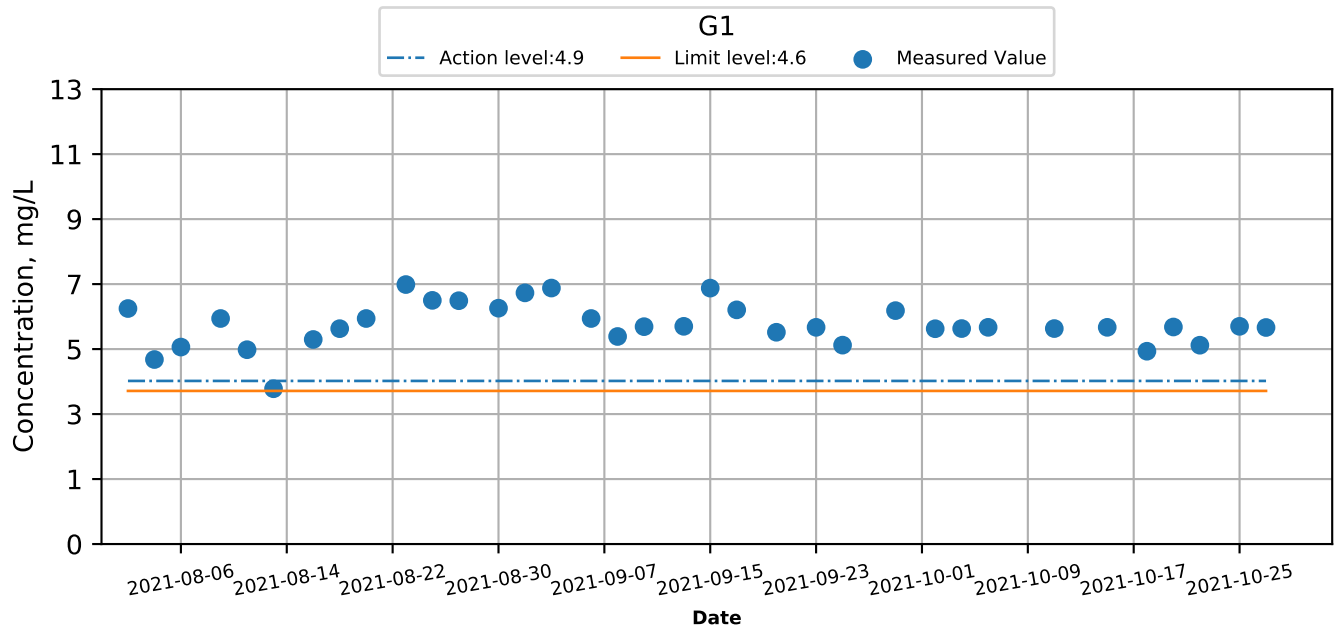
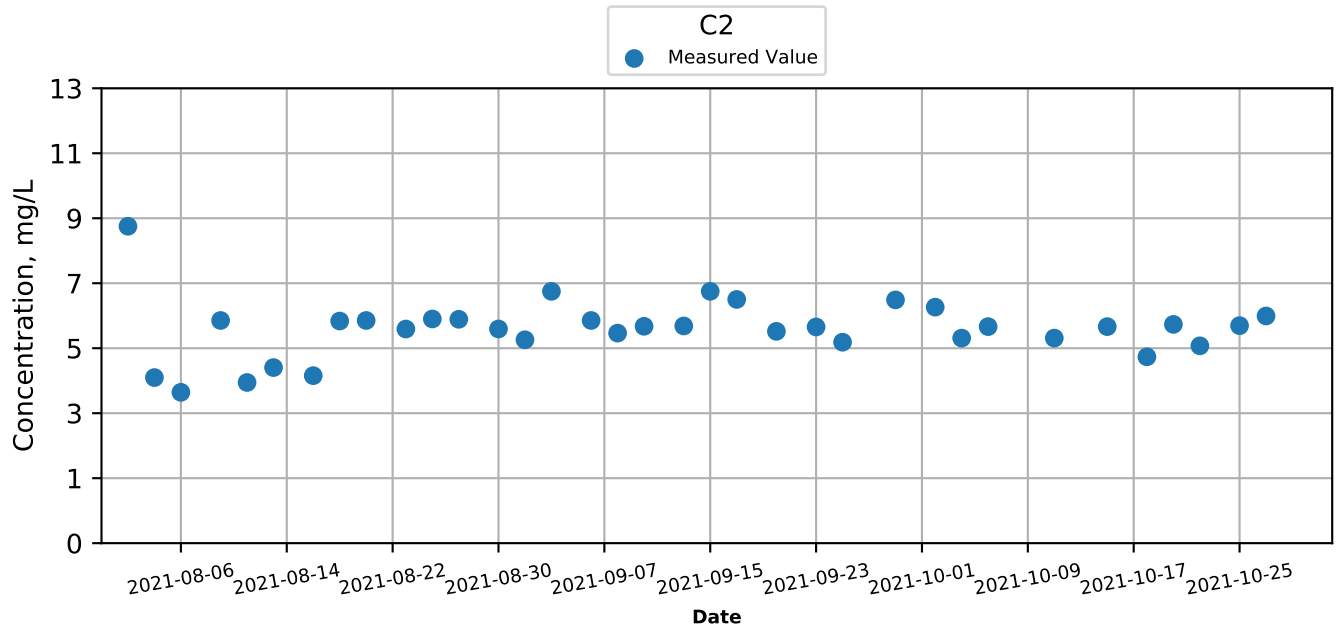
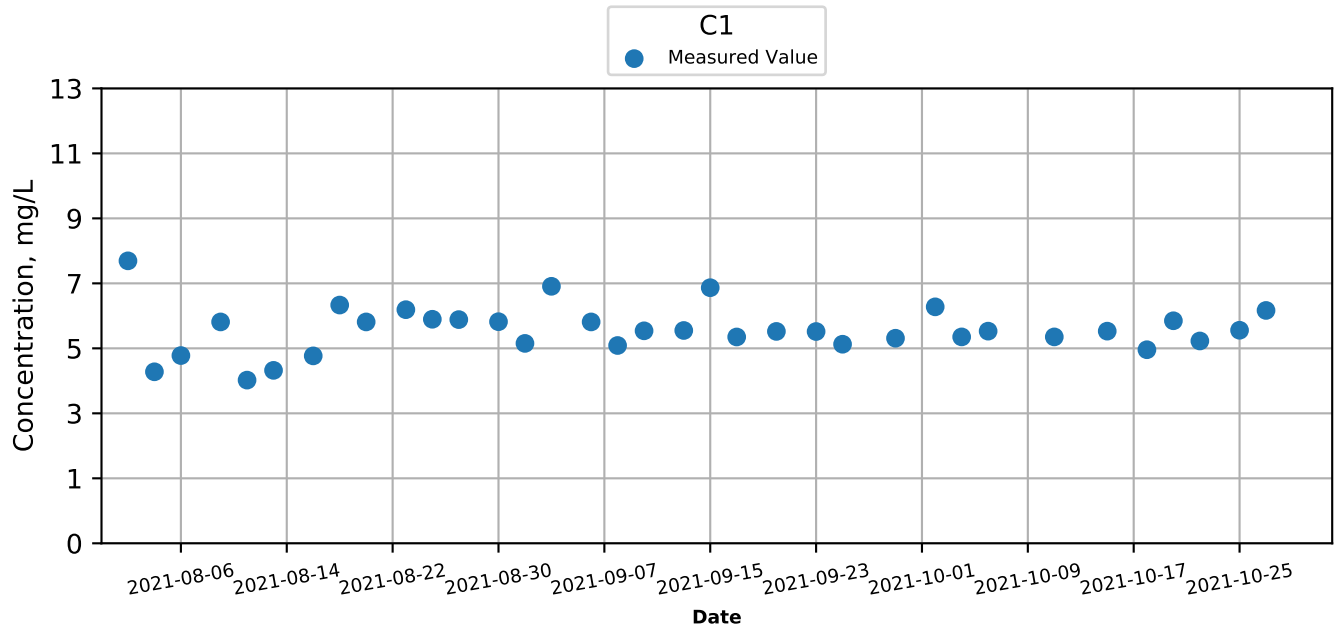
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Ebb



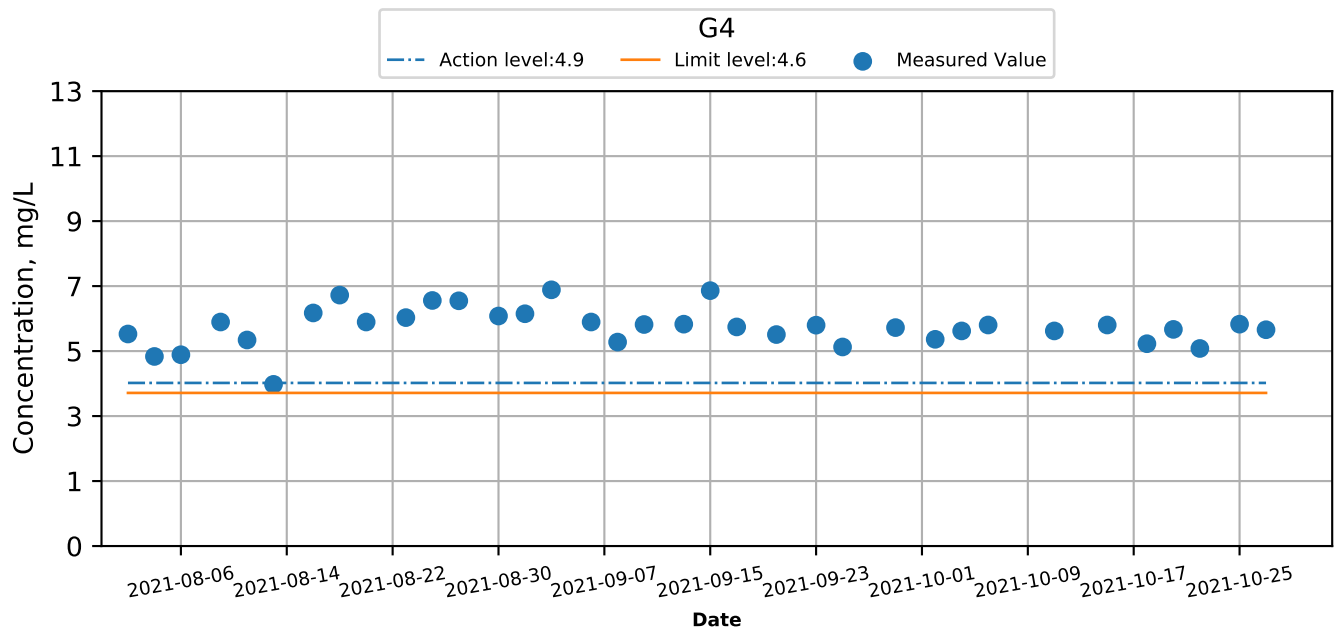
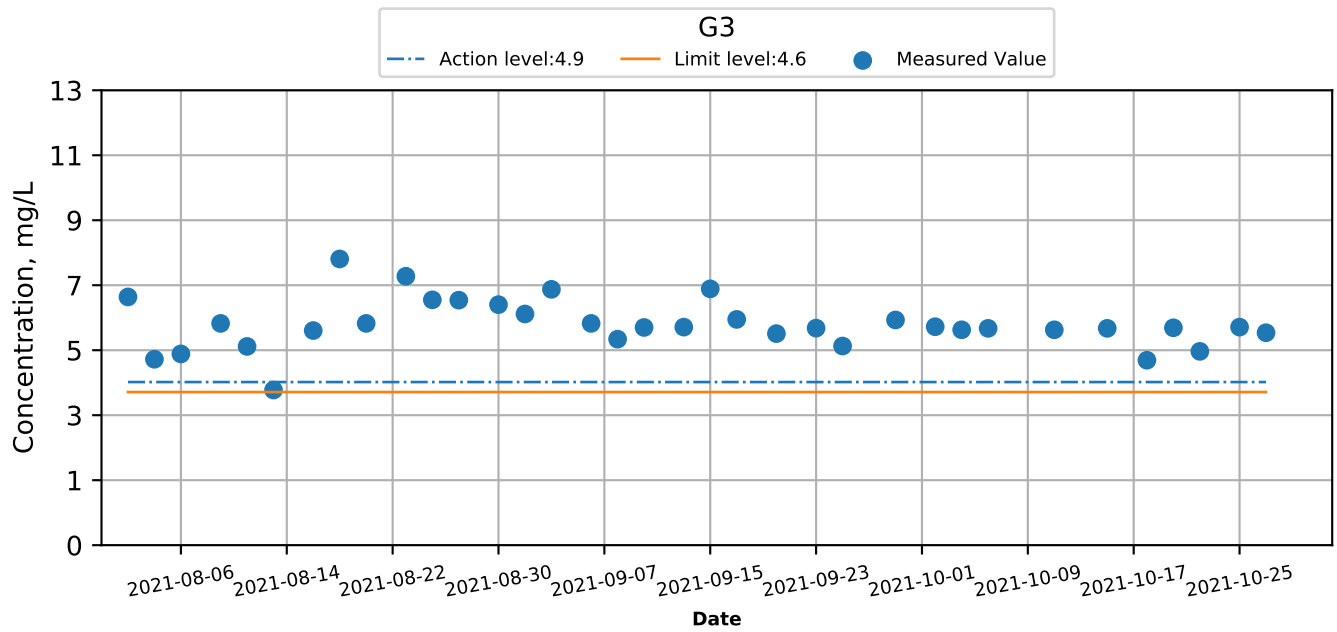
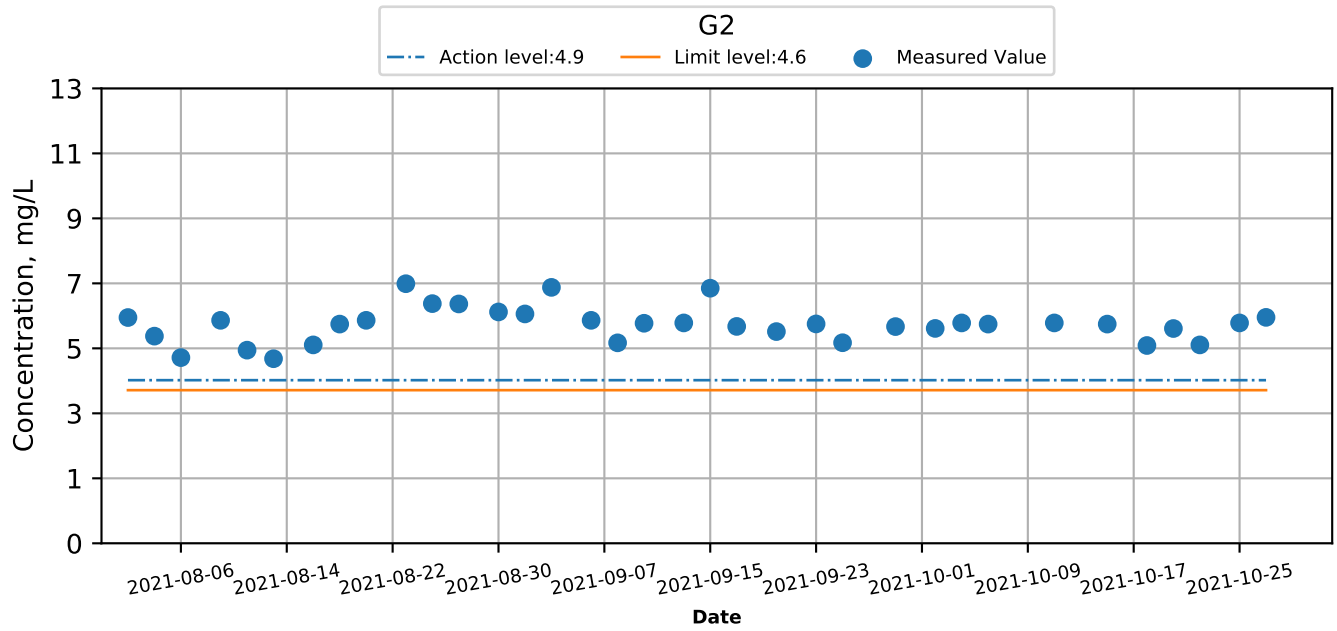
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Flood



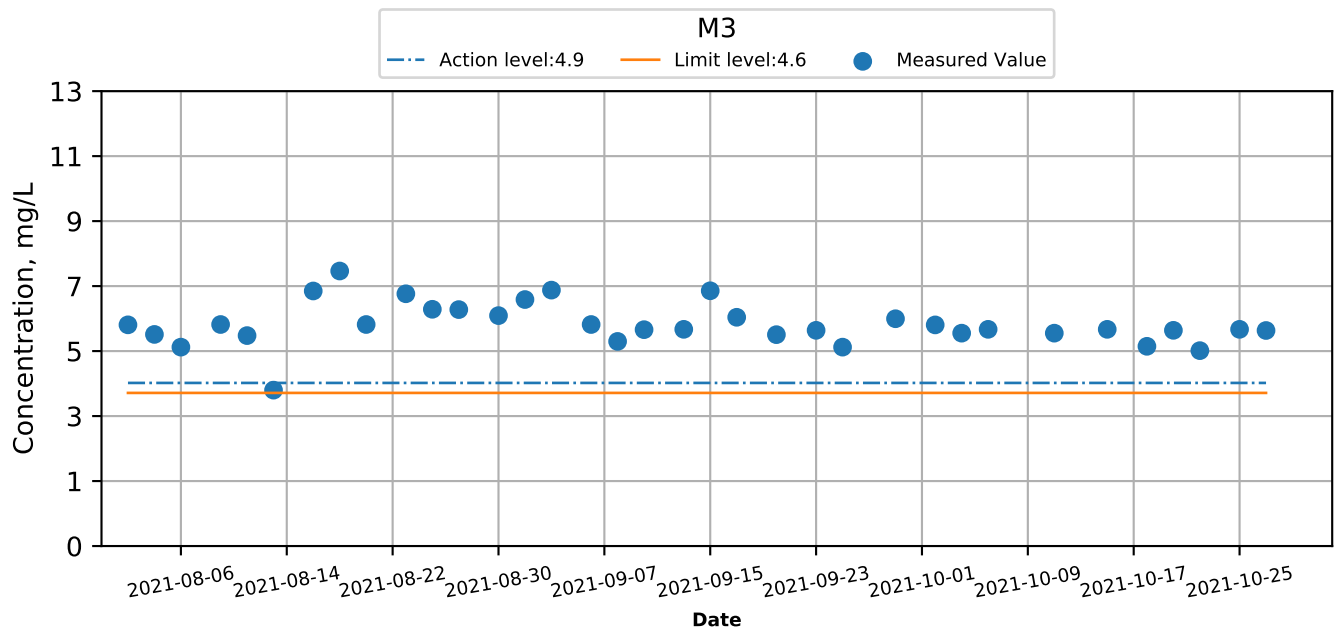
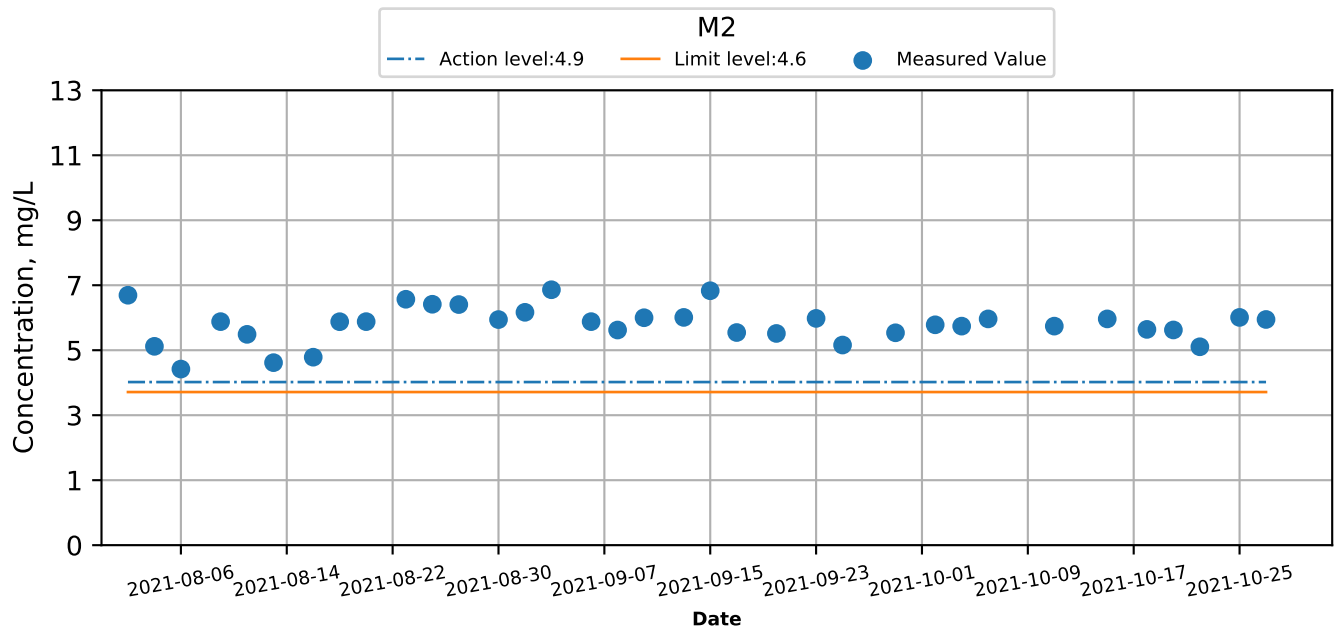
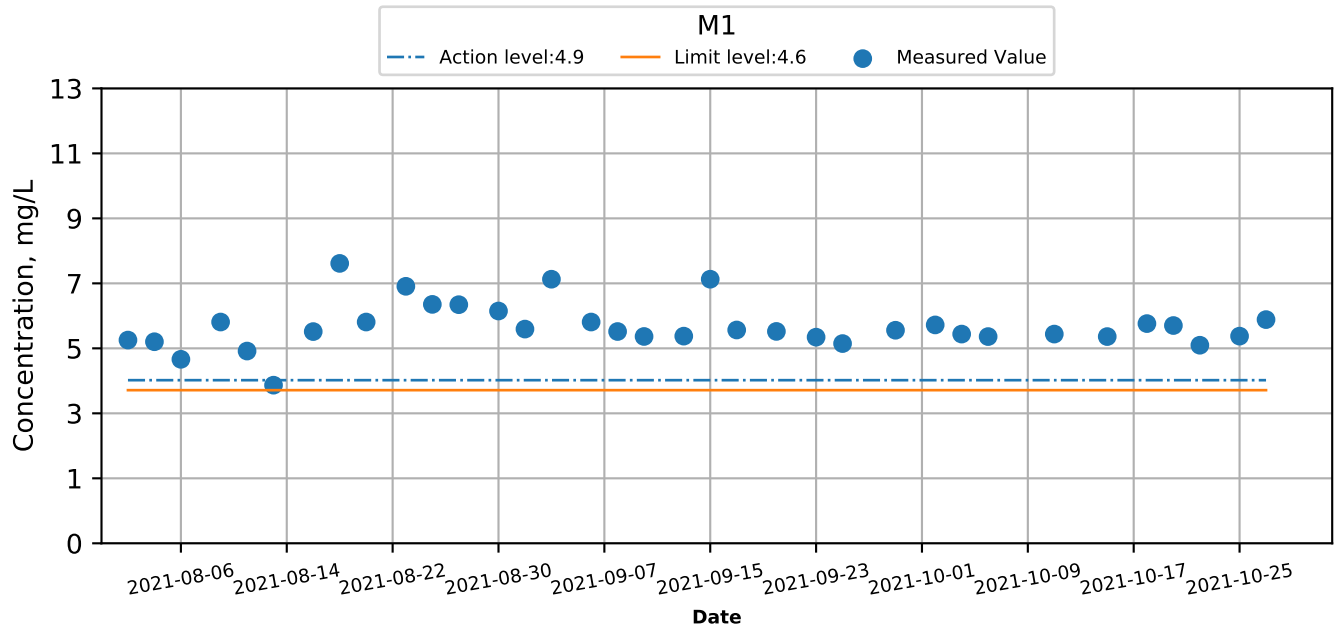
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Flood



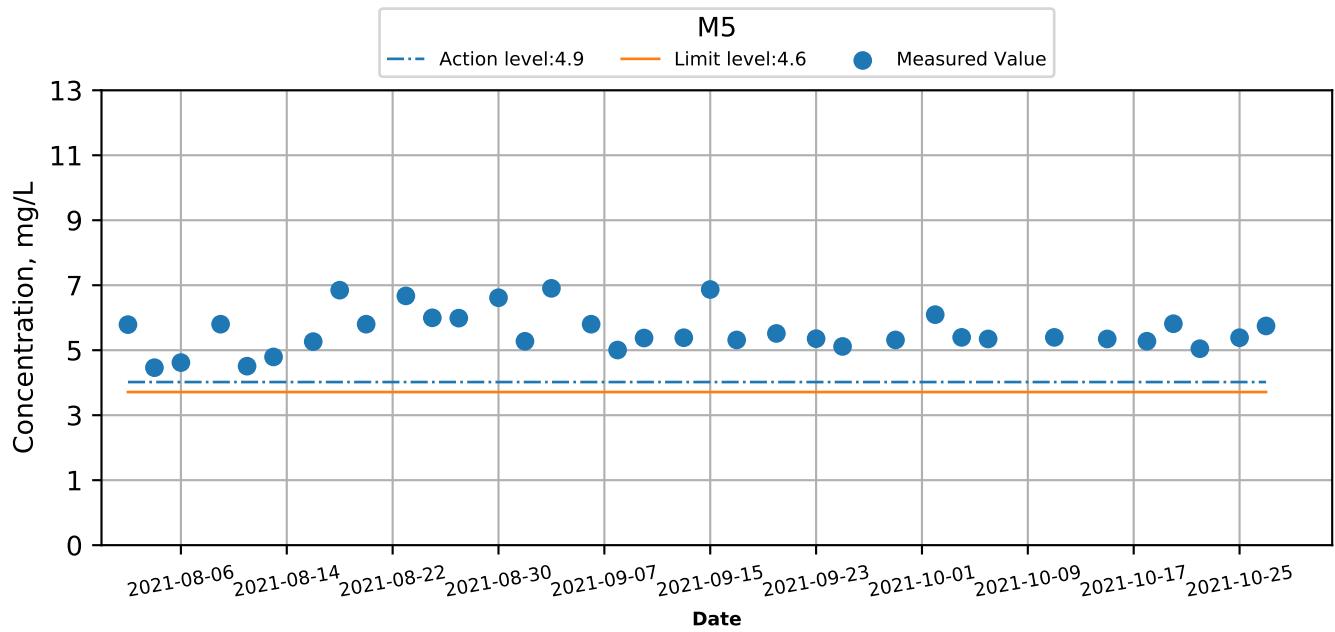
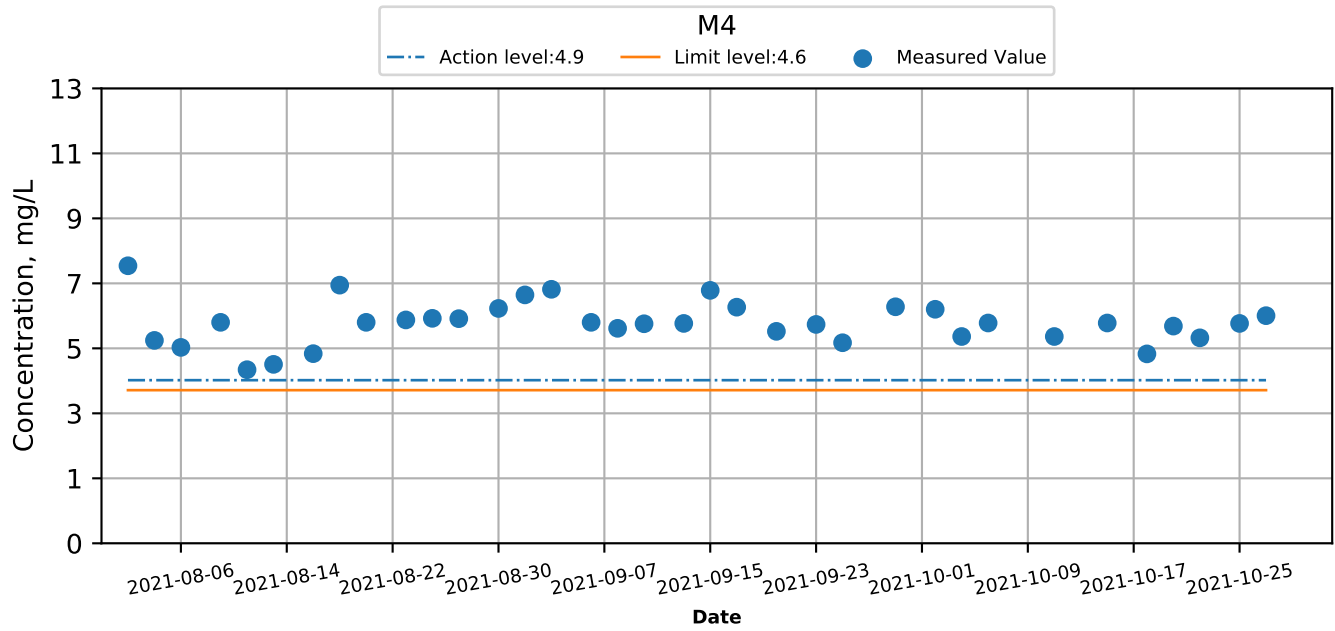
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Flood



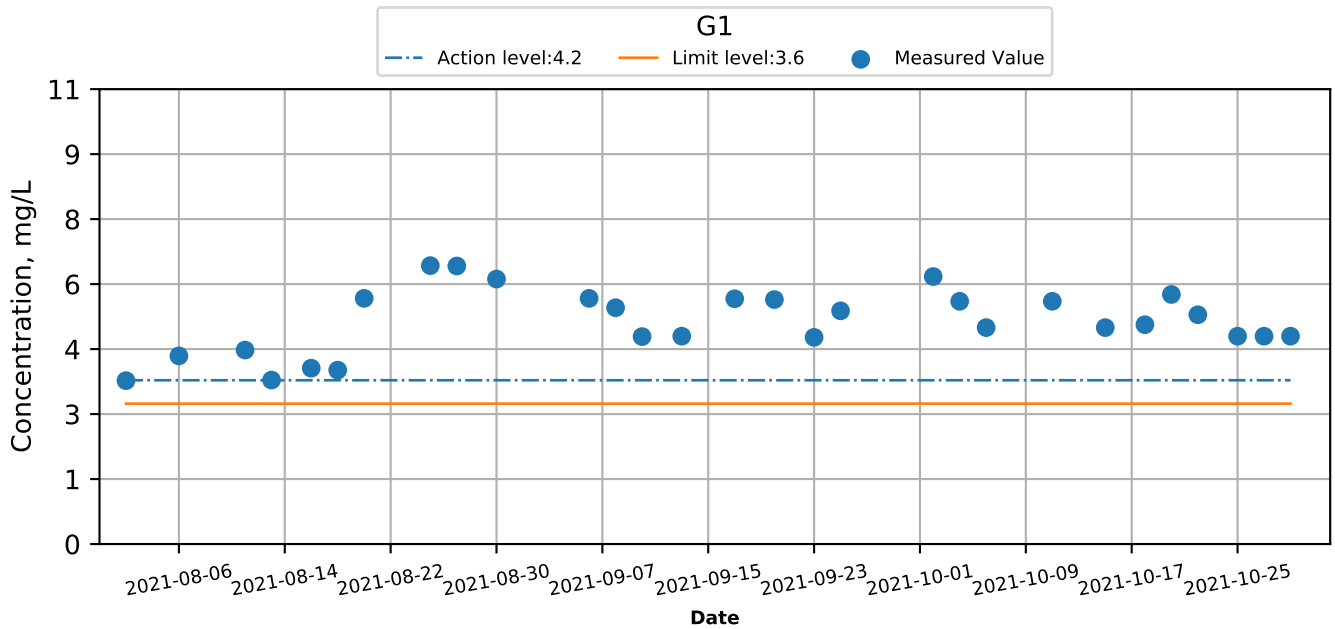
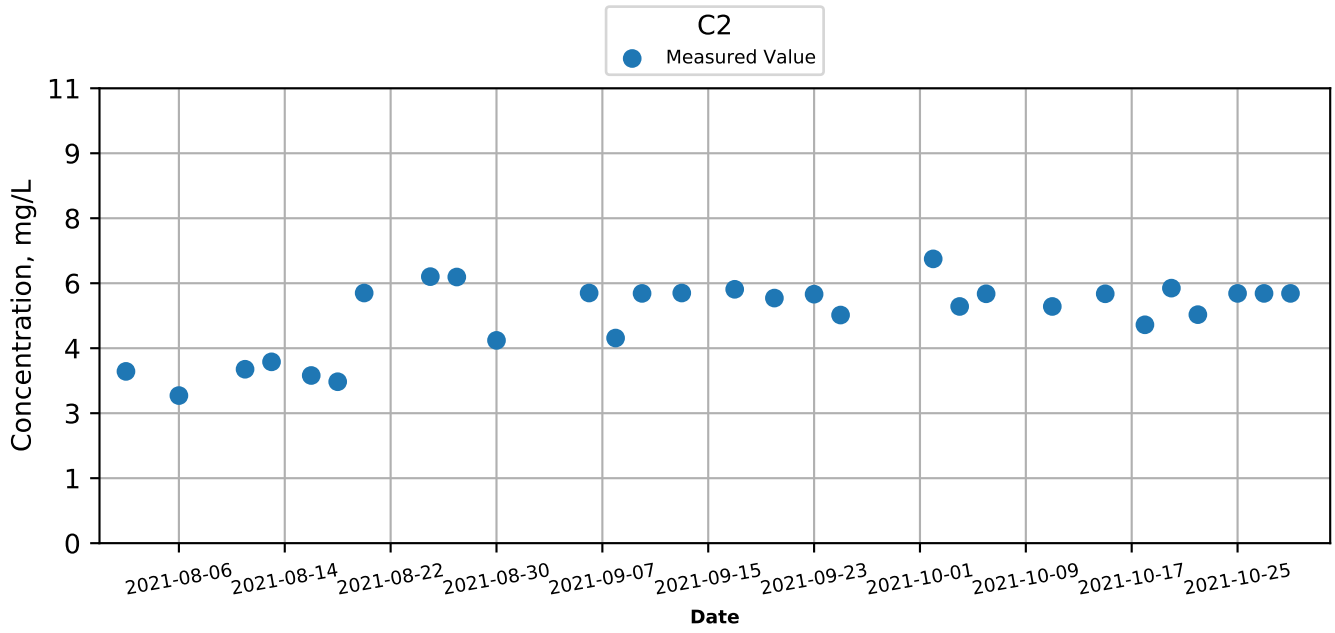
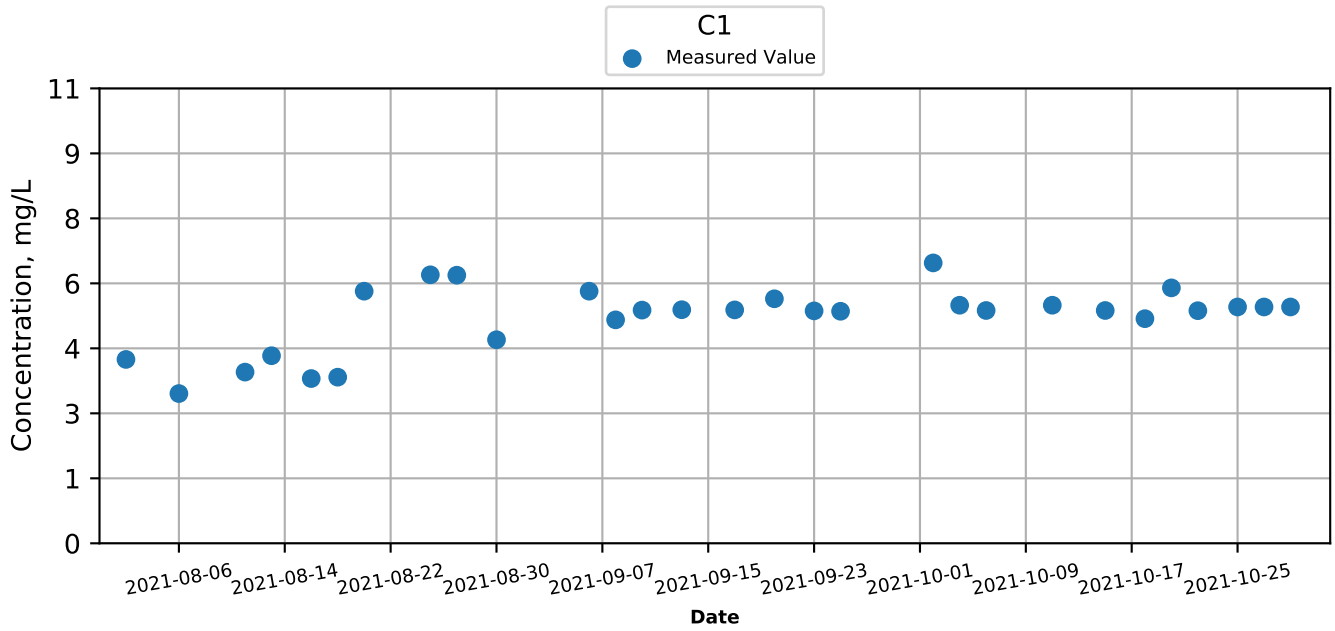
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Depth-Averaged) at Monitoring Stations during Mid-Flood



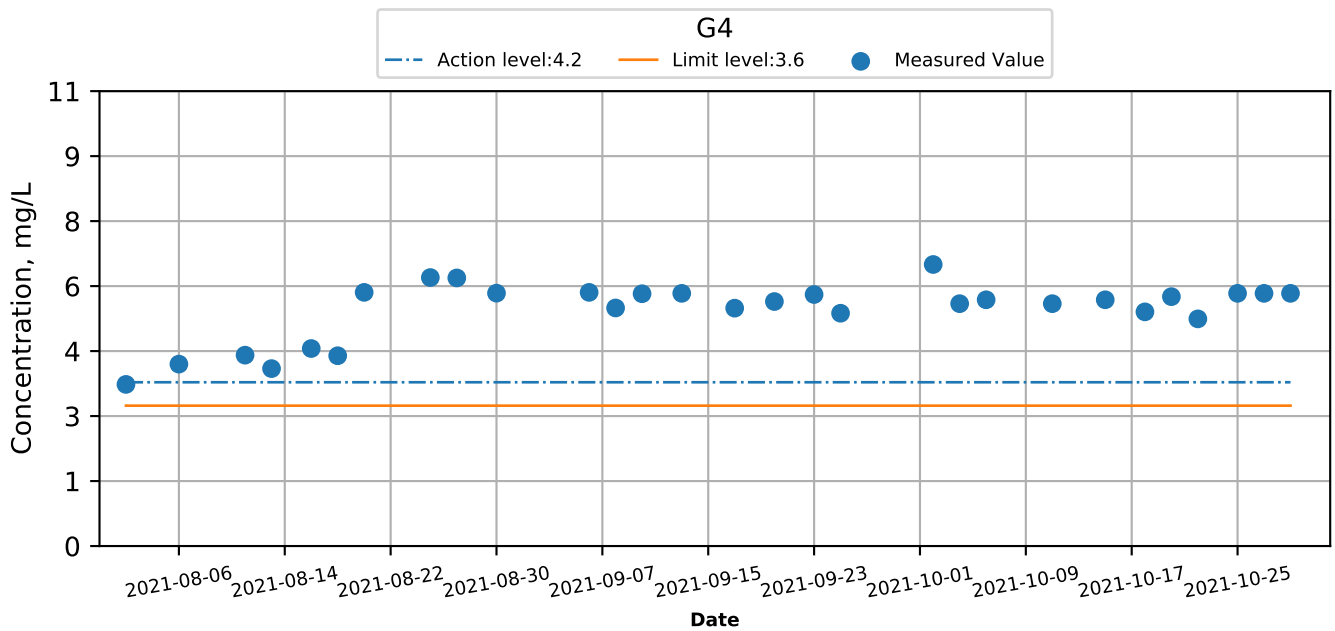
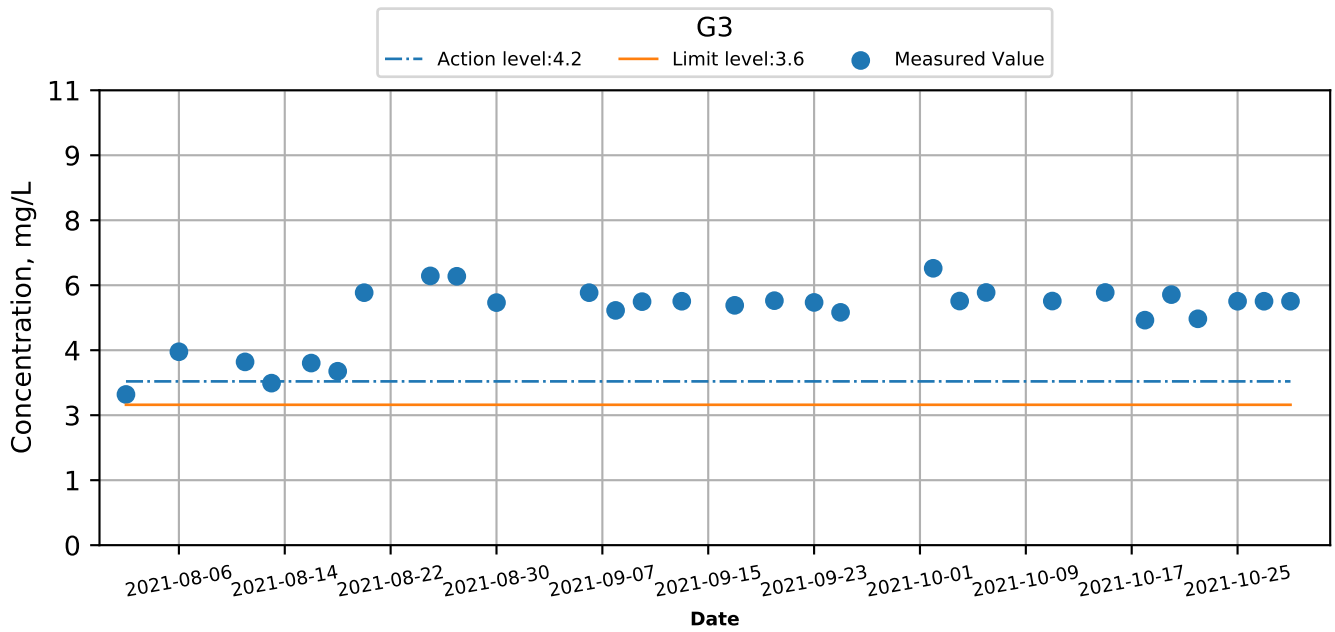
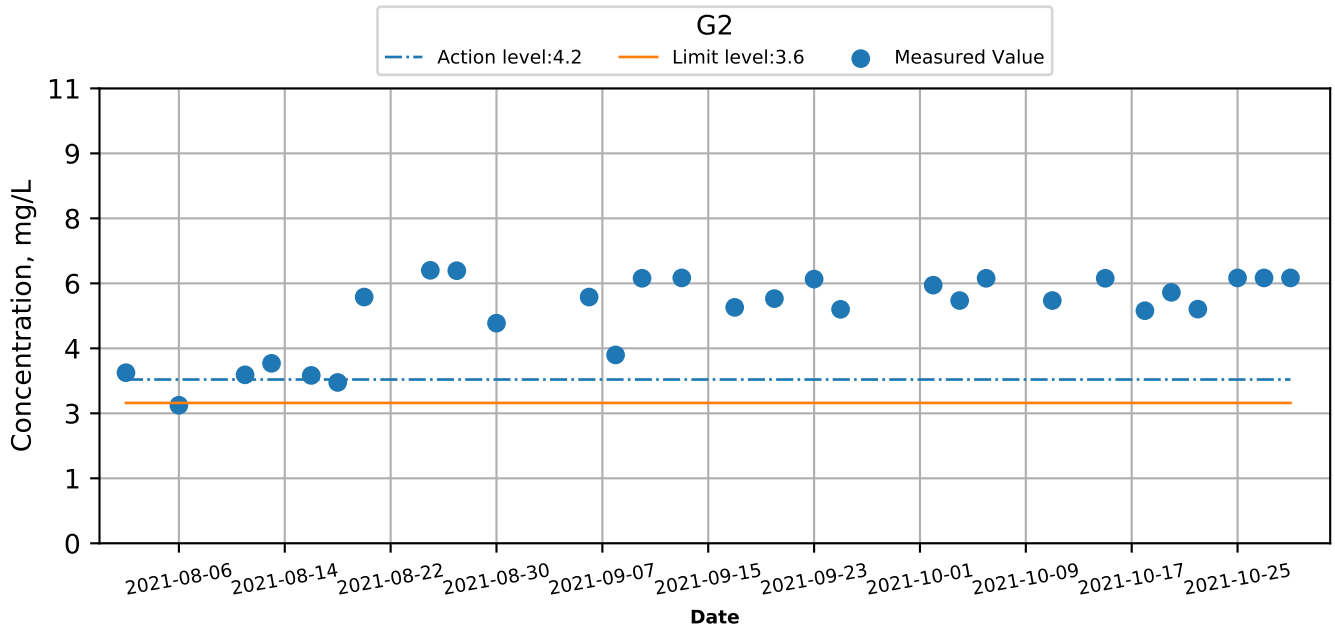
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Ebb



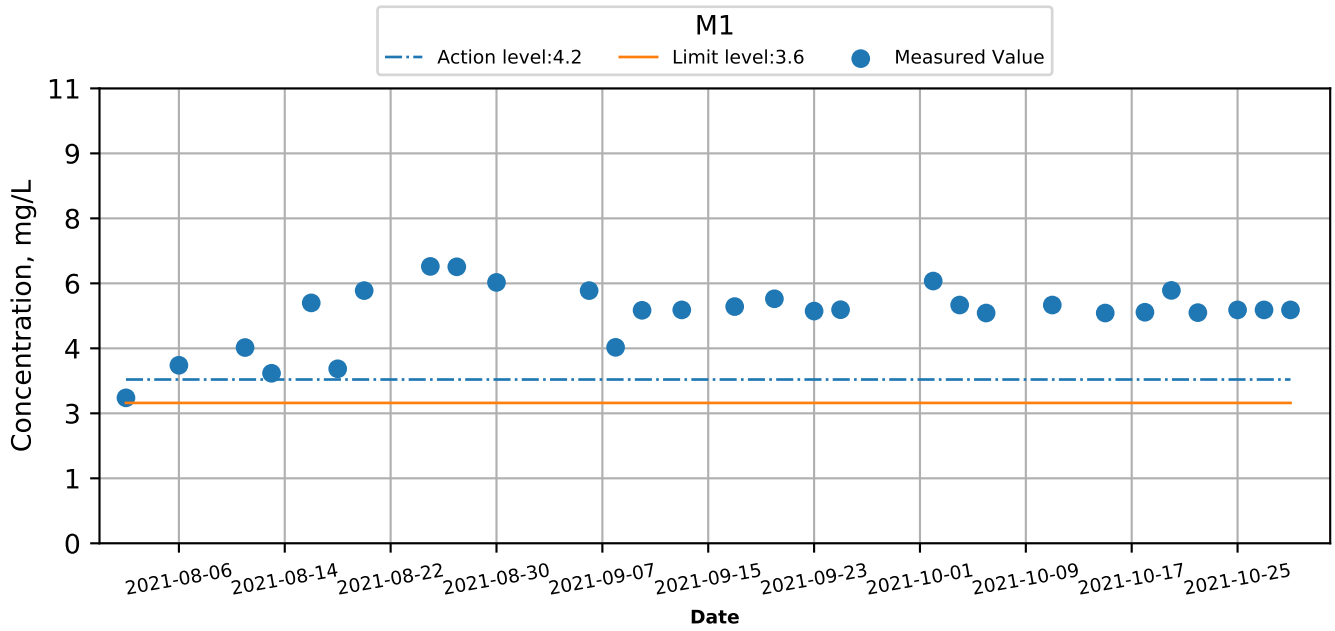
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Ebb



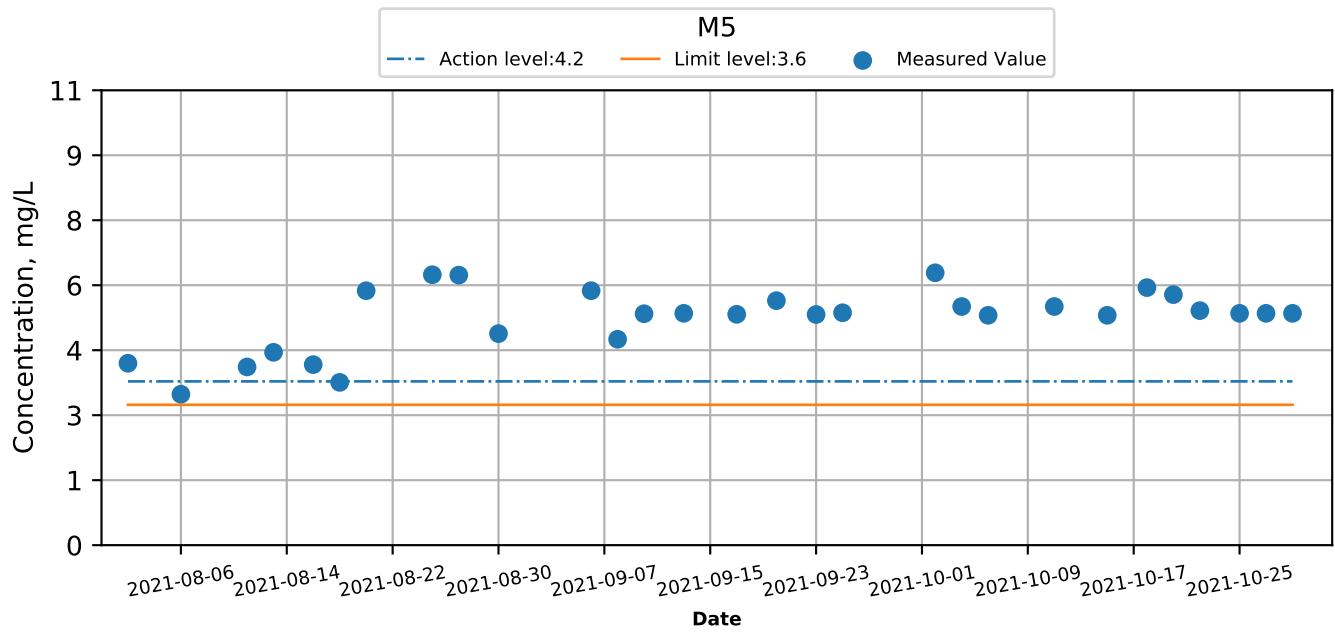
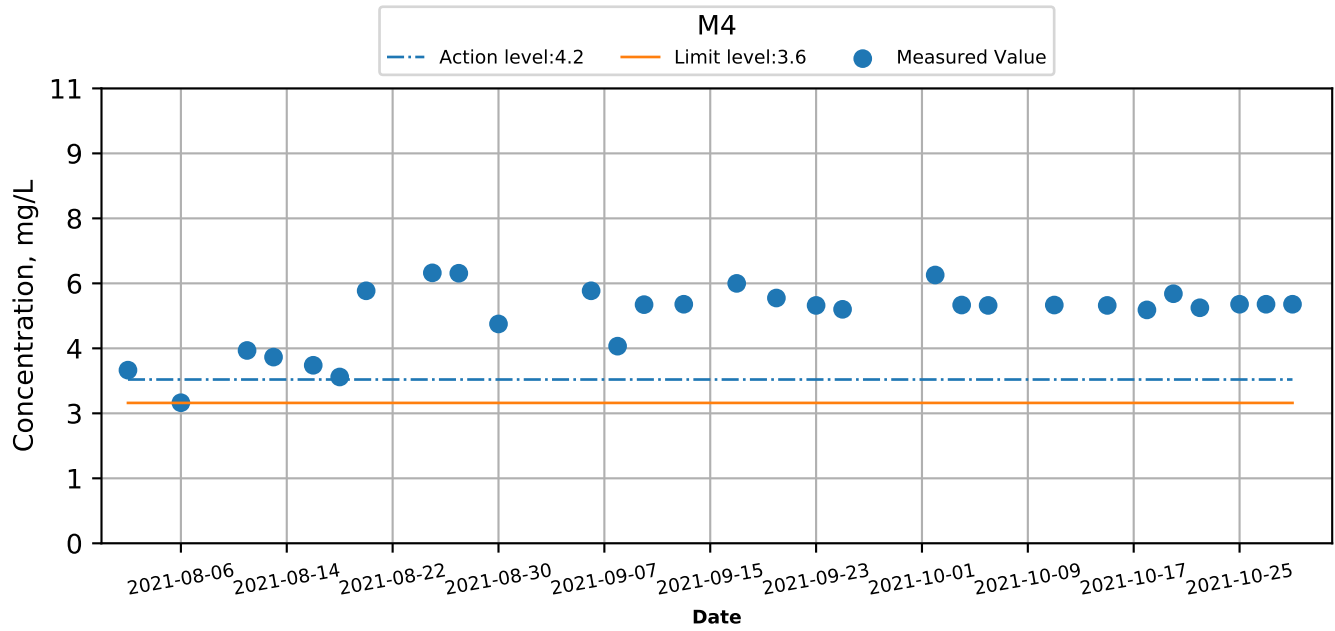
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Ebb



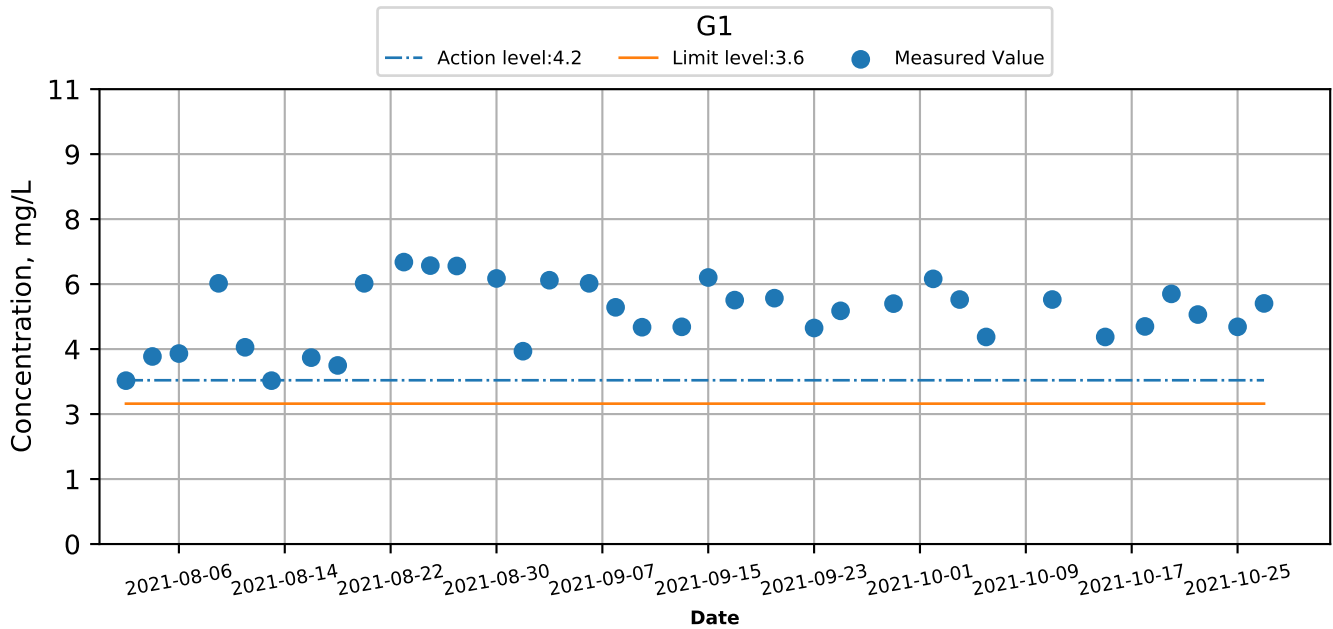
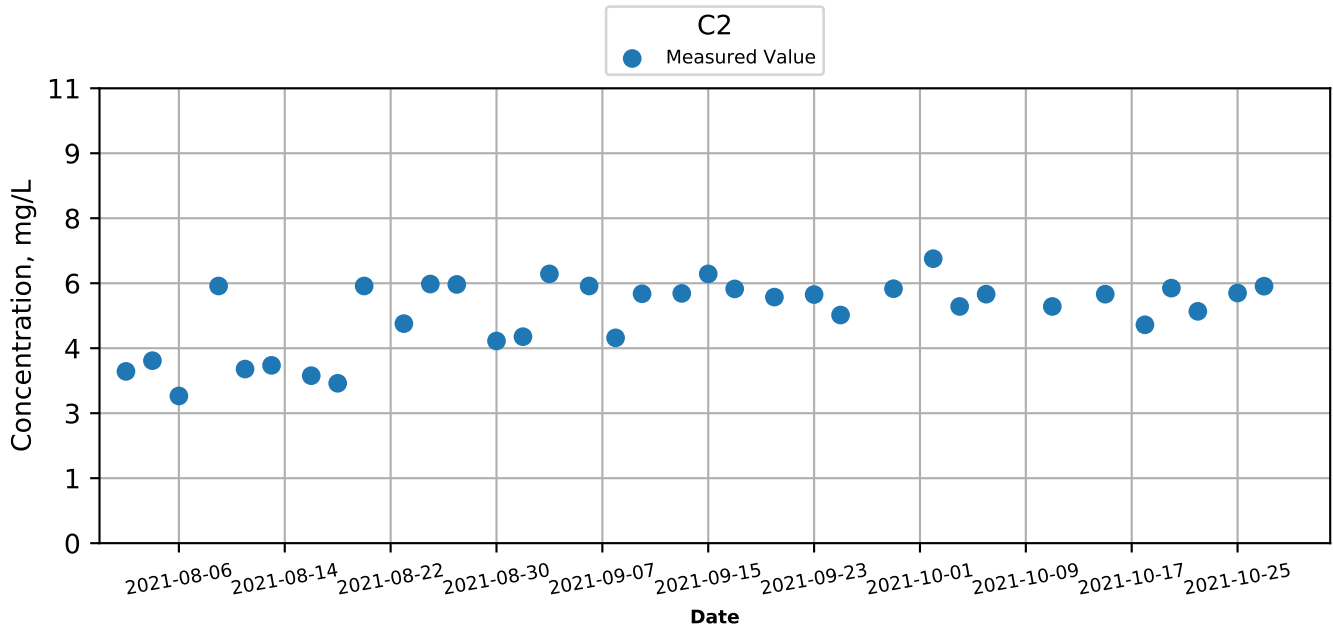
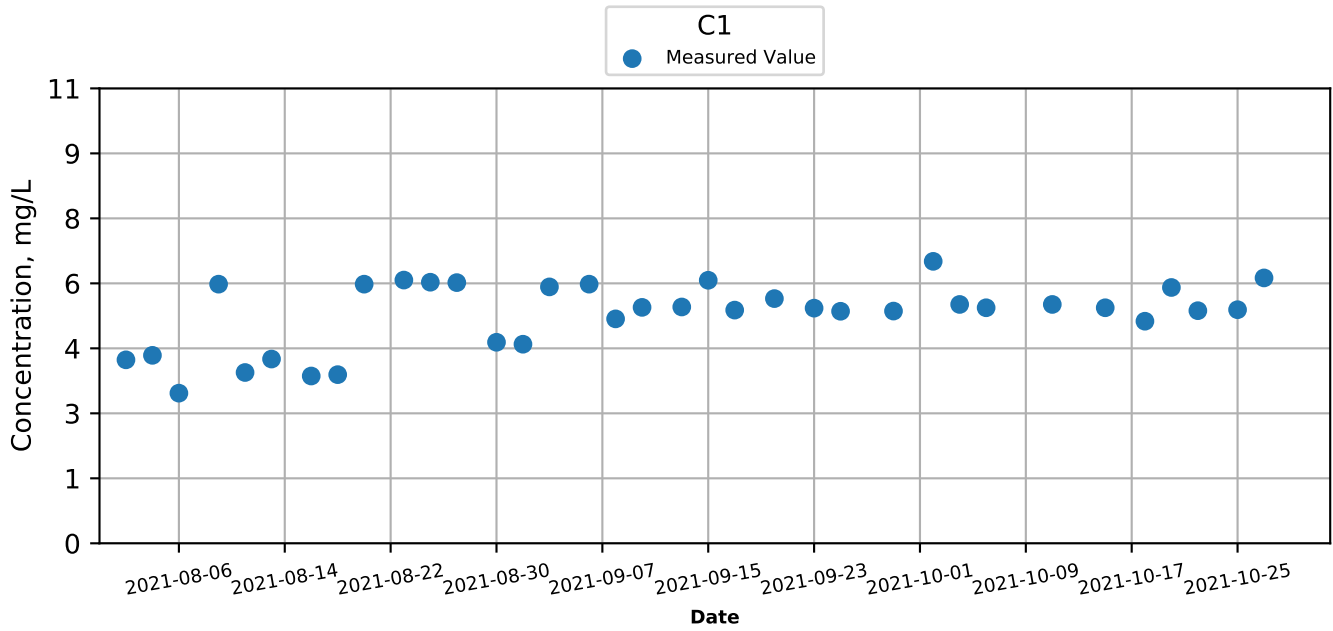
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Ebb



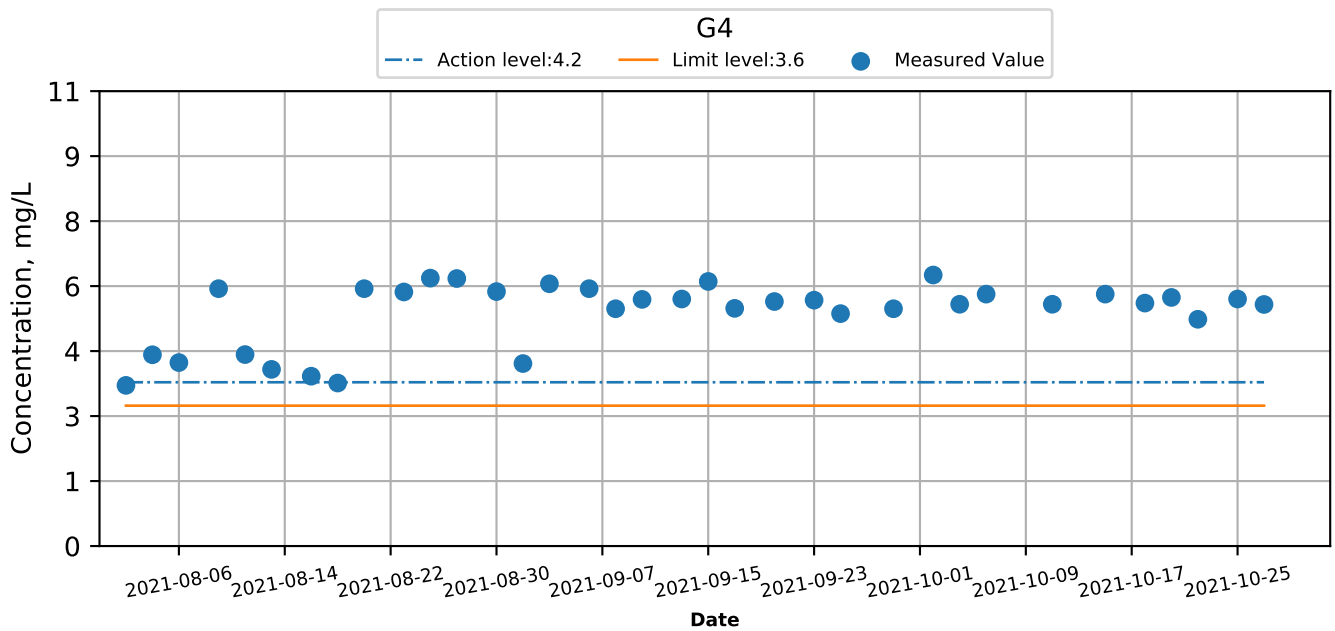
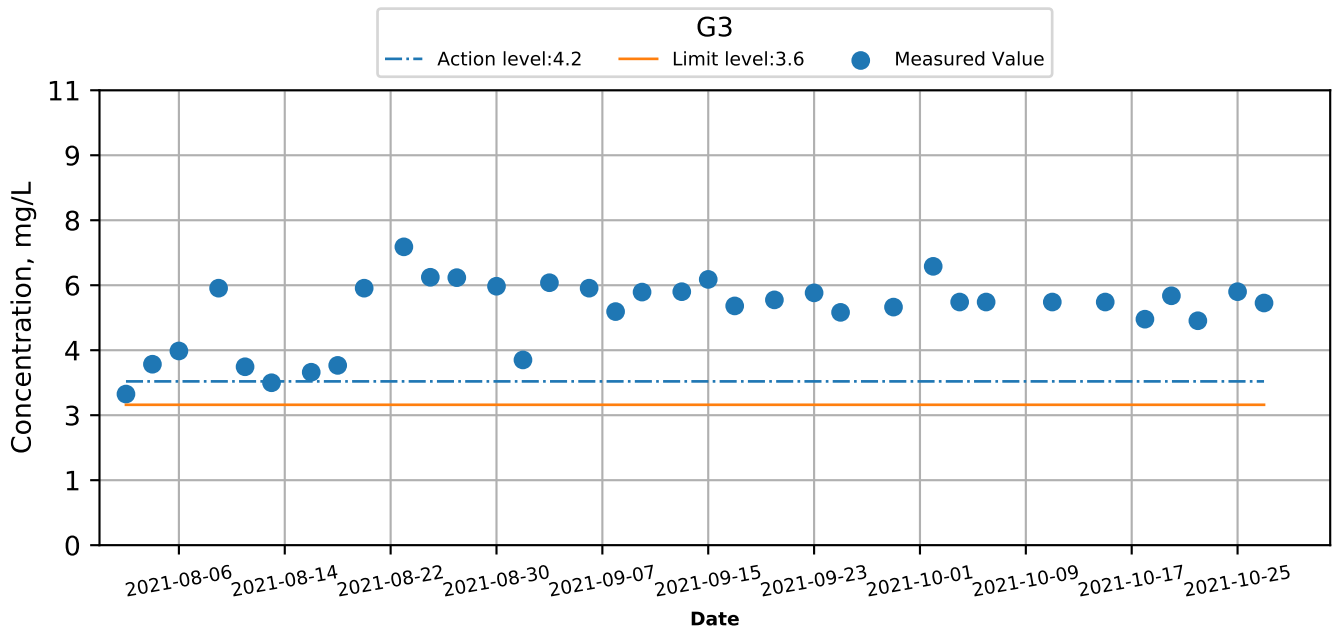
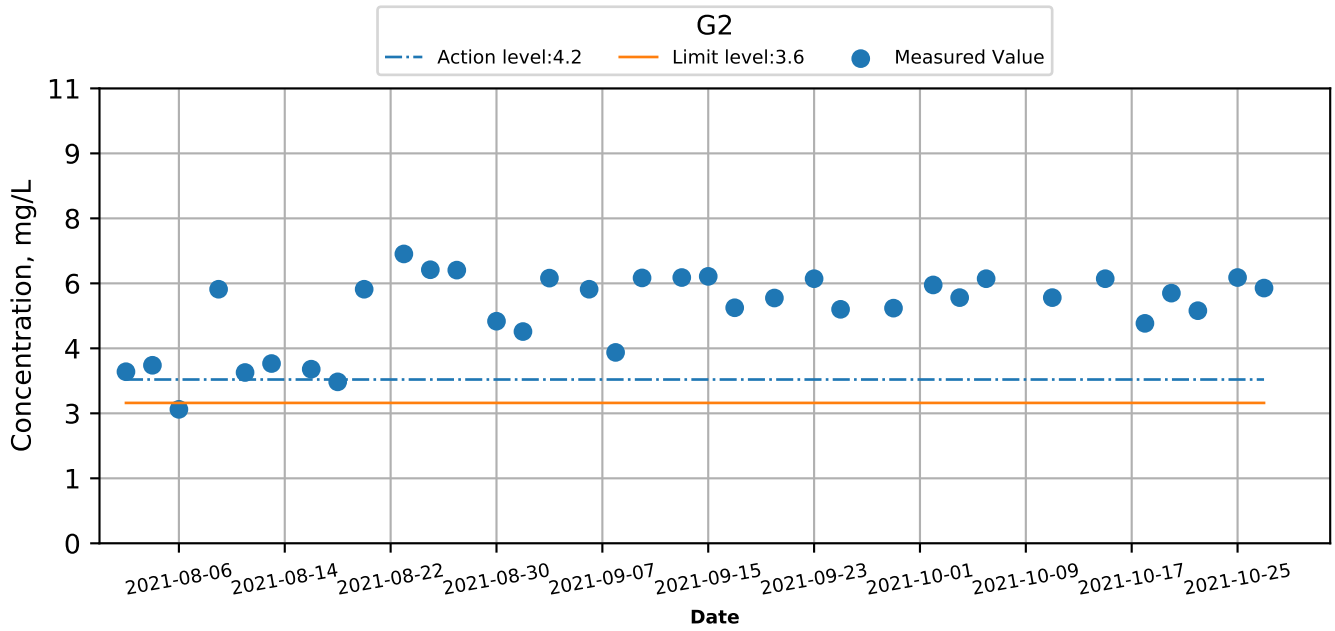
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Flood



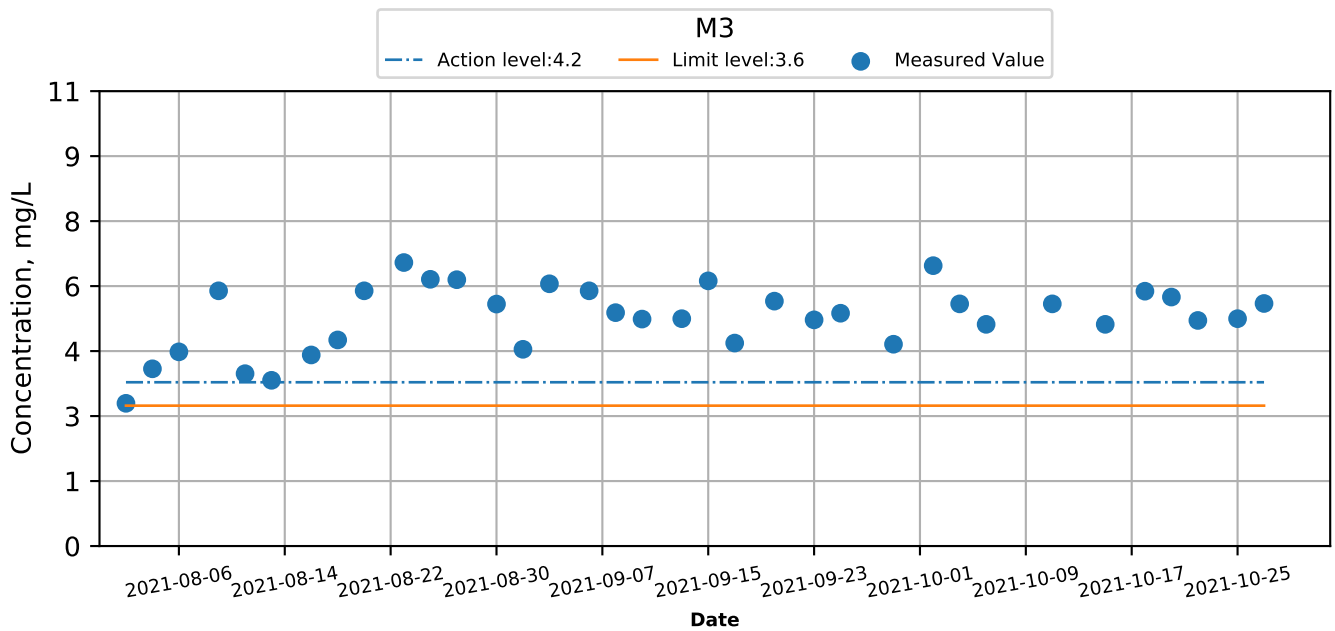
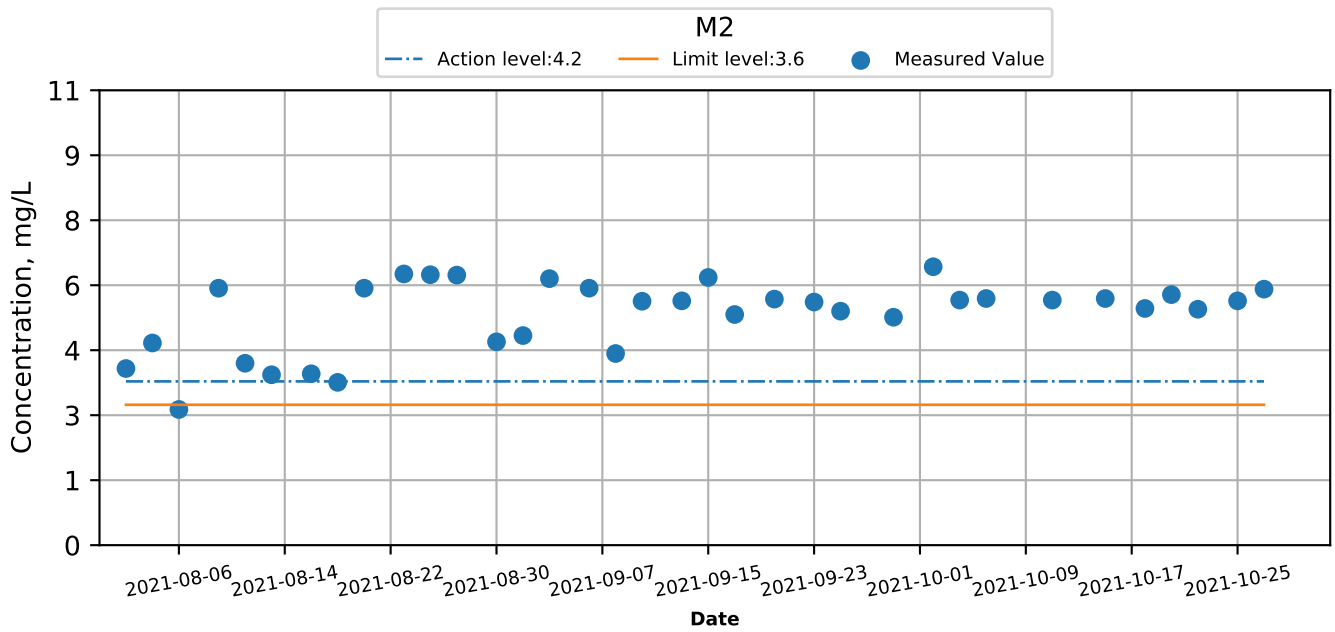
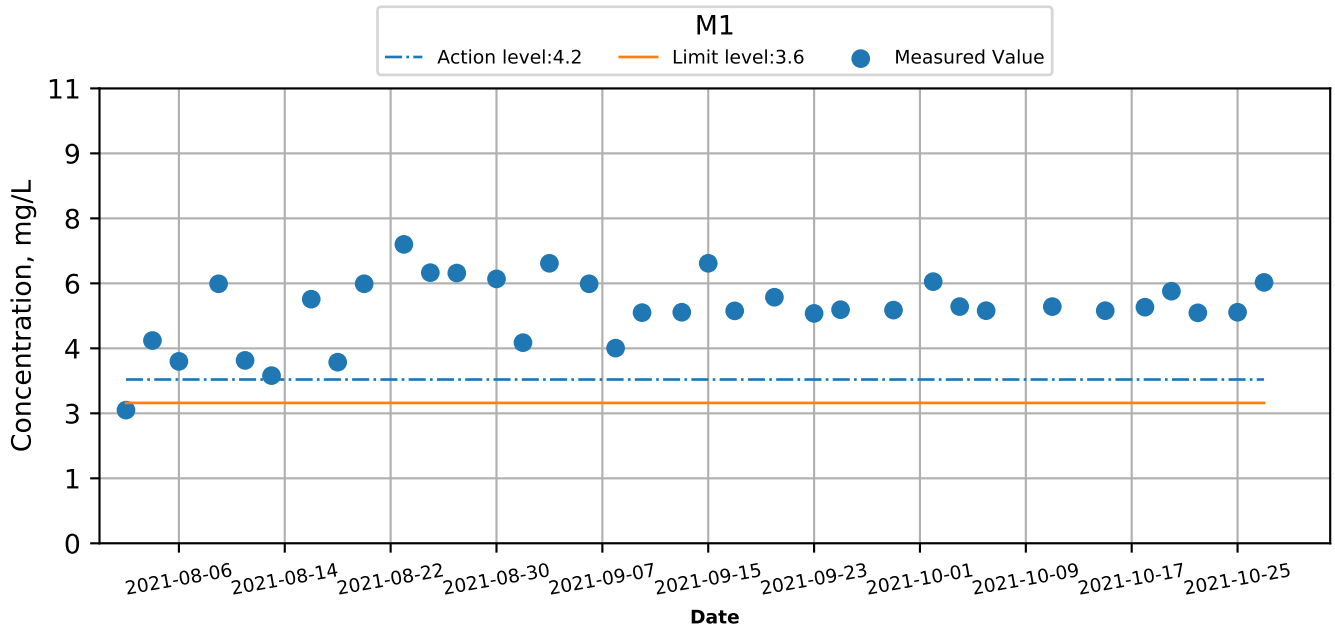
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Flood



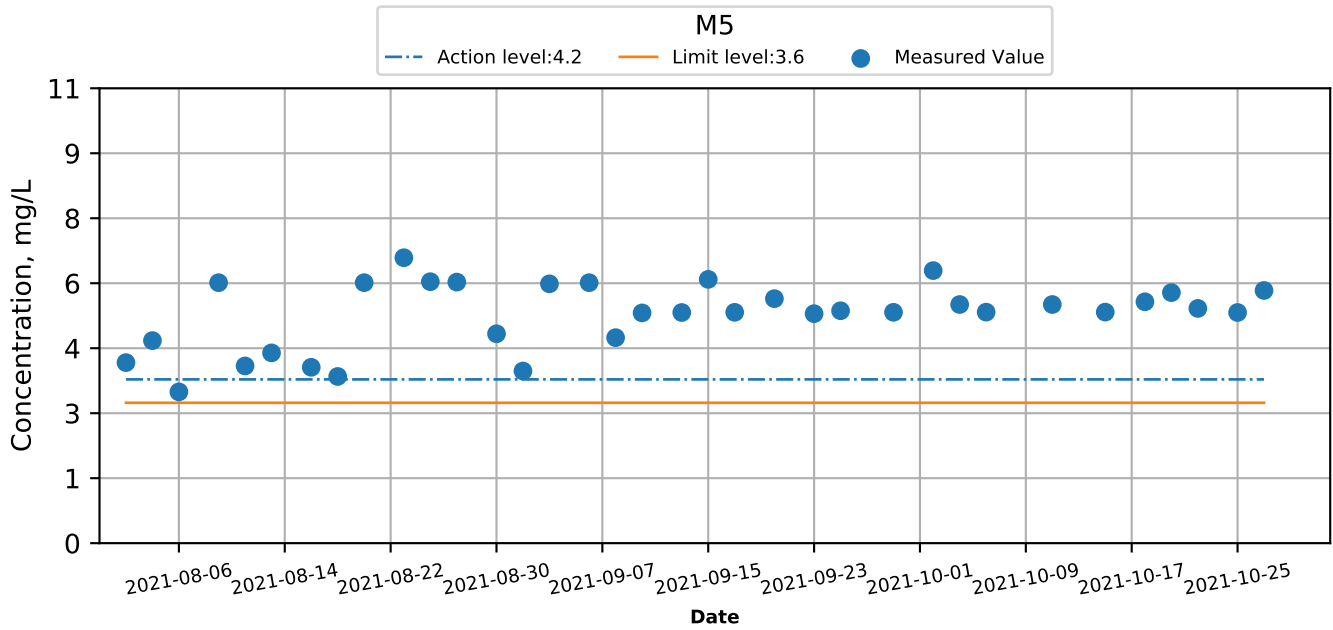
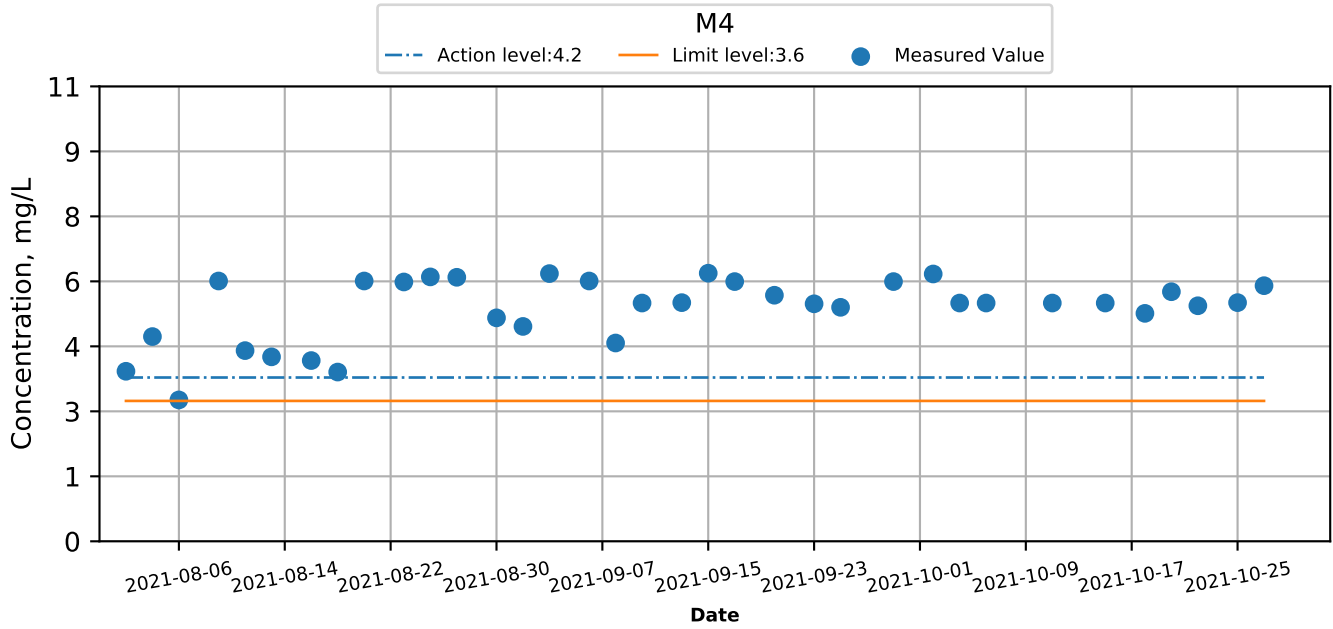
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Flood



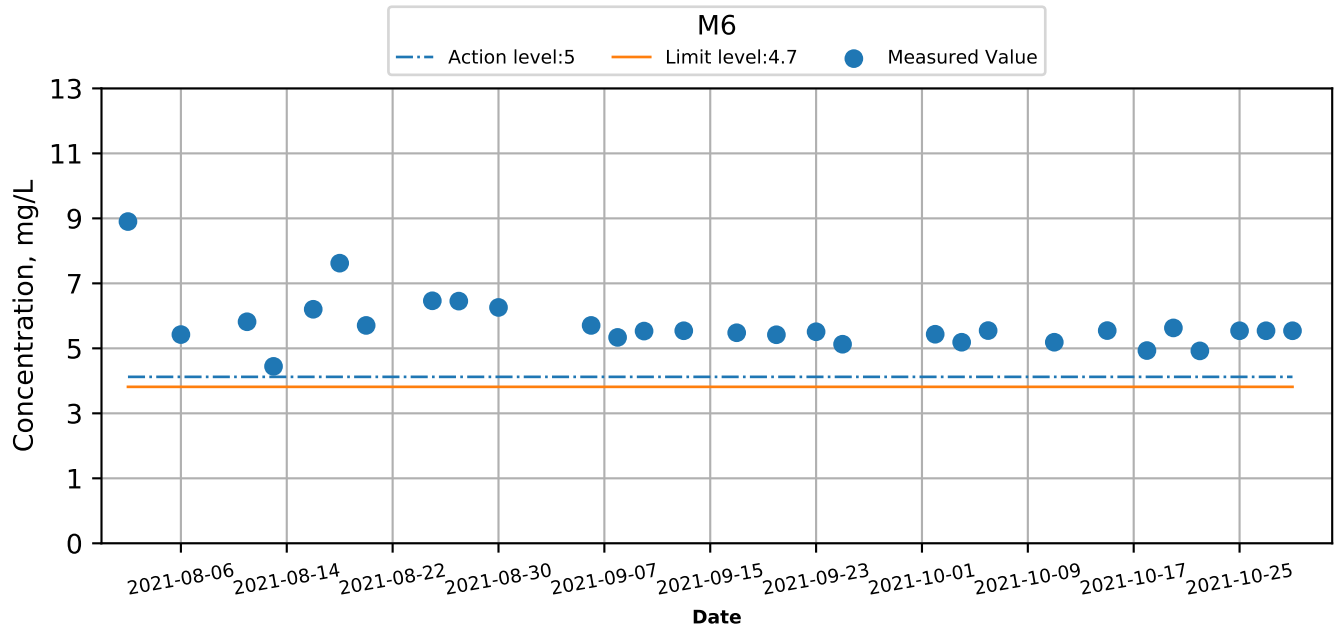
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Flood



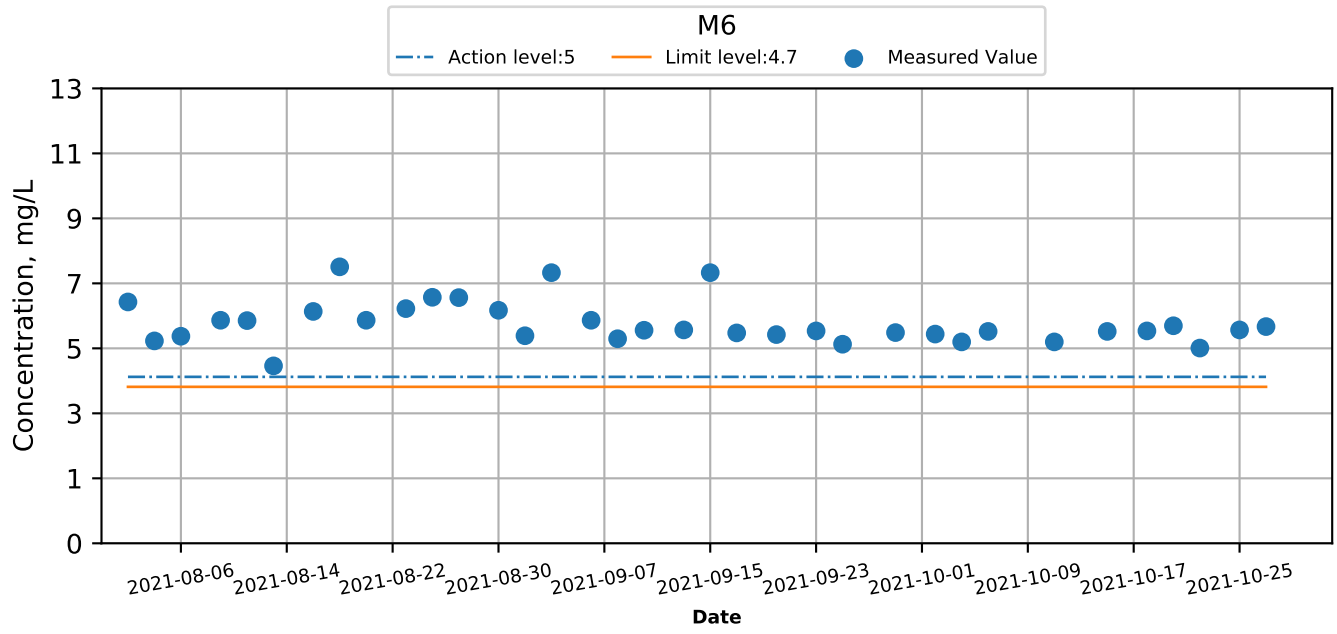
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Intake level) at Monitoring Stations during Mid-Ebb



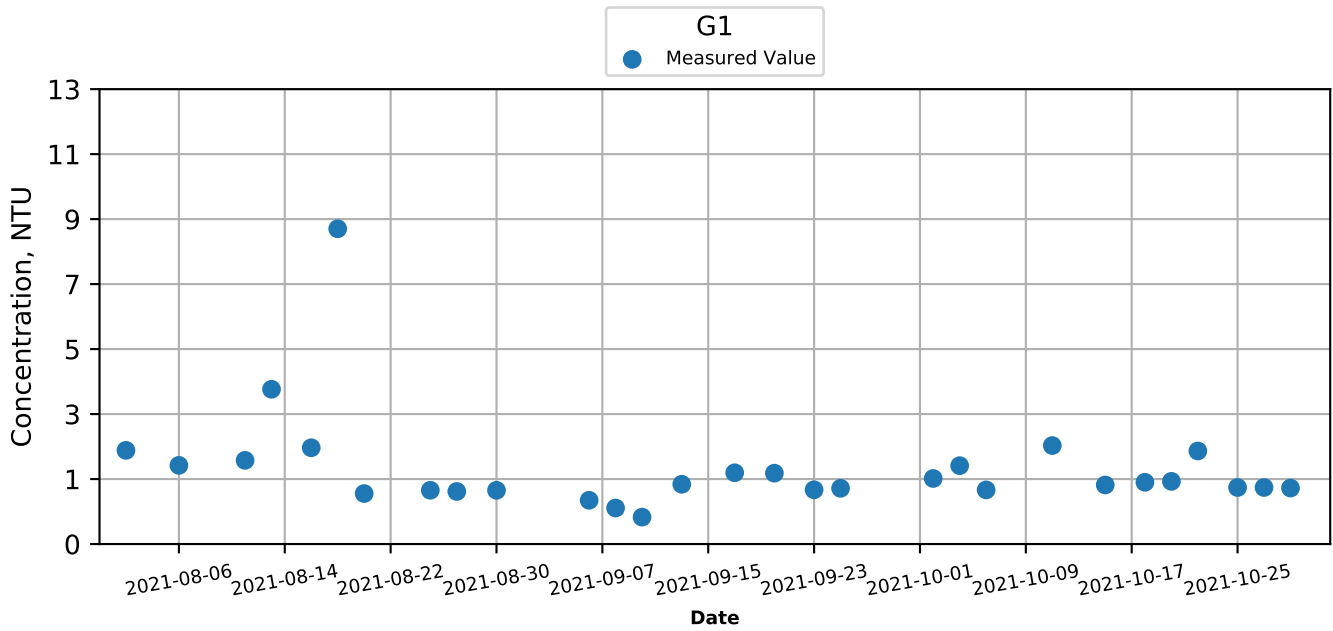
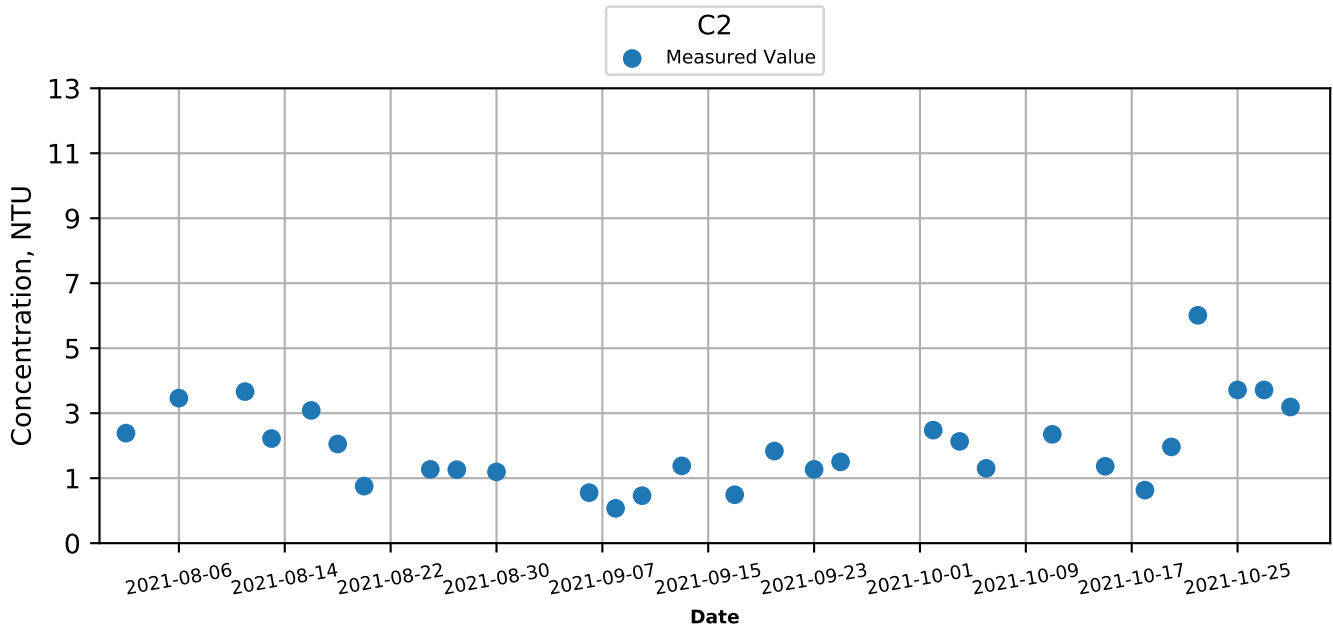
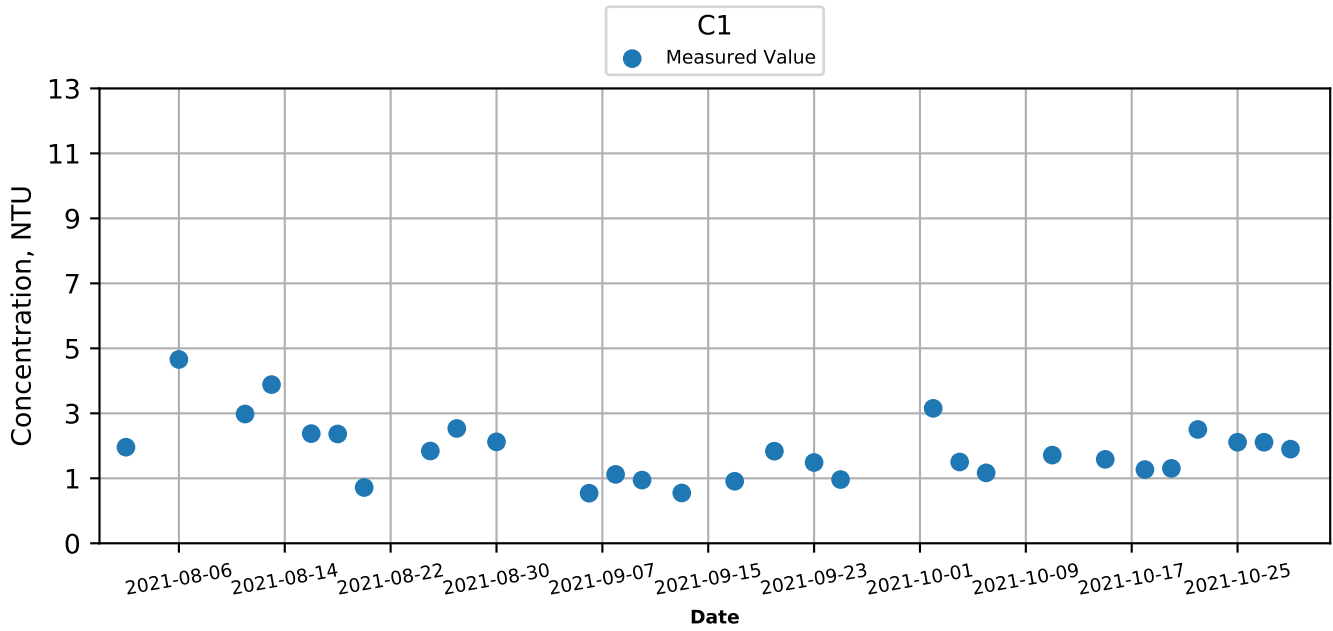
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Dissolved Oxygen (Intake level) at Monitoring Stations during Mid-Flood



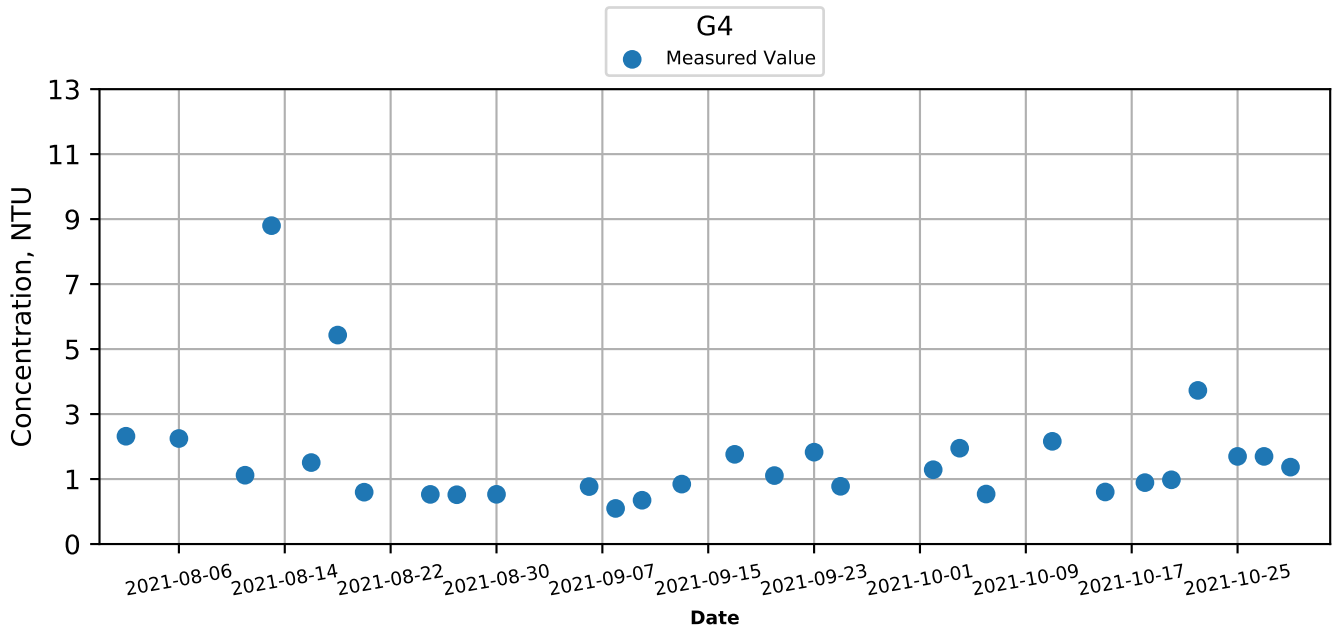
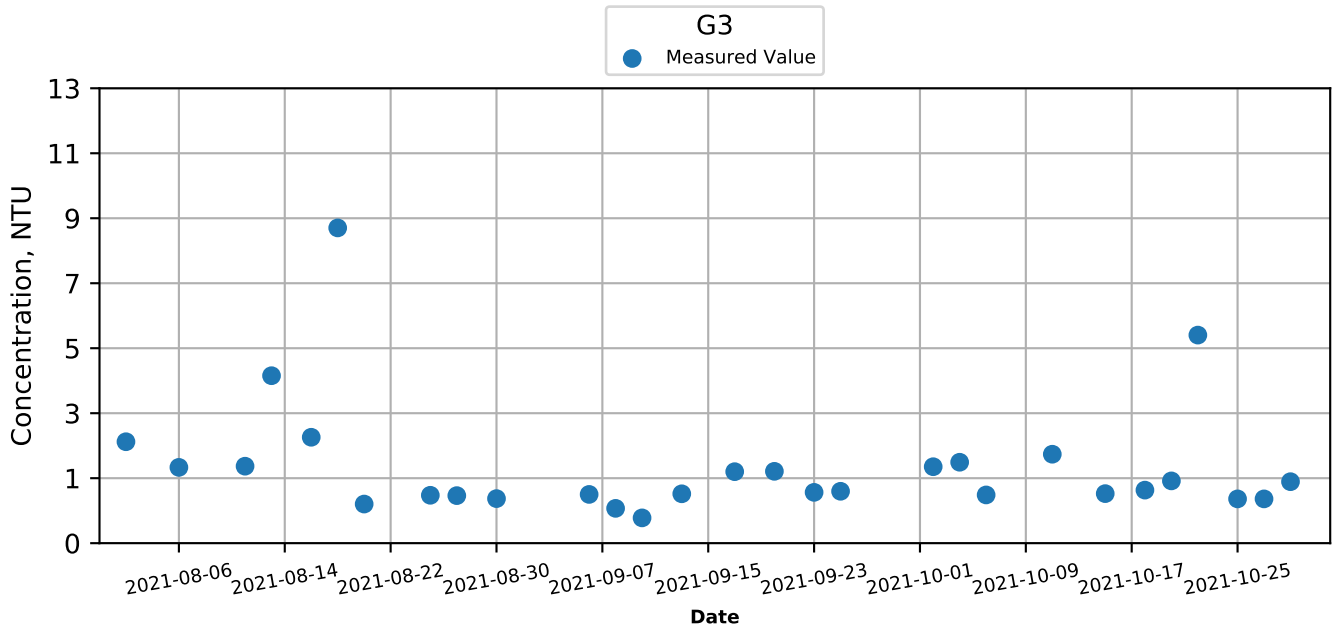
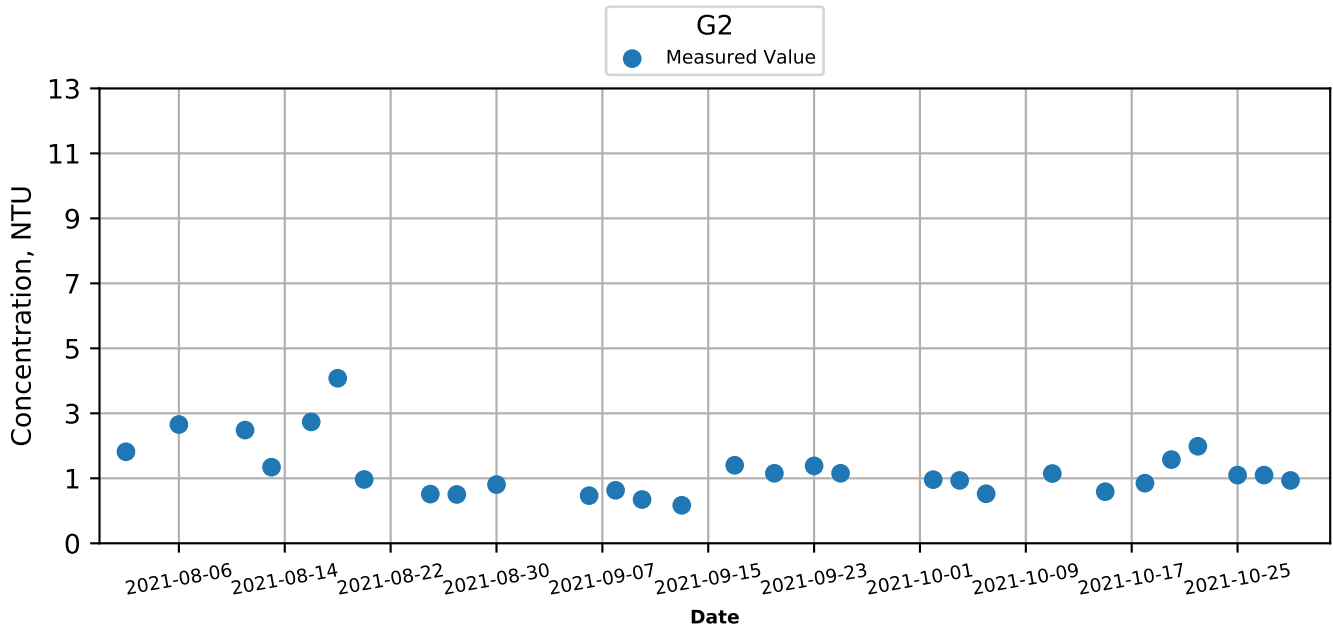
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Ebb



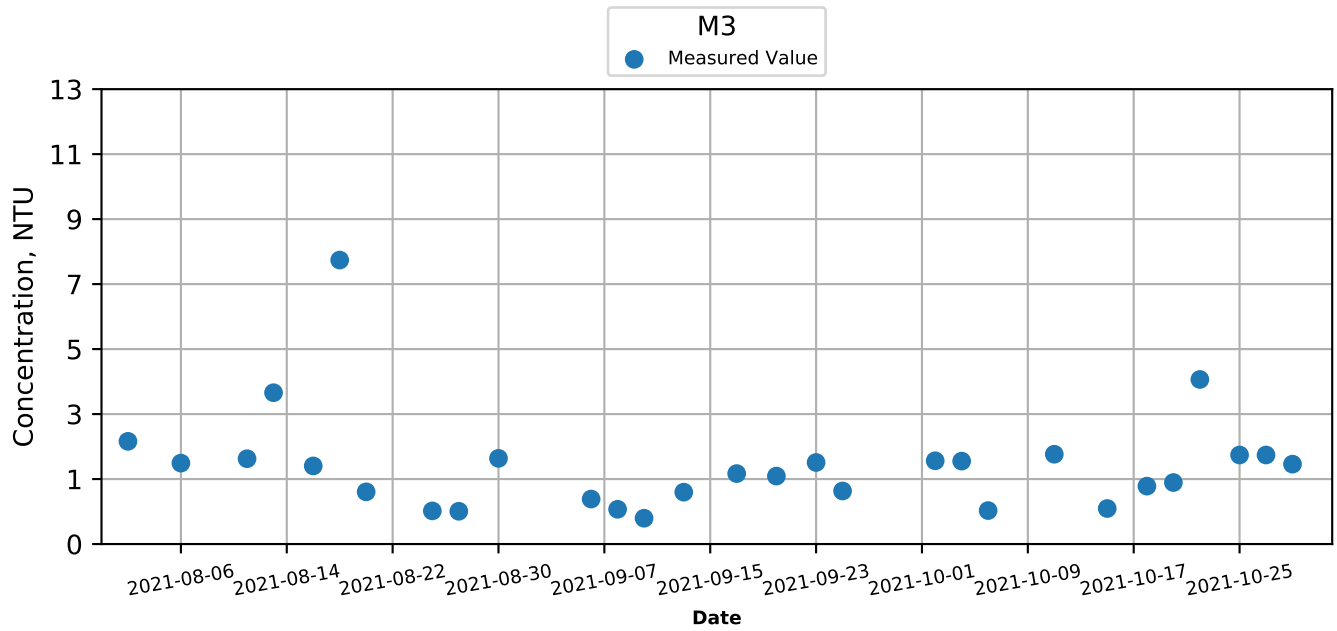
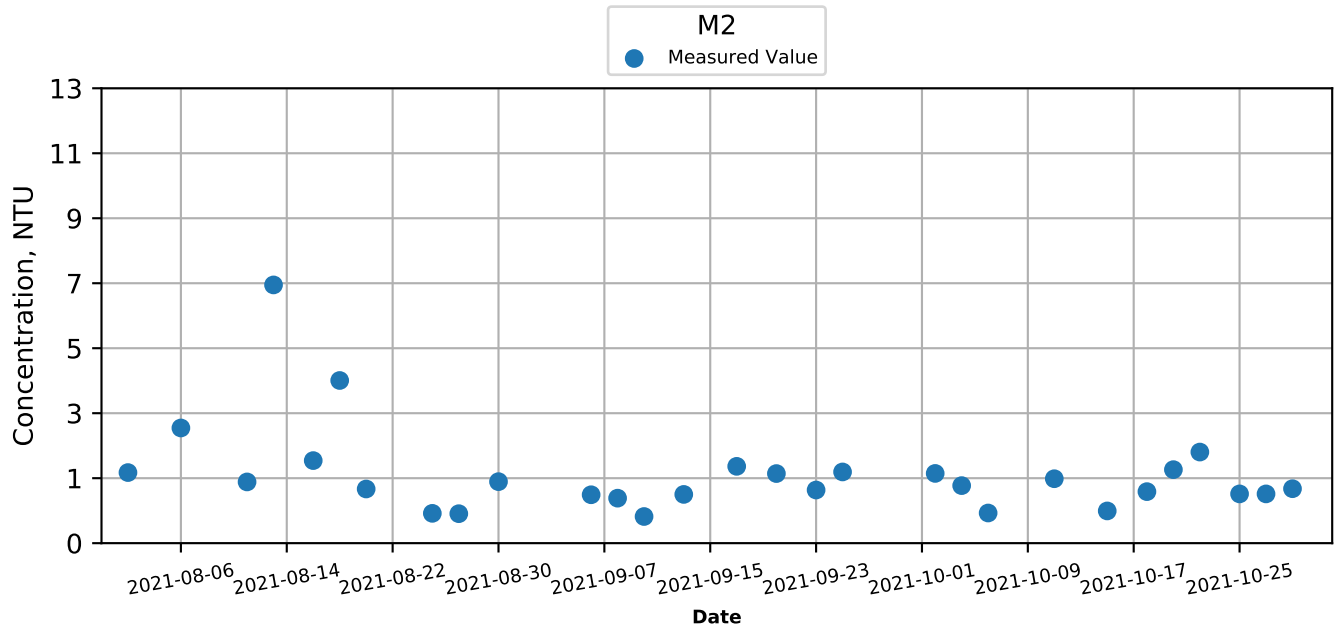
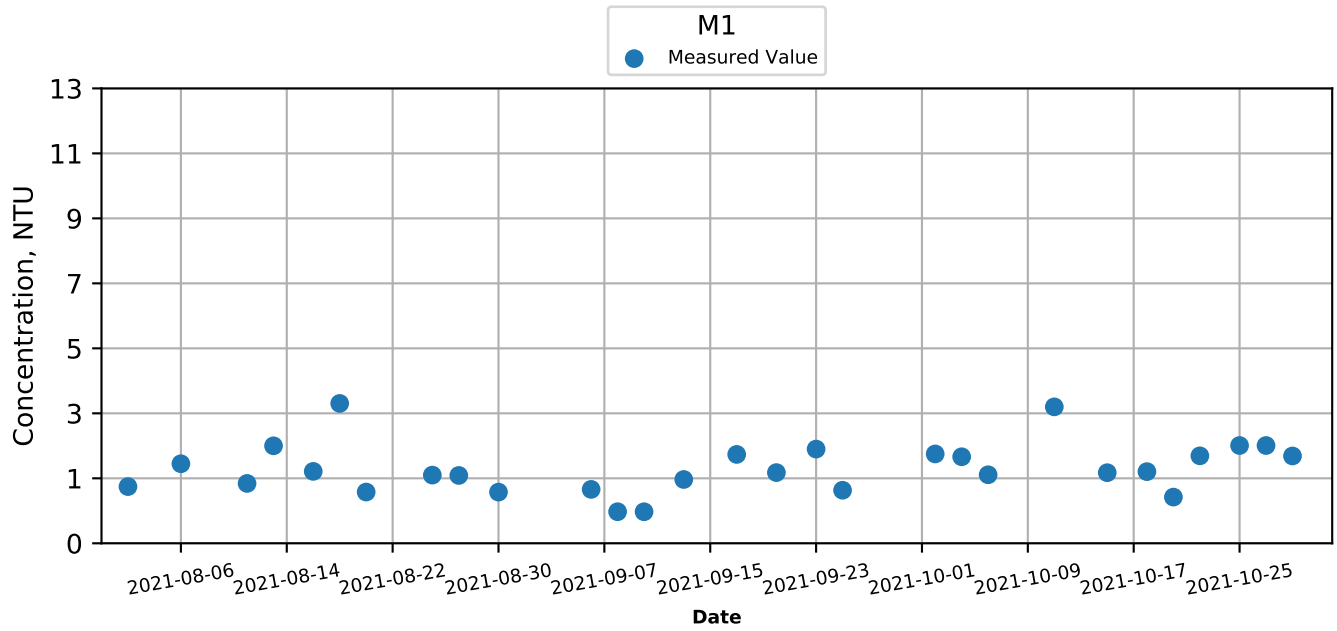
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Ebb



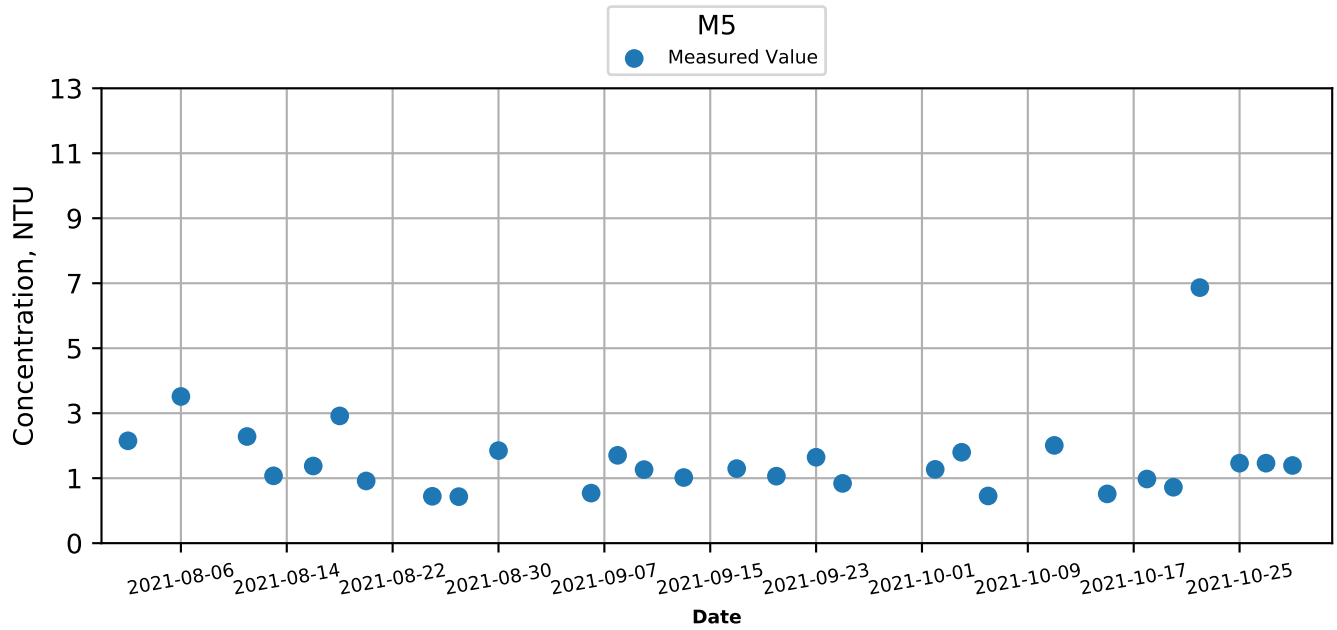
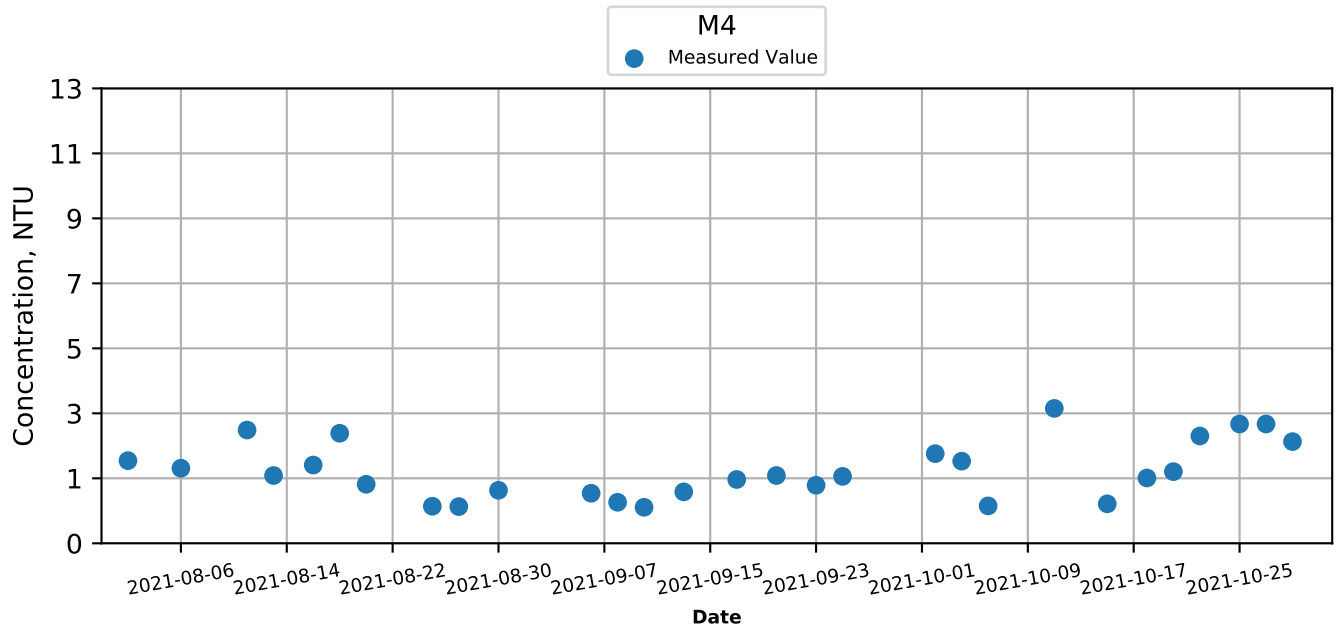
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Ebb



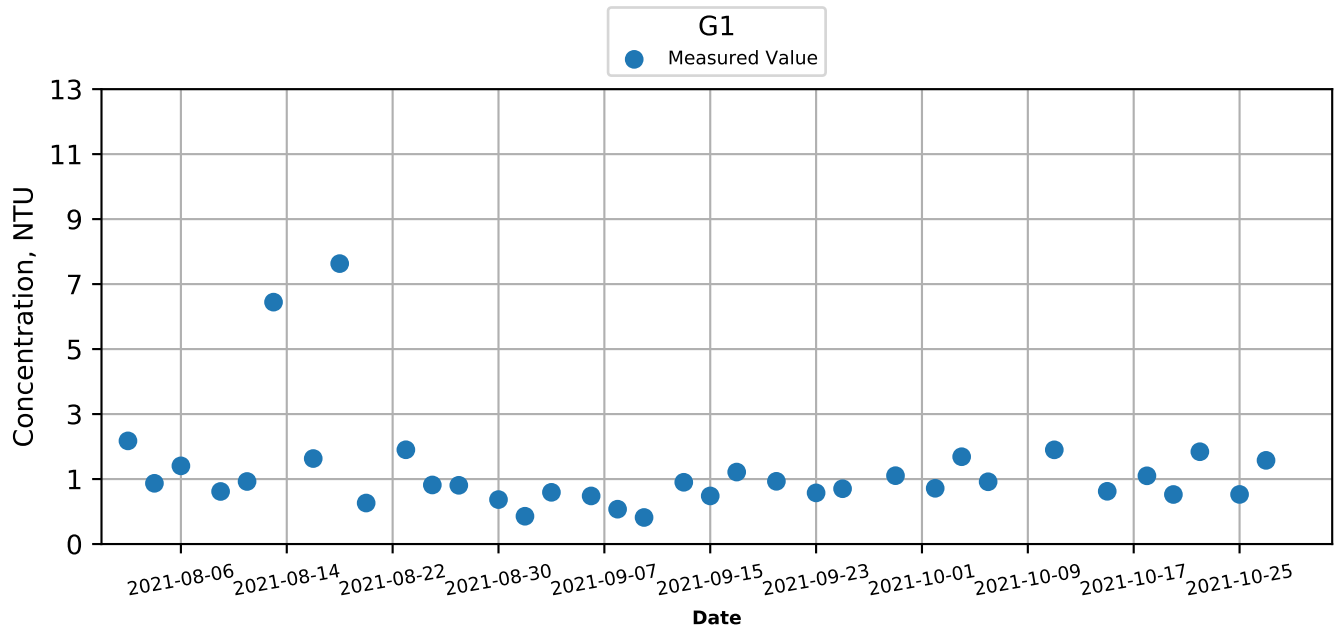
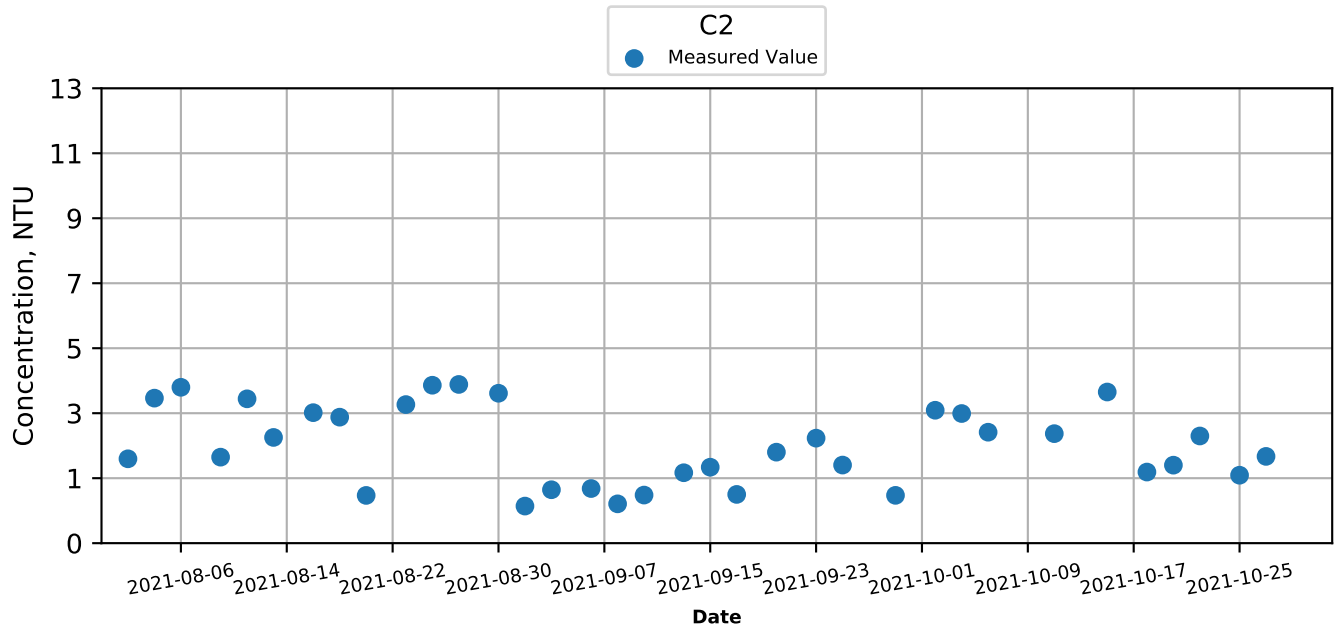
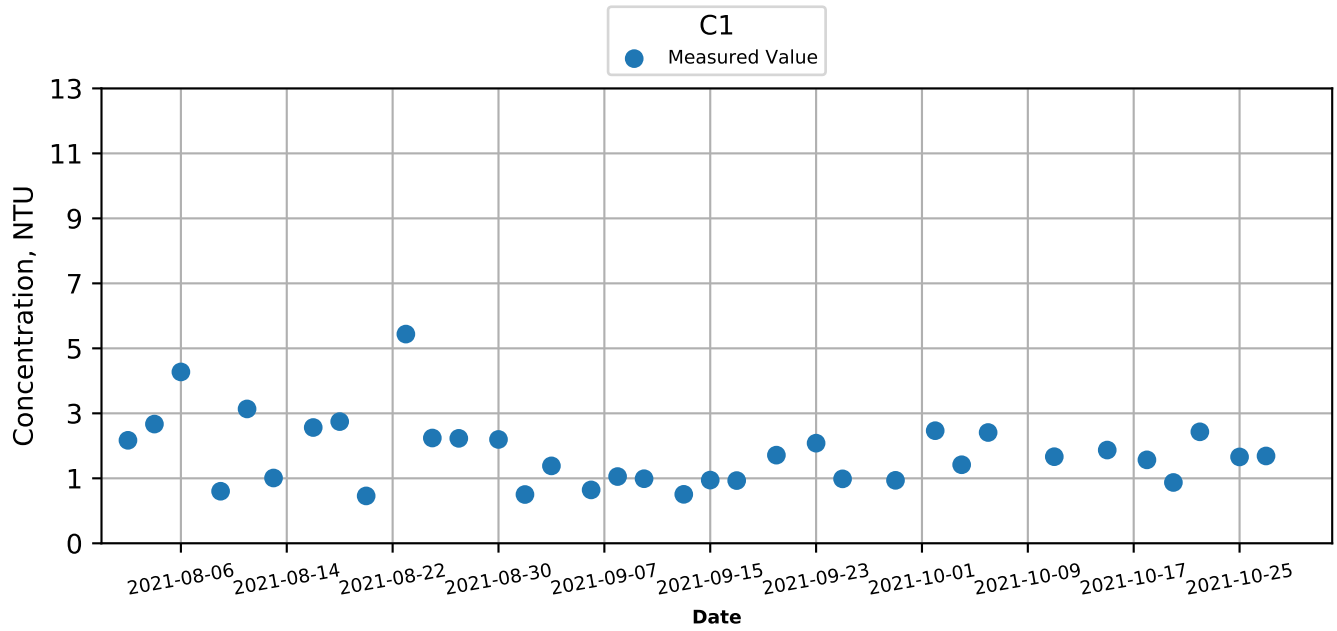
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Ebb



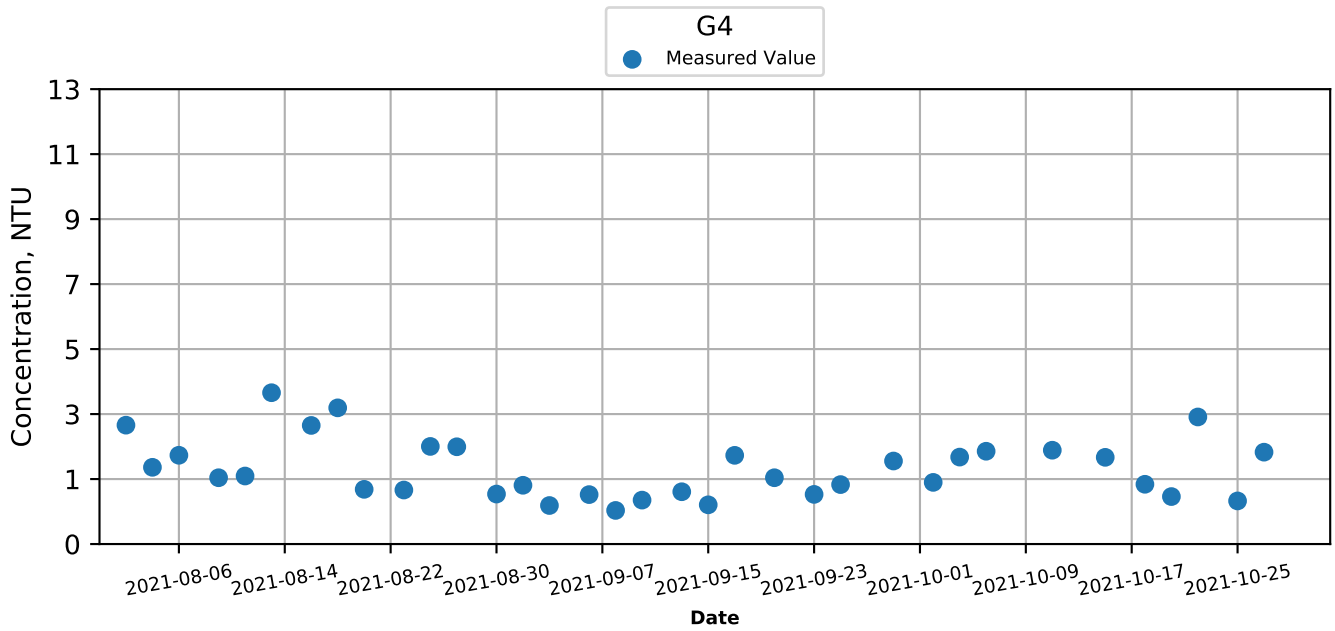
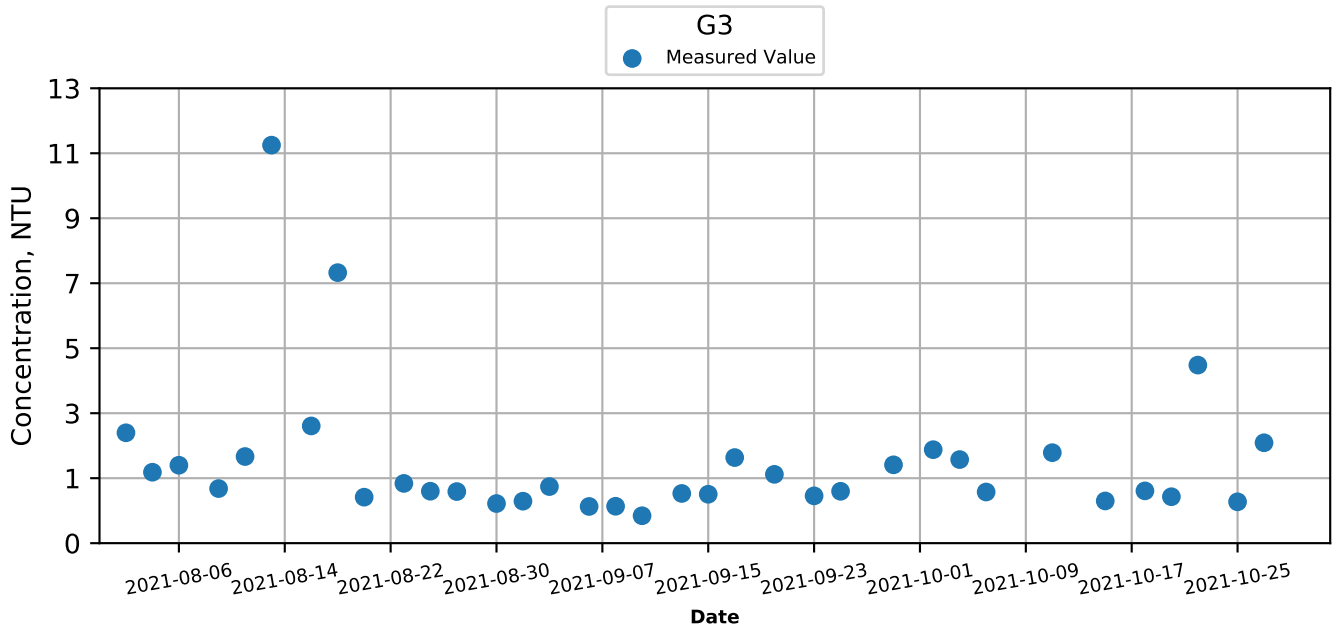
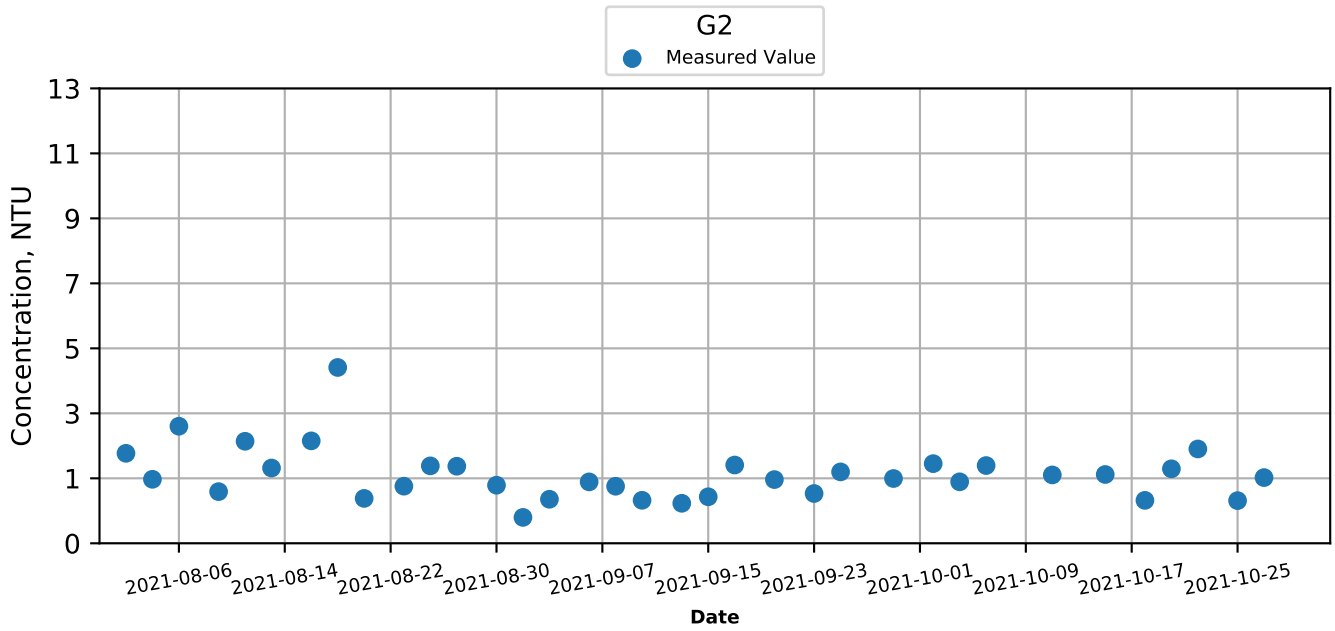
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Flood



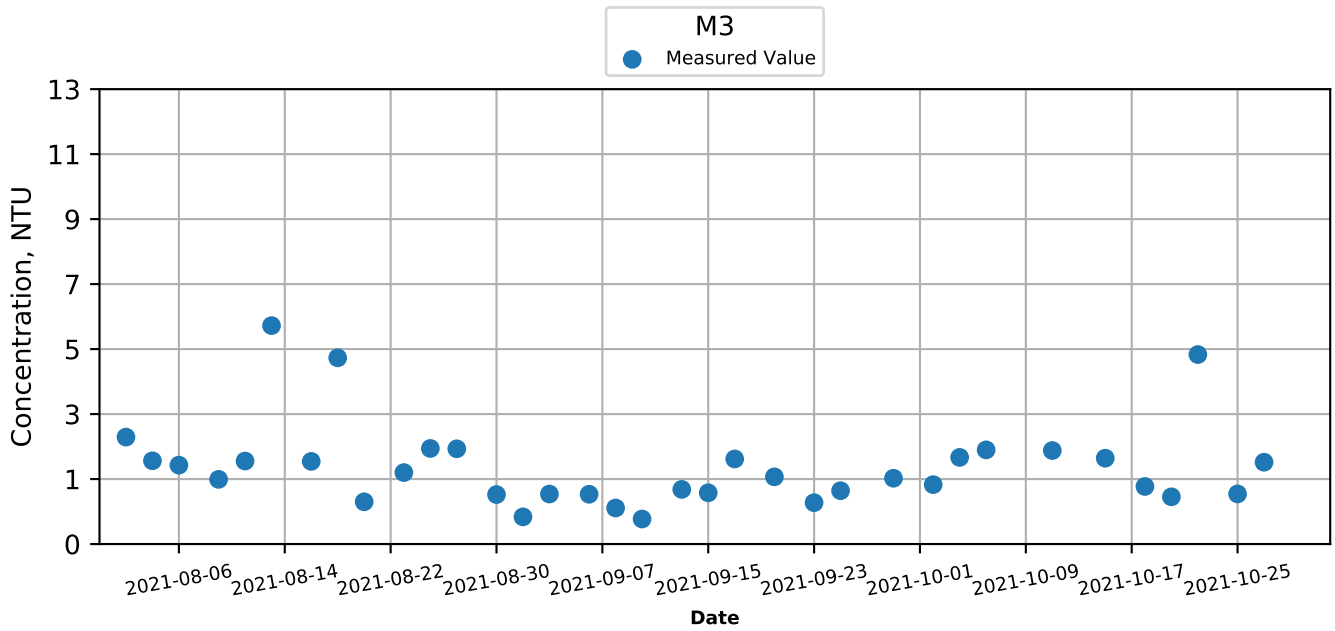
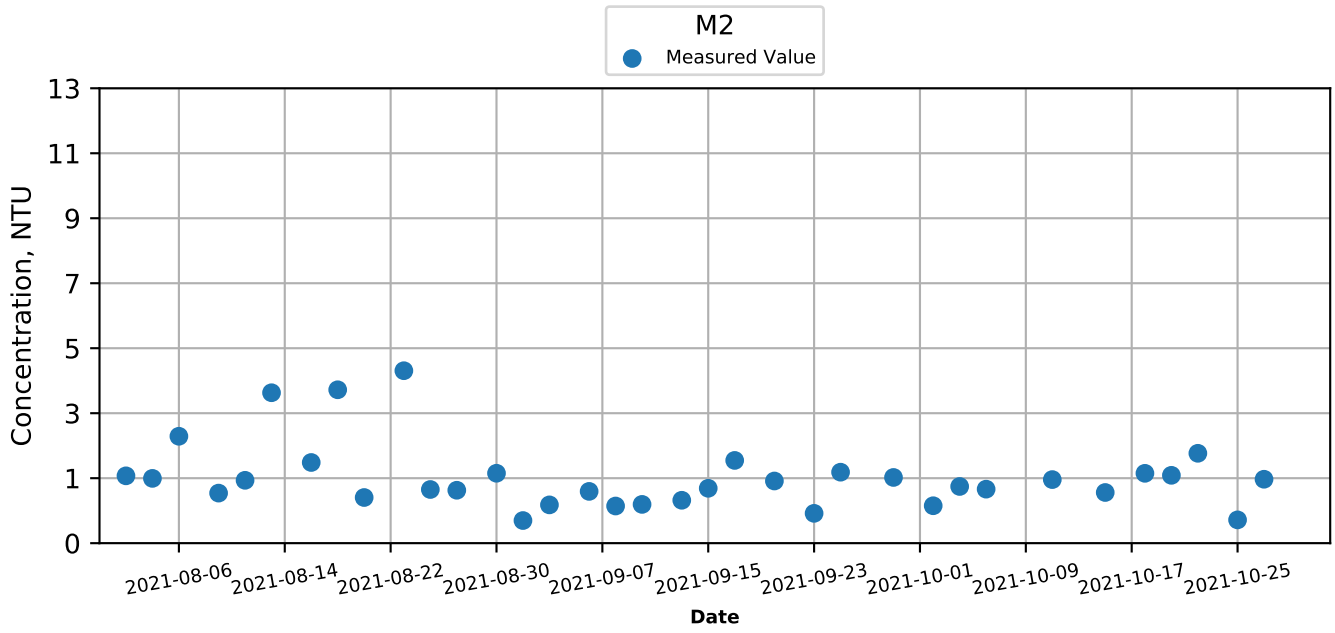
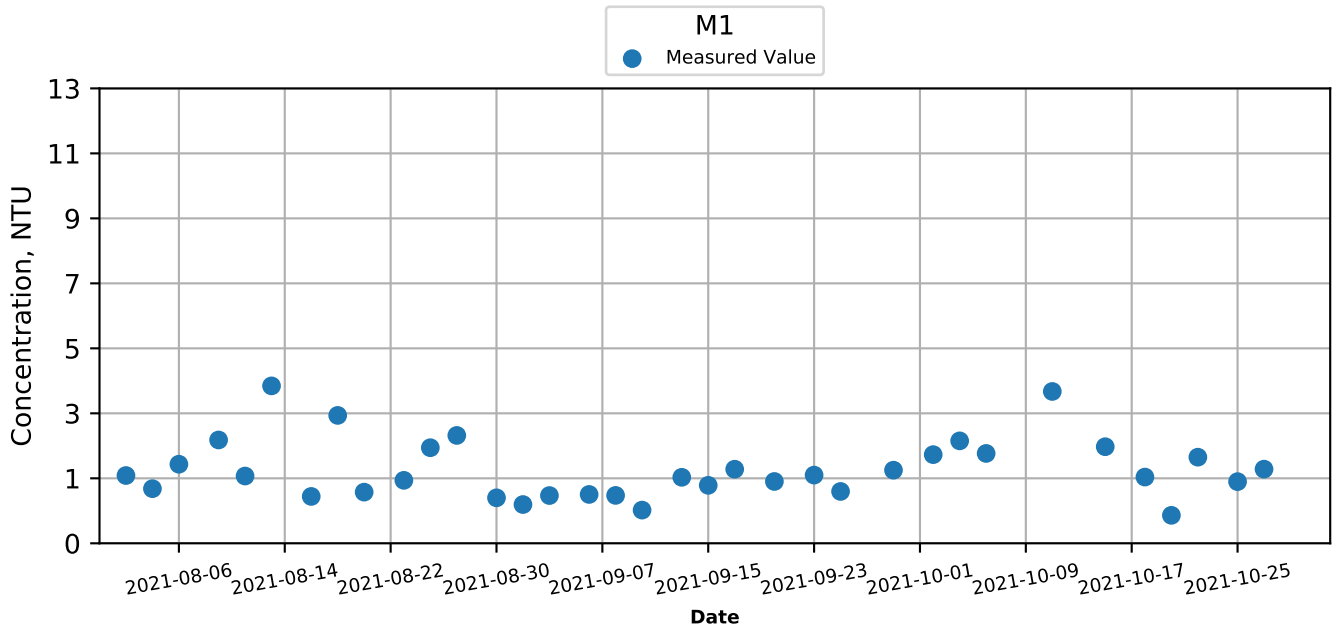
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Flood



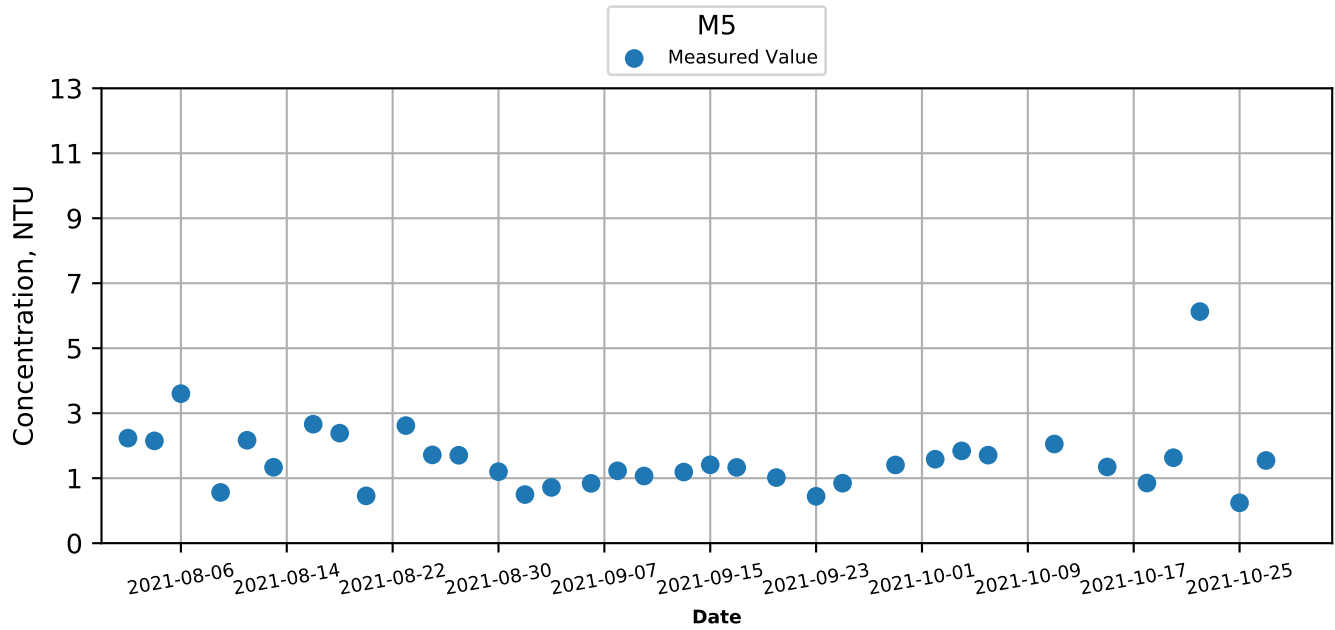
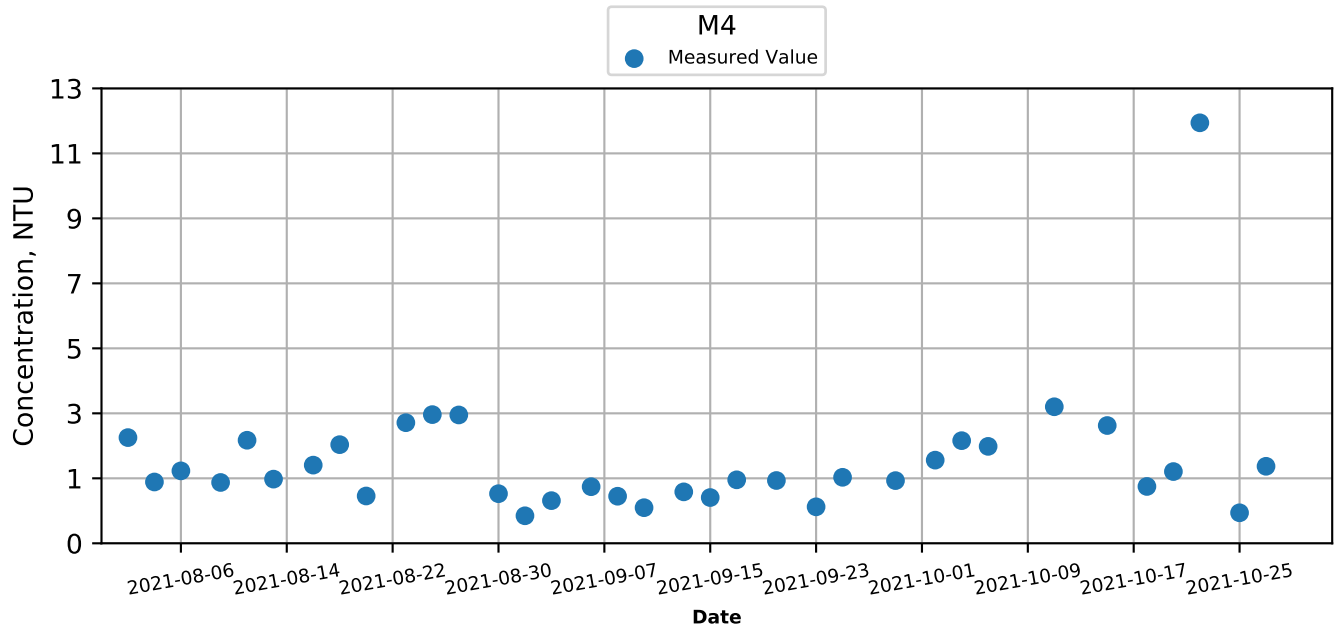
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Flood



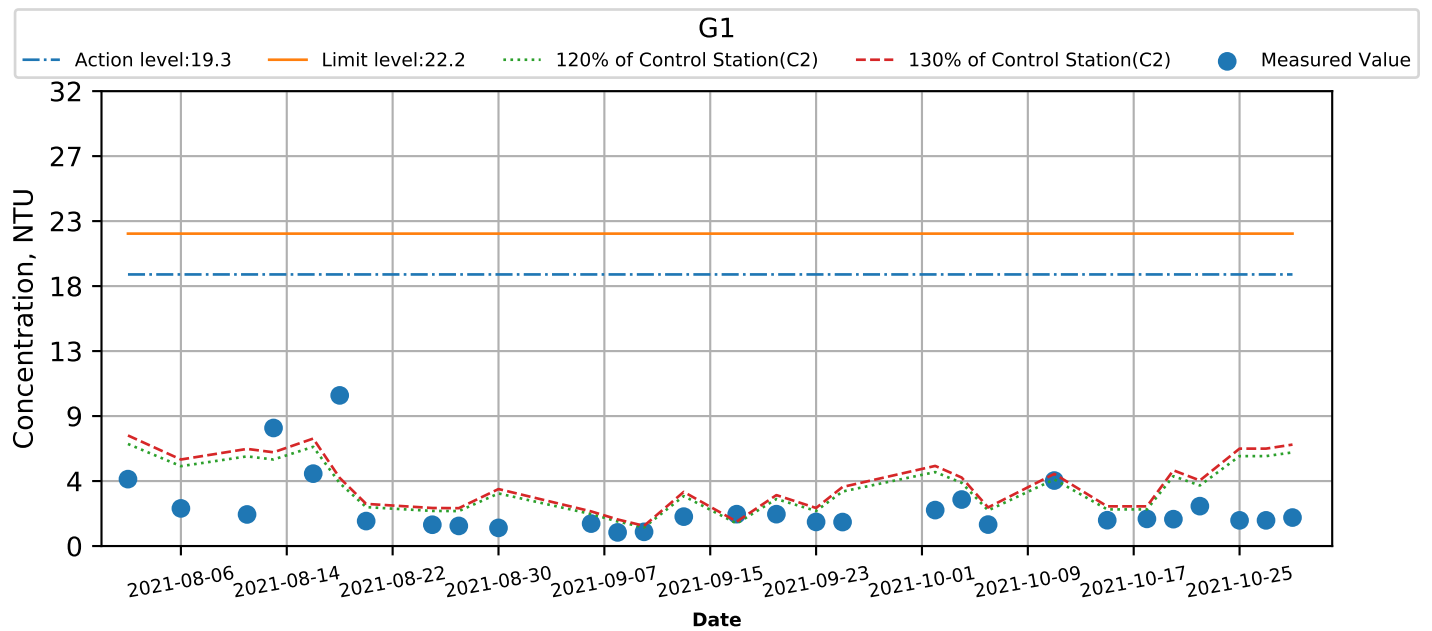
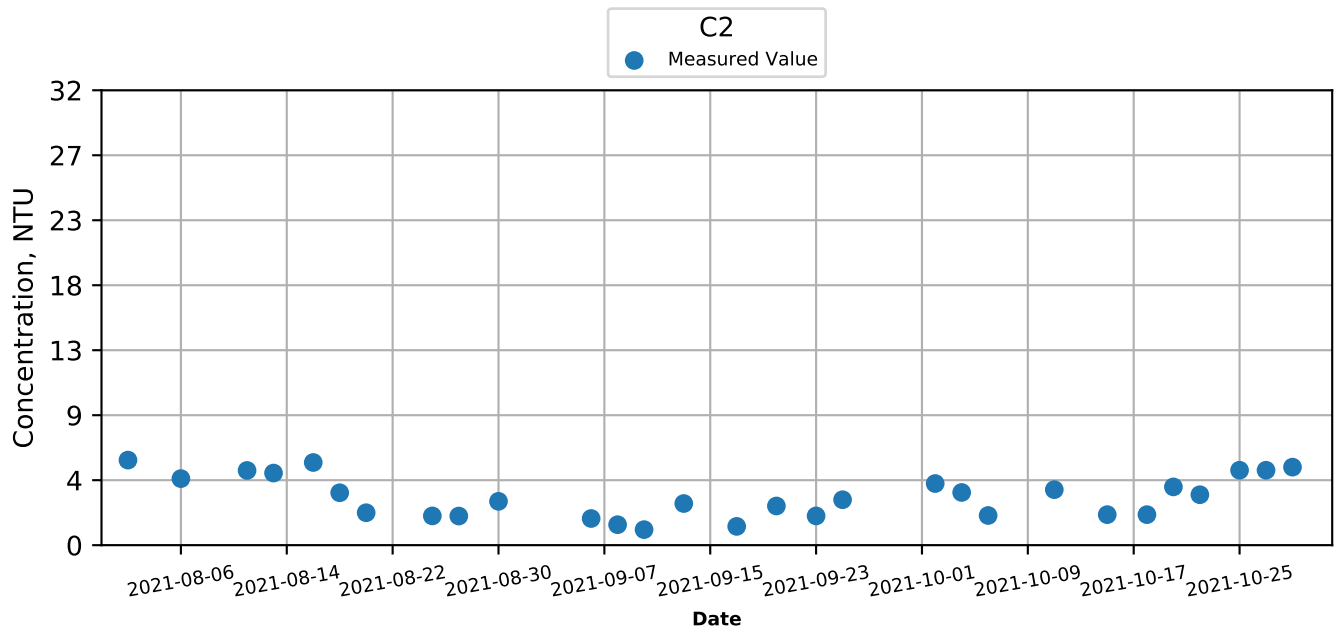
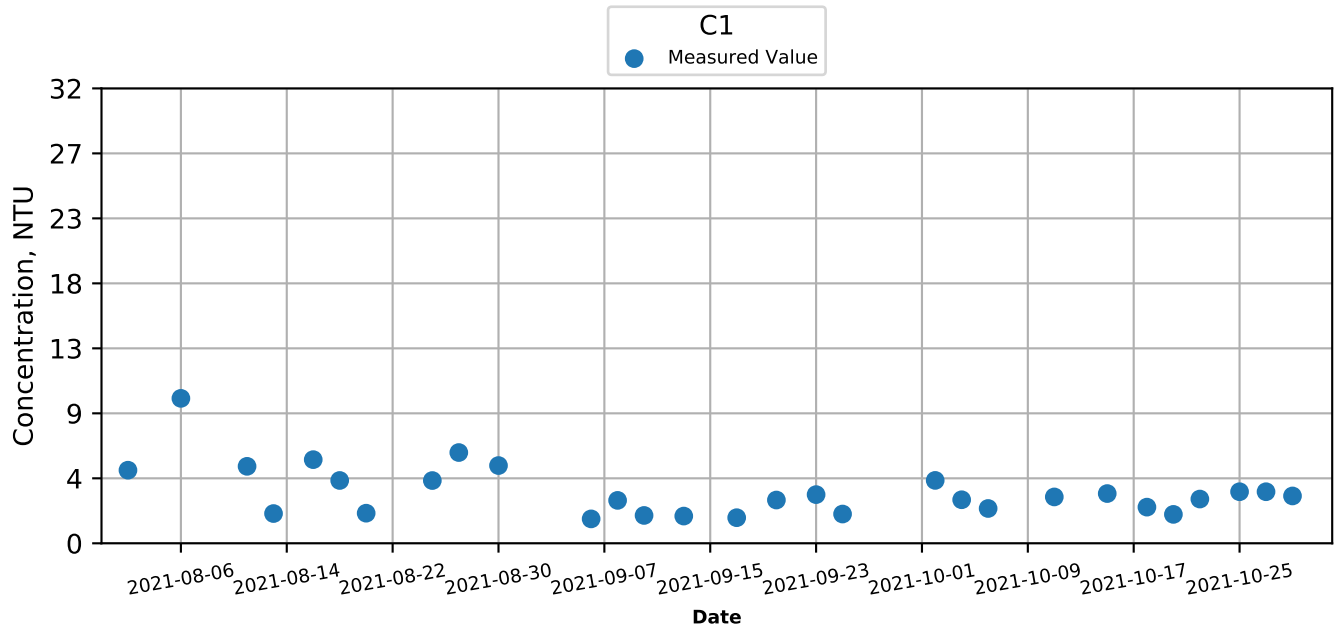
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Depth-Averaged) at Monitoring Stations during Mid-Flood



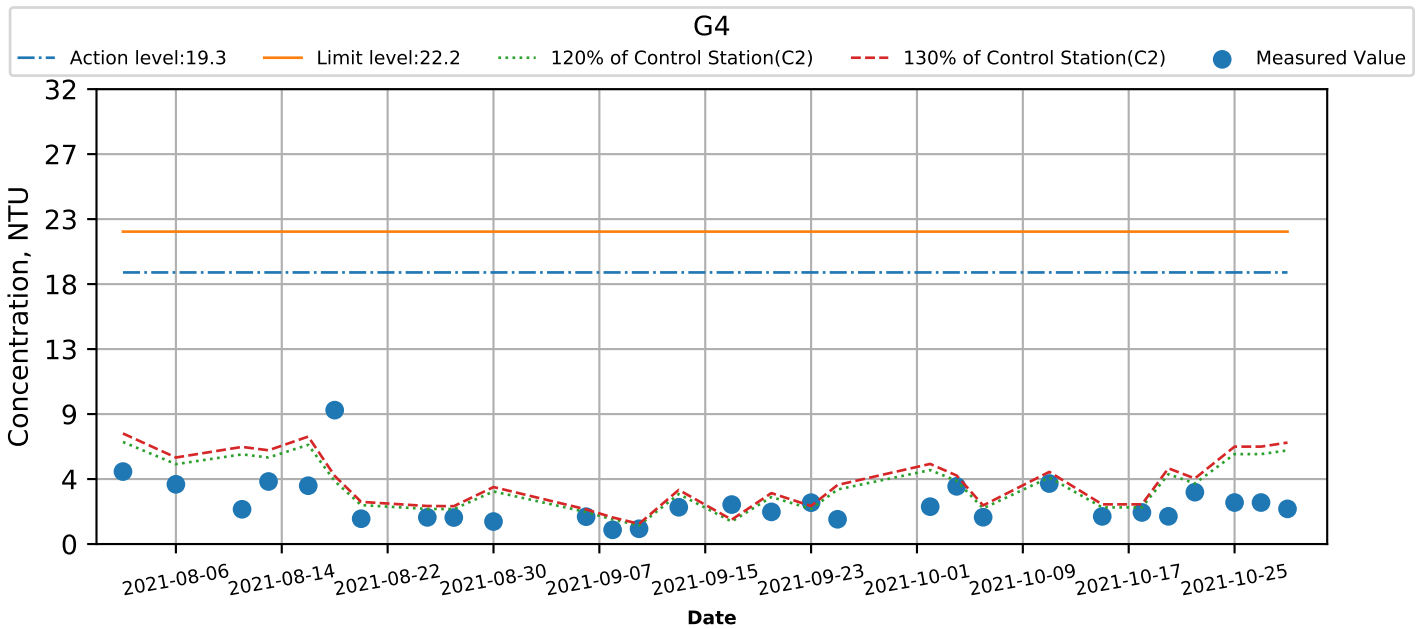
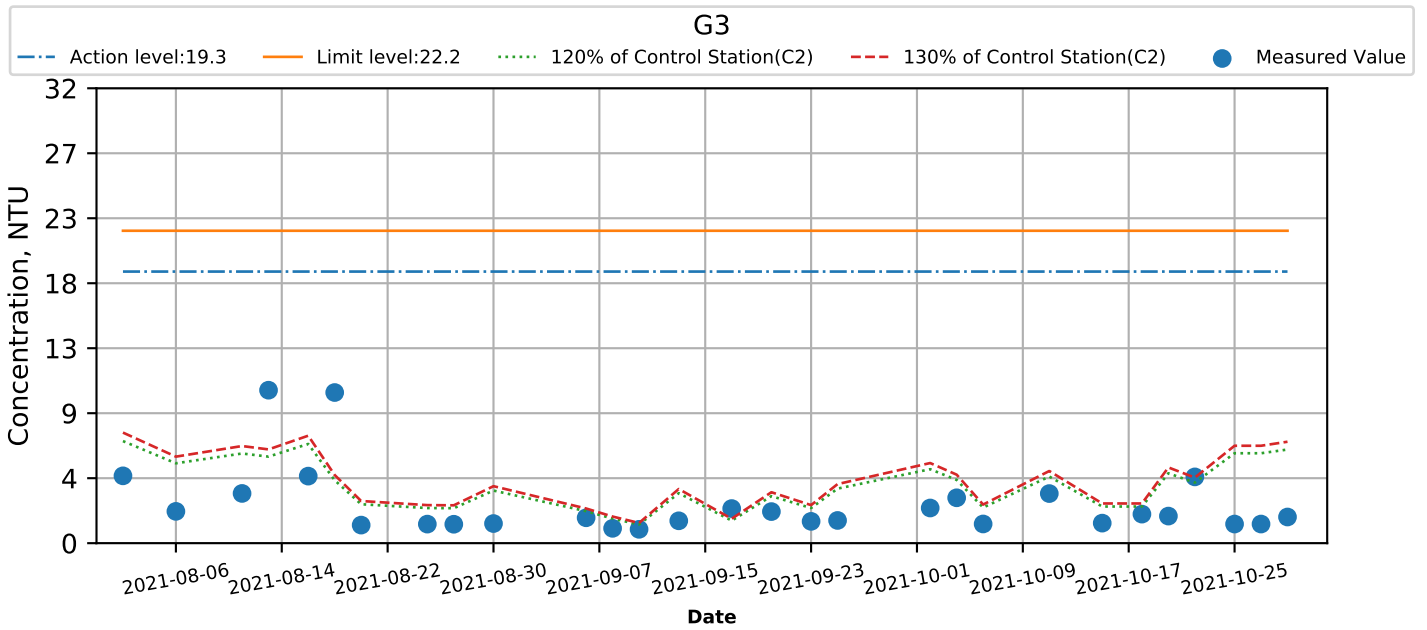
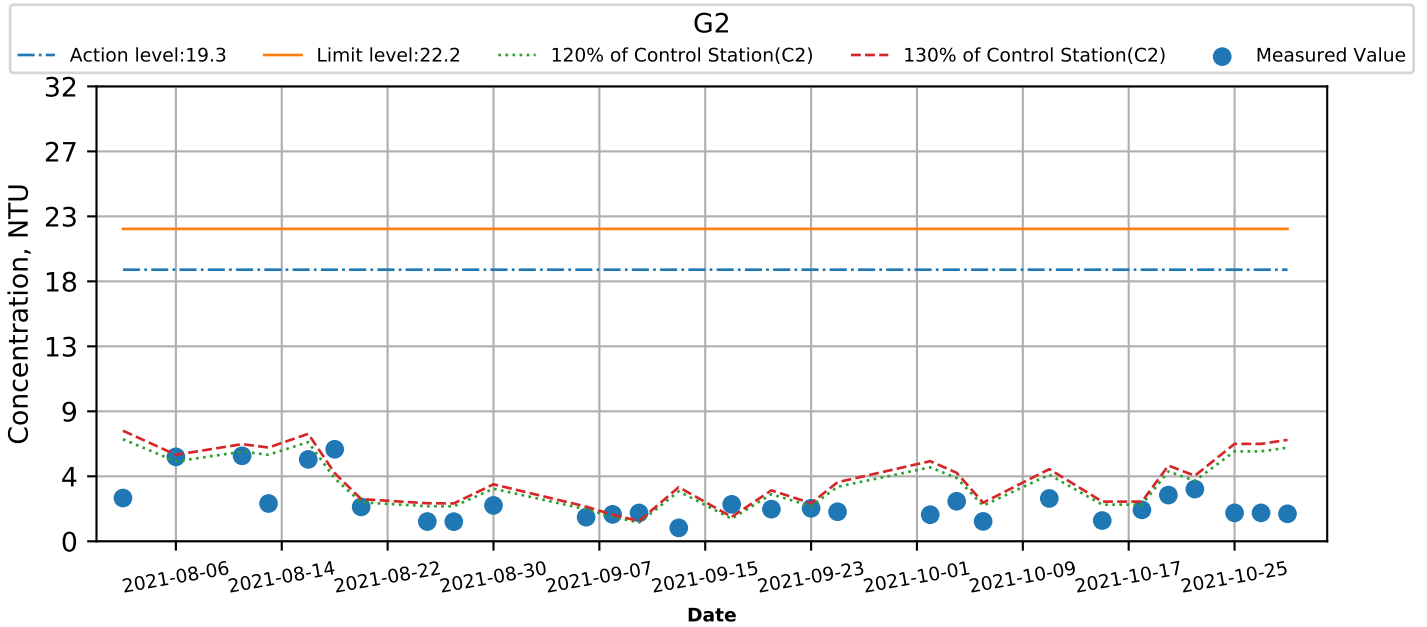
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Ebb



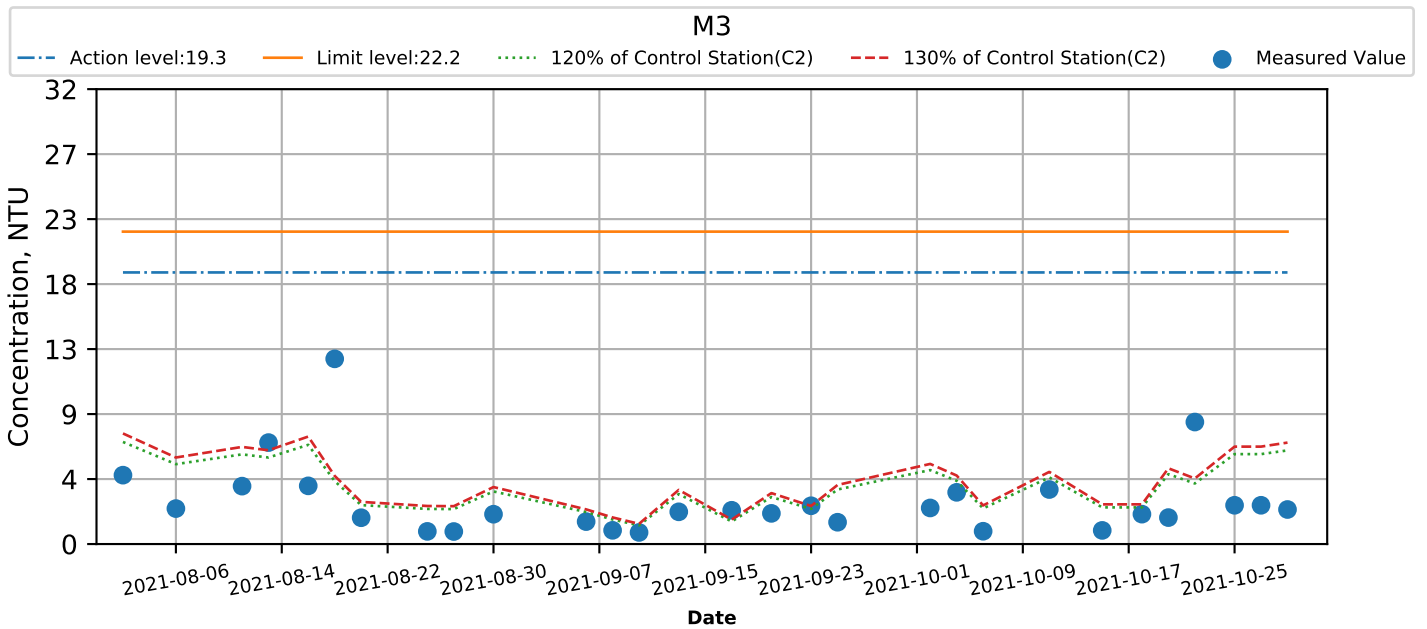
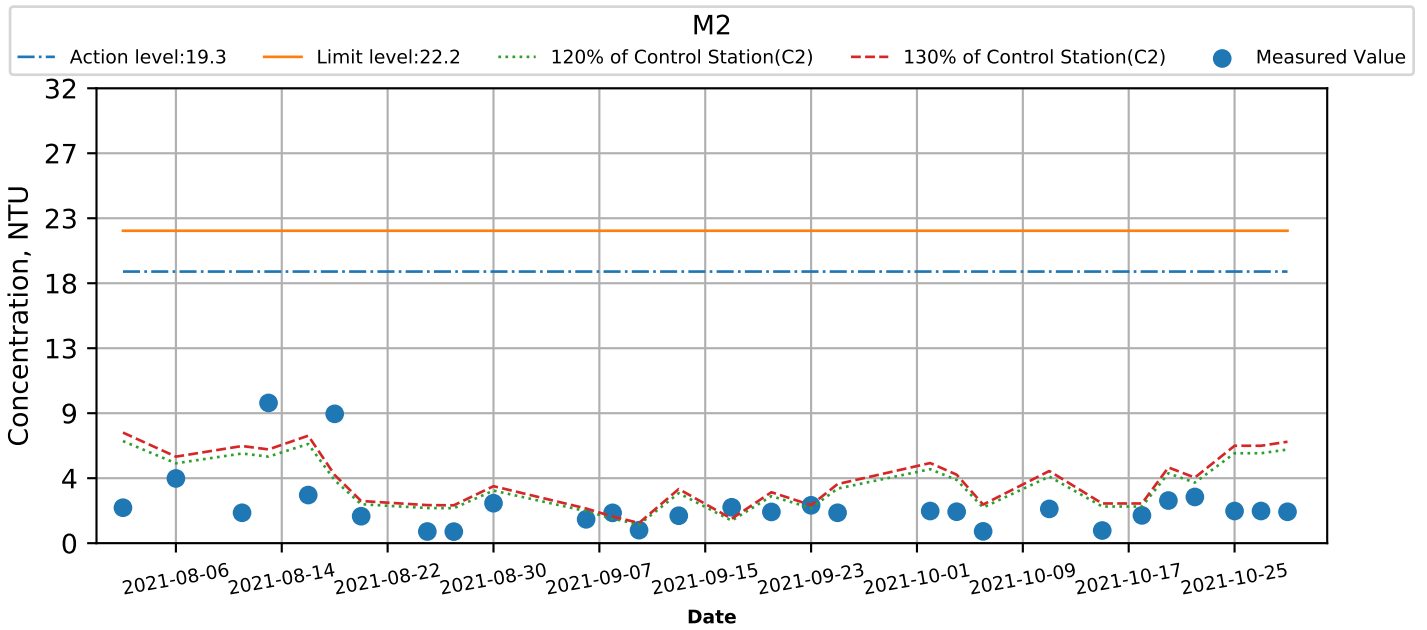
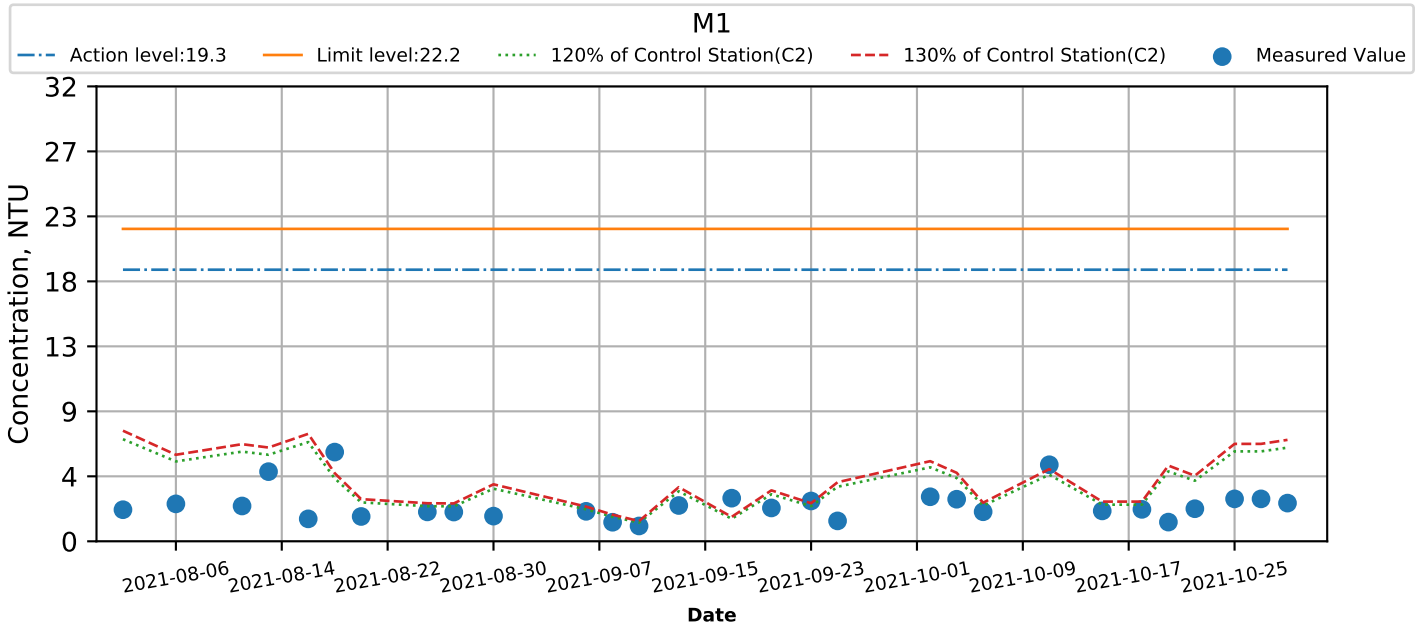
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Ebb



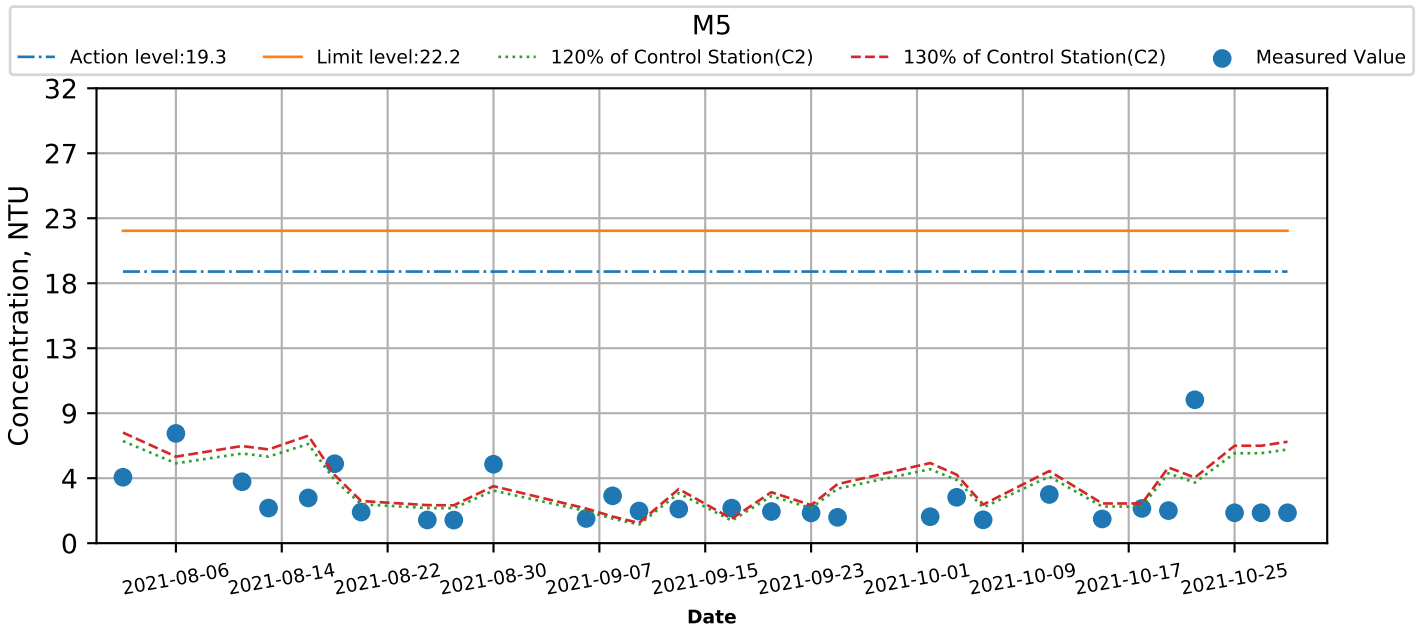
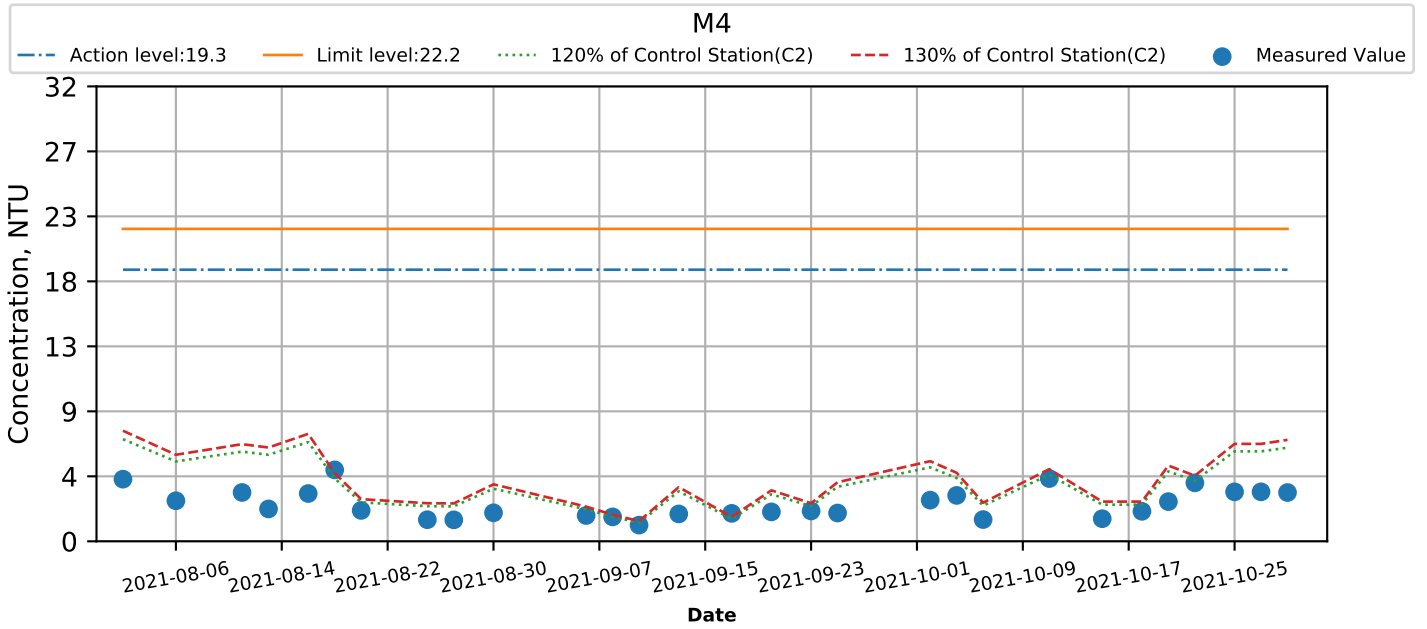
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Ebb



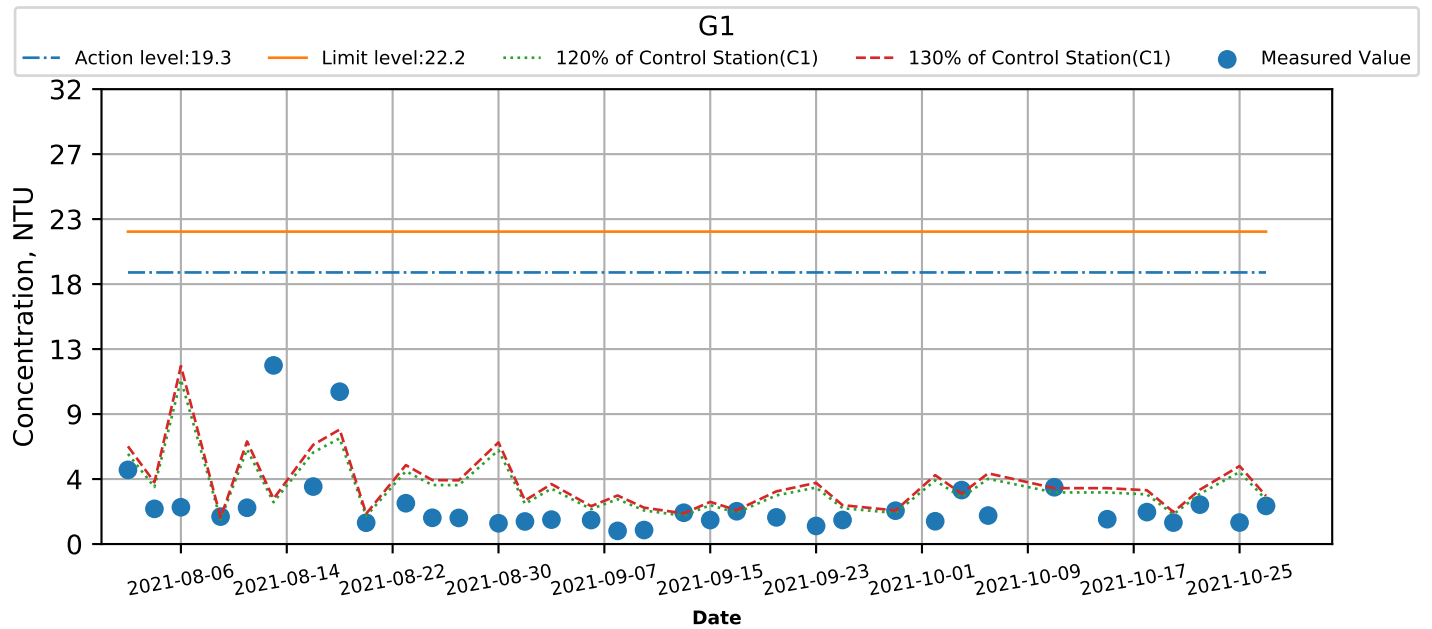
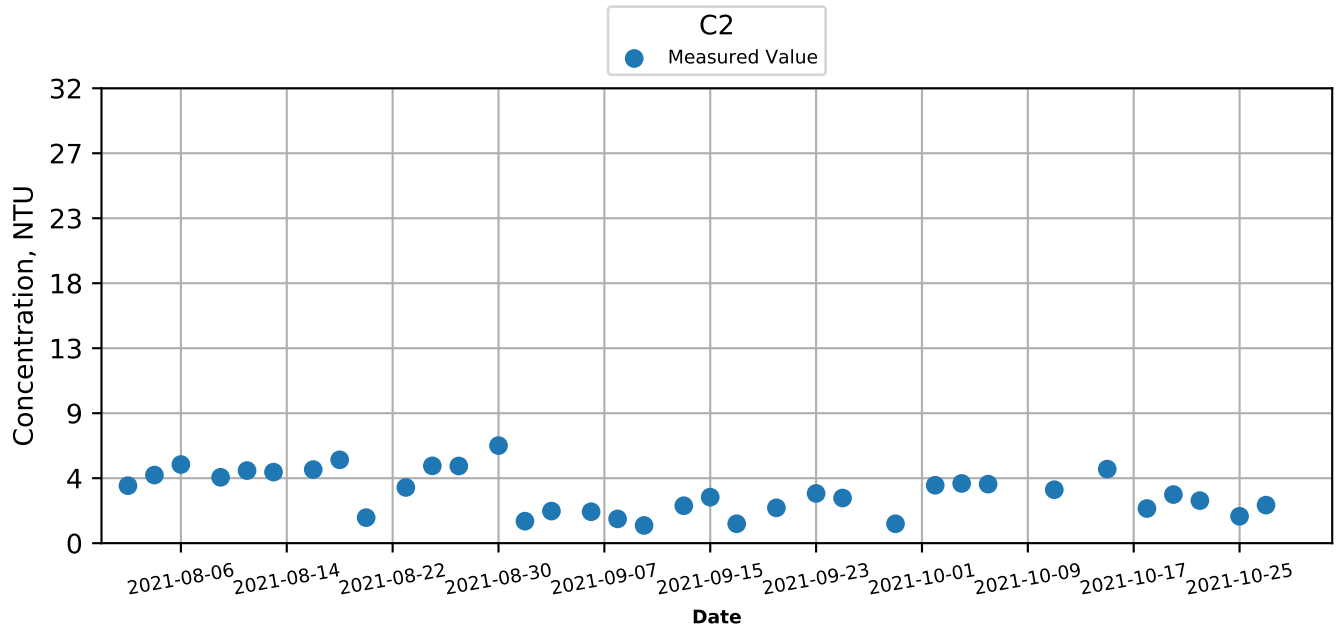
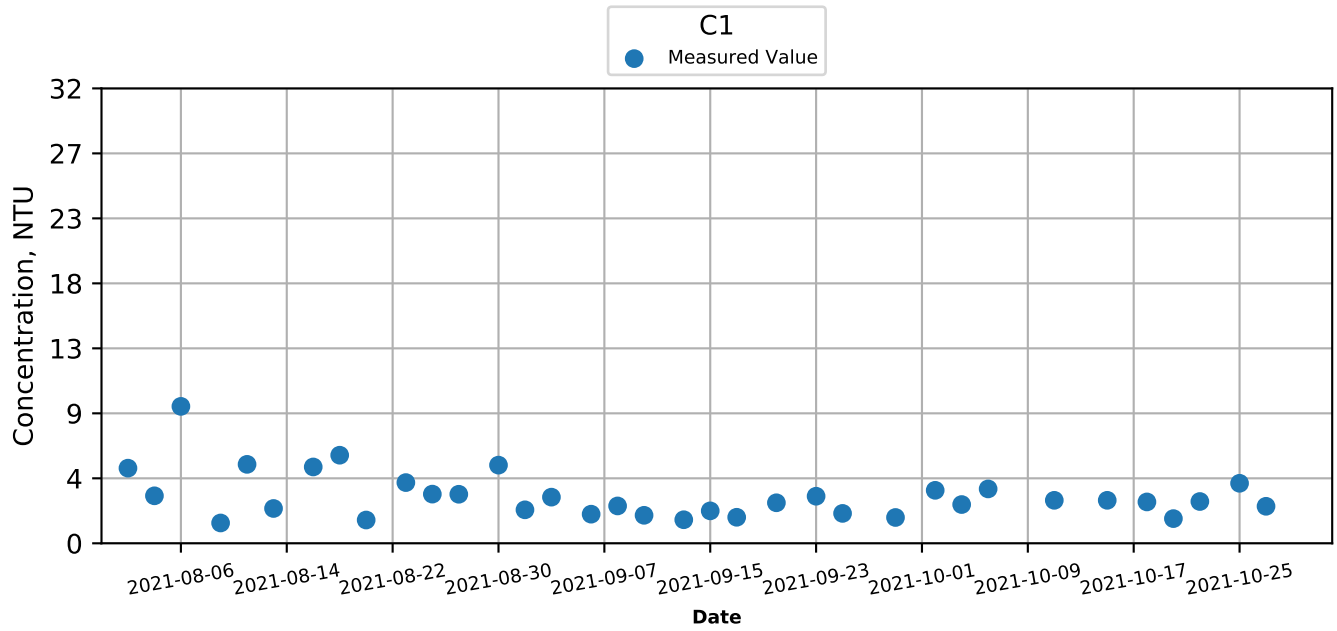
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Ebb



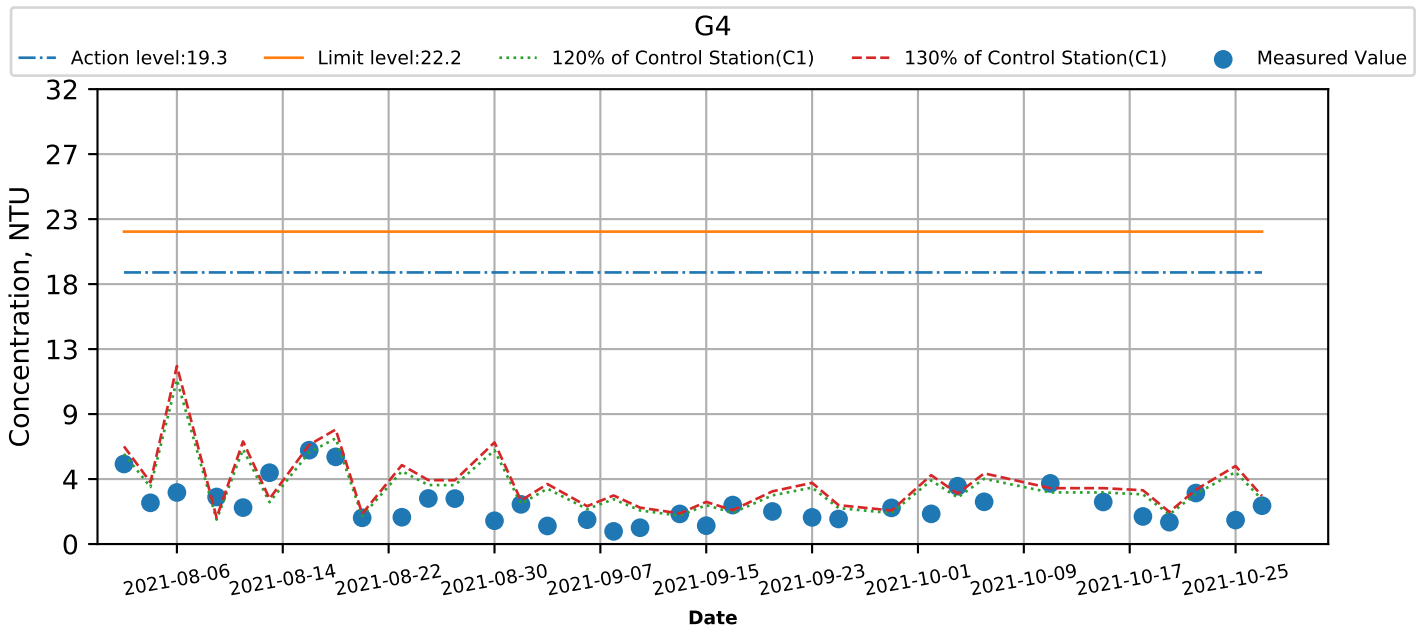
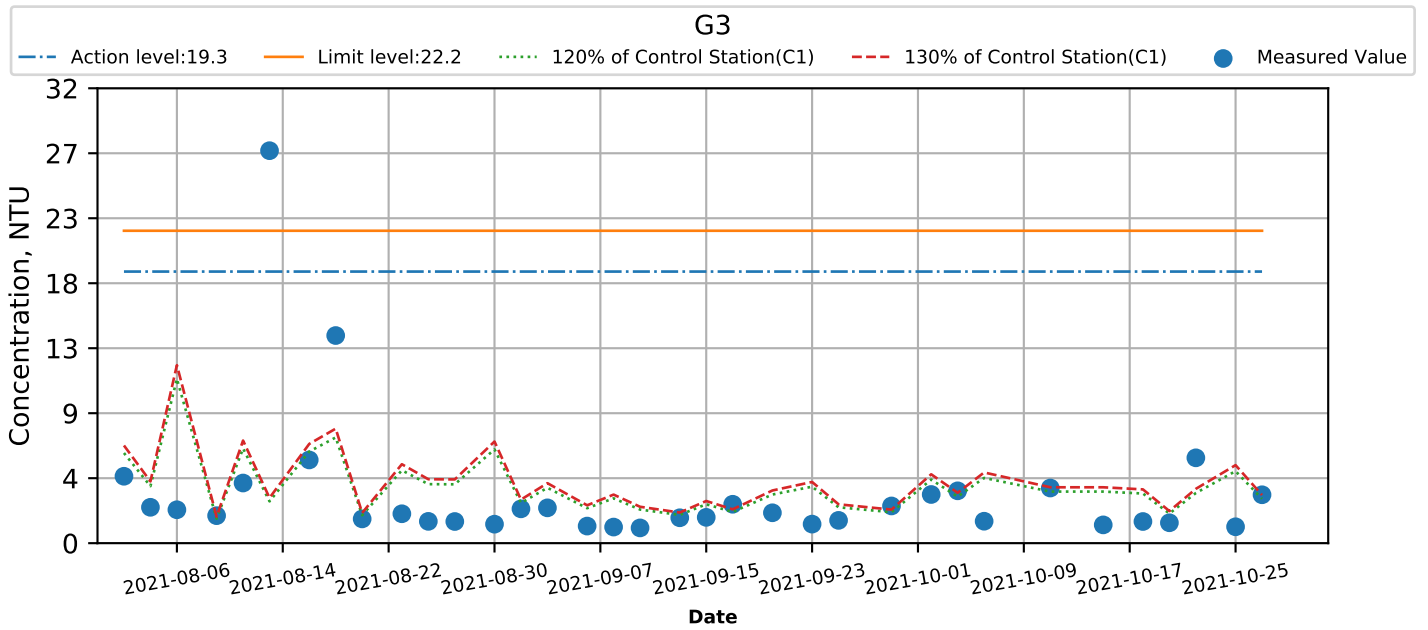
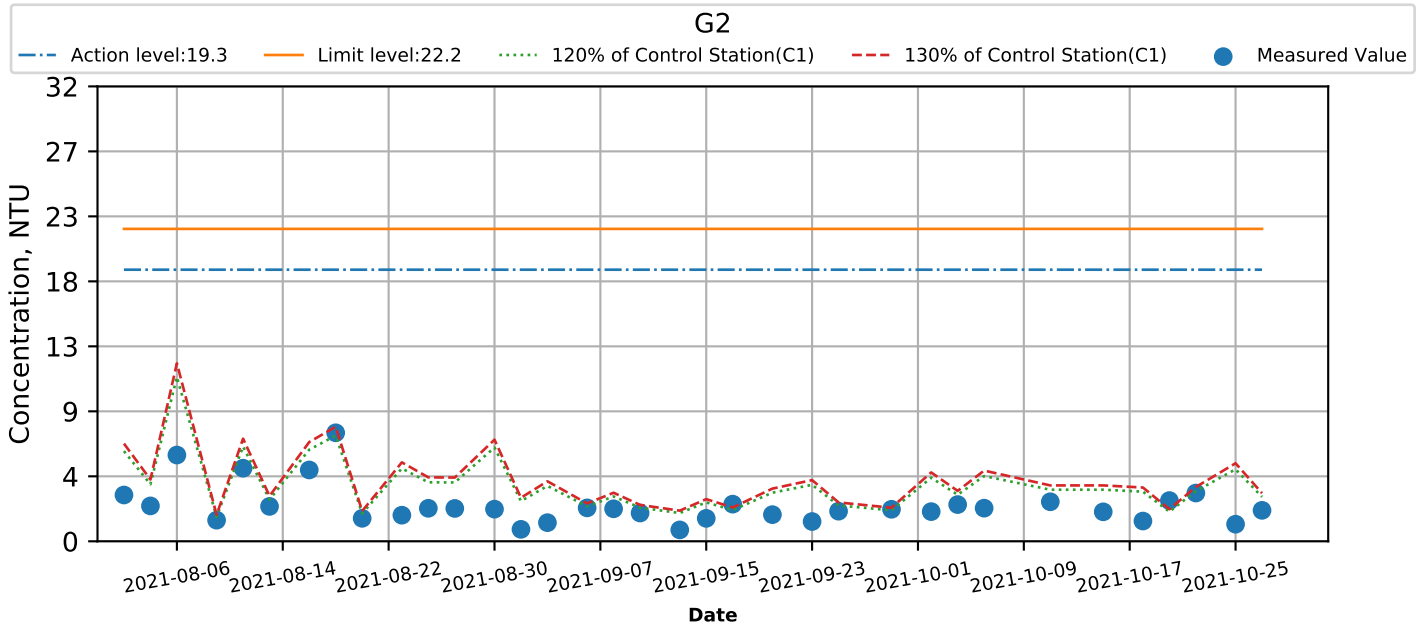
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Flood



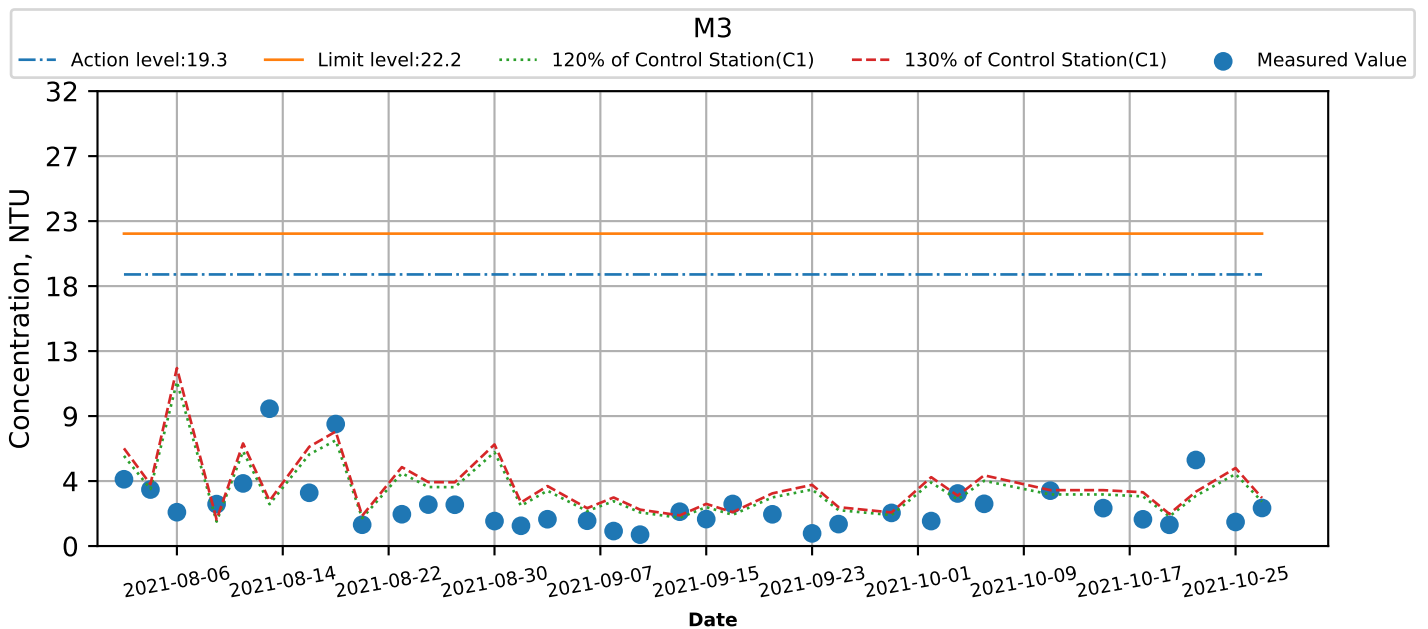
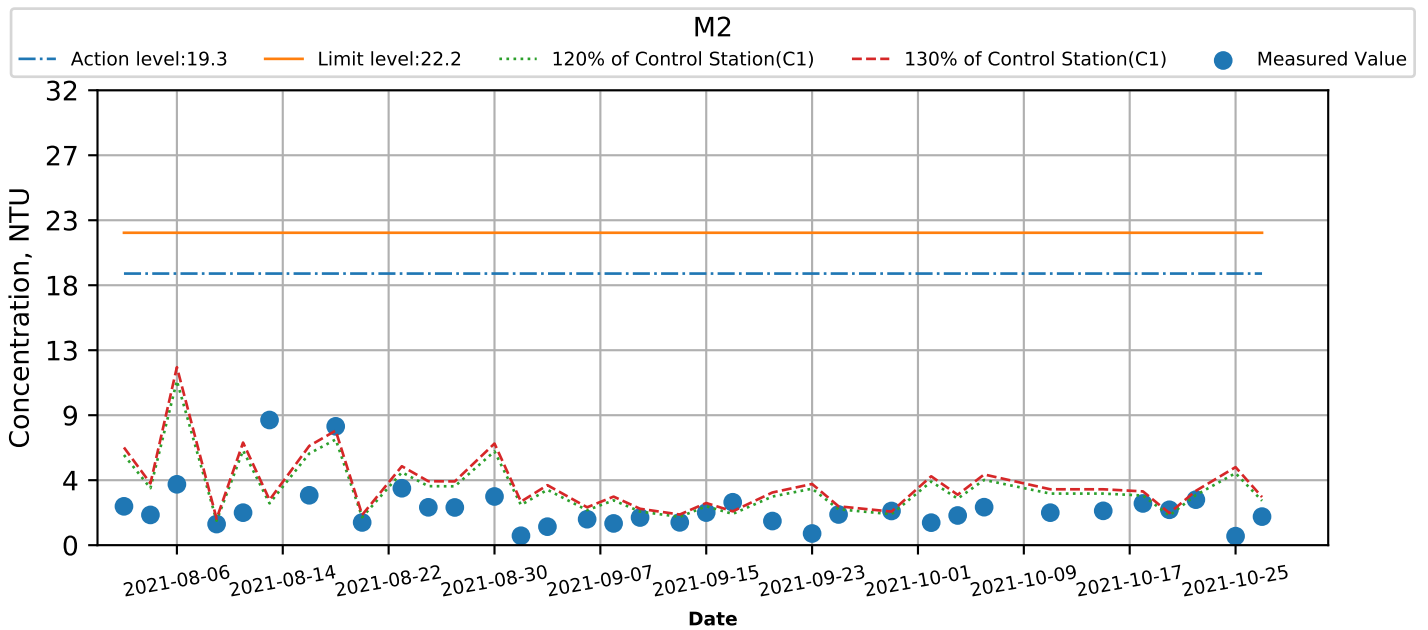
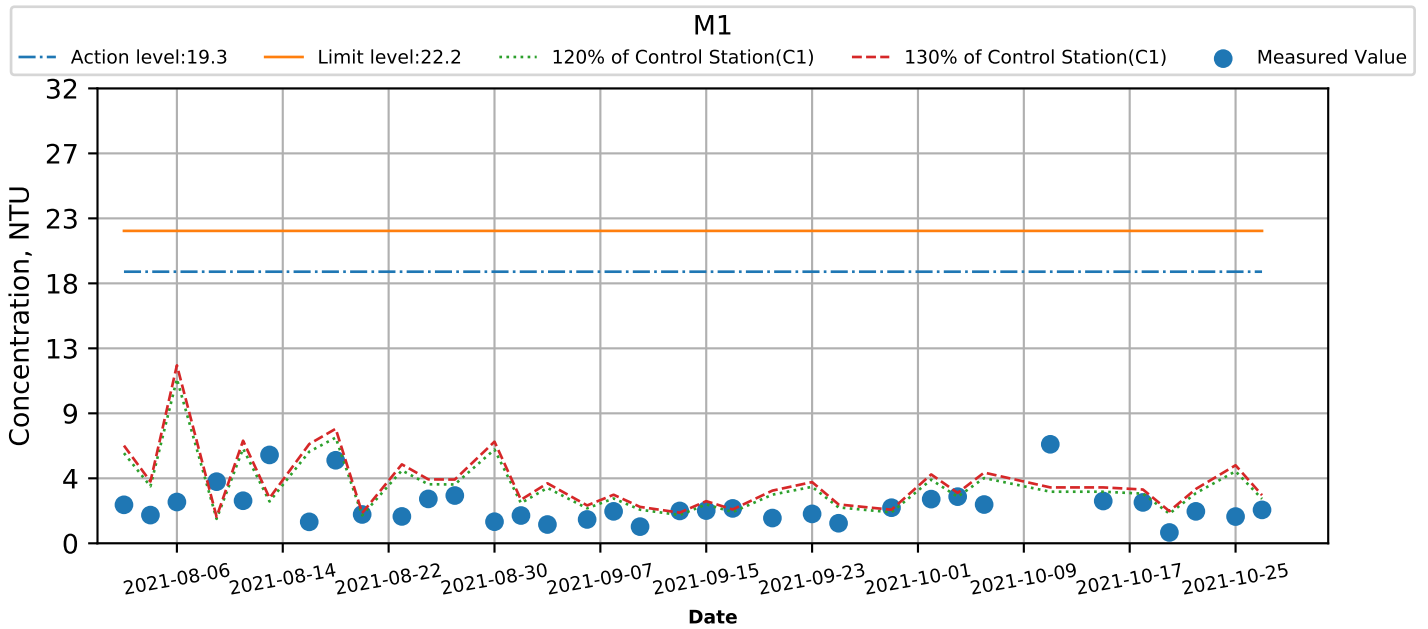
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Flood



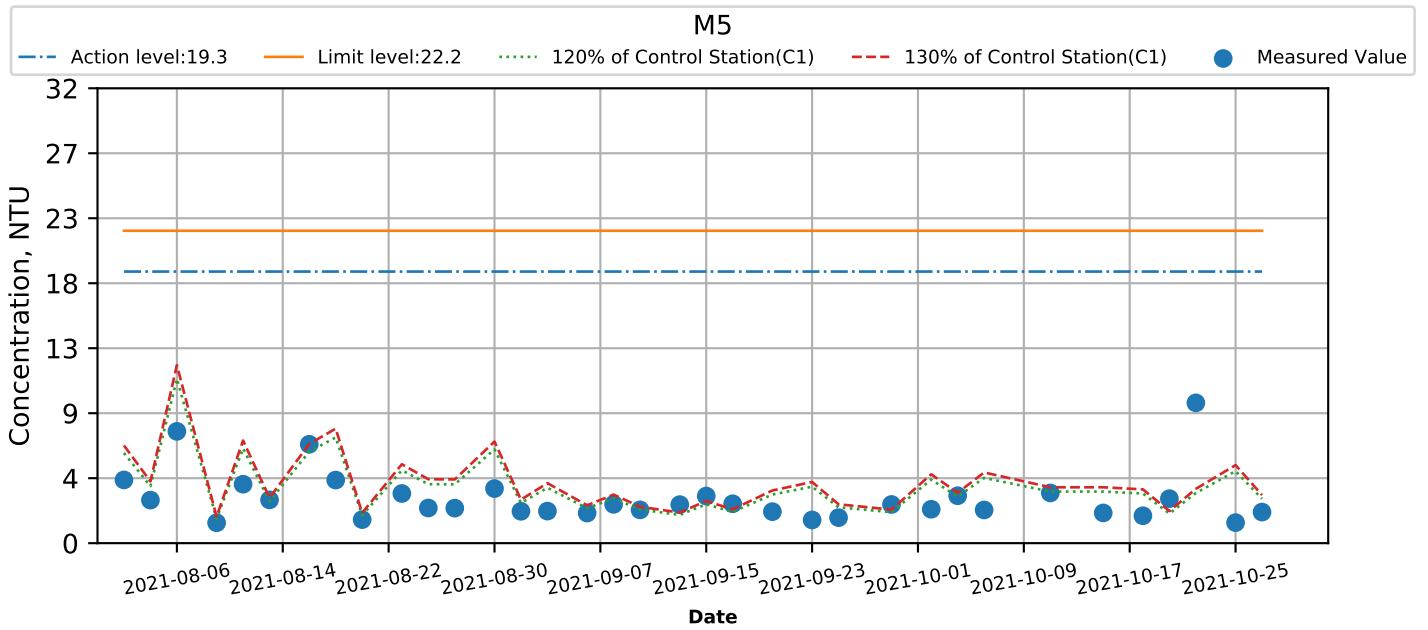
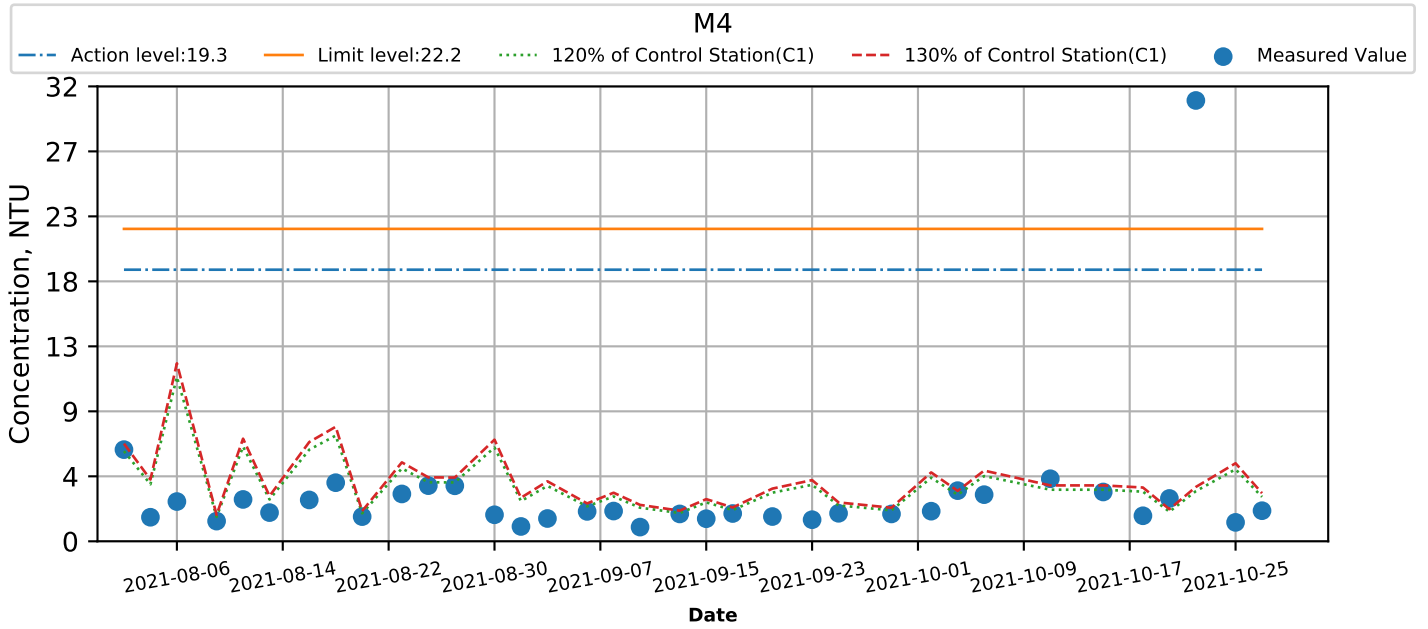
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Flood



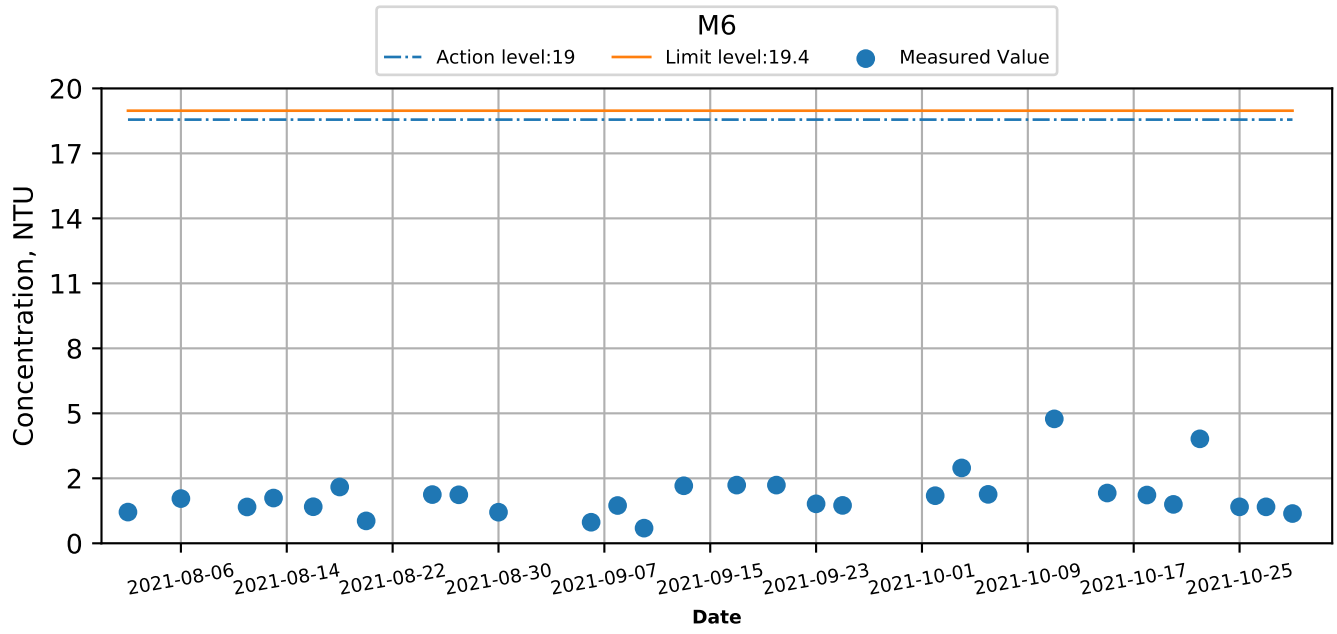
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Bottom) at Monitoring Stations during Mid-Flood



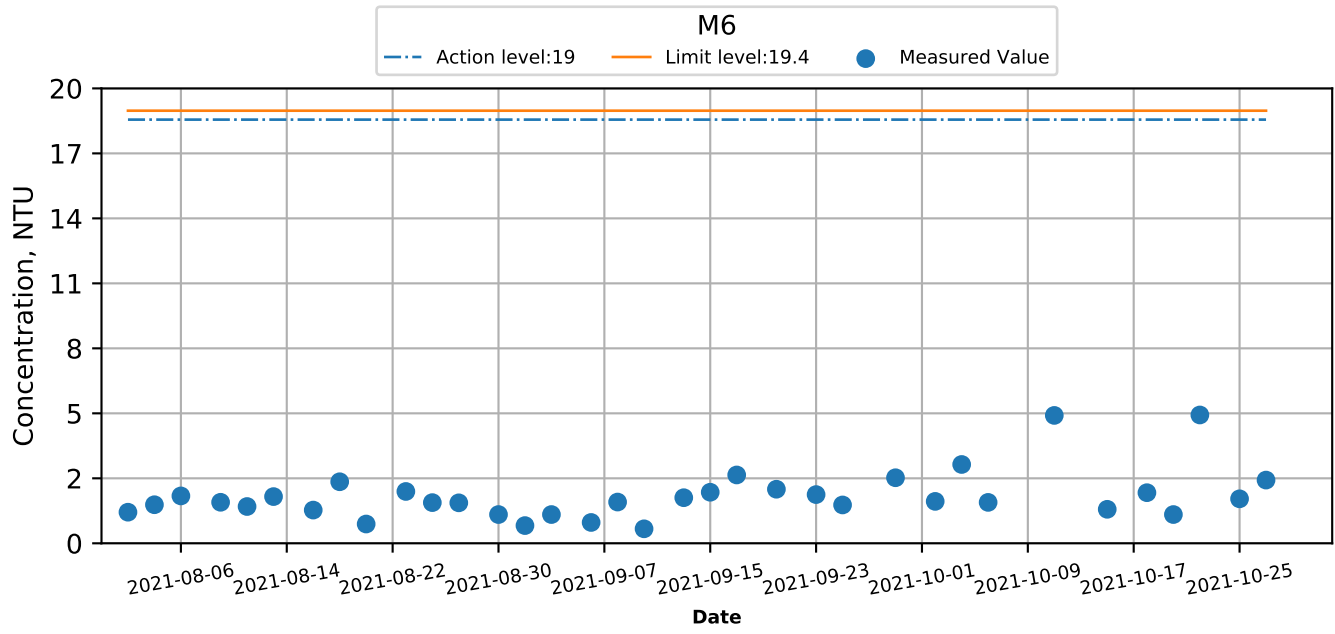
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Intake level) at Monitoring Stations during Mid-Ebb



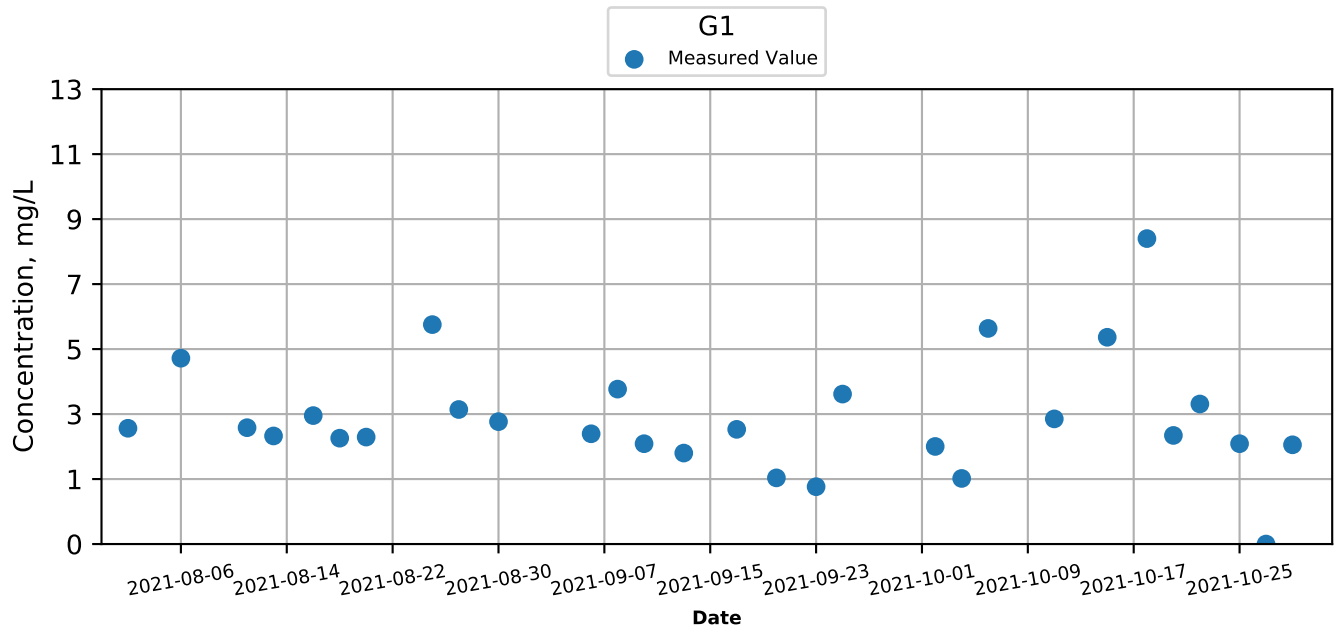
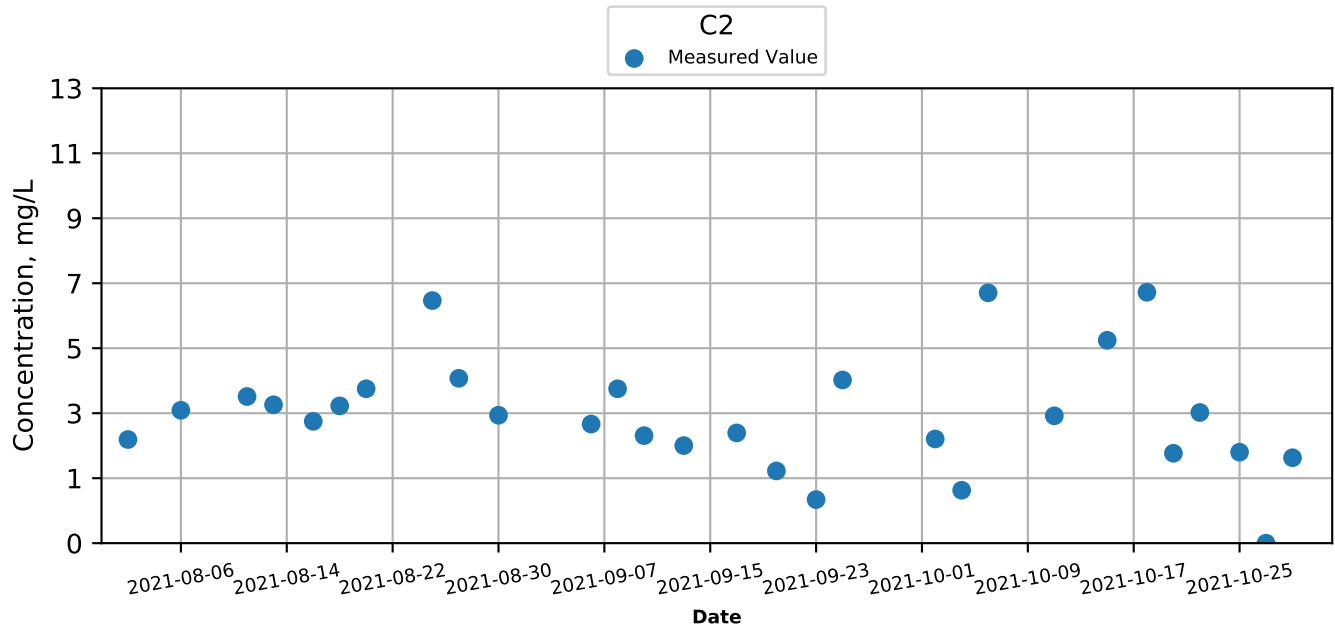
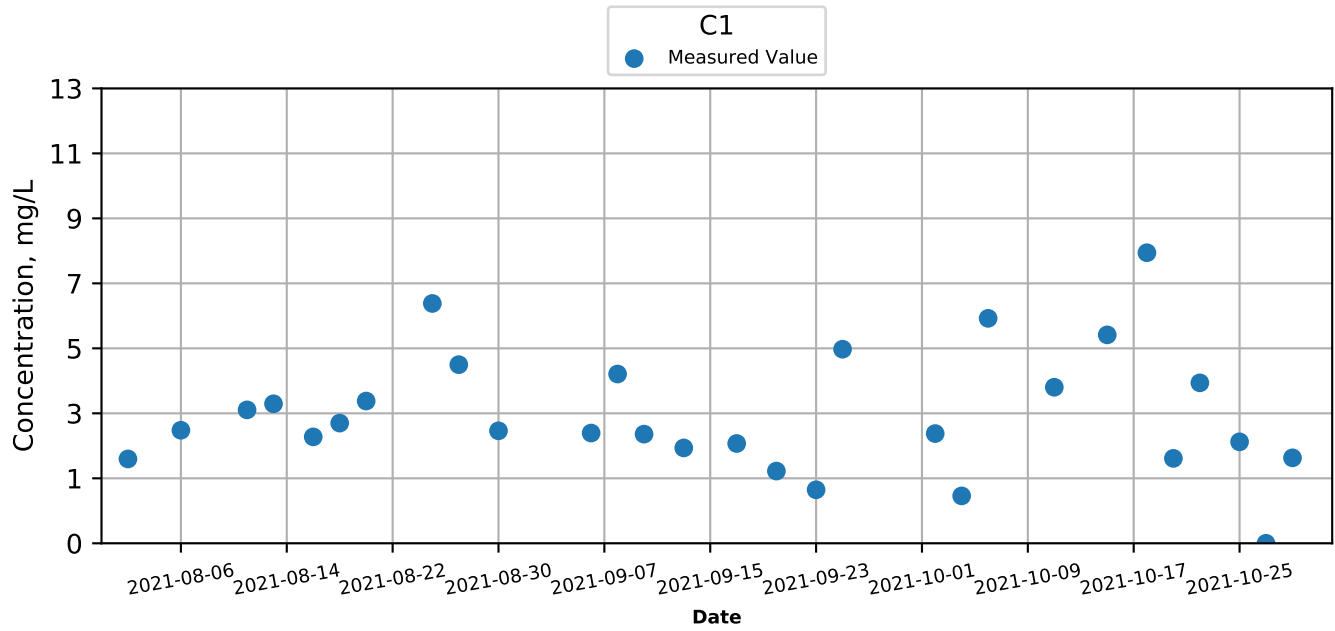
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Turbidity (Intake level) at Monitoring Stations during Mid-Flood



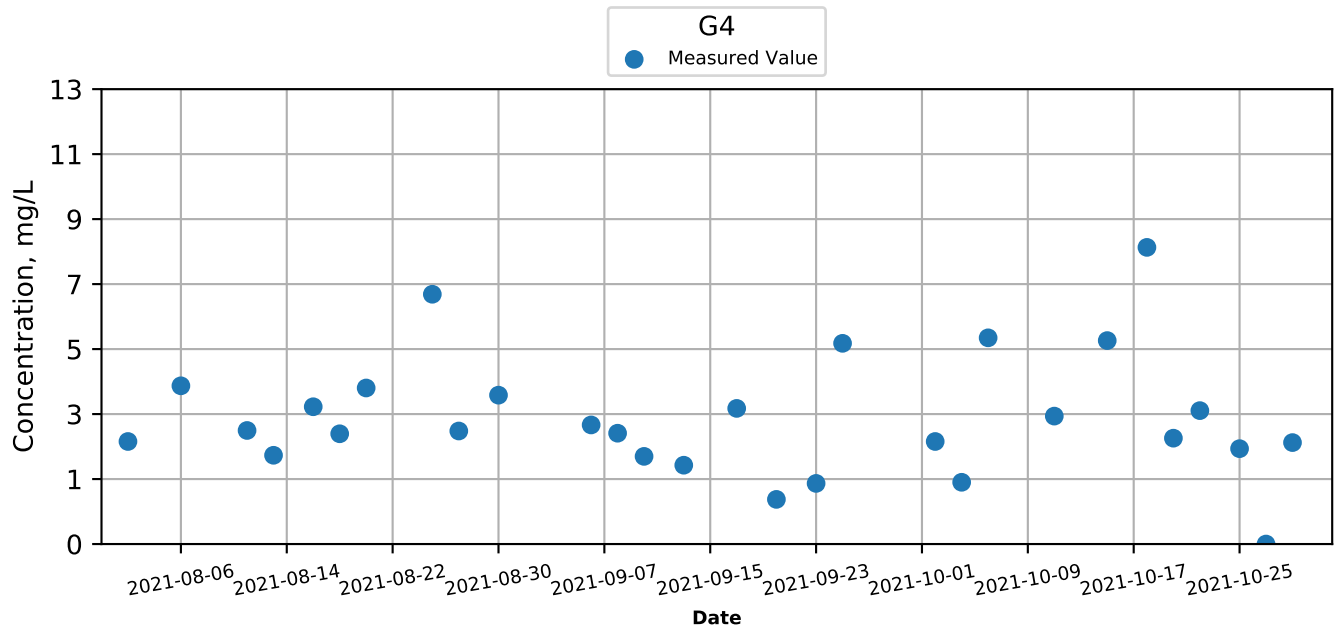
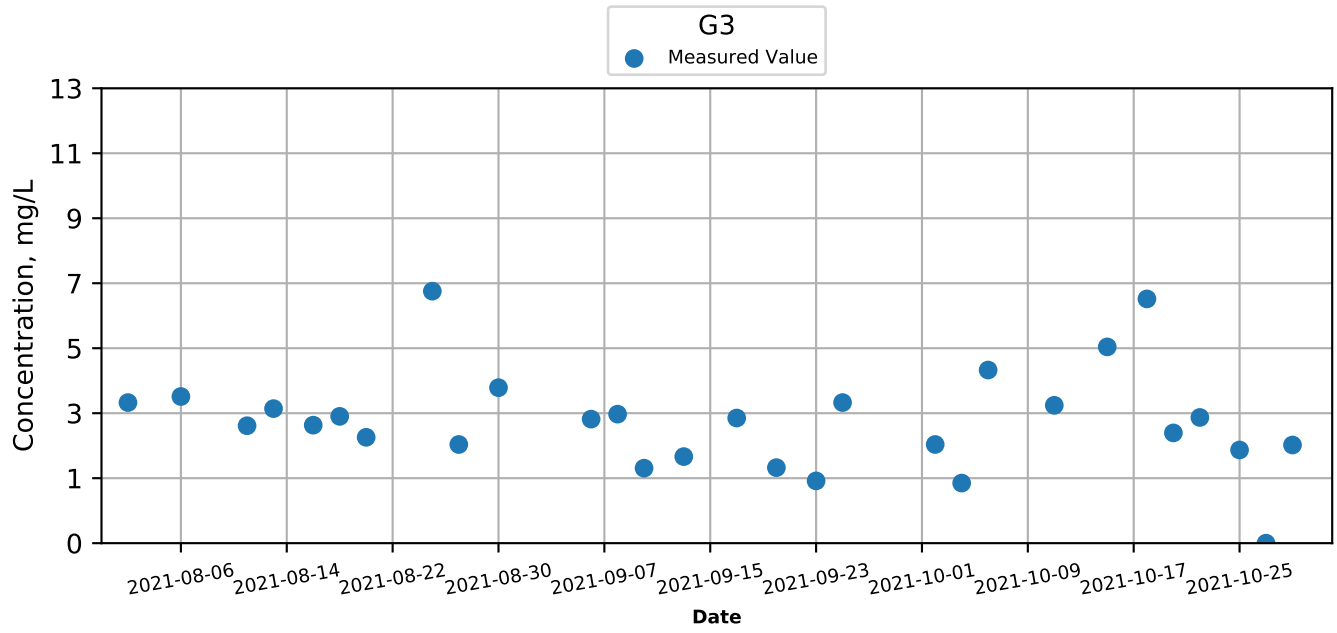
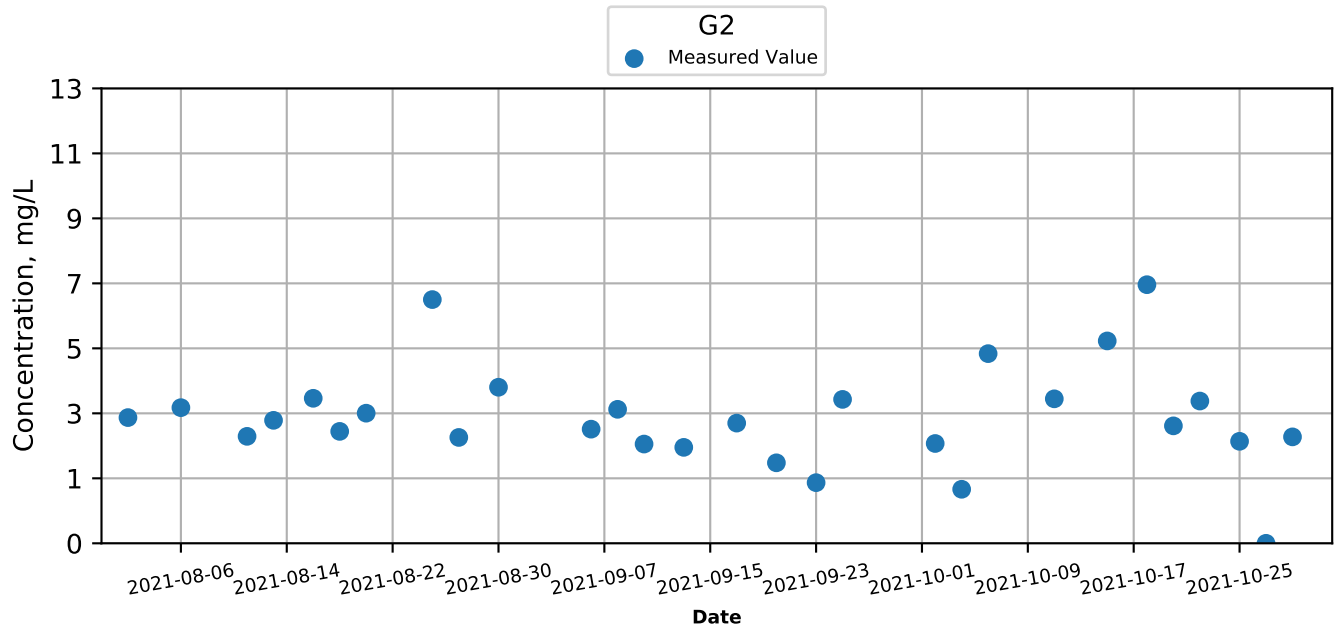
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Ebb



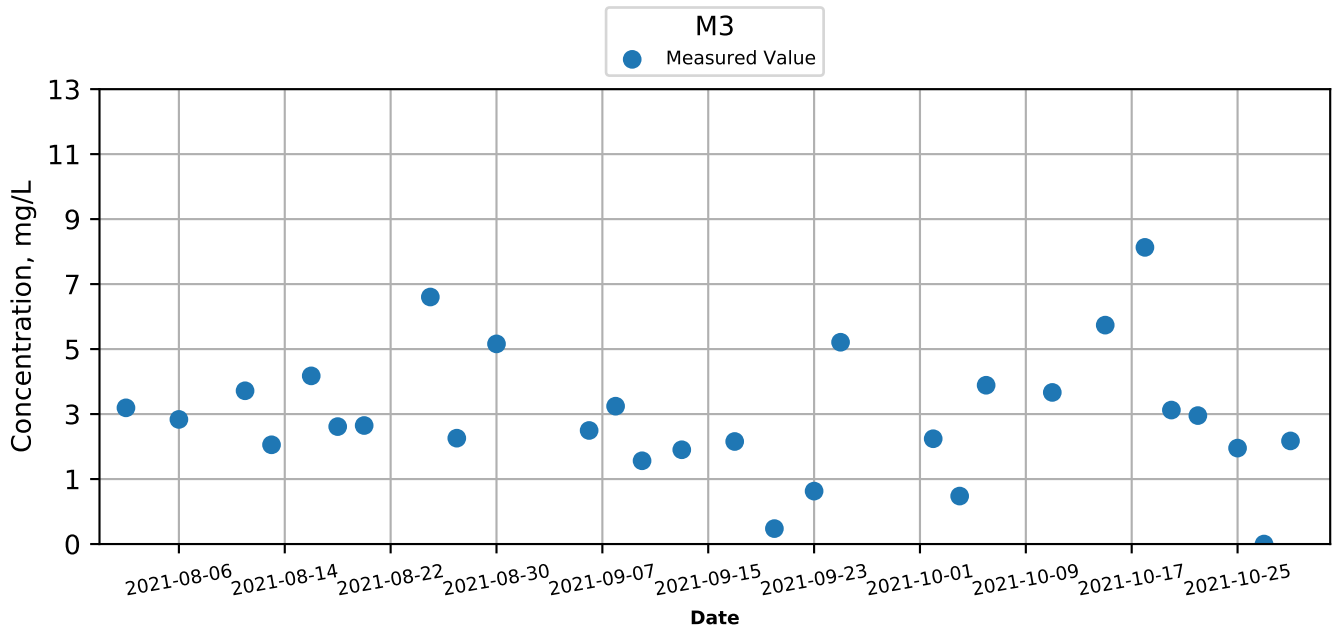
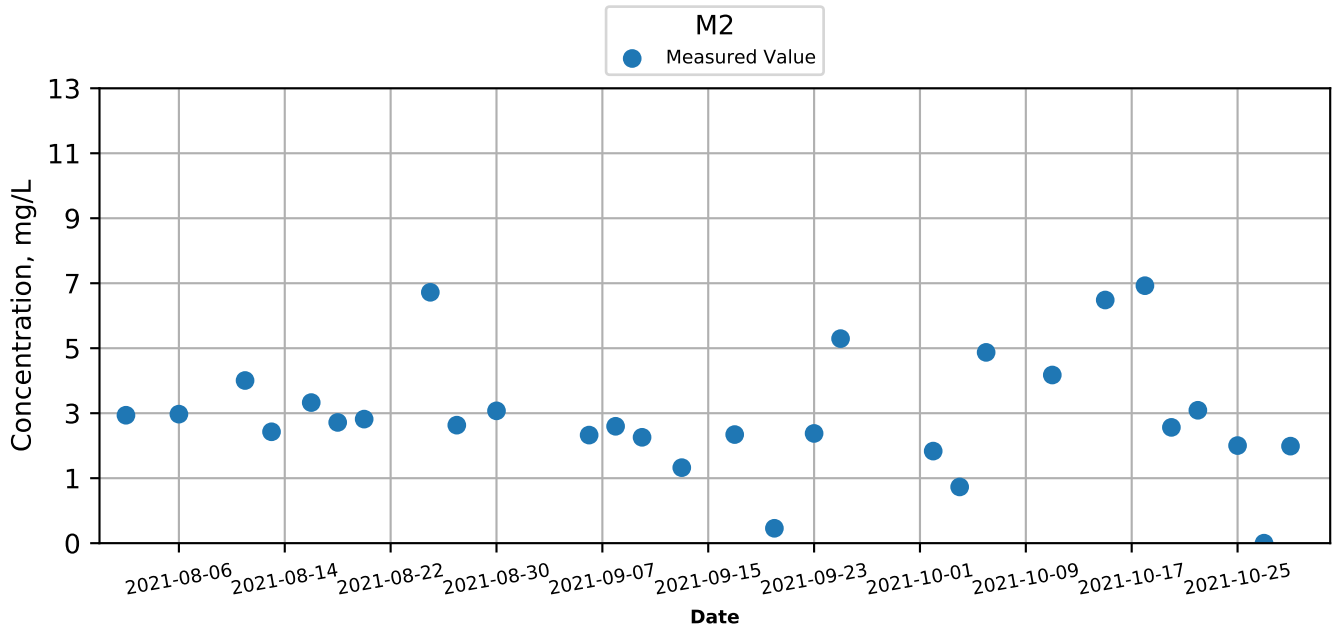
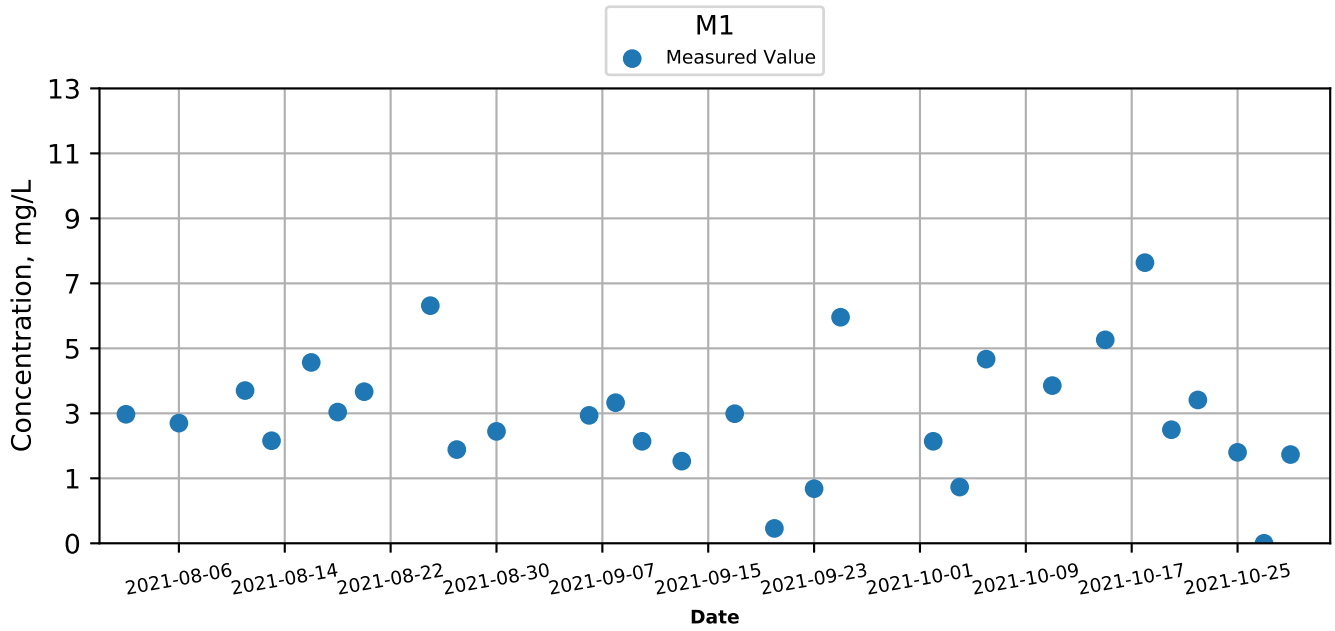
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Ebb



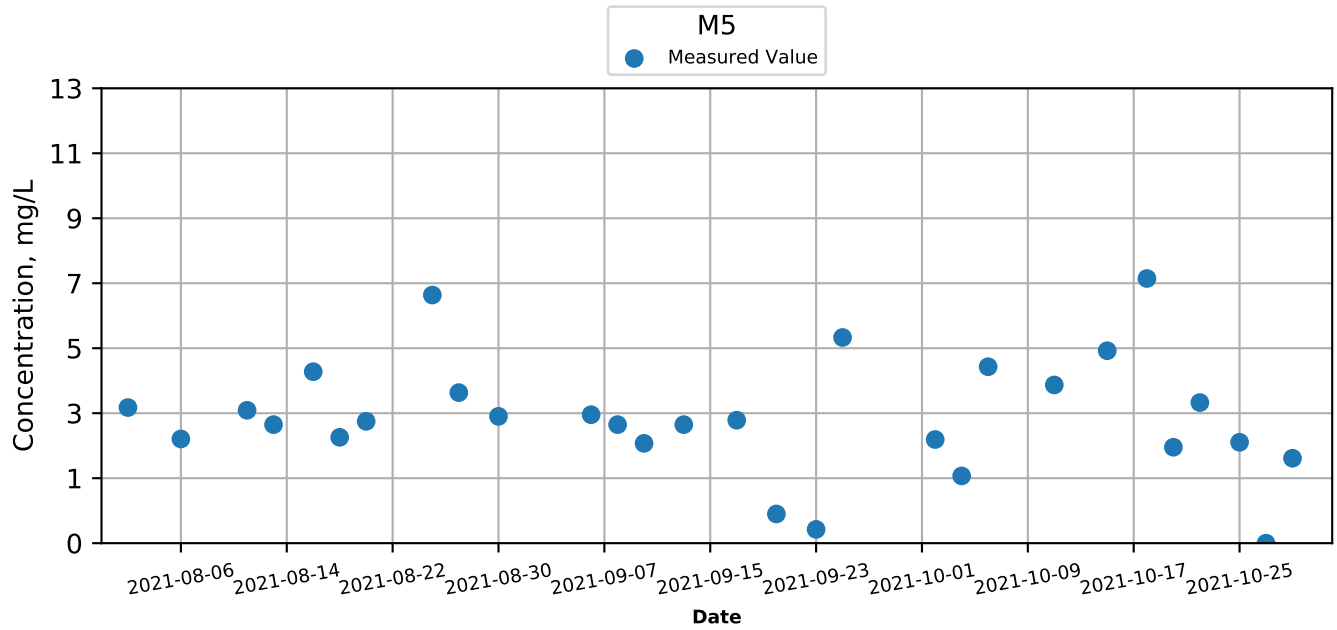
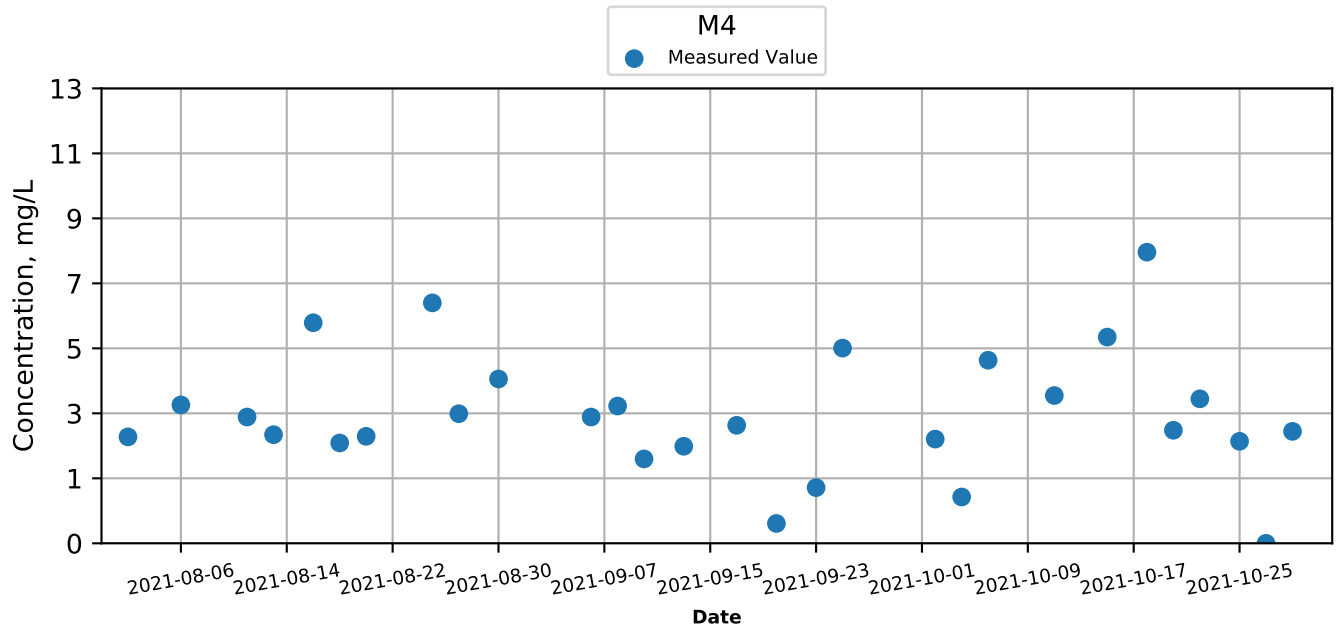
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Ebb



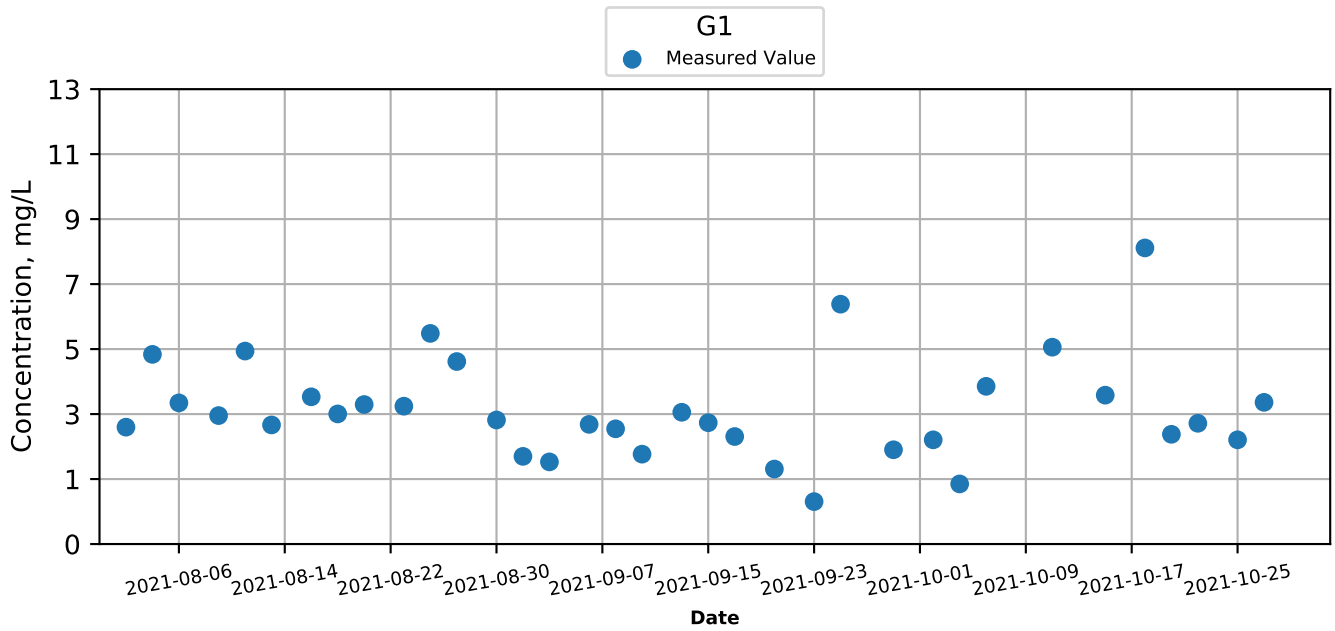
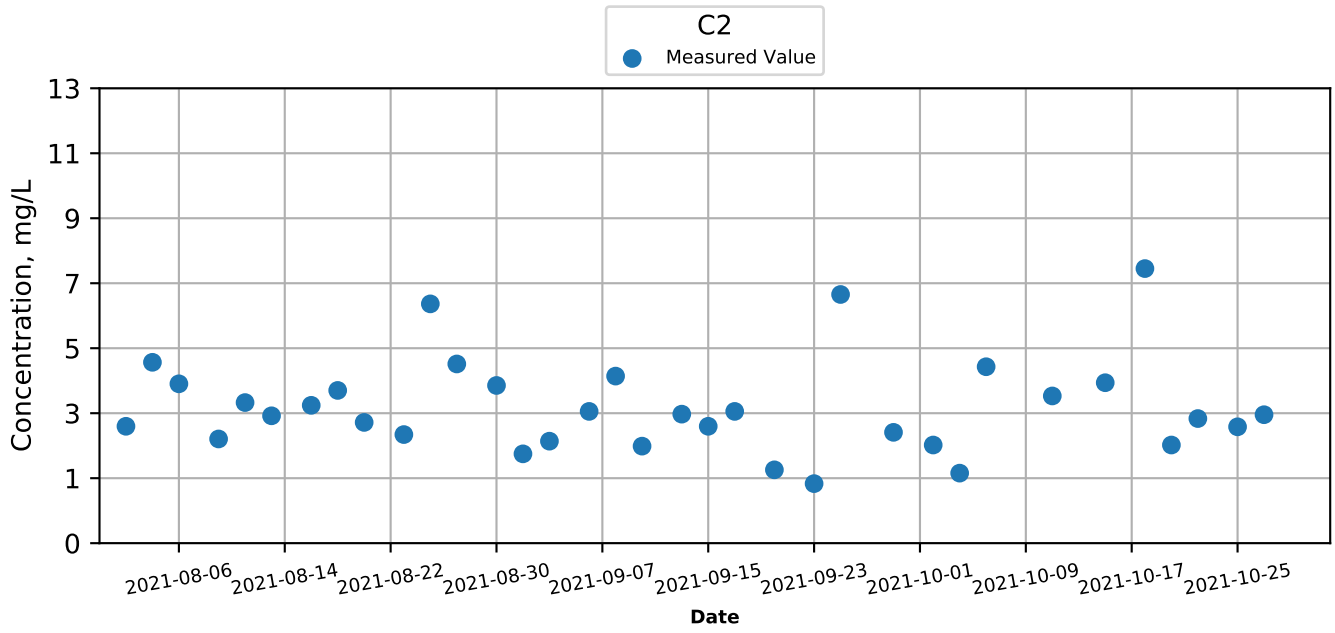
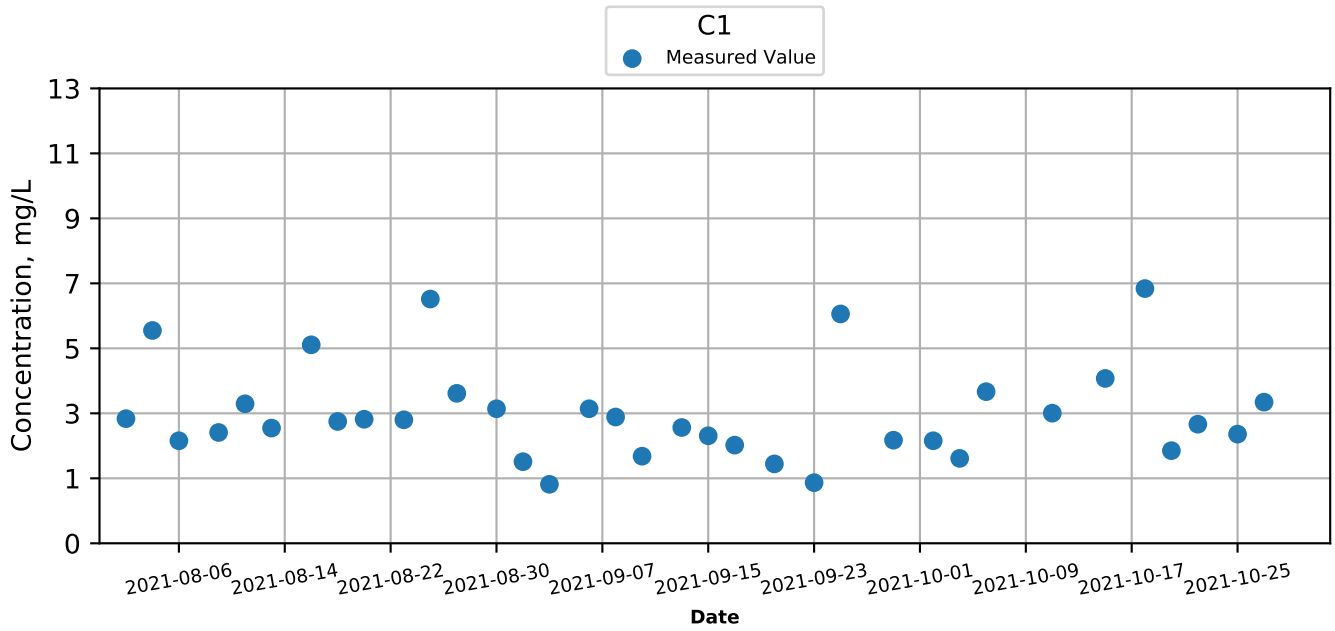
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Ebb



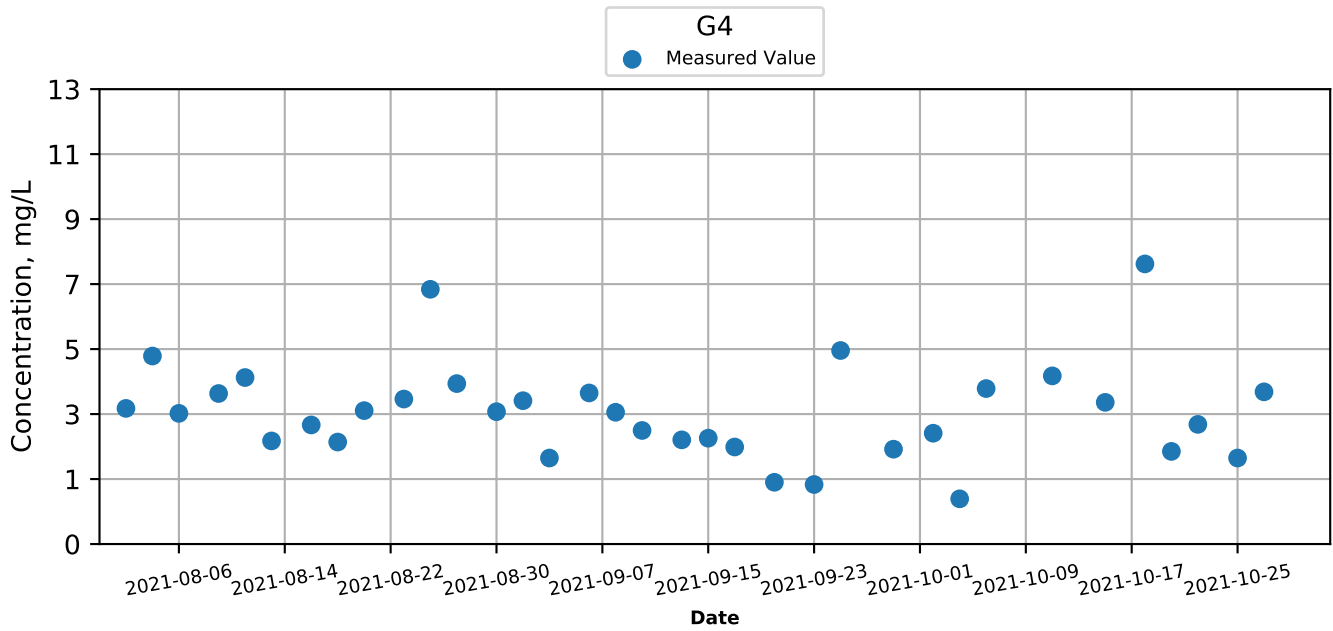
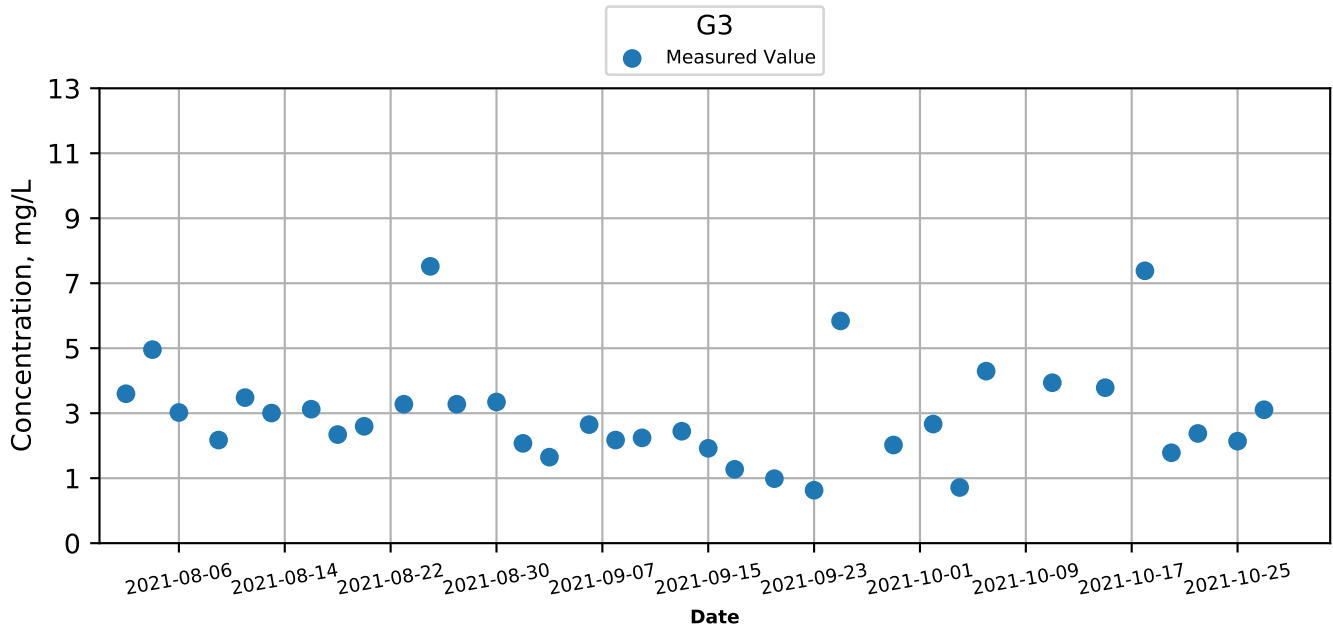
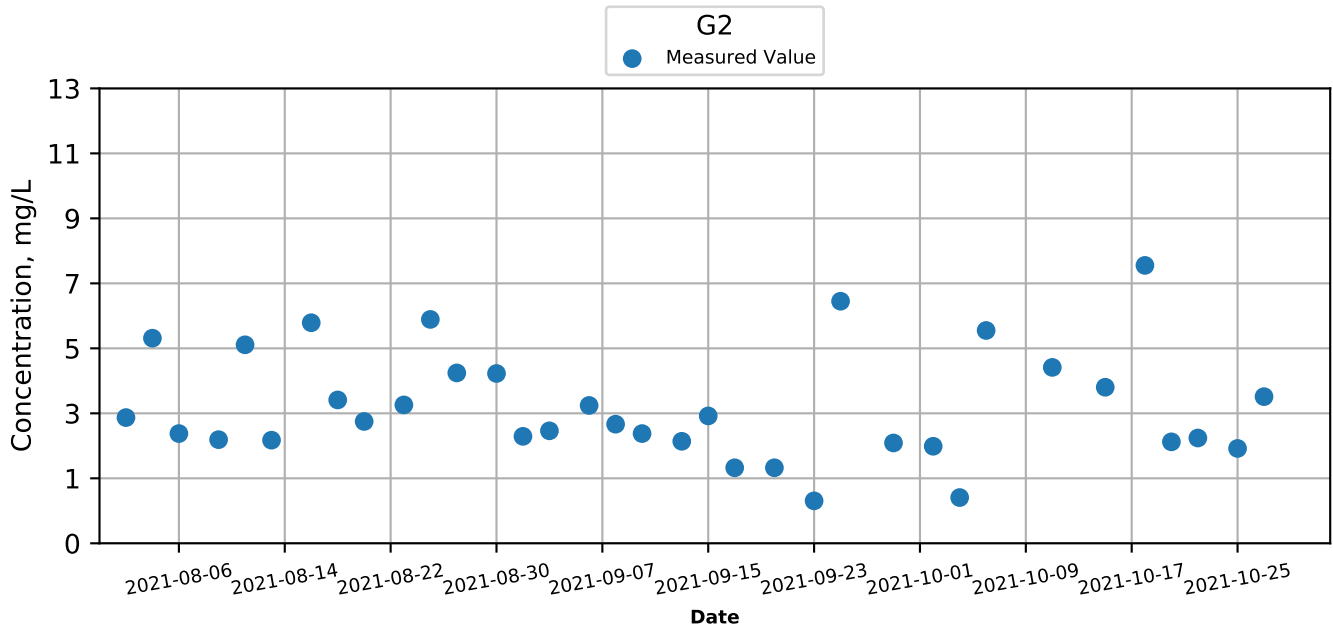
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Flood



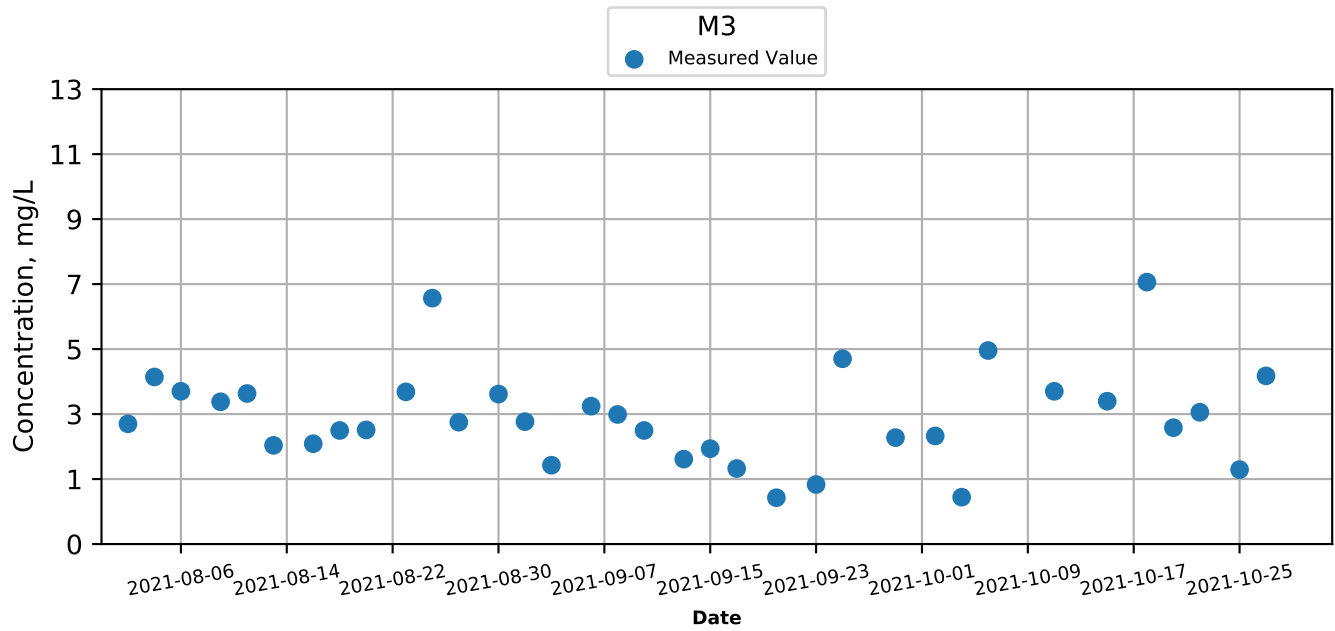
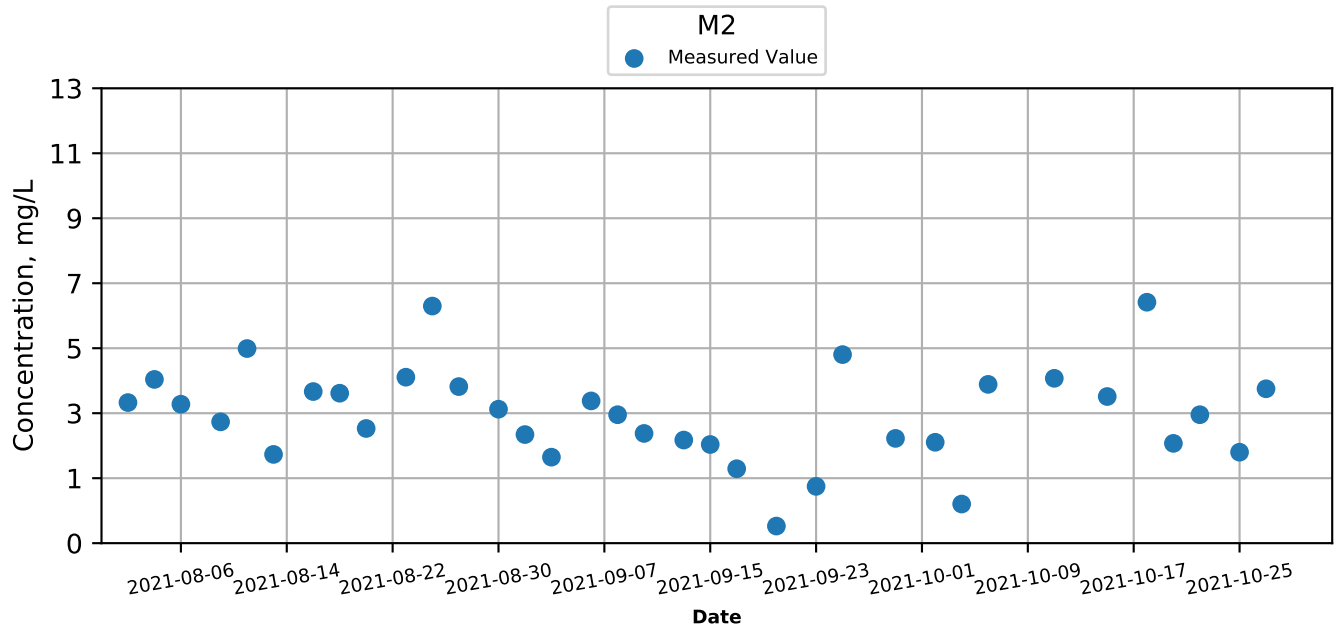
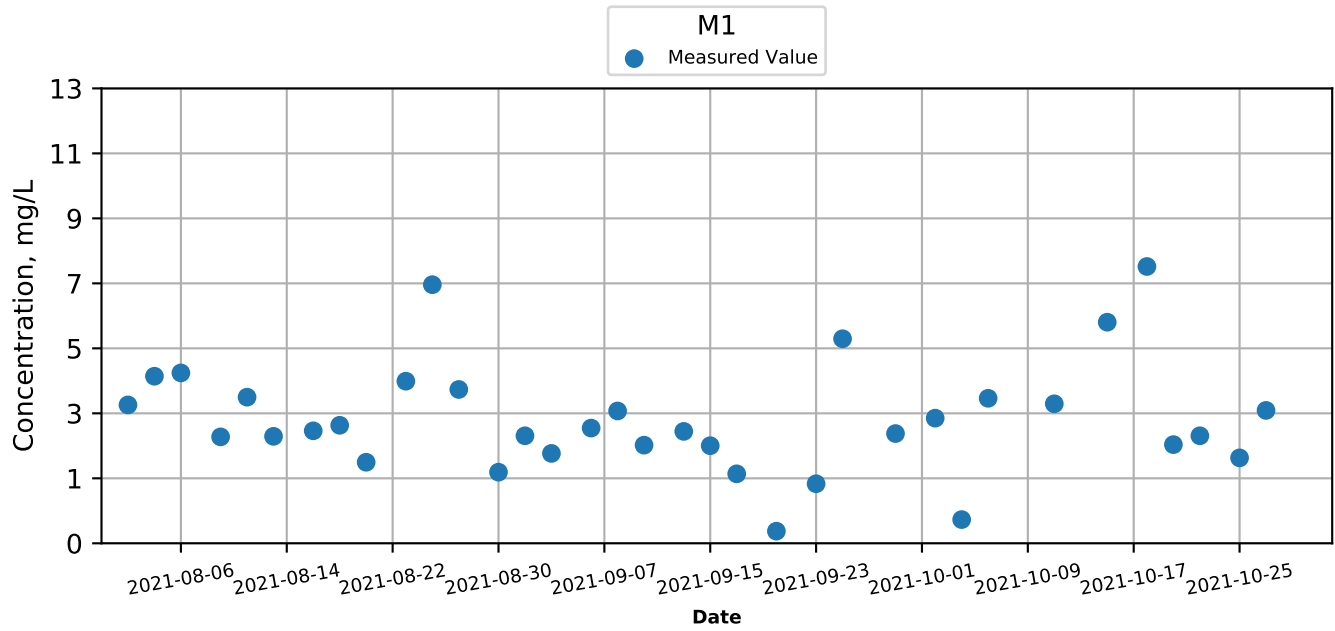
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Flood



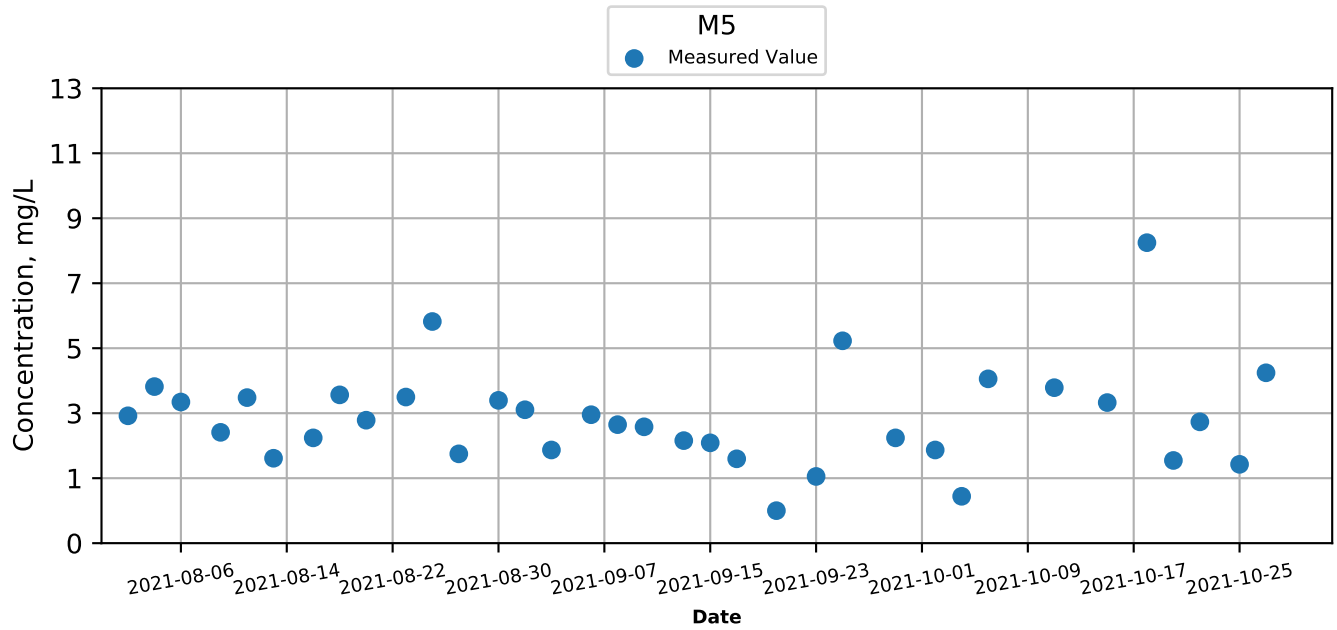
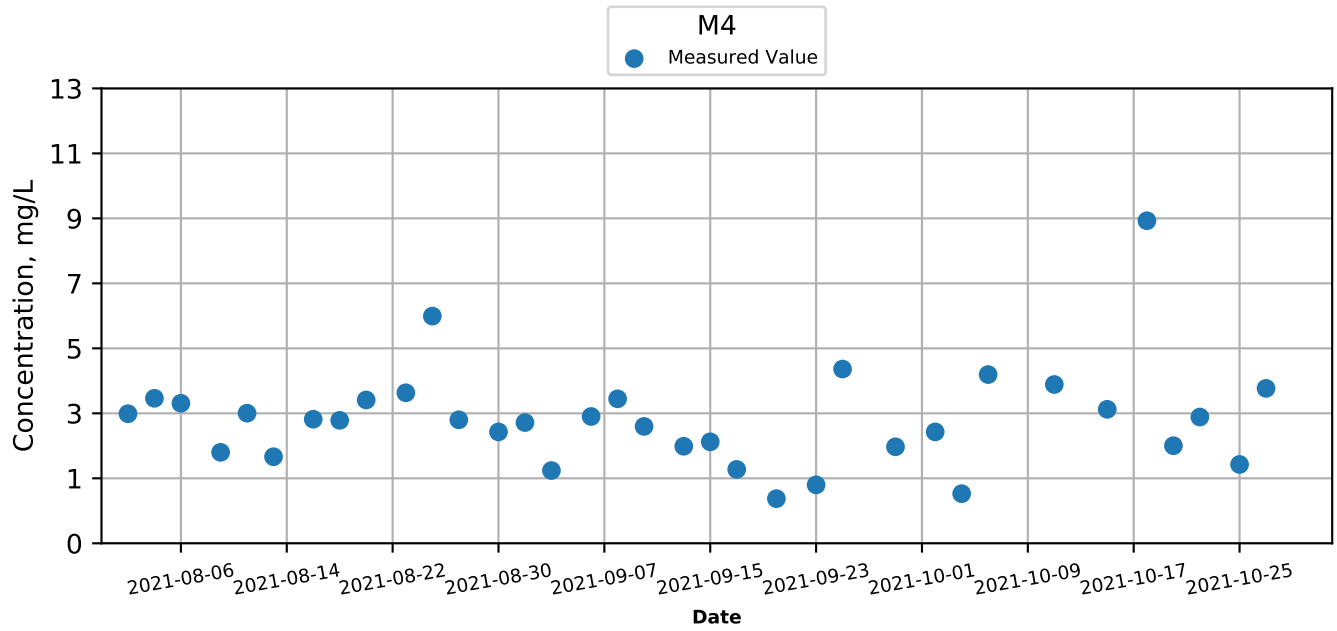
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Flood



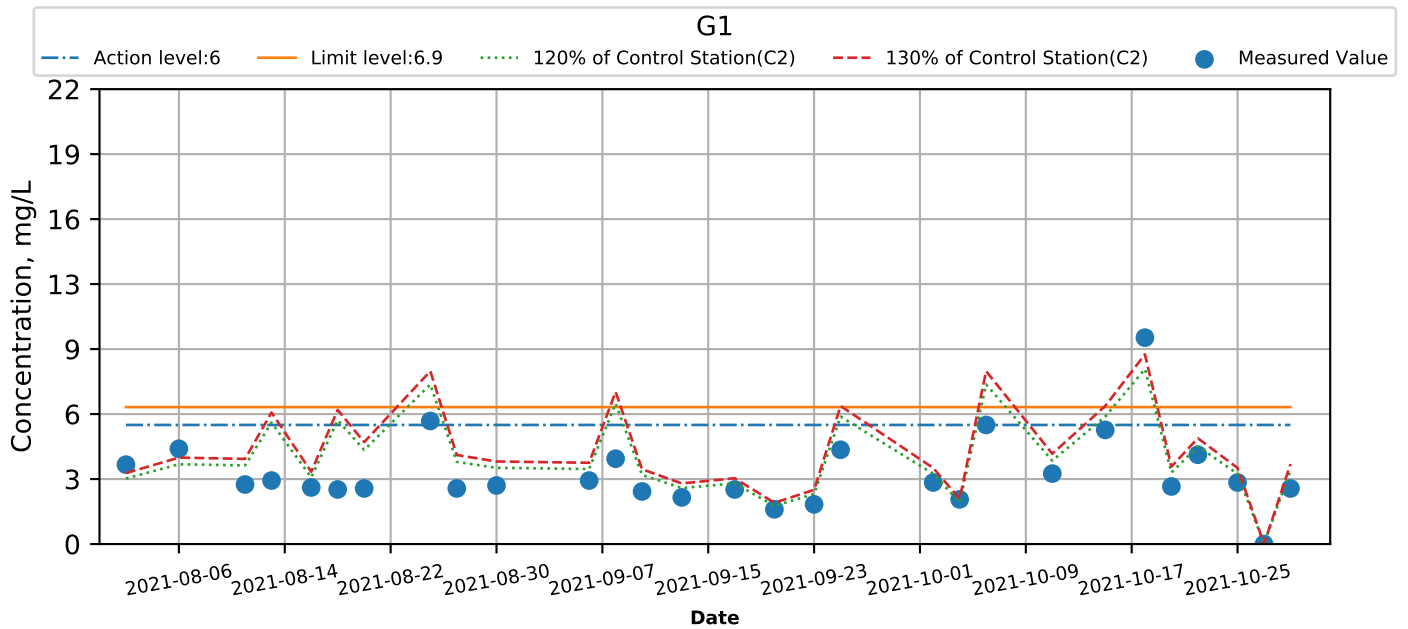
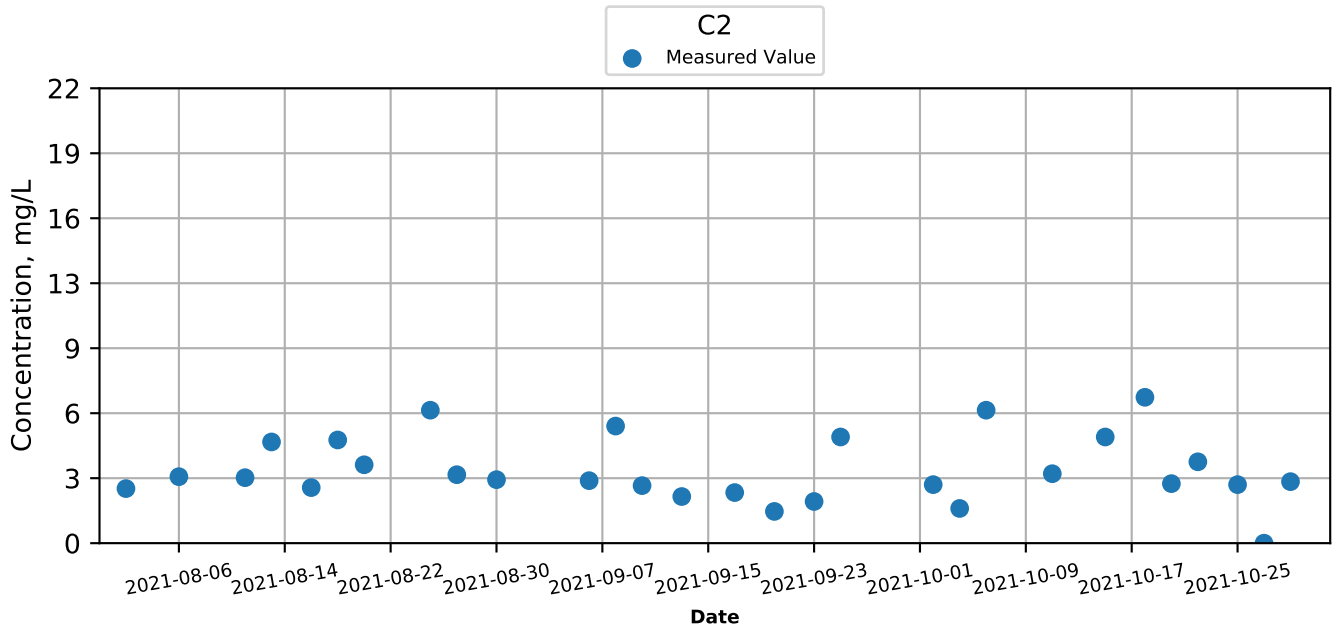
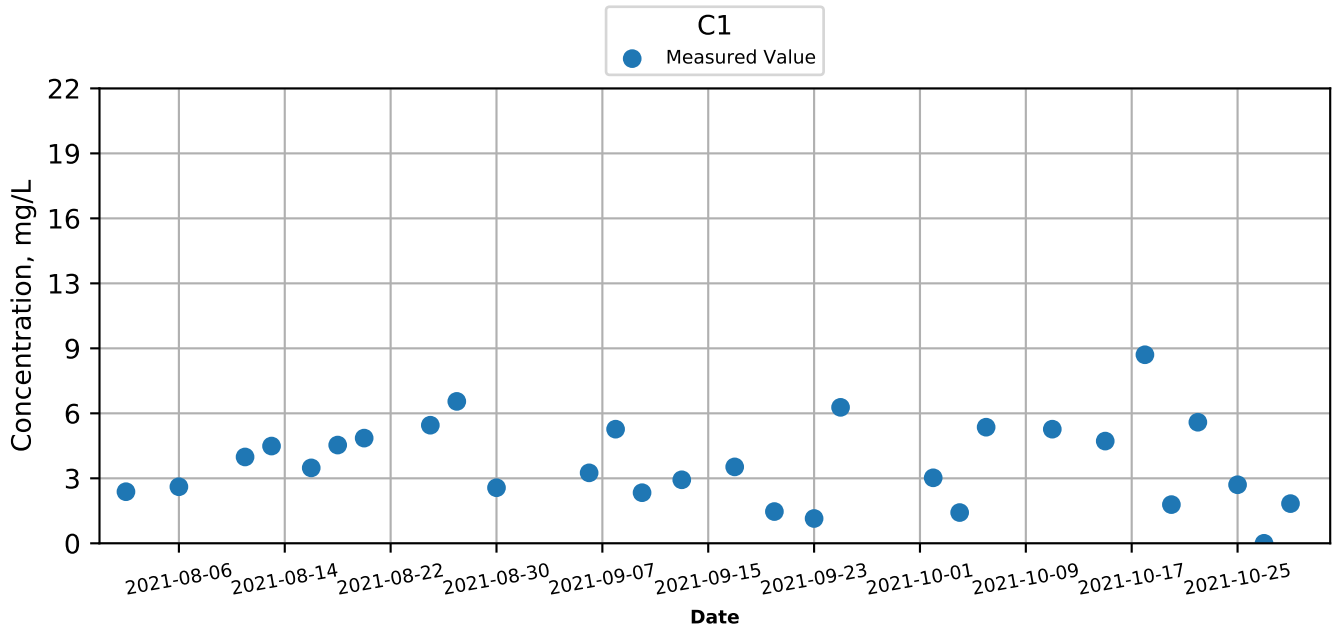
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Depth-Averaged) at Monitoring Stations during Mid-Flood



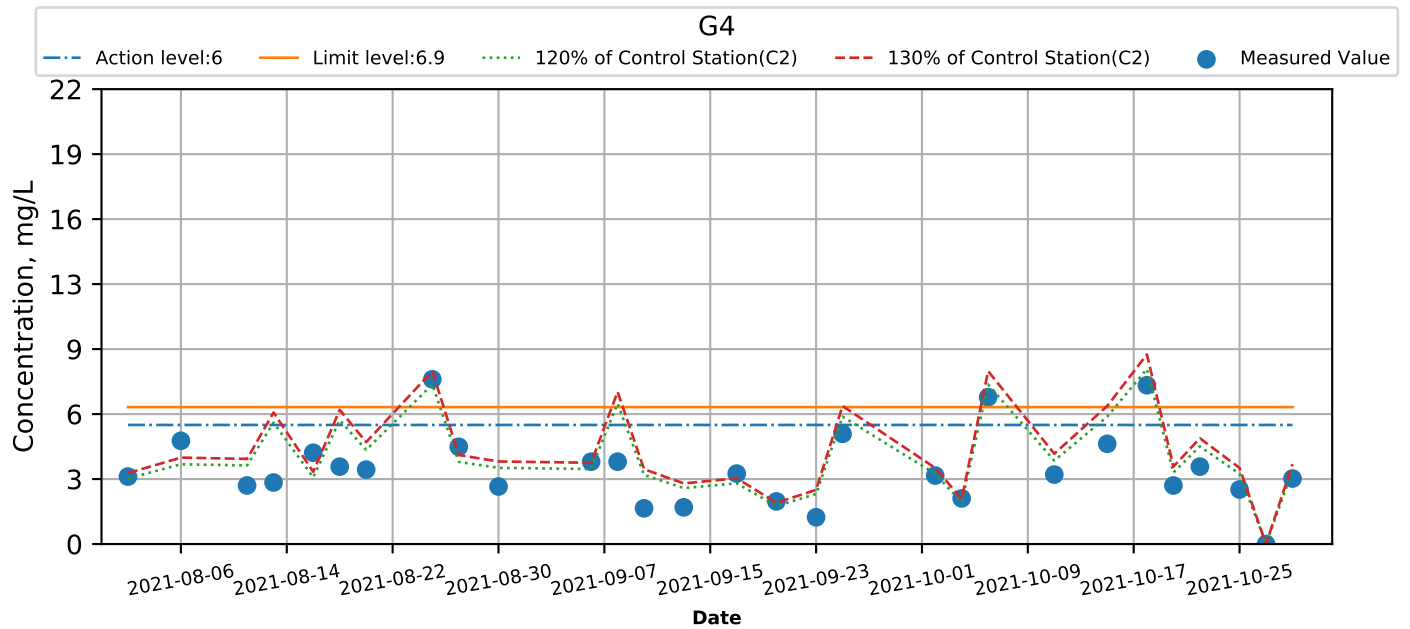
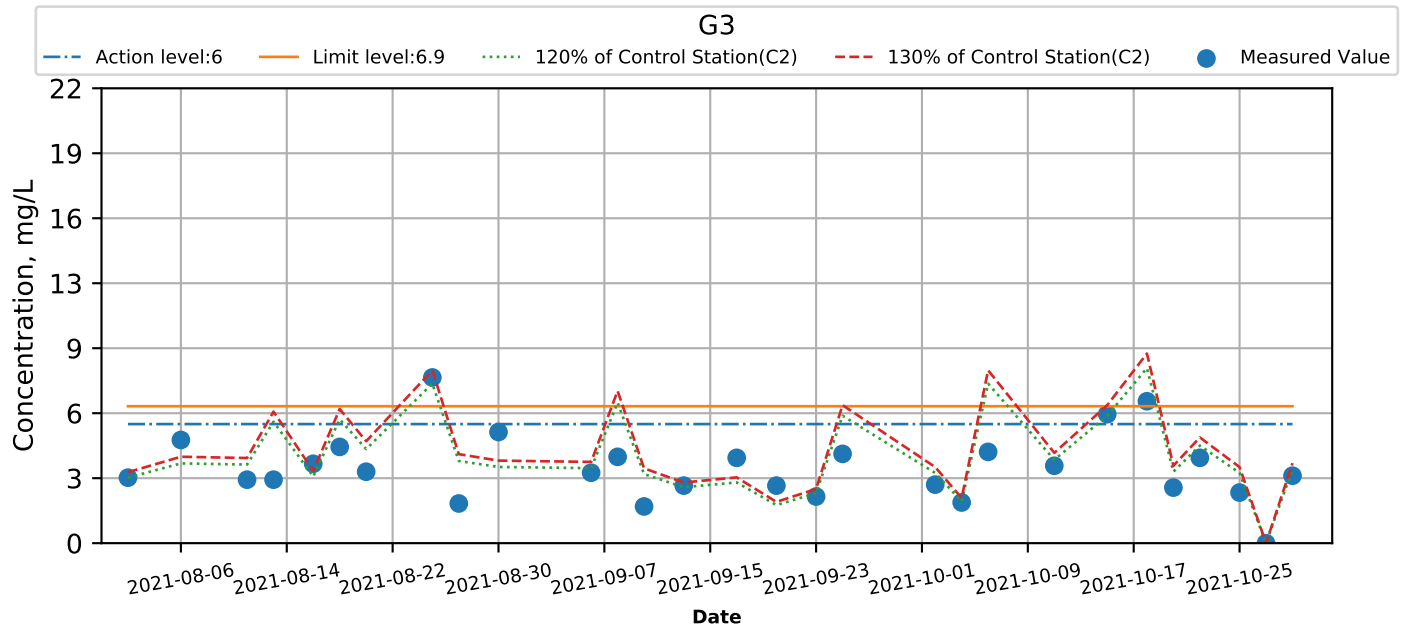
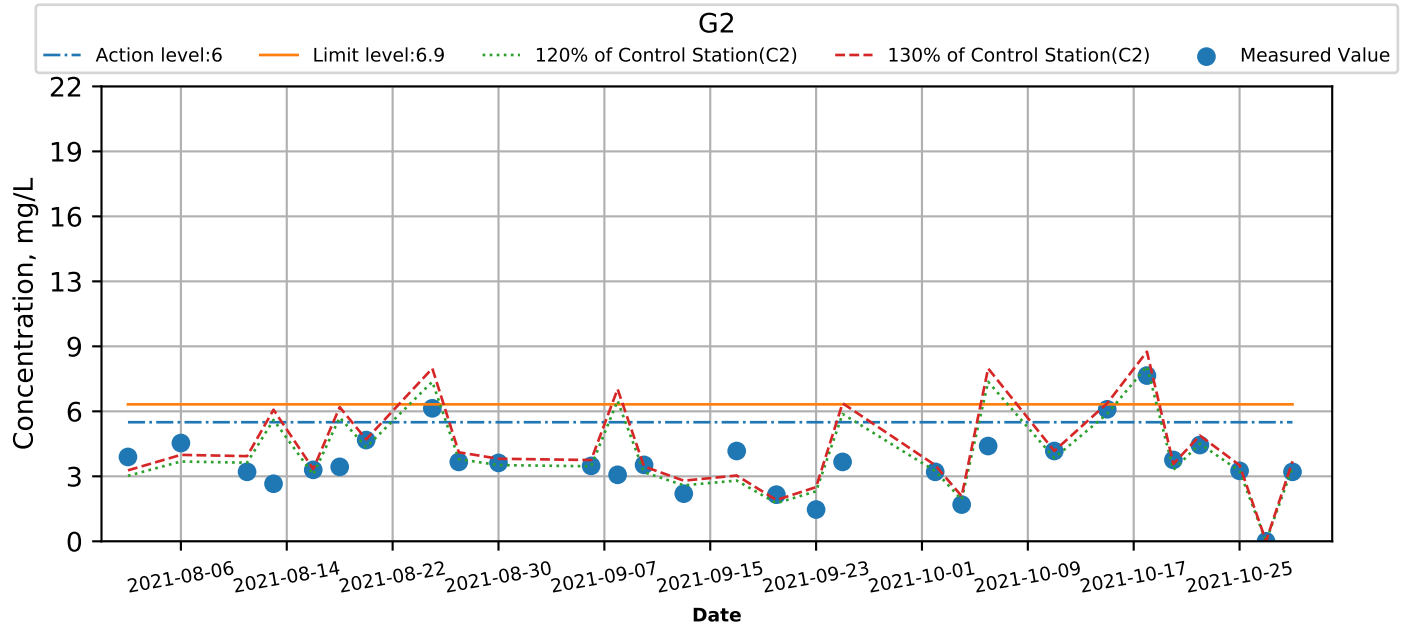
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Ebb



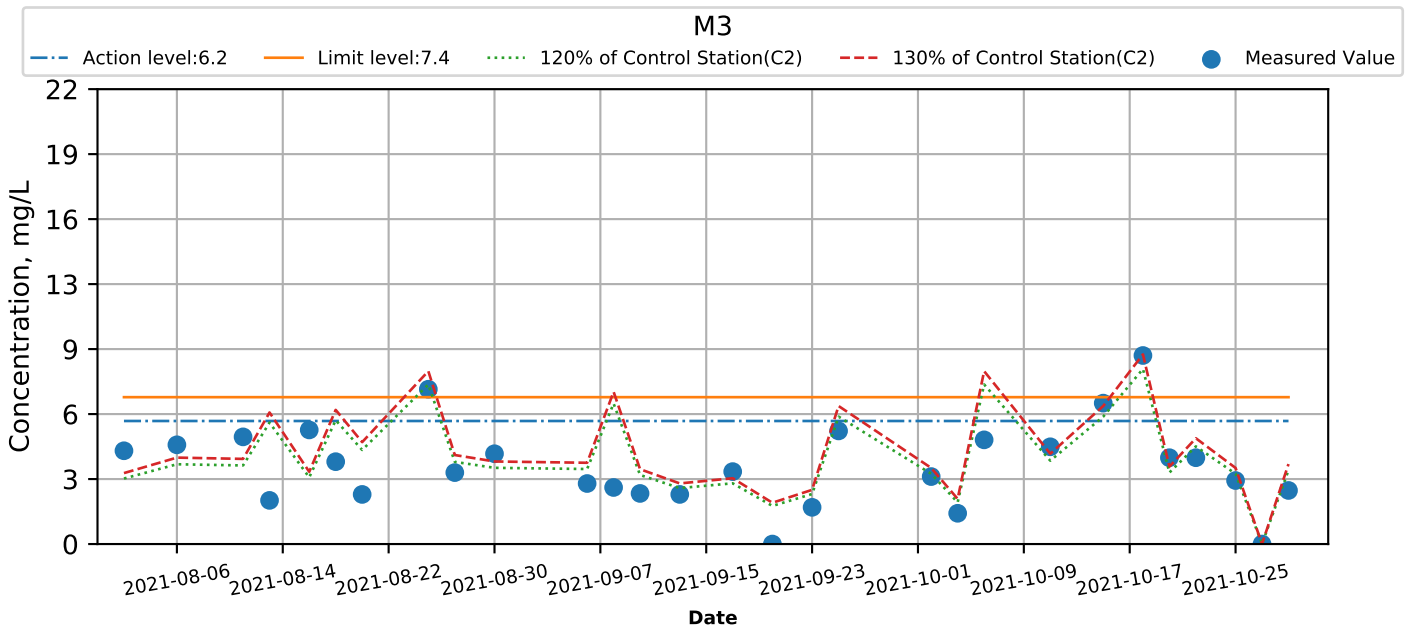
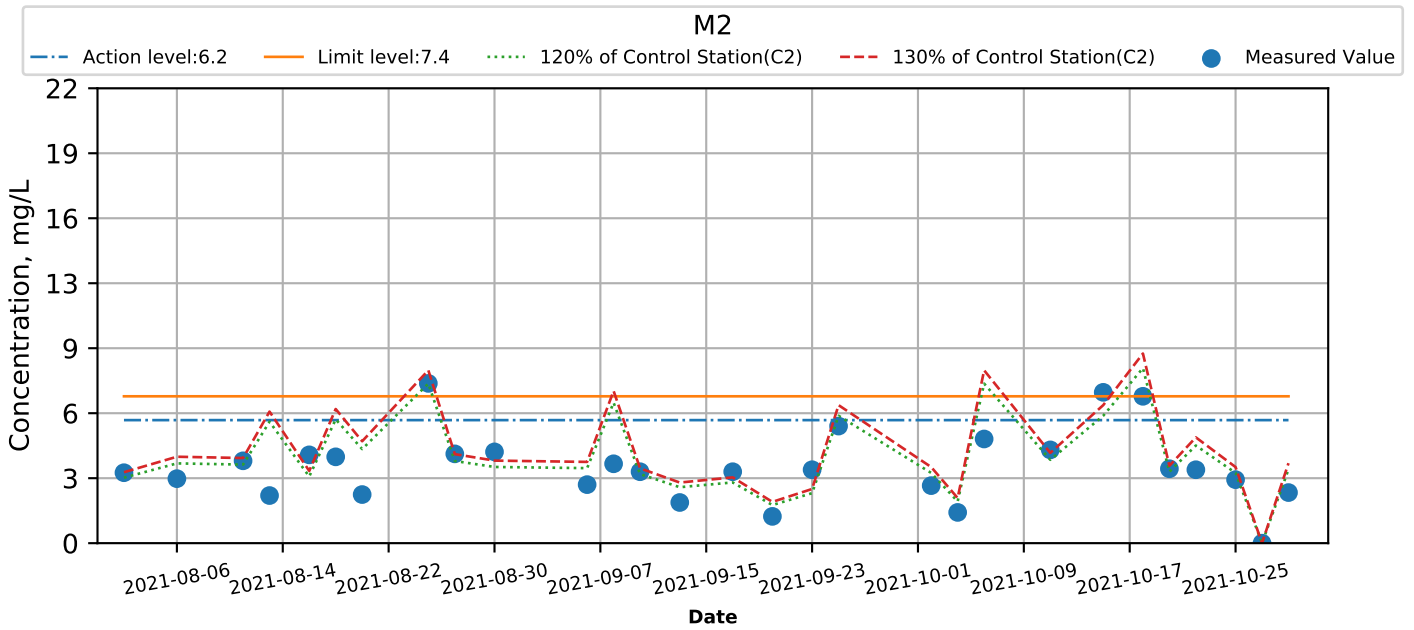
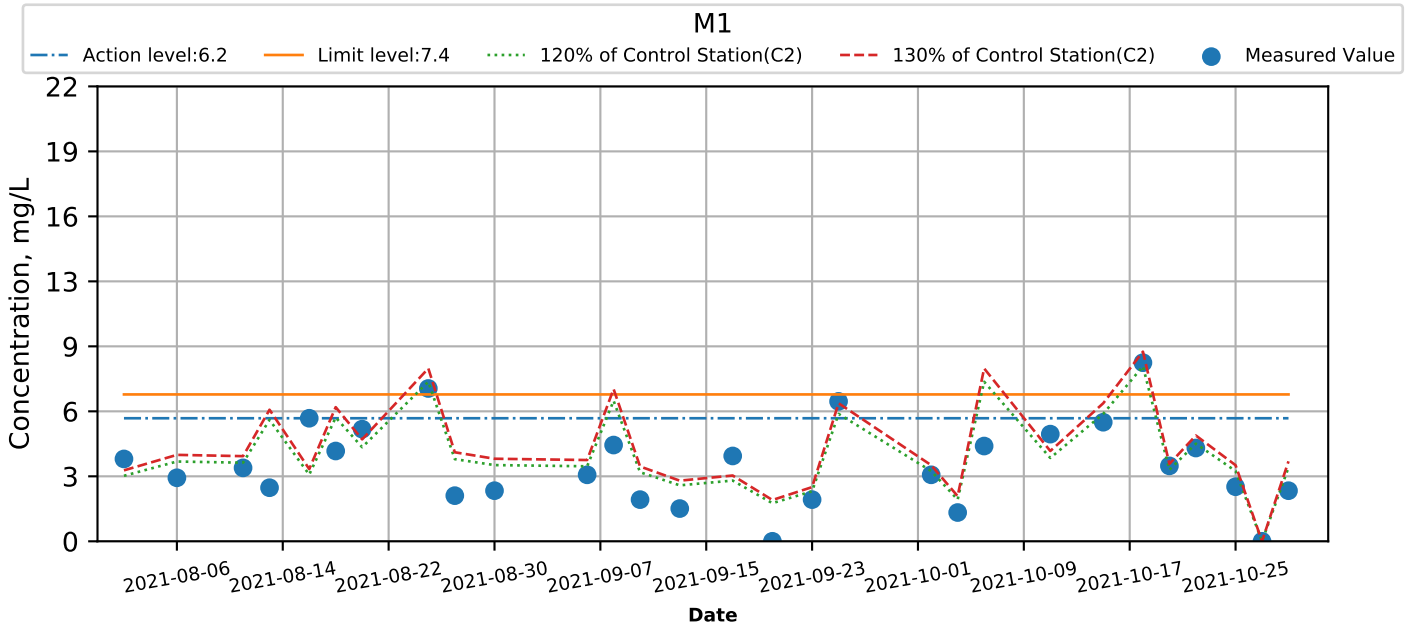
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Ebb



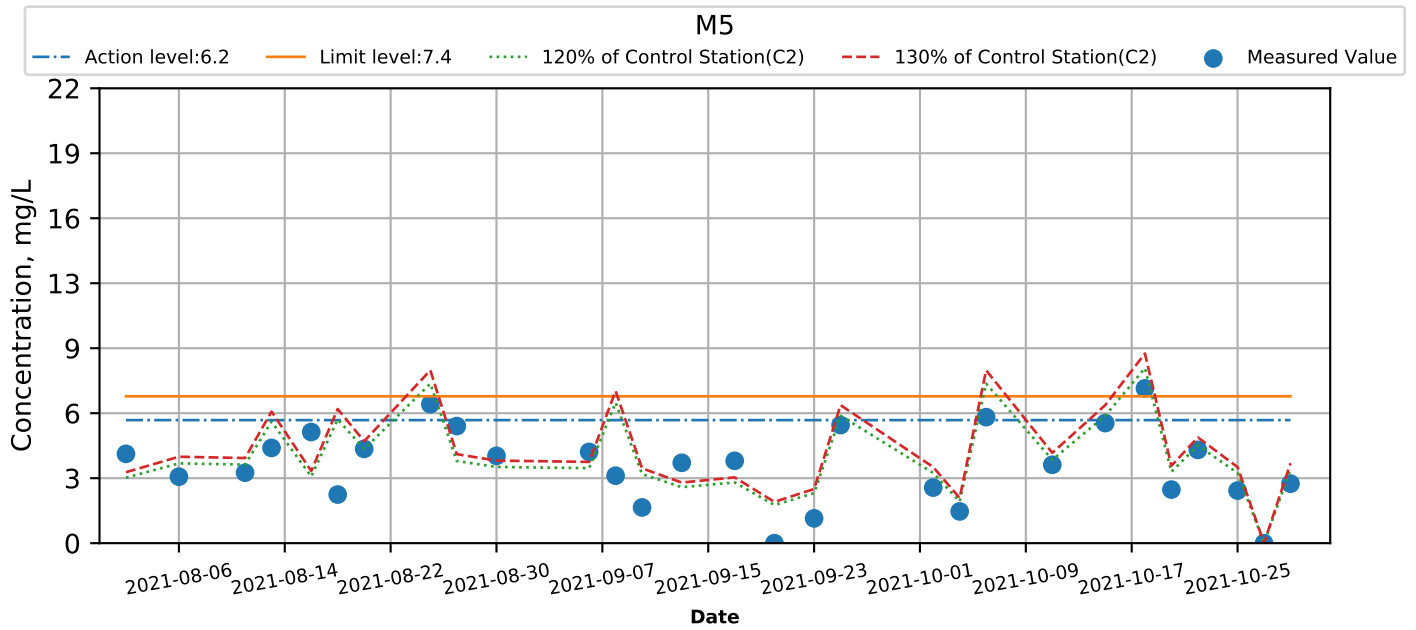
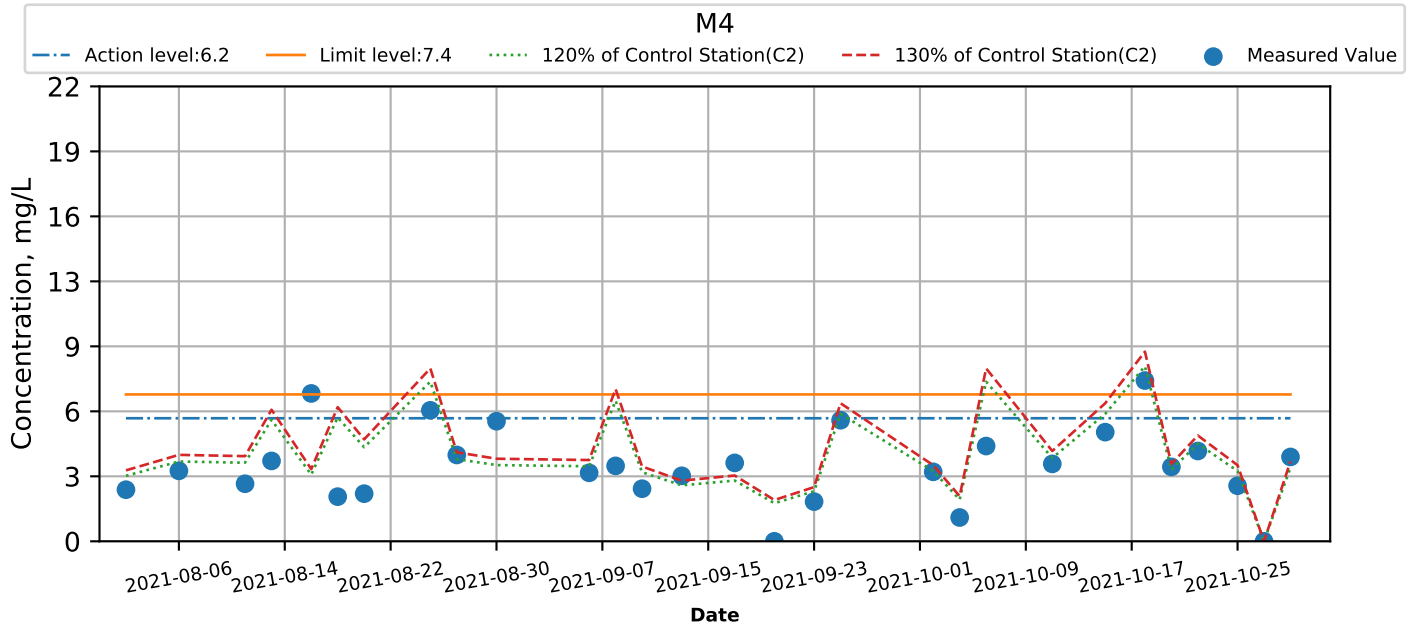
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Ebb



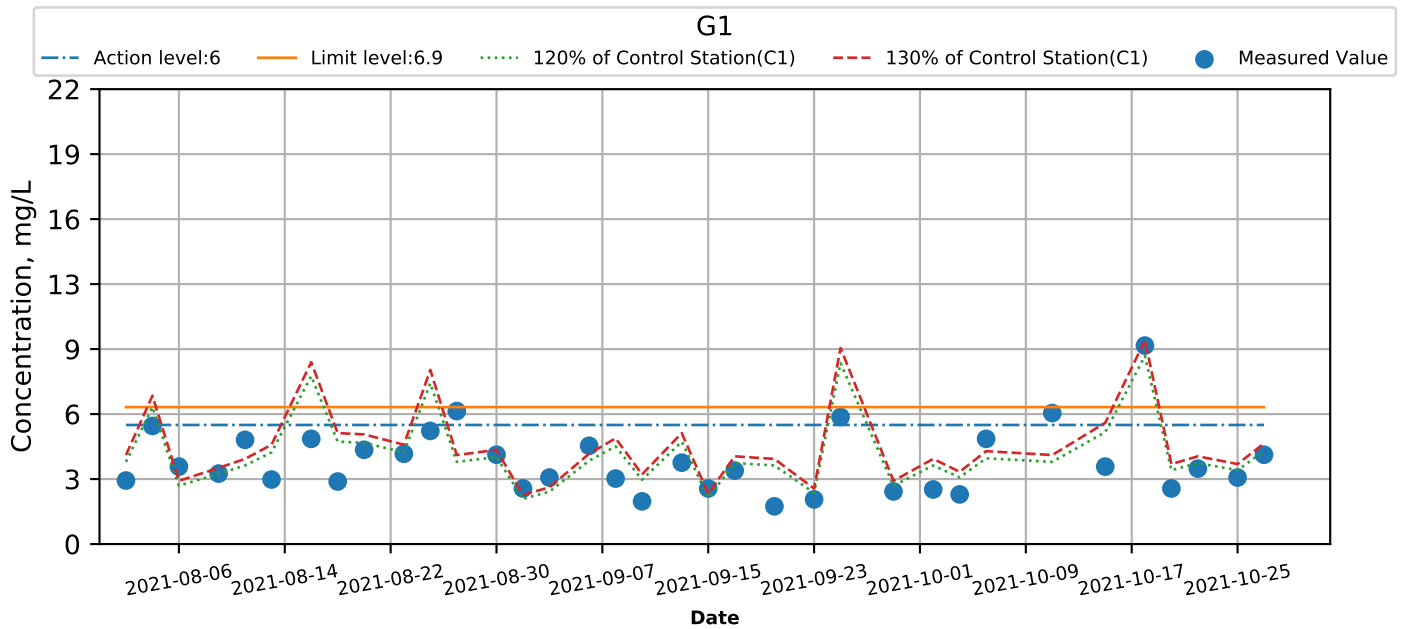
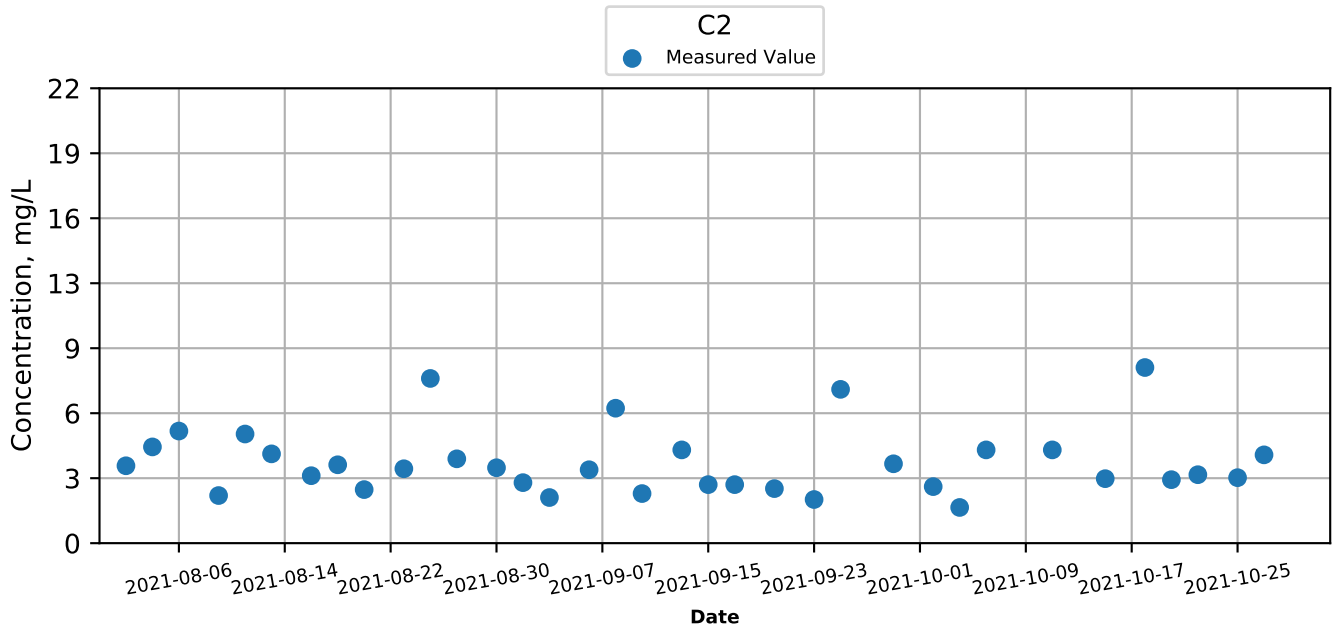
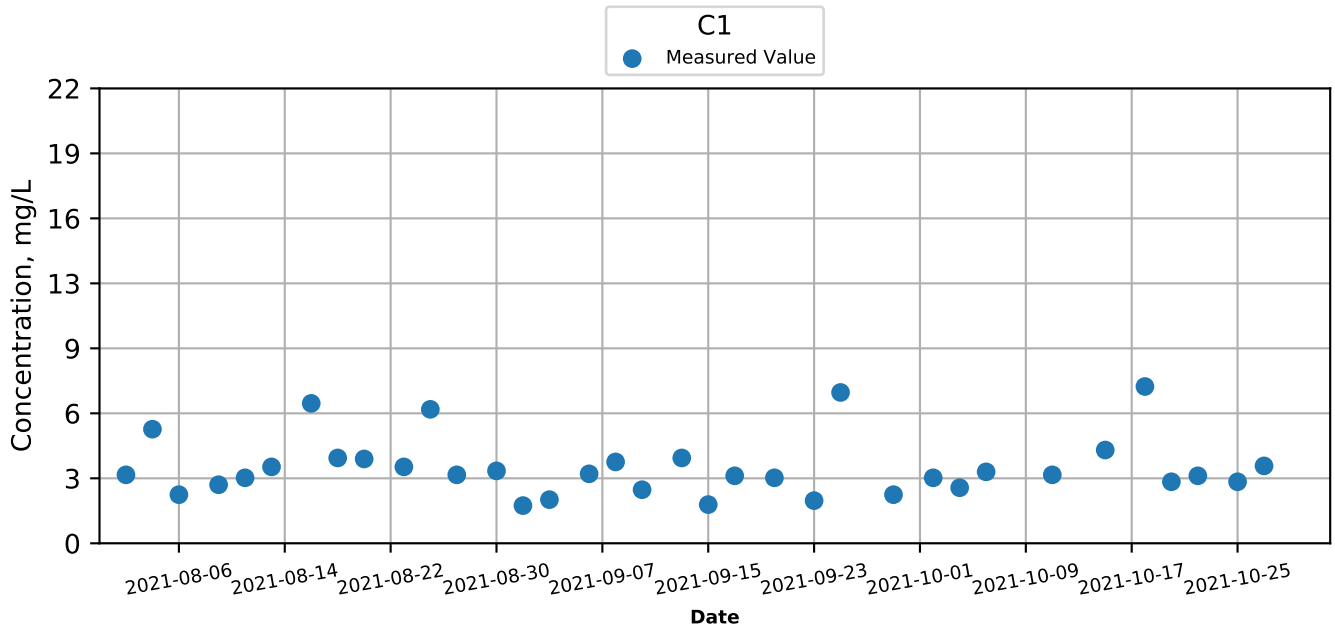
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Ebb



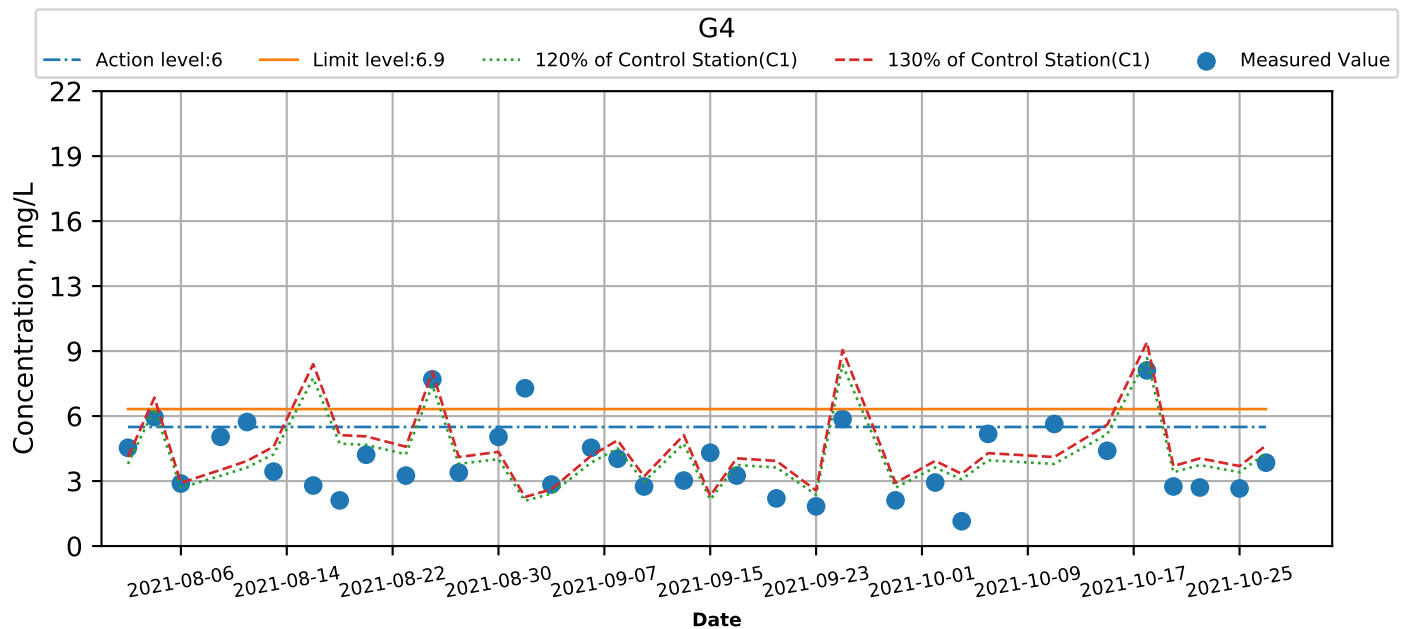
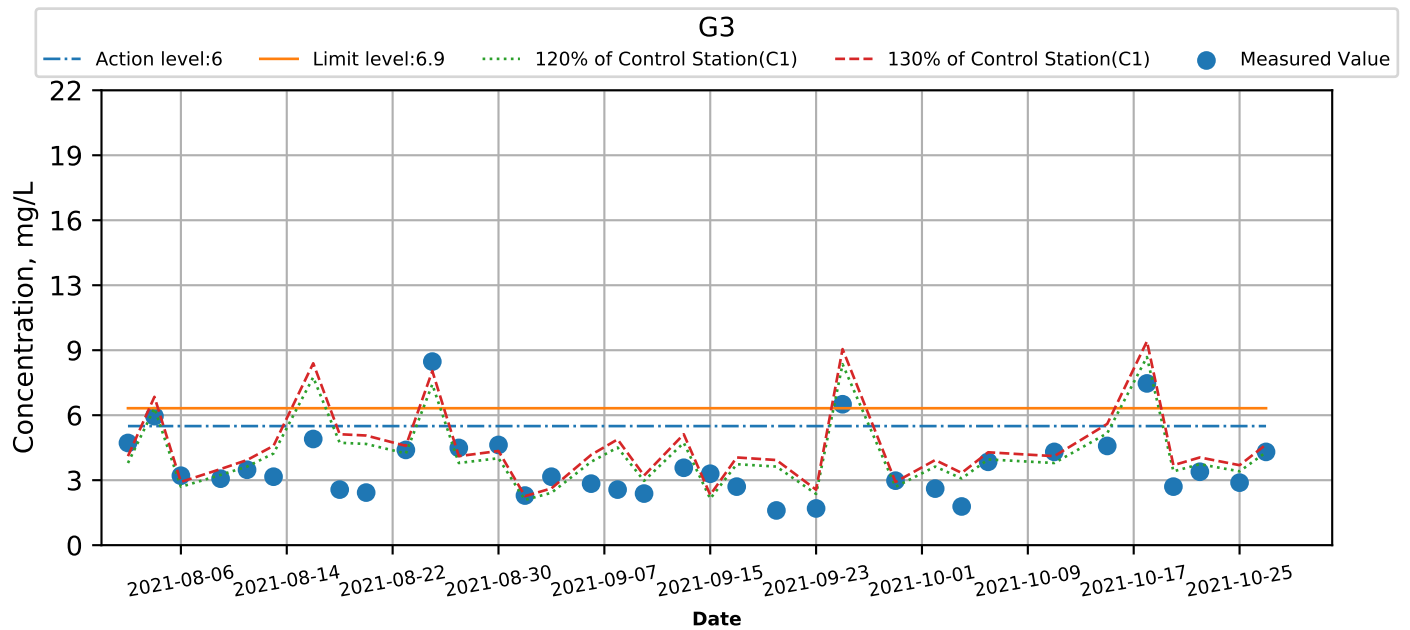
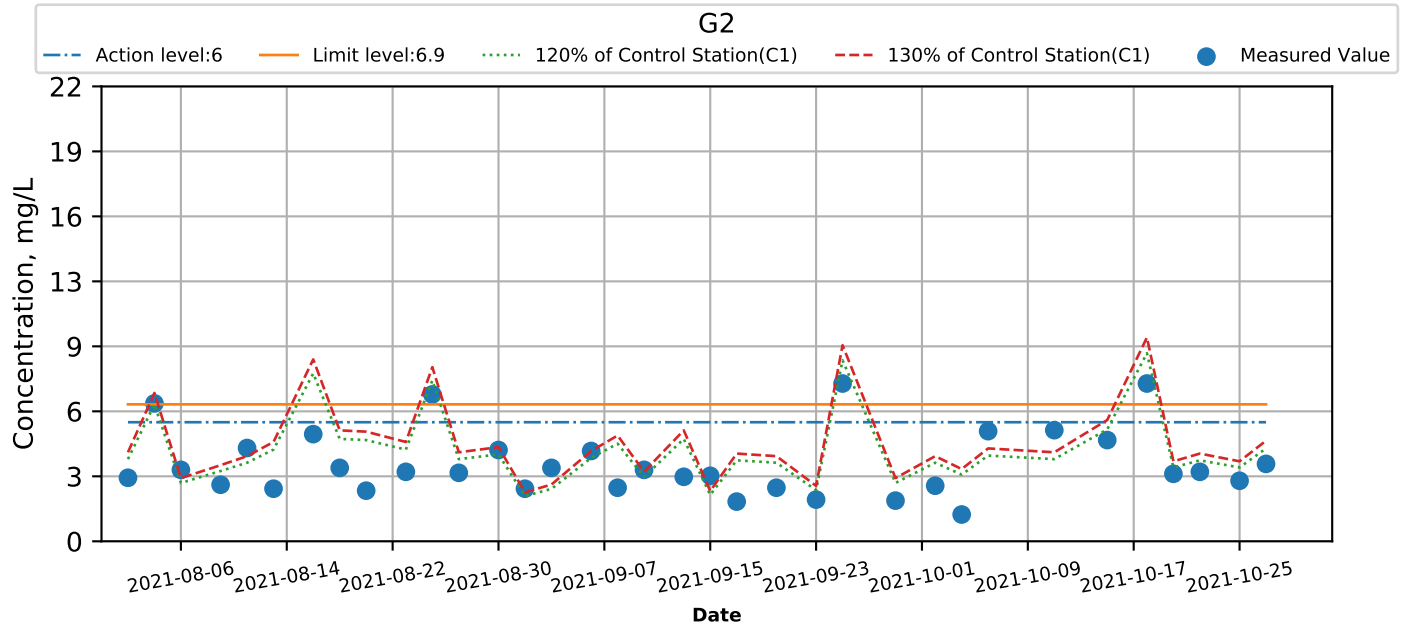
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Flood



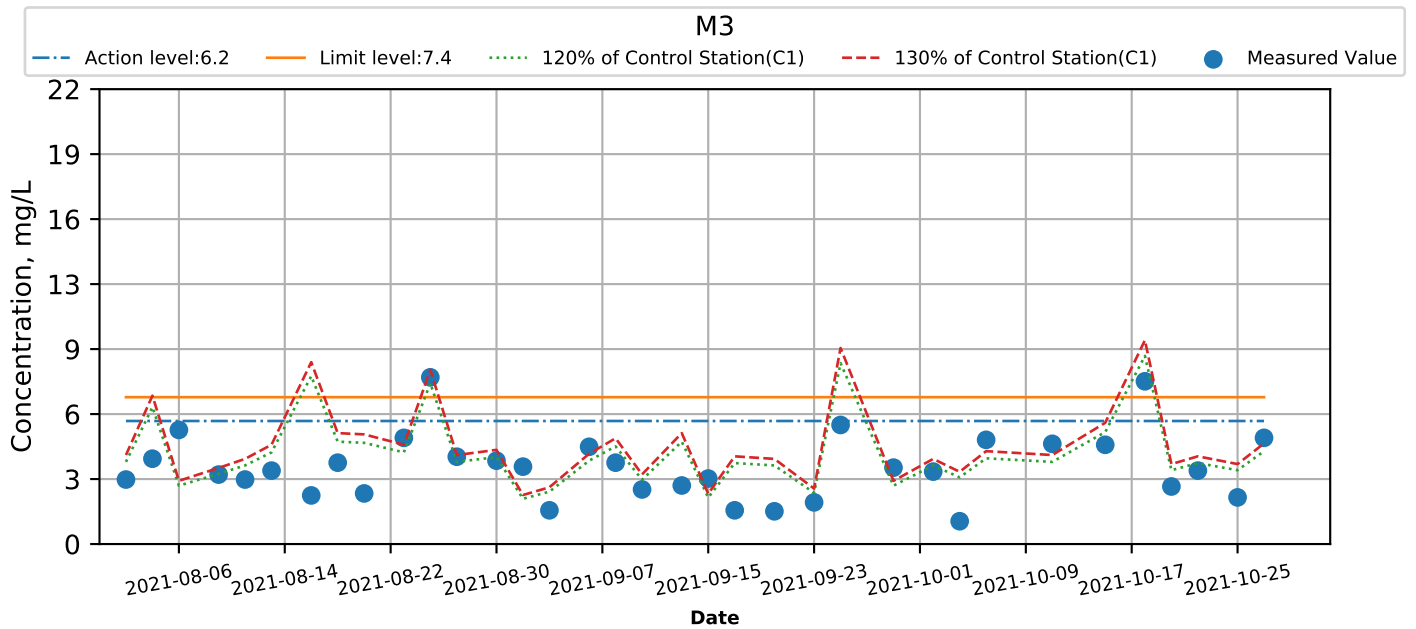
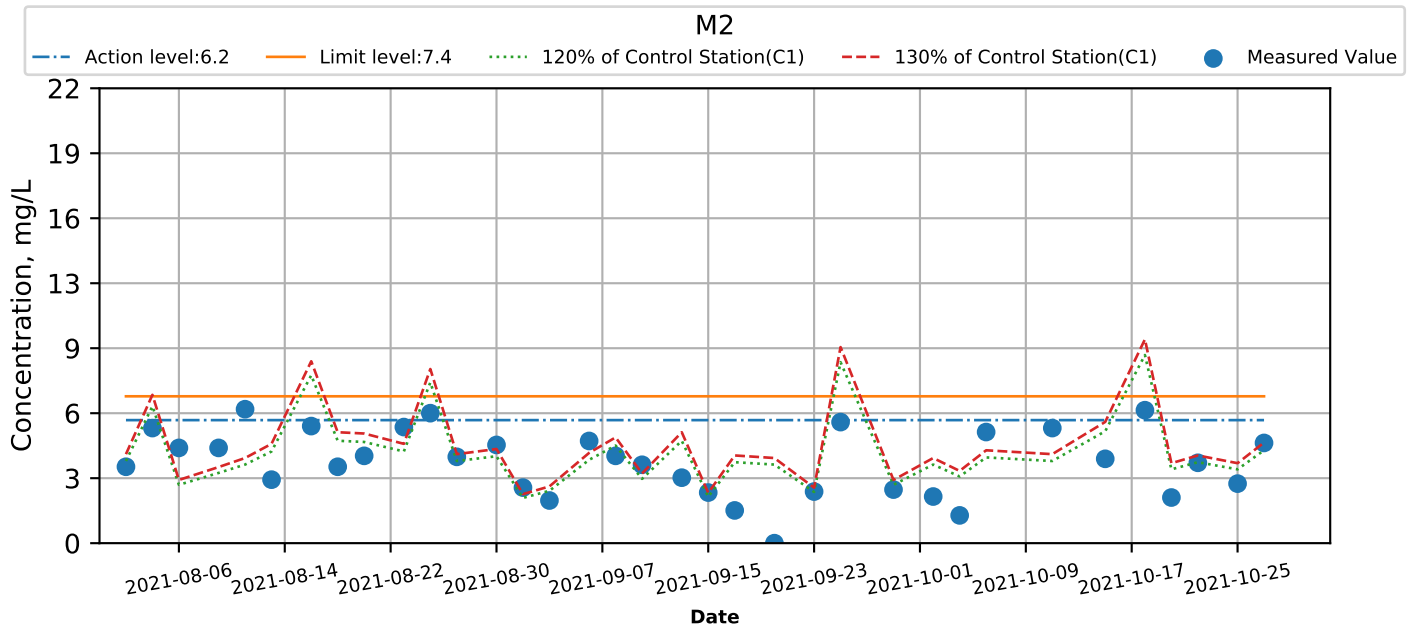
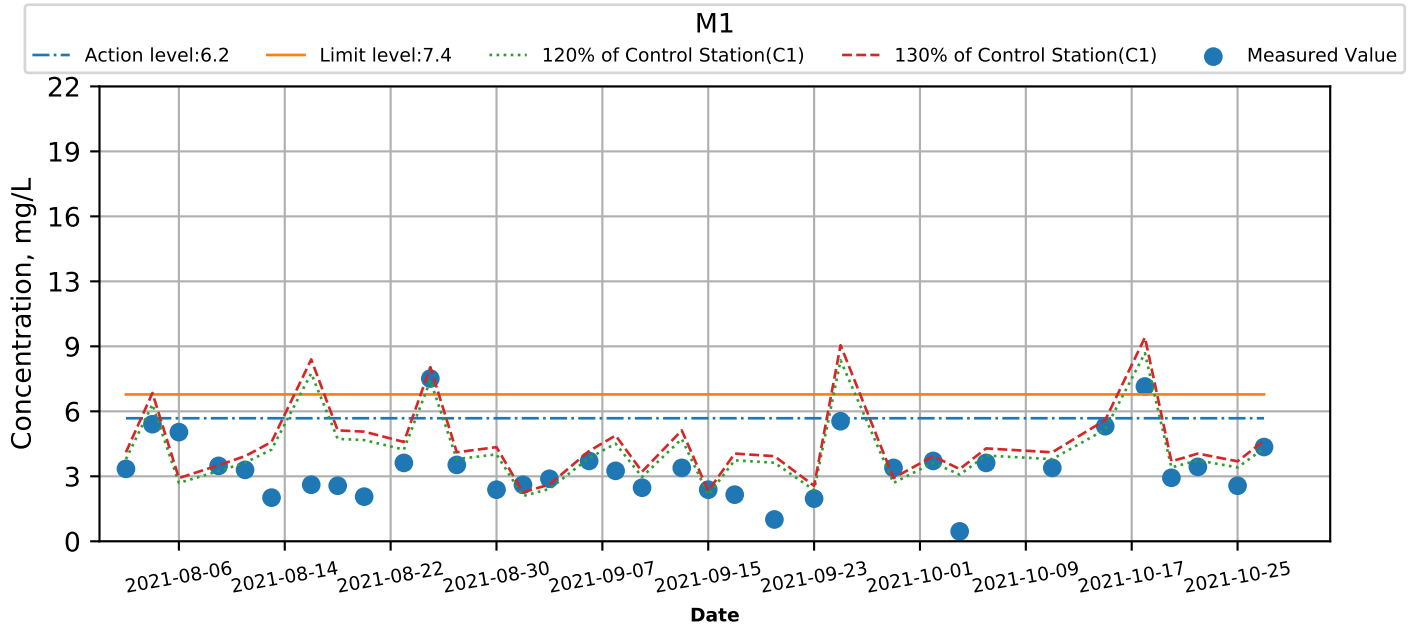
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Flood



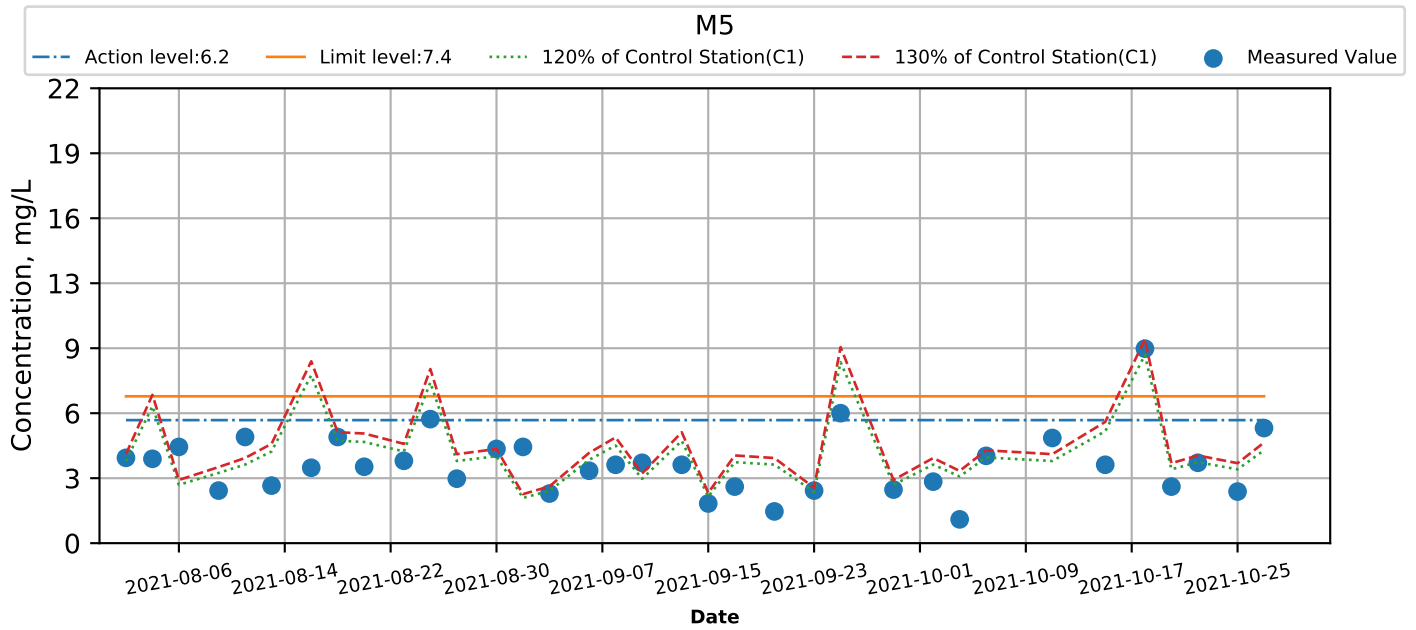
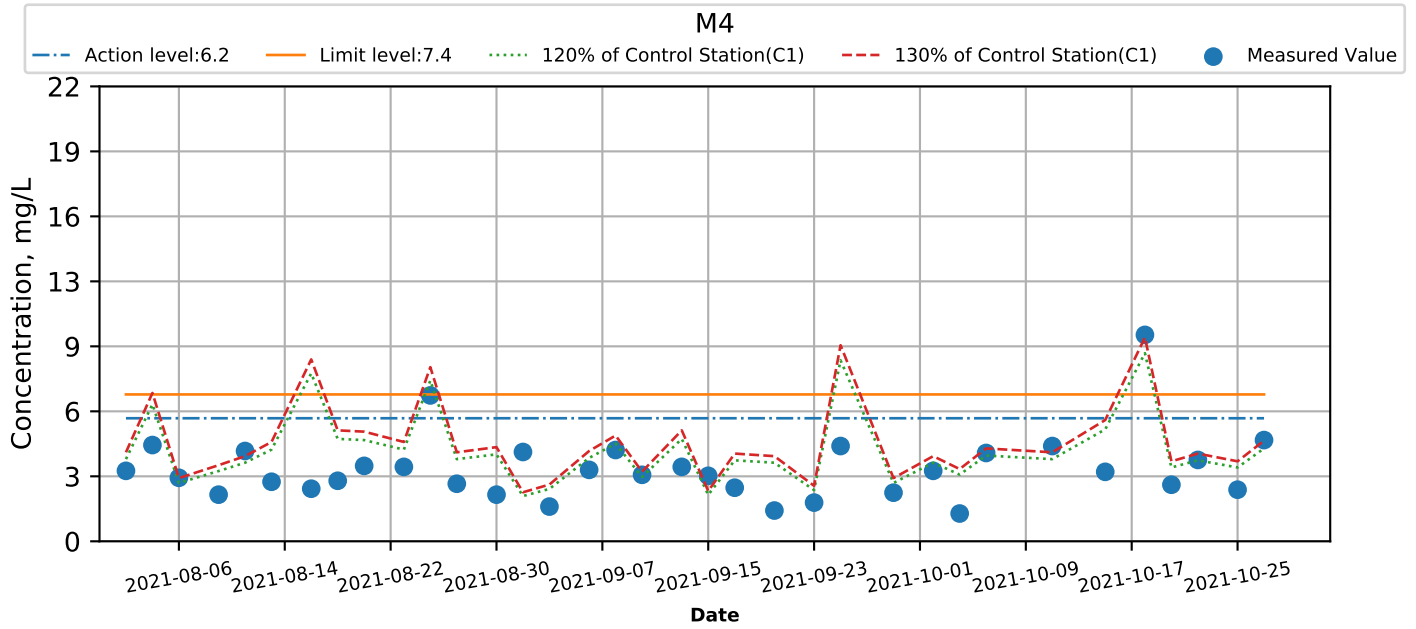
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Flood



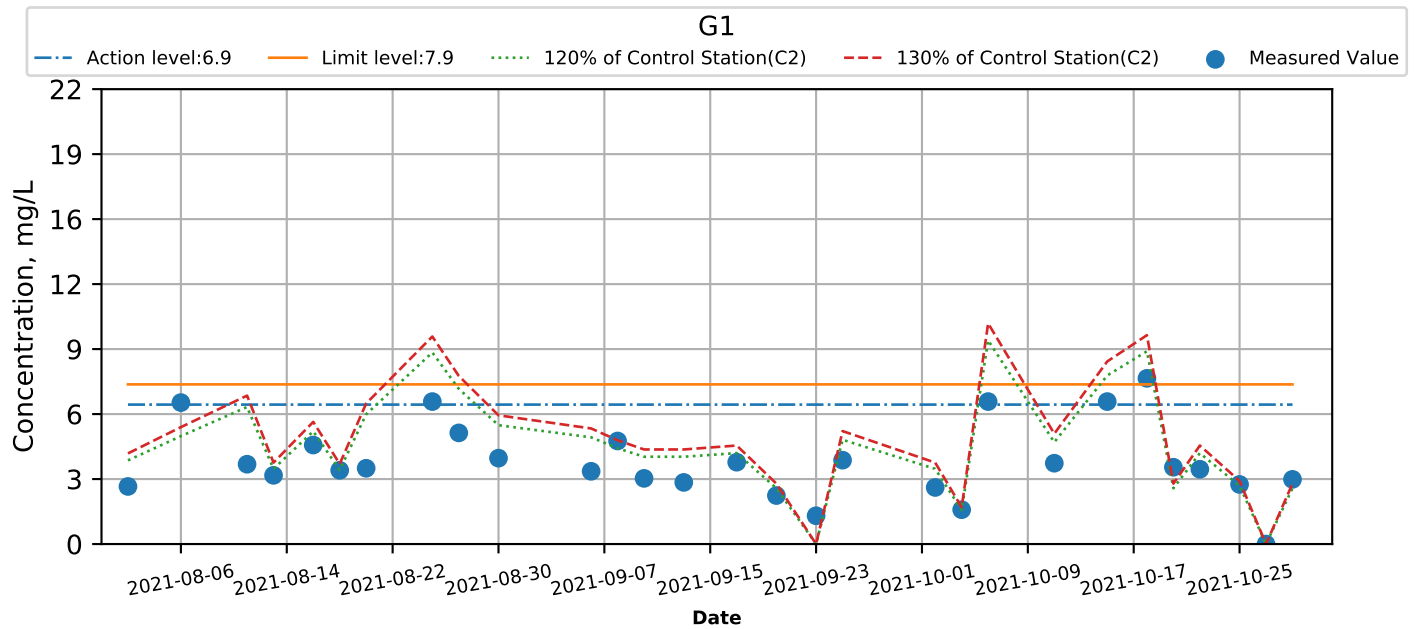
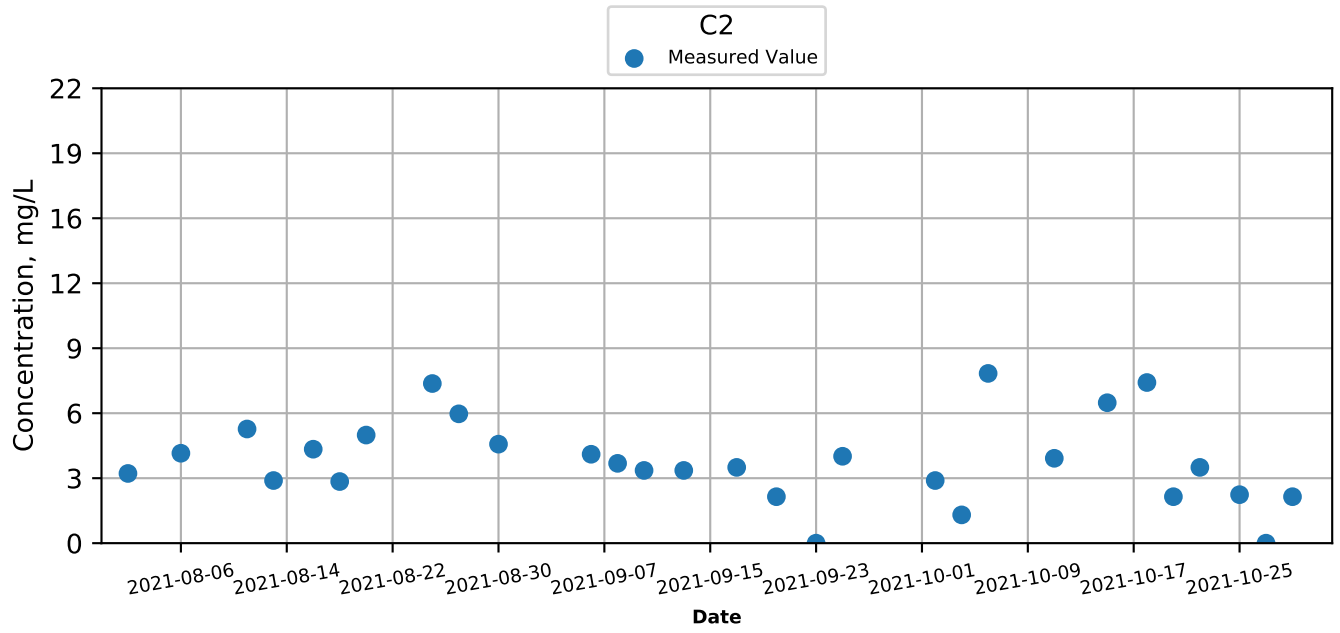
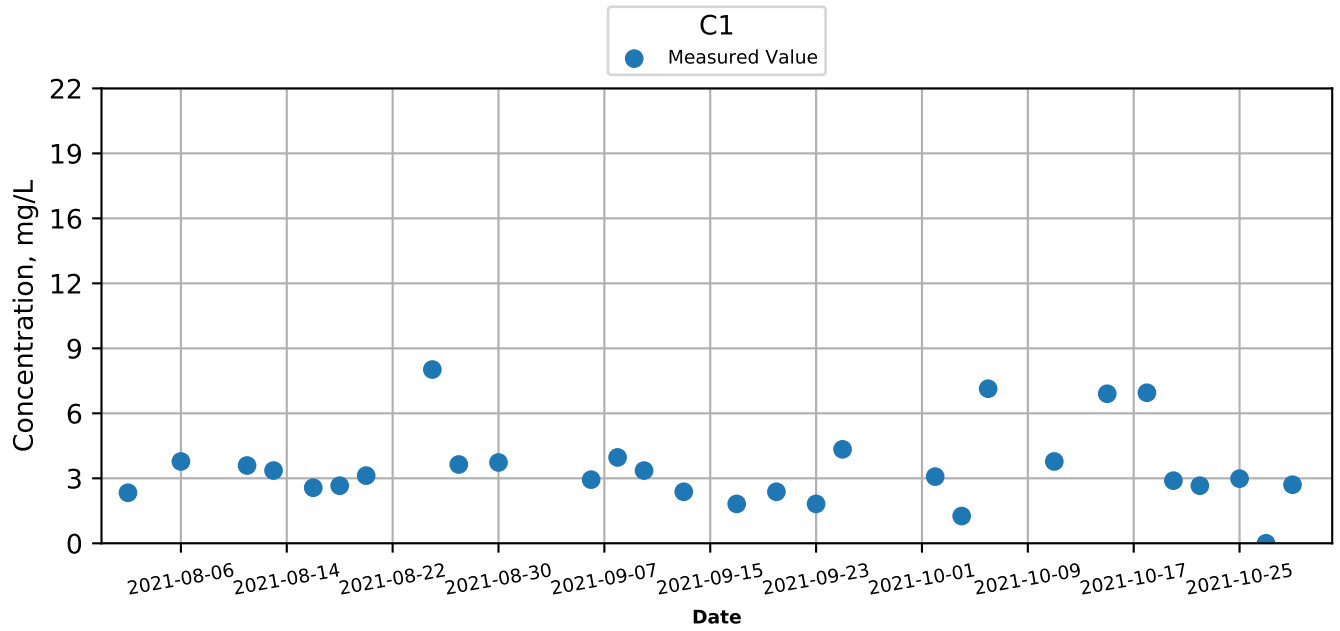
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Surface) at Monitoring Stations during Mid-Flood



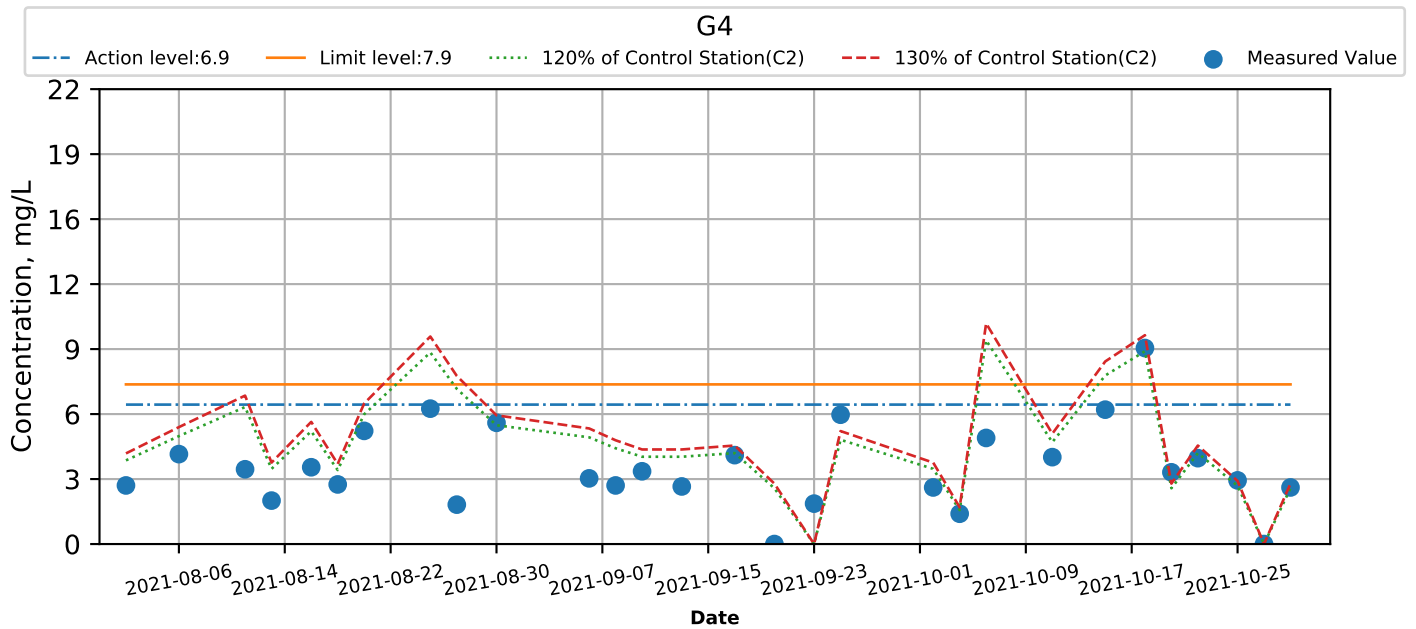
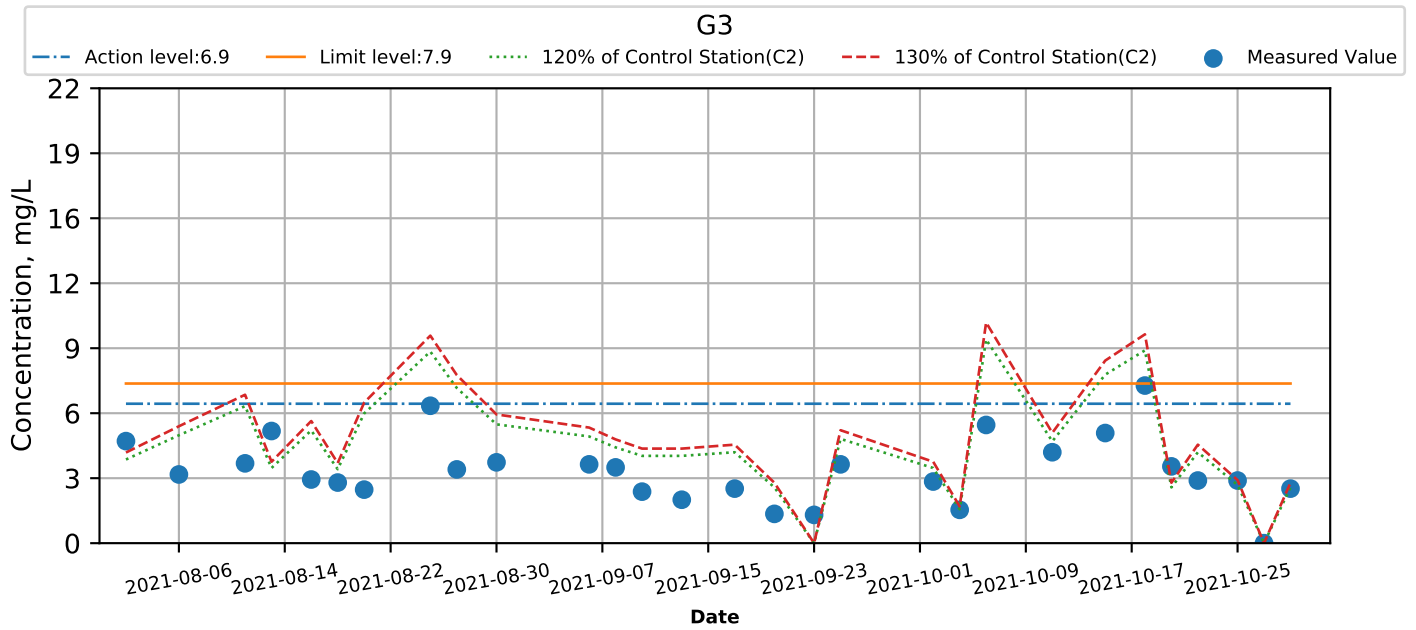
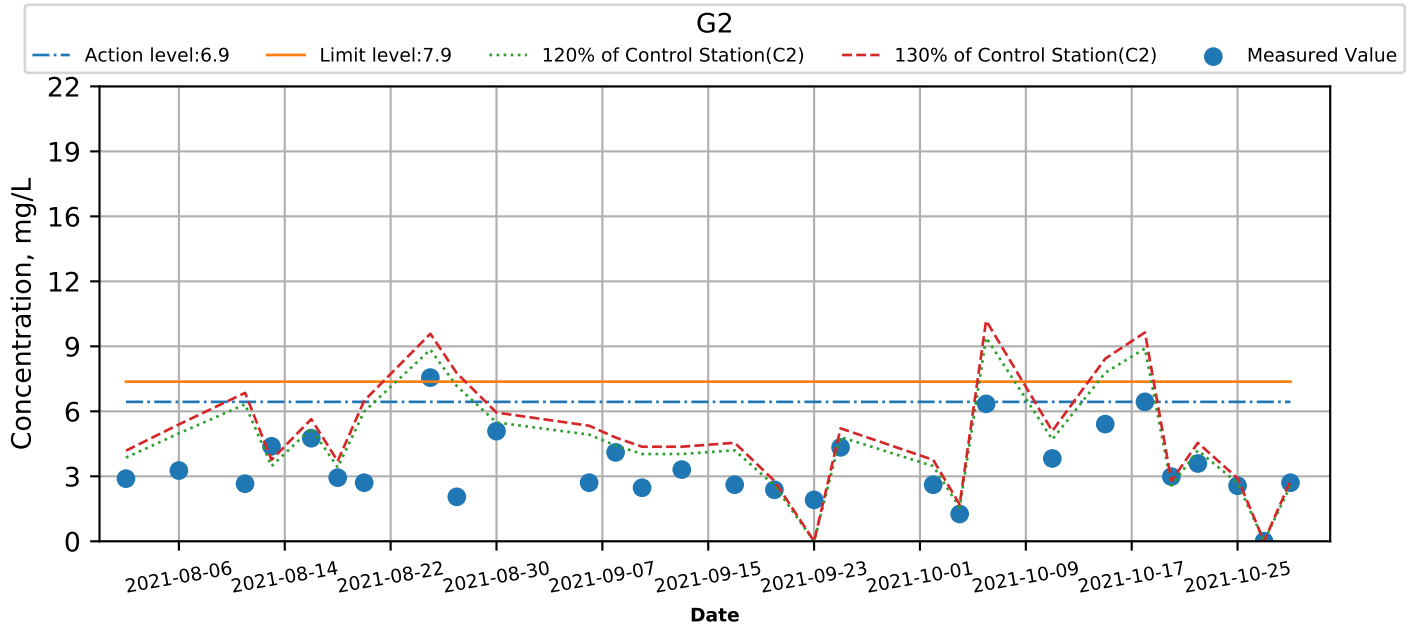
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Ebb



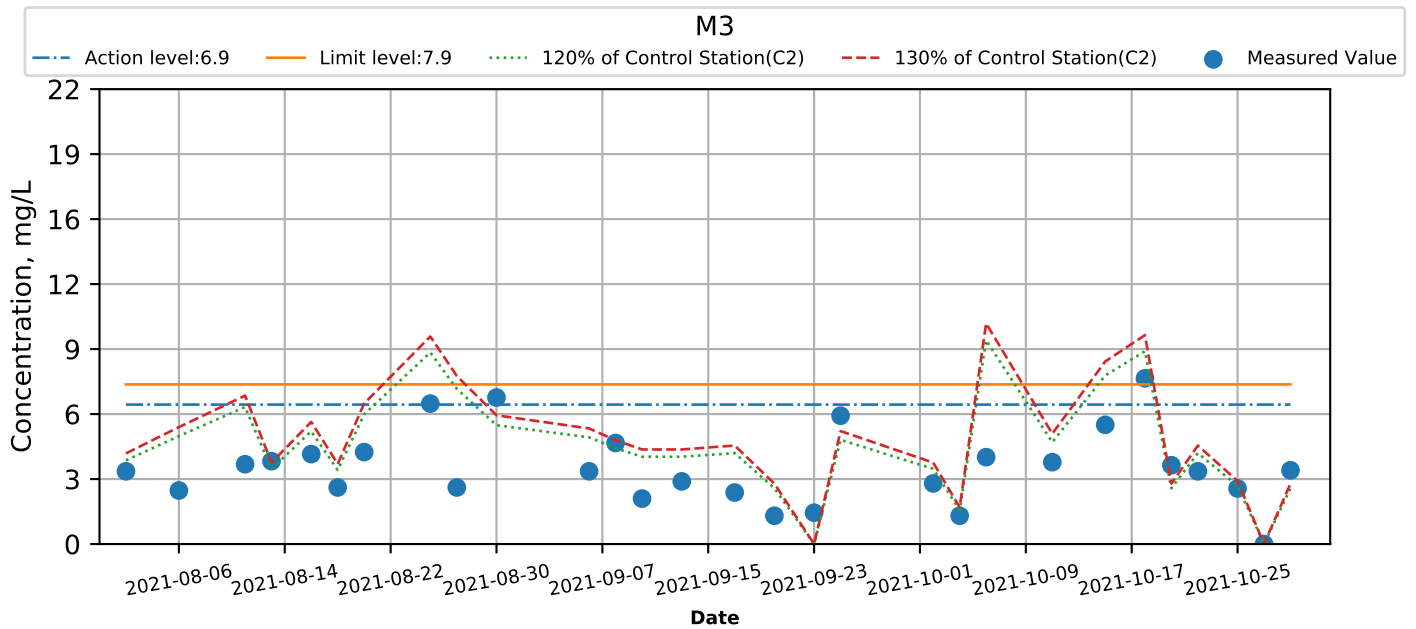
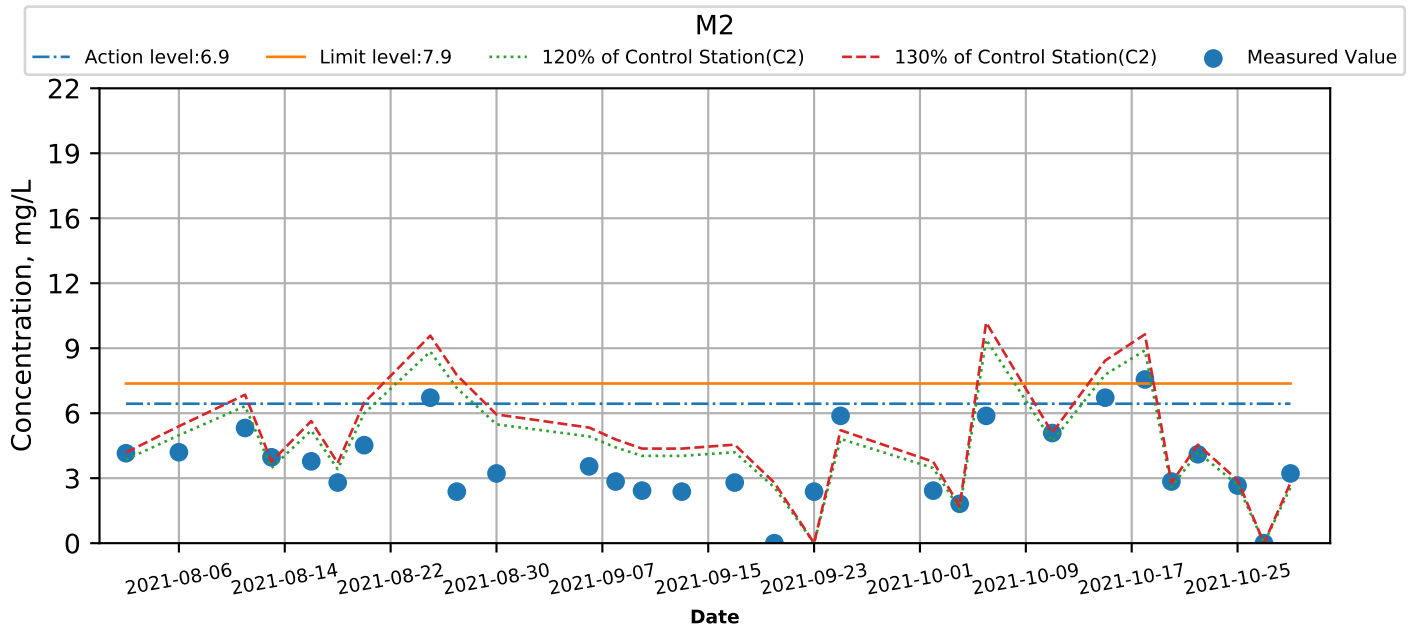
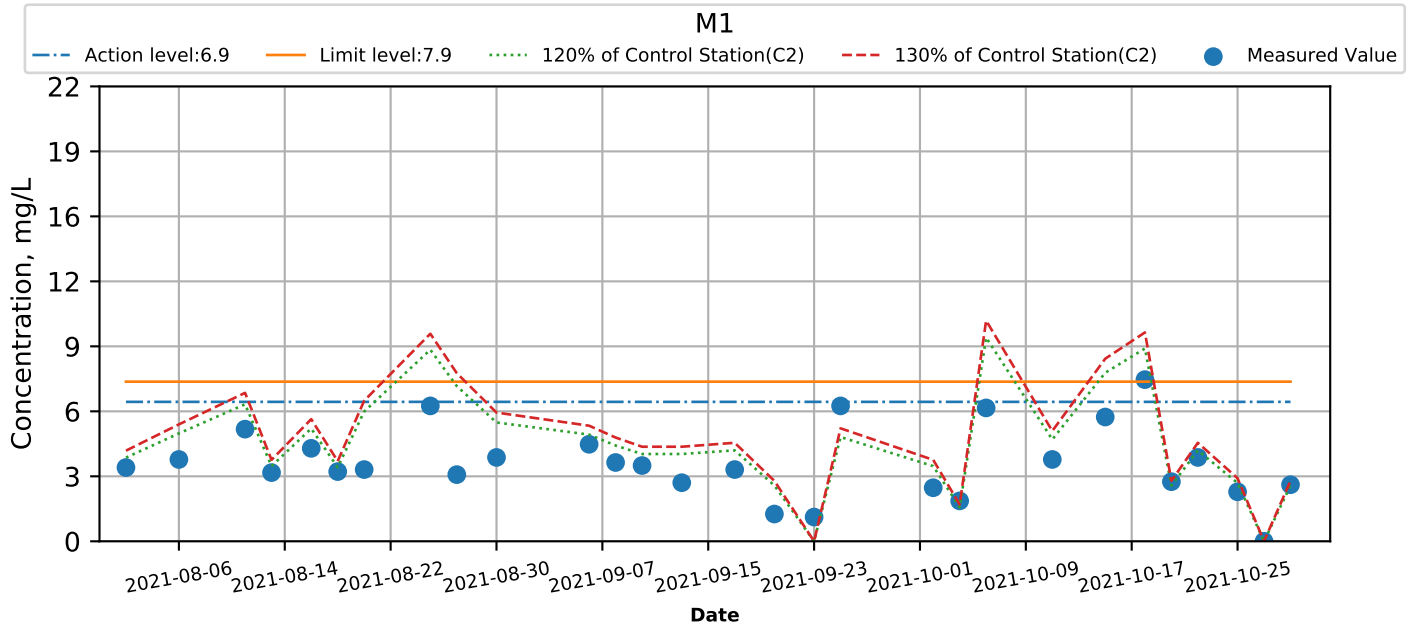
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Ebb



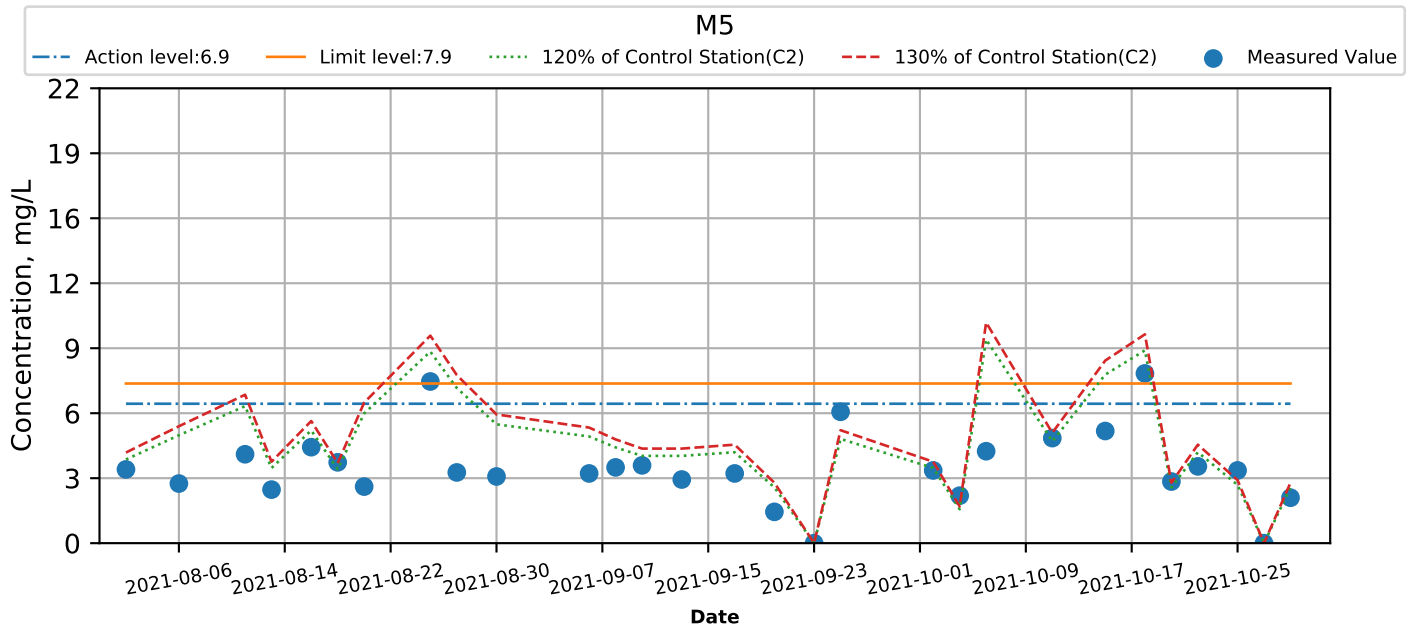
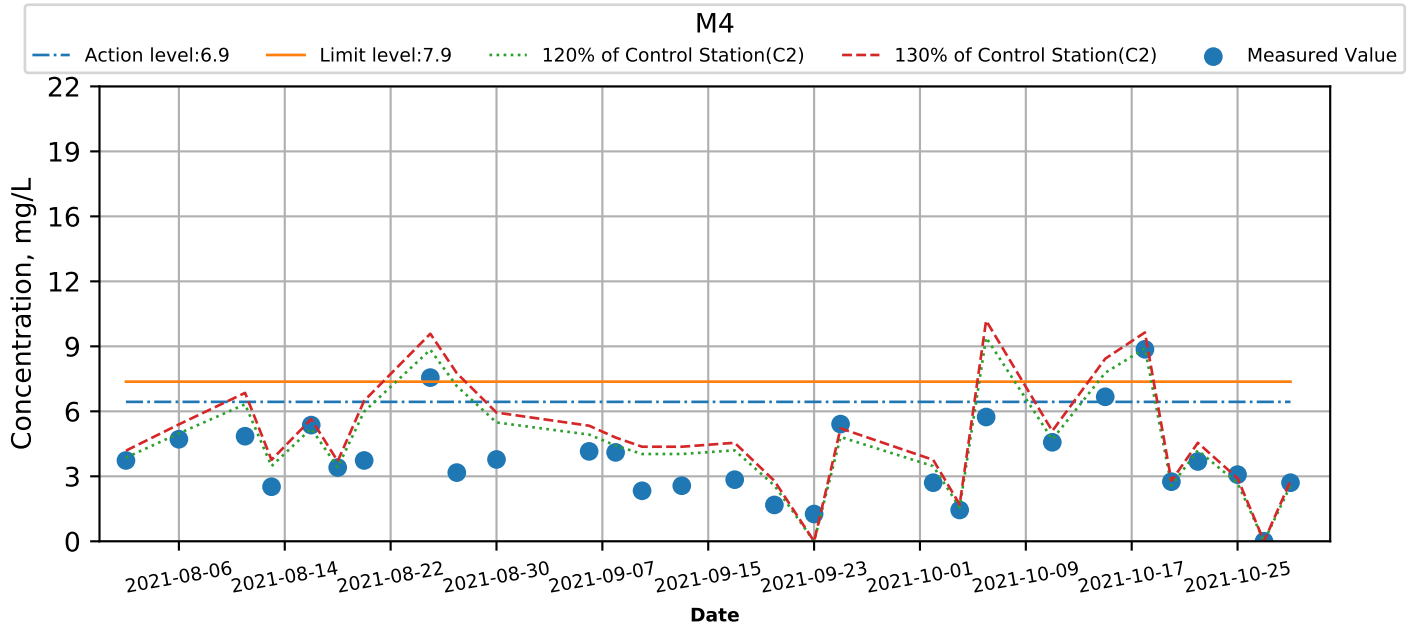
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Ebb



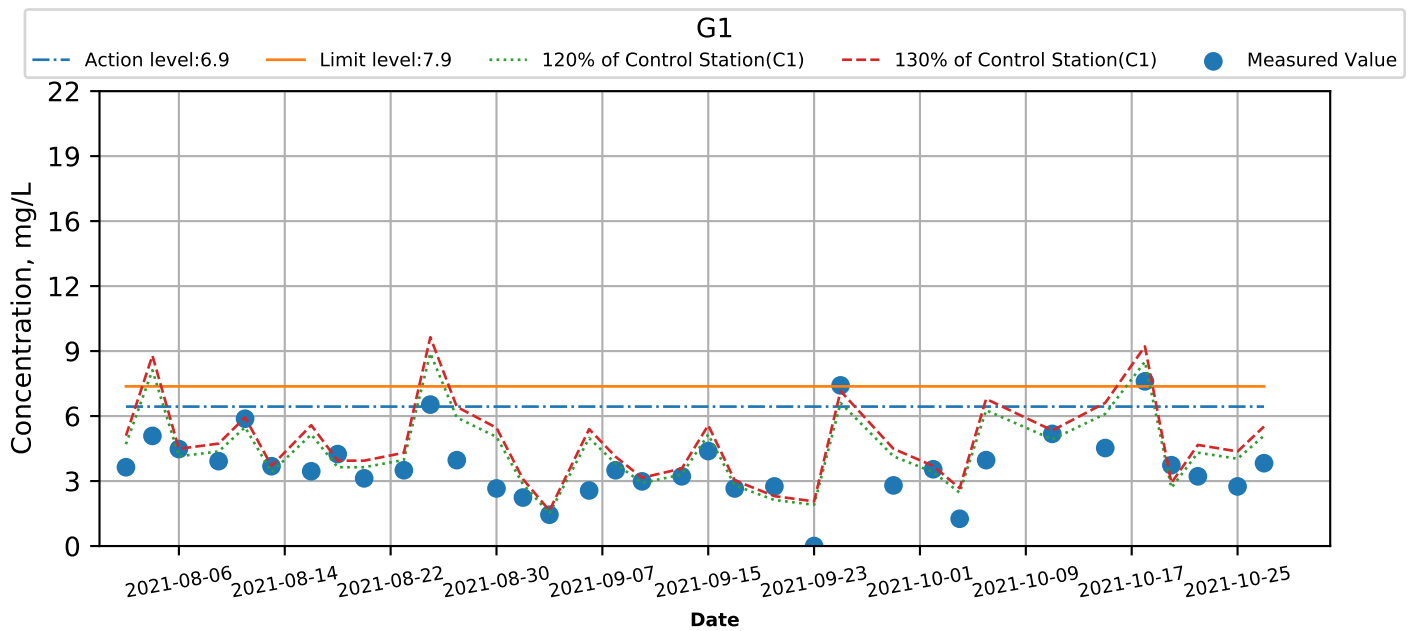
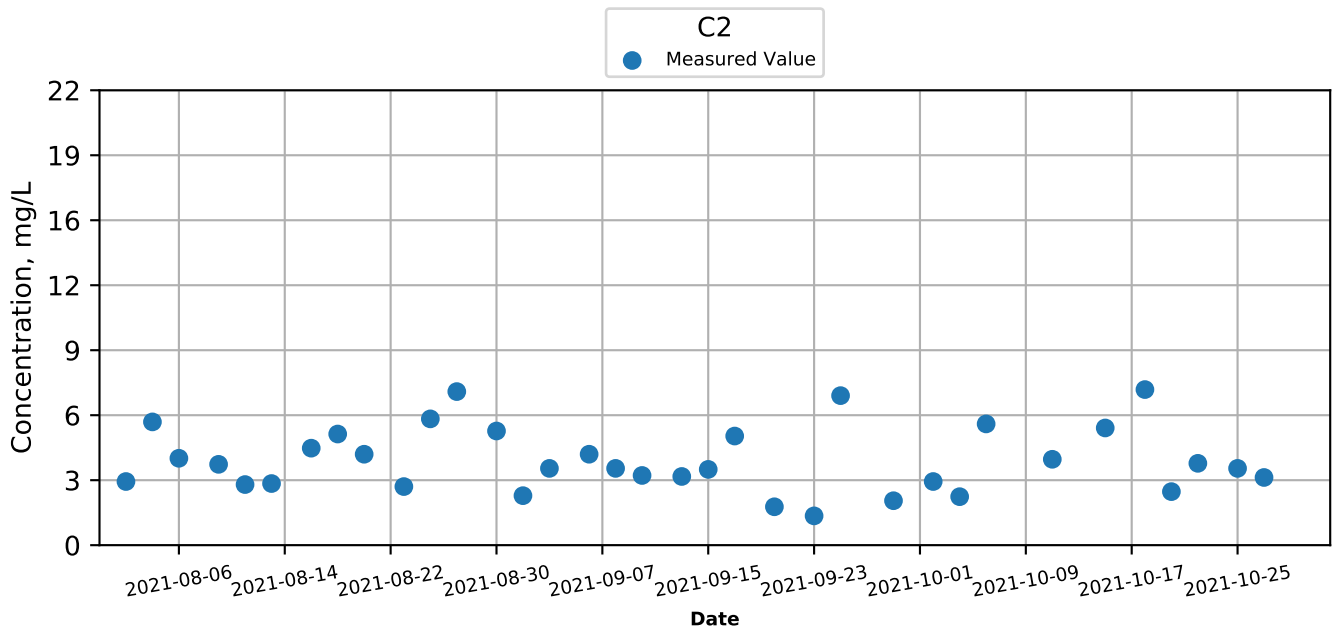
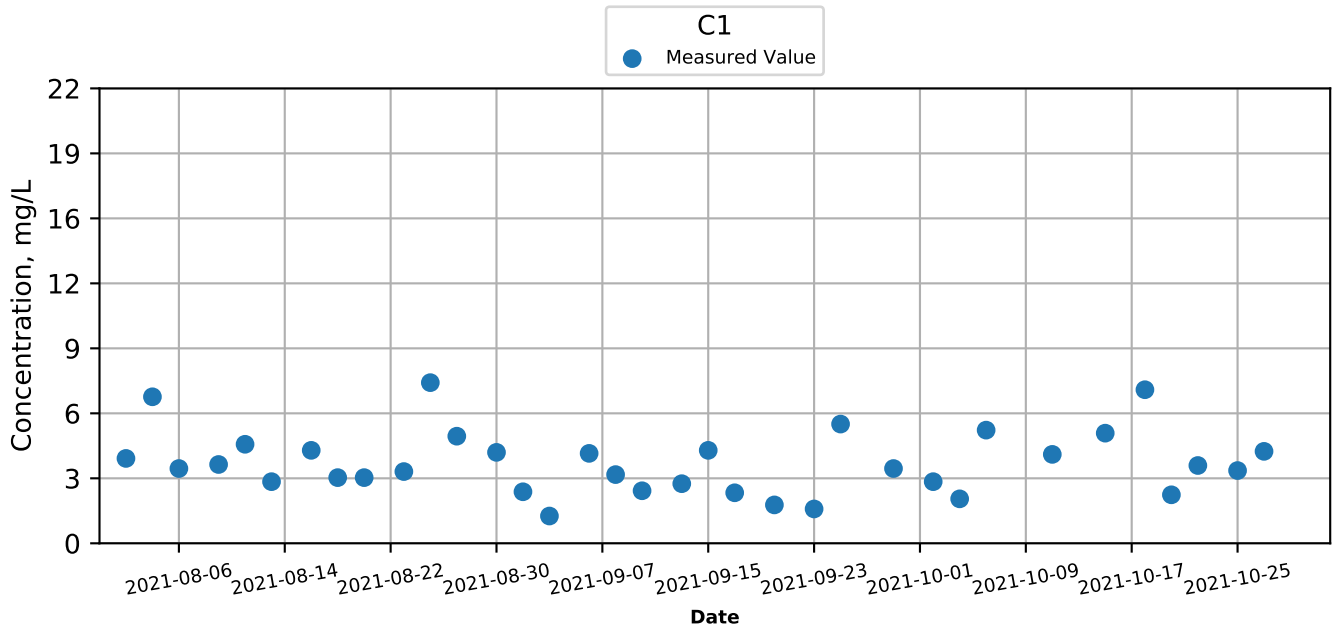
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Ebb



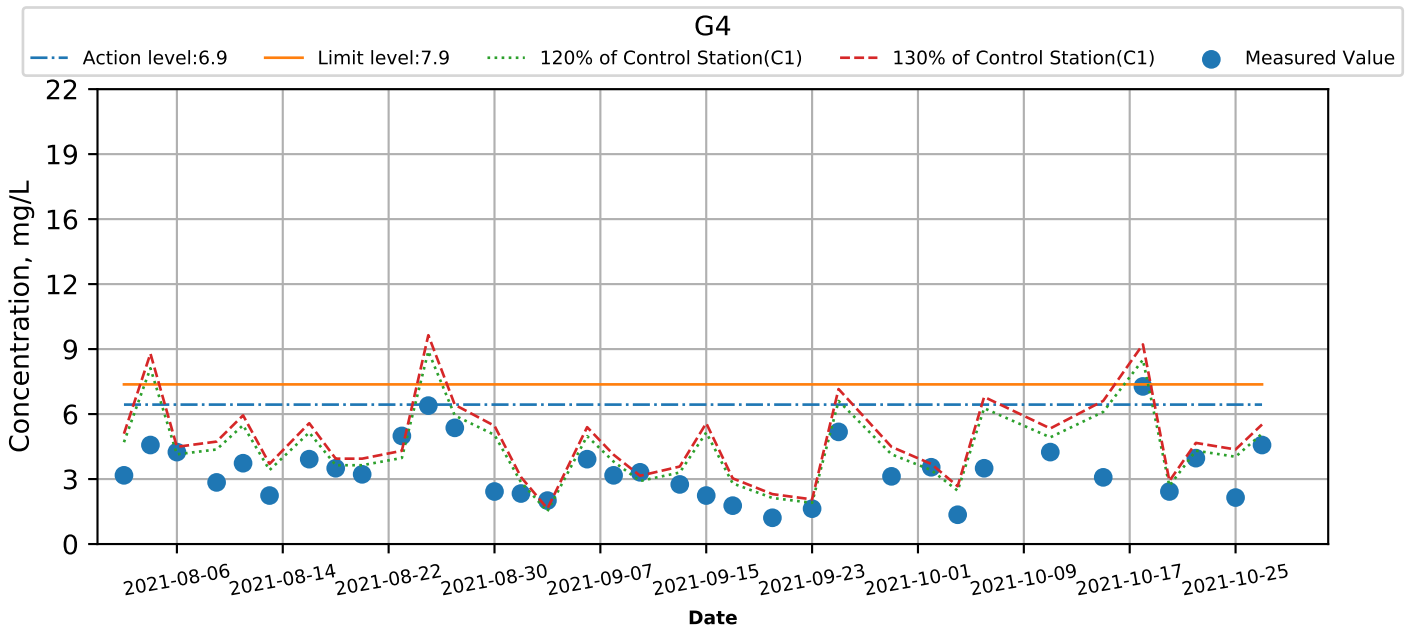
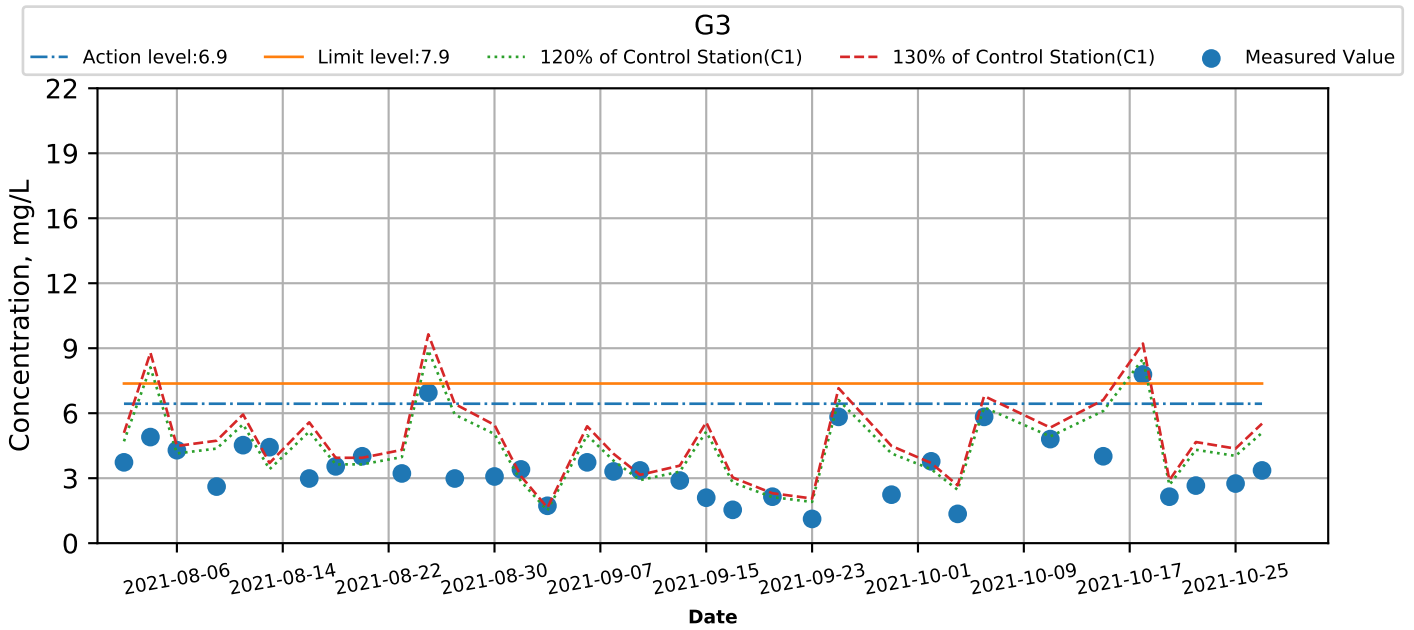
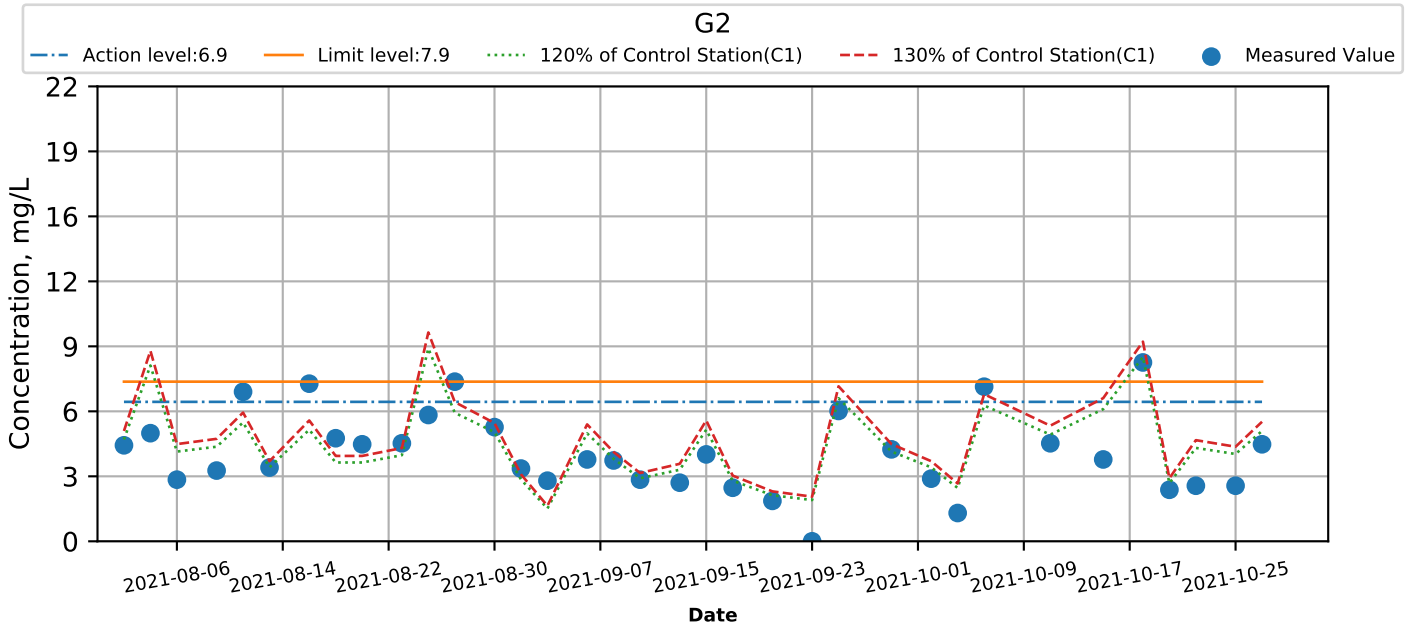
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Flood



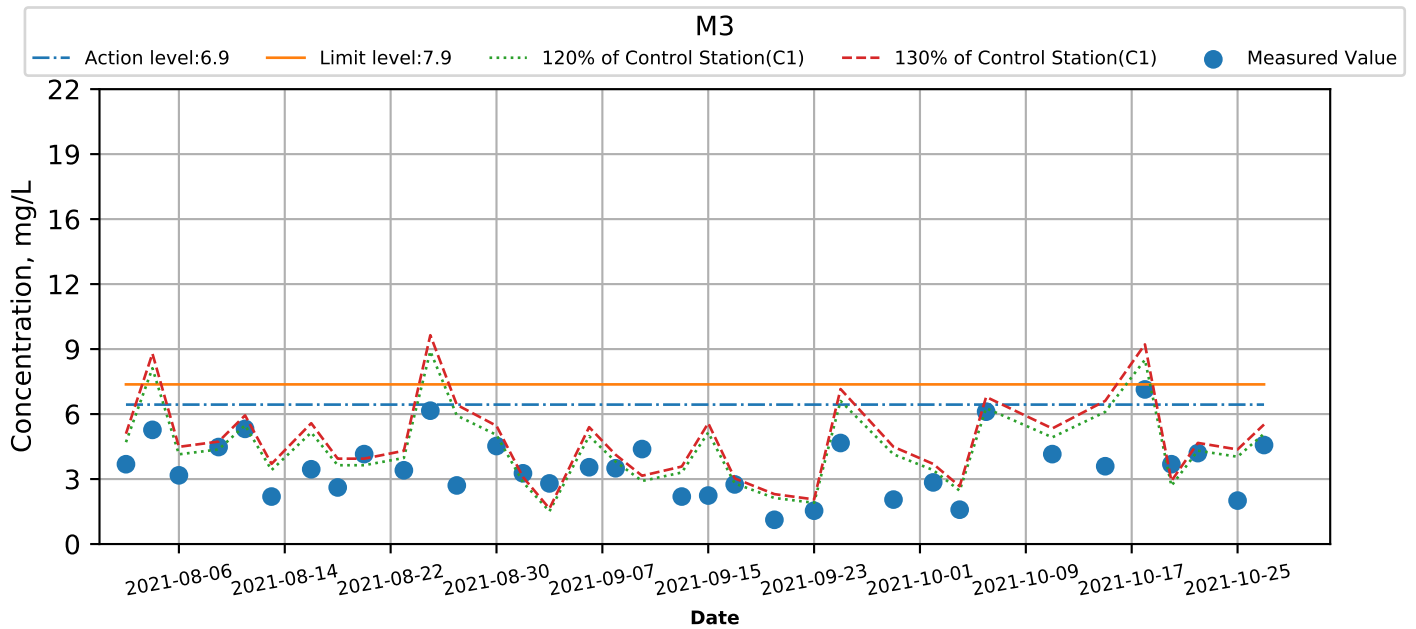
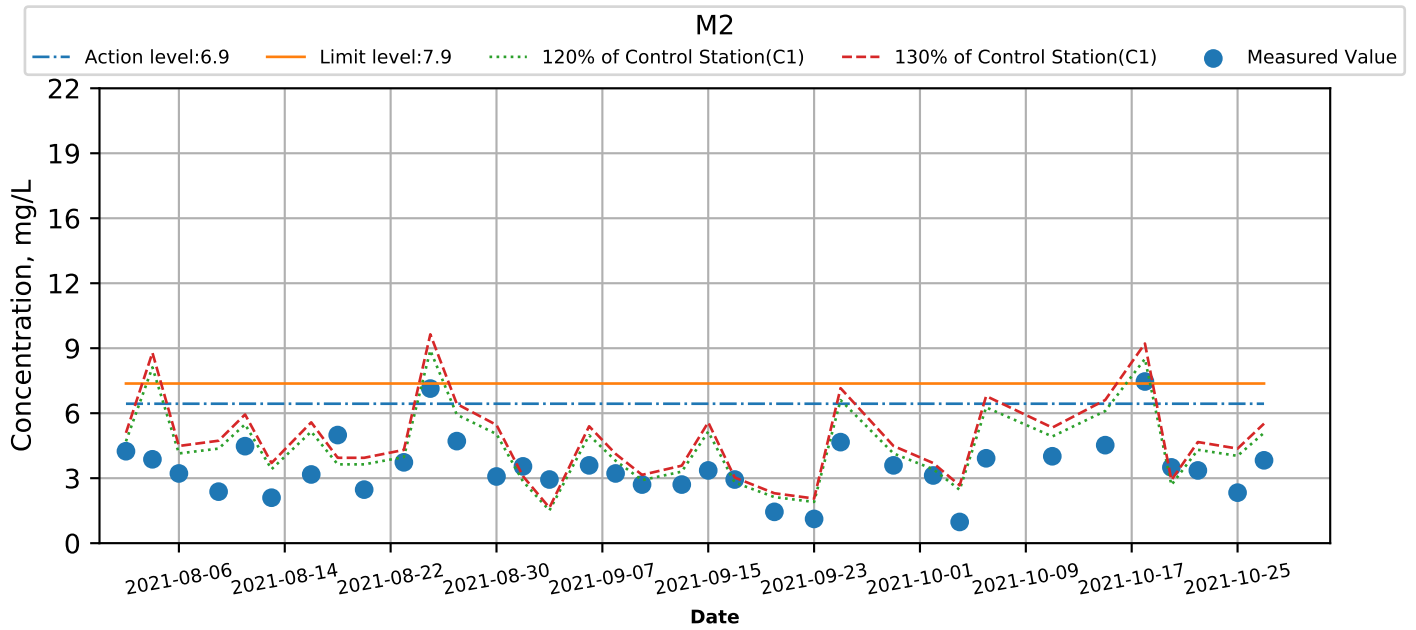
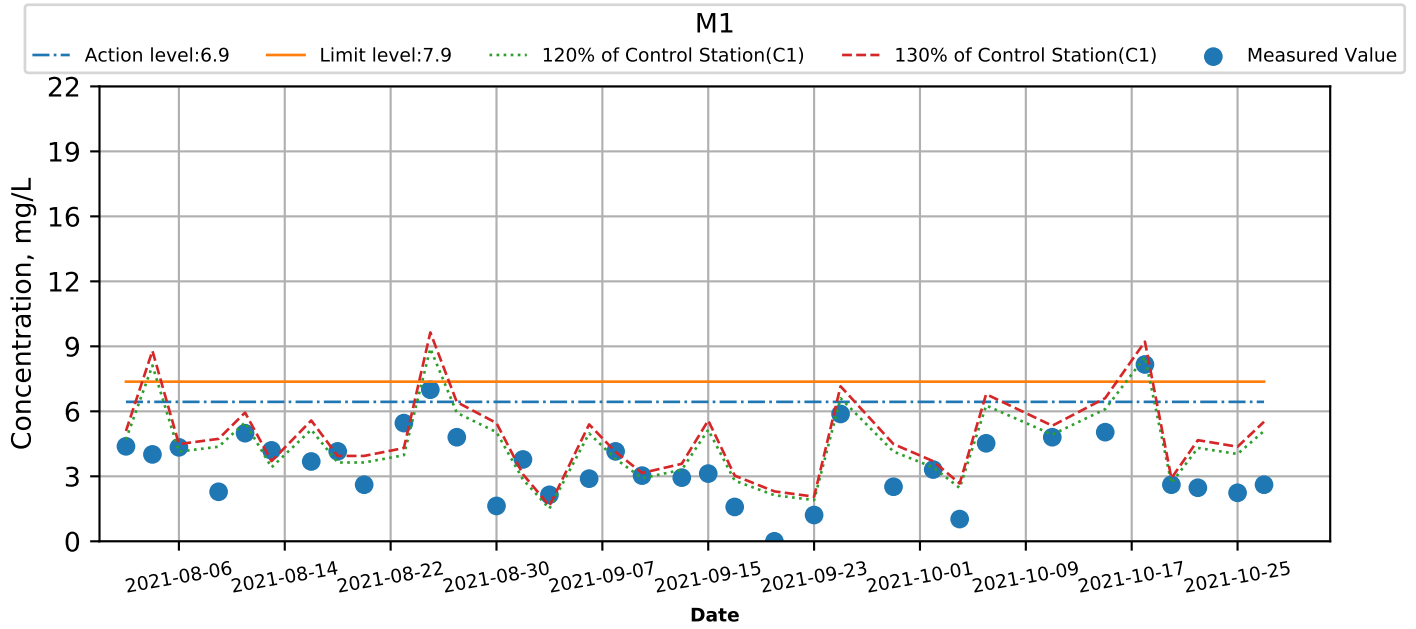
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Flood



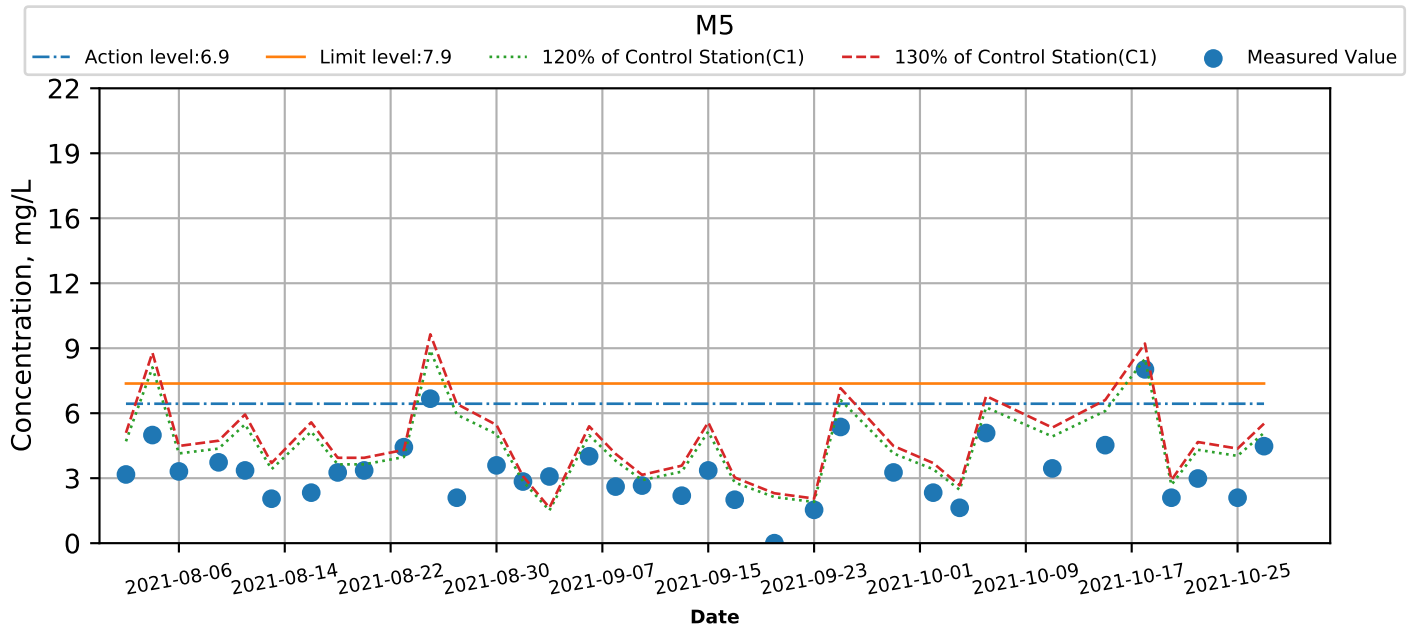
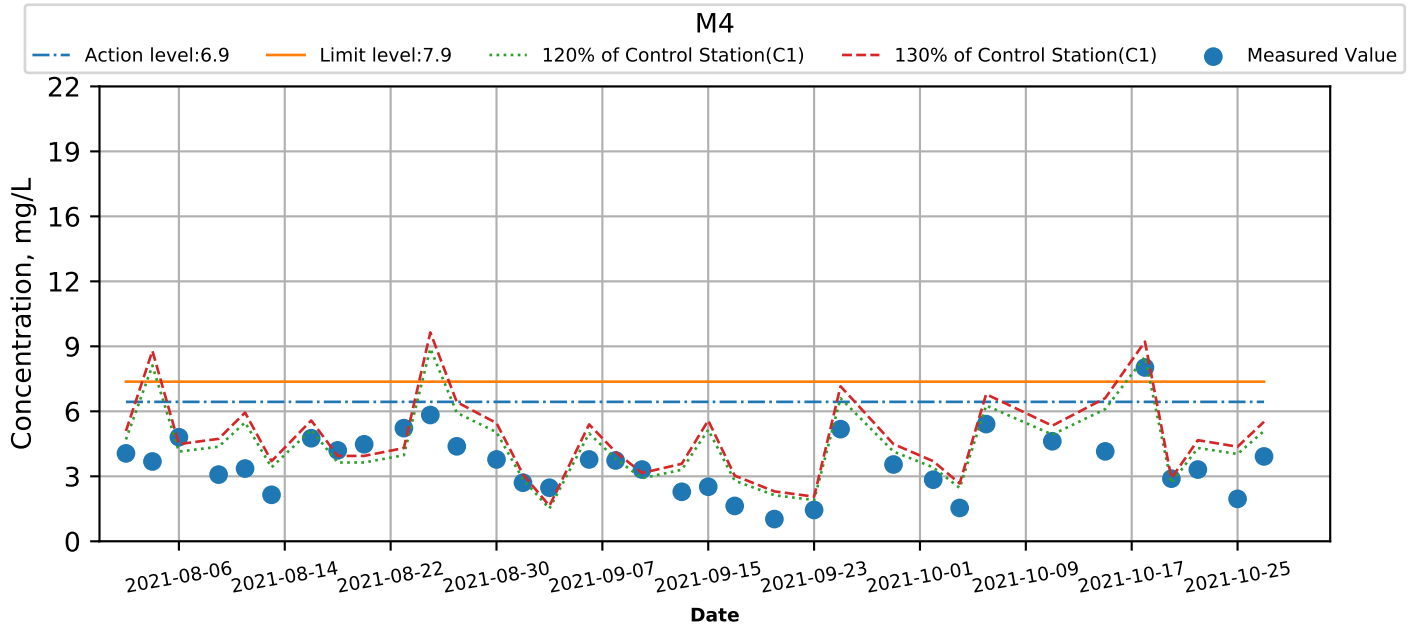
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Flood



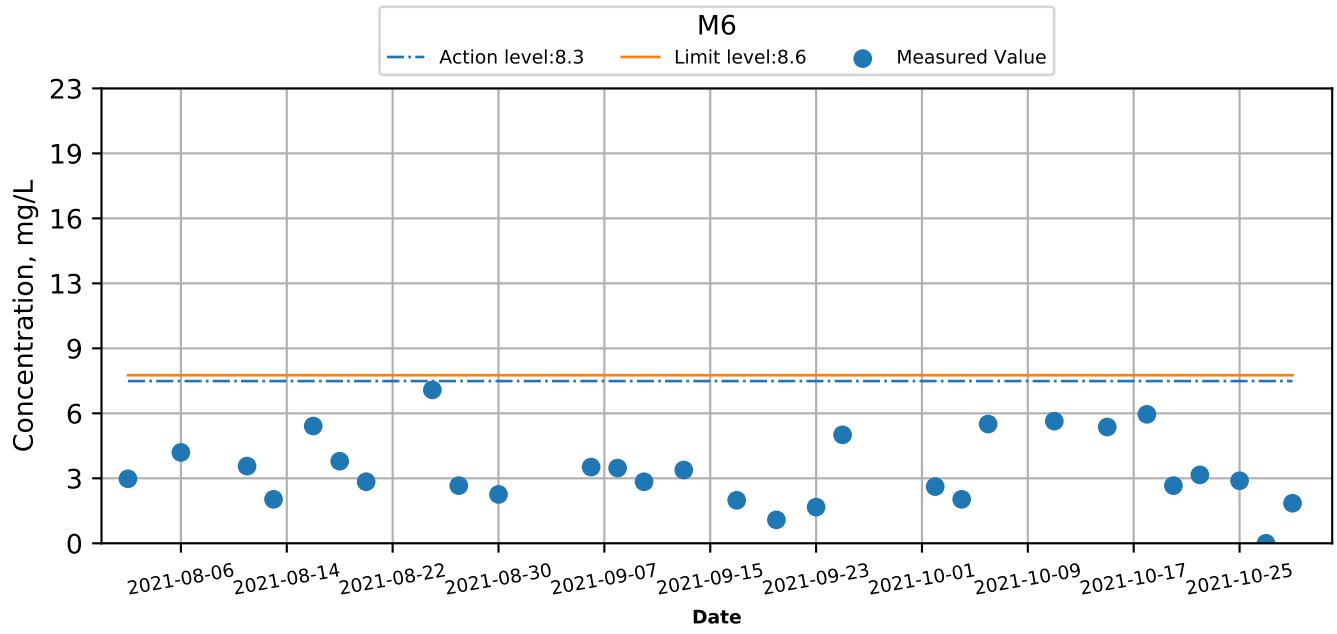
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Bottom) at Monitoring Stations during Mid-Flood



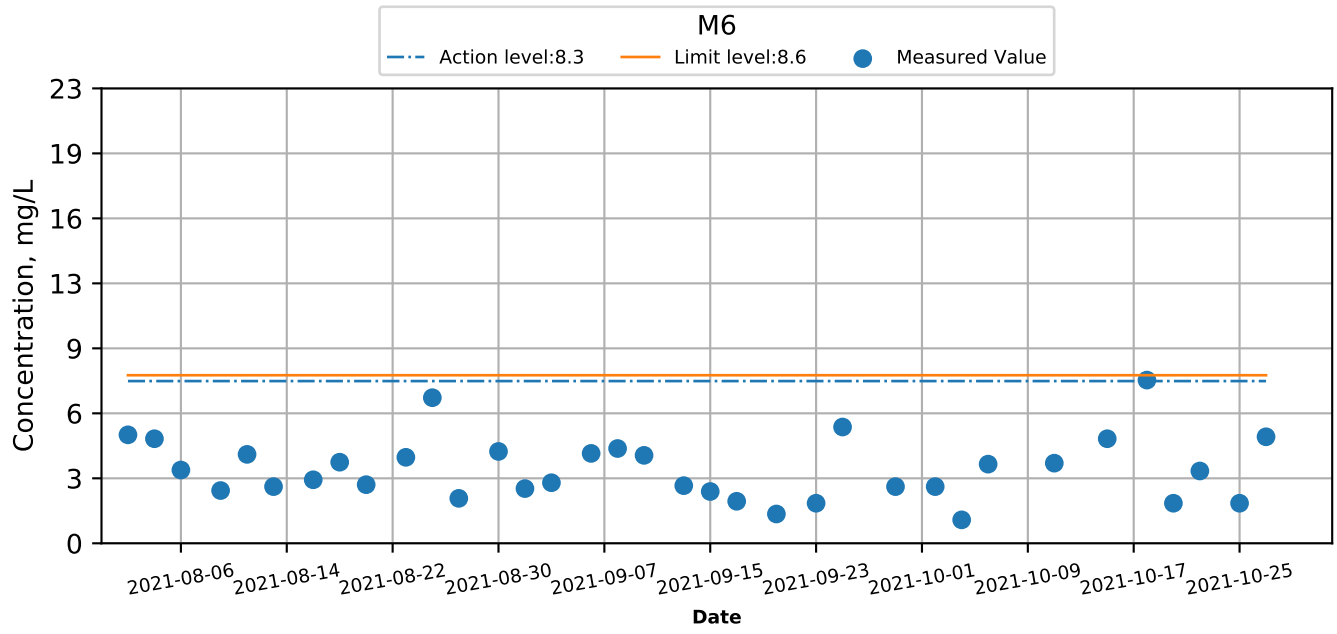
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Intake level) at Monitoring Stations during Mid-Ebb



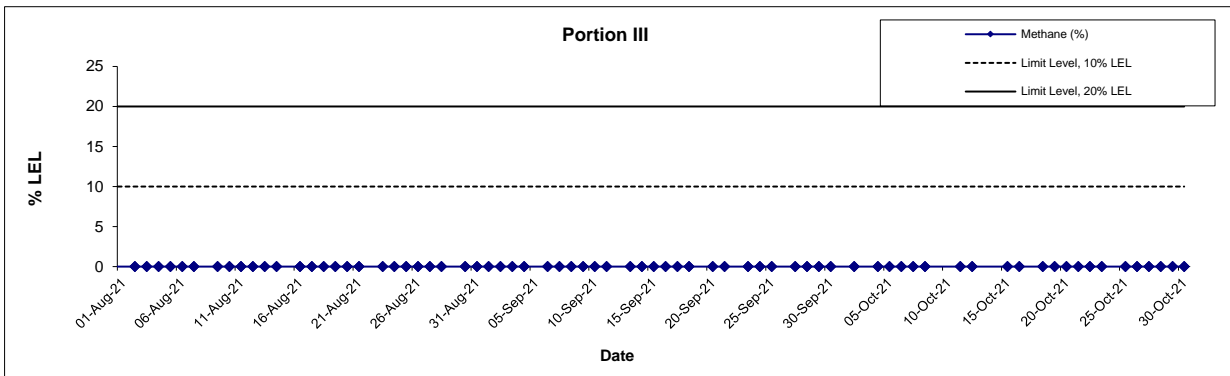
Graphical Presentation of Water Quality Monitoring Results (Aug-2021 to Oct-2021)

Suspended Solids (Intake level) at Monitoring Stations during Mid-Flood

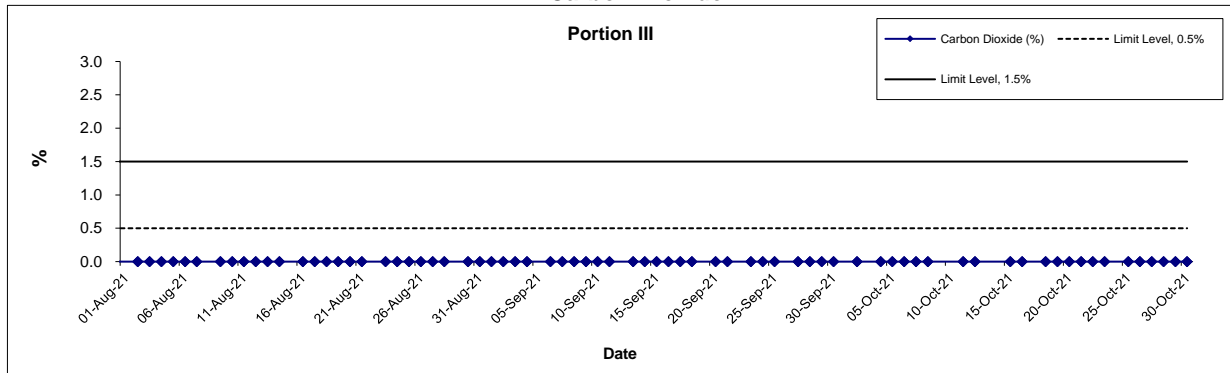


**APPENDIX G
GRAPHICAL PRESENTATION OF
LANDFILL GAS MONITORING
RESULTS**

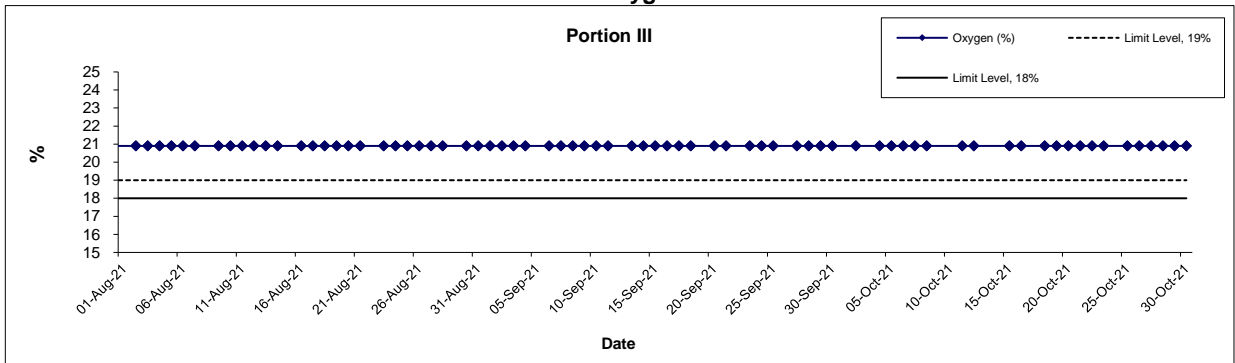
Methane




Carbon Dioxide



Oxygen



| | | | |
|---------------------------------------------------------------------------------------------------------------------|--------|----------|---------------------------------------------------------------------------------------|
| Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel – Design and Construction | Scale | Project |  |
| | | N.T.S | |
| | Date | Appendix | |
| | Oct-21 | G | |

**APPENDIX H
SITE AUDIT SUMMARY**

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

| Items | Date | Status* | Follow up Action |
|--------------------------------------------------------------------------|------------------------------------|---------|----------------------------------------------------------------|
| <i>Water Quality</i> | | | |
| The contractor is reminded to avoid ponding of water. | 4-Aug-21 18-Aug-21 25-Aug-21 | ✓ | 11, 25-Aug-21 The Contractor has removed the ponding water. |
| The contractor is reminded to keep waterproof filters in good condition. | 4-Aug-21 | ✓ | 11-Aug-21 The wasterproof filters were well maintained |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| The contractor is reminded to cover PME with acoustic sheets | 18-Aug-21 | ✓ | 25-Aug-21 The PME was covered with acoustic sheets. |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| The contractor is reminded to provide a drip tray for chemicals. | 4-Aug-21 25-Aug-21 | ✓ | 11-Aug-21 A drip tray was provided for the chemicals. |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

• Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report**

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

| Items | Date | Status* | Follow up Action |
|--------------------------------------------------------------------------------|-----------|---------|---------------------------------------------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| The contractor is reminded to sprinkle water regularly to suppress dust | 19-Aug-21 | ✓ | 19-Jul-2021: Water was sprinkled immediately to suppress dust emission |
| <i>Waste/Chemical Management</i> | | | |
| The Contractor is reminded to remove the accumulated waste outside the office. | 19-Aug-21 | ✓ | 26-Jul-2021: The waste had been removed |
| The contractor is reminded to clear the drip tray. | 26-Aug-21 | # | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

- ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
- ✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
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- * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/02
 Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

| Items | Date | Status* | Follow up Action |
|----------------------------------------------------------------------------|-----------|---------|------------------|
| <i>Water Quality</i> | | | |
| The Contractor is reminded to clear the drainage to maintain its capacity. | 29-Jul-21 | # | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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- * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

- ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
- ✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
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- * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/07

Tseung Kwan O - Lam Tin Tunnel — Cross Bay Link Main Bridge and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

- ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
- ✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
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- * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

| Items | Date | Status* | Follow up Action |
|-------------------------------------------------------------------------------------------|------------------------------------|-------------|---------------------------------------------------------------|
| <i>Water Quality</i> | | | |
| The Contractor is reminded to remove the accumulated waste from drainage. | 1-Sep-21 | ✓ | 8-Sep-21: The waste was removed. |
| The Contractor is reminded to provide a suitable channel for stormwater diversion. | 8-Sep-21 | ✓ | 15-Sep-21: The channel was cleared. |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| | | | |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| The Contractor is reminded to cover stockpile of dusty material | 15-Sep-21 29-Sep-21 | ✓ # | 17-Sep-21: The dusty material was covered |
| The Contractor shall water regularly to suppress dust emission | 15-Sep-21 29-Sep-21 | ✓ # | 17-Sep-21: Photos of watering was received from Contractor |
| <i>Waste/Chemical Management</i> | | | |
| The Contractor is reminded to provide a drip tray for chemical | 8-Sep-21 15-Sep-21 23-Sep-21 | ✓ | 8, 15 & 23 Sep 21: The chemical was removed. |
| The Contractor is reminded to avoid waste accumulation. | 8-Sep-21 15-Sep-21 29-Sep-21 | ✓ ✓ # | 8&15 Sep 21: The waste was removed |
| Chemical drip tray shall have adequate capacity to contain accidental leakage of chemical | 29-Sep-21 | # | N.A. |
| Drip tray's hole shall be plugged. | 29-Sep-21 | # | N.A. |
| General waste and construction waste shall be disposed separately. | 29-Sep-21 | # | N.A. |
| Oil stain shall be removed. | 29-Sep-21 | # | N.A. |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

• Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

| Items | Date | Status* | Follow up Action |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|----------------------------------------------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| More than 1 breaker is observed in Portion IX. Despite none of them is working, the Contractor shall keep in mind only 1 breaker is allowed to operate at Portion IX anytime (in accordance with CNMP v.24) | 23-Sep-21 | ✓ | 30-Sep-21: Upon site inspection, only one breaker was observed on-site. |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| The Contractor is reminded to remove accumulated waste. | 2-Sep-21 30-Sep-21 | ✓ # | 2-Sep-21: The waste was removed. |
| The contractor is reminded to clear the drip tray. | 26-Aug-21 | ✓ | 1-Sep-21: The drip tray was cleared. |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report**

Appendix H - Site Audit Summary

Contract No. — NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

| Items | Date | Status* | Follow up Action |
|---------------------------------------------------------------------|-----------|---------|--------------------------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| The Contractor is reminded to cover the stockpile of dusty material | 10-Sep-21 | ✓ | 17-Sep-21: The Contractor had covered the stockpile |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

| Items | Date | Status* | Follow up Action |
|----------------------------------------------------------------------------|-----------|---------|---------------------------------------------------|
| <i>Water Quality</i> | | | |
| The Contractor is reminded to clear the drainage to maintain its capacity. | 29-Jul-21 | ✓ | 16-Sep-2021: The overgrown weeds were trimmed. |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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- * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/07

Tseung Kwan O - Lam Tin Tunnel — Cross Bay Link Main Bridge and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

| Items | Date | Status* | Follow up Action |
|----------------------------------------------------------------------------------------------------------|-----------|---------|-------------------------------------------------------------------------------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| The Contractor is reminded to make the materials wet before grabbing them to suppress the dust emission. | 6-Oct-21 | ✓ | 6-Oct-21: The Contractor ordered the workers to wet the materials immediately to suppress dust emission. |
| <i>Waste/Chemical Management</i> | | | |
| The Contractor is reminded to provide a drip tray for chemical | 27-Oct-21 | ✓ | 27 Oct 21: A drip tray is provided. |
| The Contractor is reminded to avoid waste accumulation. | 29-Sep-21 | ✓ | 6 Oct 21: The waste was removed |
| Chemical drip tray shall have adequate capacity to contain accidental leakage of chemical | 29-Sep-21 | ✓ | 5 Oct 21: The drip tray was cleared. |
| Drip tray's hole shall be plugged. | 29-Sep-21 | ✓ | 5 Oct 21: The drip tray was plugged. |
| General waste and construction waste shall be disposed separately. | 29-Sep-21 | ✓ | 6 Oct 21: Construction waste and general waste was sorted separately during the site inspection. |
| Oil stain shall be removed. | 29-Sep-21 | ✓ | 6 Oct 21: The oil stain was removed |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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* Non-compliance of mitigation measure

• Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

| Items | Date | Status* | Follow up Action |
|---------------------------------------------------------|----------|---------|-------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| | | | |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| The Contractor is reminded to remove accumulated waste. | 8-Sep-21 | ✓ | 8-Sep-21: The waste was removed. |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

• Non-compliance but improved by the contractor

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|-----------|---------|------------------------------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| Drip tray's hole shall be plugged. | 21-Oct-21 | ✓ | 21 Oct 21: The drip tray was plugged. |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction
Quarterly EM&A Report

Appendix H - Site Audit Summary

Contract No. — NE2017/07

Tseung Kwan O - Lam Tin Tunnel — Cross Bay Link Main Bridge and Associated Works

| Items | Date | Status* | Follow up Action |
|------------------------------------|------|---------|------------------|
| <i>Water Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Ecology</i> | | | |
| -- | -- | -- | -- |
| <i>Noise</i> | | | |
| -- | -- | -- | -- |
| <i>Landscape and Visual</i> | | | |
| -- | -- | -- | -- |
| <i>Air Quality</i> | | | |
| -- | -- | -- | -- |
| <i>Waste/Chemical Management</i> | | | |
| -- | -- | -- | -- |
| <i>Impact on Cultural Heritage</i> | | | |
| -- | -- | -- | -- |
| <i>Permit/Licenses</i> | | | |
| -- | -- | -- | -- |

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 - Non-compliance but improved by the contractor

**APPENDIX I
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

App N1 - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------------|---------------------------------------------------------------|
| Air Quality | | | | | | |
| S3.8.1 | Watering eight times a day on active works areas, exposed areas and paved haul roads | To minimize the dust impact | Contractor | All Active Work Sites | Construction phase | APCO |
| S3.8.1 | Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains | To minimize the dust impact | Contractor | Barging Points | Construction phase | APCO |
| S3.8.7 | Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. | To minimize the dust impact | Contractor | All Construction Work Sites | Construction phase | APCO and Air Pollution Control (Construction Dust) Regulation |
| S3.8.7 | <ul style="list-style-type: none"> Use of frequent watering for particularly dusty construction areas and areas close to ASRs.. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Imposition of speed controls for vehicles on site haul roads. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. | | | | | |
| S3.8.7 | <ul style="list-style-type: none"> Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. | | | | | |
| / | <p>Emission from Vehicles and Plants</p> <ul style="list-style-type: none"> All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD) | Reduce air pollution emission from construction vehicles and plants | Contractor | All construction sites | Construction stage | APCO |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|--------------------------|---------------------------------|-------------------------------------------------------------|
| / | Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines | Reduce air pollution emission from construction vehicles and plants | Contractor | All construction sites | Construction stage | APCO |
| Noise Impact (Construction Phase) | | | | | | |
| S4.8 | <ul style="list-style-type: none"> Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump. | To minimize construction noise impact arising from the Project at the affected NSRs | Contractor | Work Sites | Construction phase | EIAO-TM, NCO |
| Noise Mitigation Plan | Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan | To minimize construction noise impact arising from the Project at the affected NSRs | Contractor | Work Sites | Construction phase | EIAO-TM, NCO |
| S4.9 | <p>Good Site Practice</p> <ul style="list-style-type: none"> Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. | To minimize construction noise impact arising from the Project at the affected NSRs | Project Proponent | Work sites | Construction Period | EIAO-TM, NCO |
| S4.9 | Scheduling of Construction Works during School Examination Period | To minimize construction noise impact arising from the Project at the affected NSRs | Contractor | Work site near school | Construction phase | EIAO-TM, NCO |
| Water Quality Impact (Construction Phase) | | | | | | |
| S5.6.24 | The dry density of filling material for the TKO-LT Tunnel reclamation should be $1,900\text{kg/m}^3$, with fine content of 25% or less | Control potential impacts from filling activities | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO |
| S5.8.1 | Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points. | Control potential impacts from filling activities | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO |
| S5.8.2 | Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of $3,000\text{m}^3$ (i.e. $1,000\text{m}^3$ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access. | Control potential impacts from filling activities | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO |
| Silt Curtain Deployment Plan | <ul style="list-style-type: none"> Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. | Control potential impacts from marine works | Contractor | NE/2015/01 | Construction stage | EIAO |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------|--------------------------|-------------------------------------|-------------------------------------------------------------|
| S5.8.3 | <p>Other good site practices should be undertaken during filling operations include:</p> <ul style="list-style-type: none"> all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain. | Control potential impacts from filling activities and marine-based construction | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO, Waste Disposal Ordinance (WDO) |
| S5.8.4 | Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices. | Control potential impacts from filling activities and marine based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| ERR S5.6.1 | <p>To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented:</p> <ul style="list-style-type: none"> Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation. | Control potential impacts from dredging and filling works for Reclamation for Road P2 | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.5 | It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.6 | Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Design Stage and Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|--------------------------|---------------------------------|-------------------------------------------------------------|
| S5.8.7 | Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS |
| S5.8.8 | Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.8 | <ul style="list-style-type: none"> • use of sediment traps; and | | | | | |
| S5.8.8 | <ul style="list-style-type: none"> • adequate maintenance of drainage systems to prevent flooding and overflow. | | | | | |
| S5.8.9 | Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.10 | Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.11 | Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.12 | Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.13 | Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.14 | Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.15 | Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |

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| S5.8.16 | Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.17 | Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.18 | All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.19 | Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.20 | It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.21 | All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.23 | Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO, TMDSS |
| S5.8.24 | Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |

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| S5.8.25 - S5.8.27 & Table 5.18 | Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and reactive to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance |
| S5.8.28 | Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Design Stage and Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.29 - S5.8.31 | Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.32 | All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.33 | Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.34 | If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.35 | Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.36 | Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Design Stage and Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.37 | Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |

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| S5.8.38 | Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.39 | Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.40 | Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.41 | Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.42 | Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| S5.8.43 | Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |

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| S5.8.44 | Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | Control potential impacts from accidental spillage of chemicals | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO, WDO |
| S5.8.45 | Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. | Control potential impacts from accidental spillage of chemicals | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO |
| S5.8.46 | Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: | Control potential impacts from accidental spillage of chemicals | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO, WDO |
| S5.8.46 | <ul style="list-style-type: none"> suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; | | | | | |
| S5.8.46 | <ul style="list-style-type: none"> chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and | | | | | |
| S5.8.46 | <ul style="list-style-type: none"> storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. | | | | | |
| S5.8.47 | Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish. | Control potential impacts from floating refuse and debris | CEDD's Contractors | Work site | Construction Phase | EIAO-TM, WPCO, |
| Ecological Impact | | | | | | |
| S6.8.4 | Measures to Minimize Disturbance <ul style="list-style-type: none"> Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities | Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation | Design Team / Contractor | Land-based works are | Construction Phase | N/A |
| S6.8.4 | | | | | | |
| S6.8.4 | | | | | | |
| S6.8.4 | | | | | | |
| S6.8.5 | Standard Good Site Practice <ul style="list-style-type: none"> Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. | Reduce disturbance to surrounding habitats | Contractor | Land-based works are | Construction Phase | N/A |
| S6.8.5 | | | | | | |
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| S6.8.5 | <ul style="list-style-type: none"> Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses. | | | | | |
| S6.8.6 | Measure to Minimize Groundwater Inflow | Minimize groundwater inflow | Contractor | Tunnel | Construction Phase | N/A |
| S6.8.6 | <ul style="list-style-type: none"> The drained tunnel construction method with groundwater inflow control measures would generally be adopted. | | | | | |
| S6.8.6 | <ul style="list-style-type: none"> During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. | | | | | |
| S6.8.8 | Measure to Minimize Impact on Corals <u>Coral translocation</u> <ul style="list-style-type: none"> It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCDD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCDD prior to commencement of coral translocation. <u>Post translocation Monitoring</u> <ul style="list-style-type: none"> A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. | Minimize loss of coral | Design team, contractor, project operator | Within reclamation areas and pier footprint | Prior construction | N/A |
| S6.8.9 S6.8.10 | Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. | Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies | Design Team, contractor | Marine and landbased works area | Construction phase | WQO |
| S6.8.11 | Compensation for Vegetation Loss <ul style="list-style-type: none"> Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. | Compensate for the vegetation loss | Design Team, contractor | Land-based works area | Construction phase | N/A |

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| Fisheries Impact | | | | | | |
| S7.7.3 | Measure to Control Water Quality Impact <ul style="list-style-type: none"> Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. | Control water quality impact, especially on suspended solid level | Design Team / Contractor | Marine work area | Construction phase | WQO |
| Waste Management (Construction Phase) | | | | | | |
| S8.6.3 | Good Site Practices and Waste Reduction Measures <ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. | To reduce waste management impacts | Contractor | All work sites | Construction Phase | Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28) |
| S8.6.4 | Good Site Practices and Waste Reduction Measures (con't) <ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. | To achieve waste reduction | Contractor | All work sites | Construction Phase | Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28) |
| S8.6.5 | Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor. | To achieve waste reduction | Contractor | All work sites | Construction Phase | ETWB TCW No. 19/2005 |
| S8.6.6 | Good Site Practices and Waste Reduction Measures (con't) <ul style="list-style-type: none"> C&D materials would be reused in the project and other local concurrent projects as far as possible. | To achieve waste reduction | Contractor | All work sites | Construction Phase | ETWB TCW No. 19/2005 |

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| S8.6.7 | <p>Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include:</p> <ul style="list-style-type: none"> Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. | To minimize potential adverse environmental impacts arising from waste storage | Contractor | All work sites | Construction Phase | ETWB TCW No. 19/2005 |
| S8.6.8/ Waste Management Plan | <p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. | To minimize potential adverse environmental impacts arising from waste collection and disposal | Contractor | All work sites | Construction Phase | ETWB TCW No. 19/2005 |
| S8.6.8/ Waste Management Plan | | | | | | |
| S8.6.8/ Waste Management Plan | | | | | | |
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| S8.6.8/ Waste Management Plan | | | | | | |
| S8.6.8/ Waste Management Plan | | | | | | |
| S8.6.9/ Waste Management Plan | <p>Storage, Collection and Transportation of Waste (con't)</p> <ul style="list-style-type: none"> Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. | To minimize potential adverse environmental impacts arising from waste collection and disposal | Contractor | All work sites | Construction Phase | DEVB TCW No. 6/2010 |
| S8.6.11 - S8.6.13/ Waste Management Plan | <p>Sorting of C&D Materials</p> <ul style="list-style-type: none"> Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills | To minimize potential adverse environmental | Contractor | All work sites | Construction Phase | DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005 |

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| S8.6.17 – S8.6.20 | <p>Sediments (con't)</p> <ul style="list-style-type: none"> Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. | To determine the best handling and treatment of sediment | Contractor | All works areas with sediments concern | Construction Phase | ETWB TCW No. 19/2005 |
| S8.6.24 - S8.6.28/ Waste Management Plan | <p>Sediments (con't)</p> <ul style="list-style-type: none"> The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excavated sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. | To ensure handling of sediments are in accordance to statutory requirements | Contractor | All works areas with sediments concern | Construction Phase | ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance |

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| | <ul style="list-style-type: none"> Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal. | | | | | |
| S8.6.26/ Waste Management Plan | <p>Chemical Wastes.</p> <ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | To ensure proper management of chemical waste | Contractor | All works sites | Construction Phase | Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation |
| S8.6.27/ Waste Management Plan | <p>General Refuse</p> <ul style="list-style-type: none"> General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. | To ensure proper management of general refuse | Contractor | All works sites | Construction Phase | Public Health and Municipal Services Ordinance (Cap. 132) |
| Impact on Cultural Heritage (Construction Phase) | | | | | | |
| S9.6.4 | <p>Dust and visual impacts</p> <ul style="list-style-type: none"> Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. | To prevent dust and visual impacts | Contractors | Work areas | Construction Phase | EIAO; GCHIA; AMO |
| S9.6.4 | <p>Indirect vibration impact</p> <ul style="list-style-type: none"> Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work. | To prevent indirect vibration impact | Contractors | Work areas | Construction Phase | Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO. |
| Built Heritage Mitigation Plan | <ul style="list-style-type: none"> Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. | To prevent vibration impacts | NE/2015/01 | Tin Hau Temple | Construction Phase | Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO. |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------|
| Landscape and Visual Impact (Construction Phase) | | | | | | |
| Table 10.8.1/ Landscape Mitigation Plan | CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape. | Avoid impact on adjacent landscape areas | CEDD (via Contractor) | General | Construction planning and during construction period | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM2 - Reduction of construction period to practical minimum. | Minimise duration of impact | CEDD (via Contractor) | N/A | Construction planning | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate. | To allow re-use of topsoil | CEDD (via Contractor) | General | Site clearance | As per the Particular Specification |
| Table 10.8.1/ Landscape Mitigation Plan | CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage). | To minimize tree loss | CEDD (via Contractor) | As per approved Tree Removal Application(s) | Site clearance and throughout construction period | ETWB TC 3/2006 and as per tree protection measures in Particular Specification |
| Table 10.8.1/ Landscape Mitigation Plan | CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme. | To maximize preservation of existing trees | CEDD (via Contractor) | As per approved Tree Removal Application(s) | Site clearance | ETWB TC 3/2006 and as per tree protection measures in Particular Specification |
| Table 10.8.1/ Landscape Mitigation Plan | CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years. | To maximize screening of the works | CEDD (via Contractor) | At Lam Tin Interchange and edge of Road P2 landscape deck, TKO | Beginning of construction period | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material | To reduce visual intrusion | CEDD (via Contractor) | General | Throughout construction period | As per Particular Specification |
| Table 10.8.1/ Landscape Mitigation Plan | CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods. | To reduce visual intrusion | CEDD (via Contractor) | General | Throughout construction period | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area | Reduction of visual intrusion | CEDD (via Contractor) | Project site Boundary | Excretion of site hoarding | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM10 - Avoidance of excessive height and bulk of site buildings and structure | Reduction of visual intrusion and integration with environment | CEDD (via Contractor) | Built structures | Design and construction stage | N/A |
| Table 10.8.1/ Landscape Mitigation Plan | CM11 - Limitation of run-off into freshwater streams, ponds and sea areas | Avoidance of contamination of water courses and water bodie | CEDD (via Contractor) | TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks | Throughout construction period | N/A |
| Table 10.8.1 | CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte | Minimise loss of Junk Bay and integration with existing coastlin | CEDD (via Contractor) | Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2 | Construction planning and reclamation stages | N/A |
| Landfill Gas Hazard (Design and Construction Phase) | | | | | | |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| S11.5.9 | <p>A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below:</p> <p>Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%</p> | Protect the workers from landfill gas hazards | Contractor | Project sites within the Sai Tso Wan Landfill Consultation Zone | Construction phase | EPD's Landfill Gas Hazard Assessment Guidance Note |
| S11.5.10 S11.5.25 | <p>Safety Measures</p> <ul style="list-style-type: none"> For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air. Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. | Protect the workers from landfill gas hazards | Contractor | Project sites within the Sai Tso Wan Landfill Consultation Zone | Construction phase | EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------------------------------------|
| | <ul style="list-style-type: none"> • During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. • Fire drills should be organized at not less than six monthly intervals. • The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. • All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. • Service runs within the Consultation Zone should be designated as “special routes”; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). • Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. | | | | | |
| S11.5.26 - S11.5.31 | <p>Monitoring</p> <ul style="list-style-type: none"> • Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. • For excavations deeper than 1m, measurements should be carried out: <ul style="list-style-type: none"> • at the ground surface before excavation commences;- • immediately before any worker enters the excavation; • at the beginning of each working day for the entire period the excavation remains open; and • periodically throughout the working day whilst workers are in the excavation. • For excavations between 300mm and 1m deep, measurements should be carried out: <ul style="list-style-type: none"> • directly after the excavation has been completed; and • periodically whilst the excavation remains open. • For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. • Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. | Protect the workers from landfill gas hazards | Contractor | Project sites within the Sai Tso Wan Landfill Consultation Zone | Construction phase | EPD’s Landfill Gas Hazard Assessment Guidance Note |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------|-------------------------------------------------------------|
| | <ul style="list-style-type: none"> The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. | | | | | |
| S11.5.32 | The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note. | construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards | Contractor | Project sites within the Sai Tso Wan Landfill Consultation Zone | Construction phase | EPD's Landfill Gas Hazard Assessment Guidance Note |

Table II - Observation / Reminder / Non-compliance made during Site Audit

Key: ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit
 ✗ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
 # Follow up action will be reported in next reporting month
 * Non-compliance of mitigation measure
 - Non-compliance but improved by the contractor

| EIA Ref | Recommended Mitigation Measures | Contract No. | Work Sites | Details of Reminder/Observation | Recorded Date | Status |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------|
| Water Quality Impact | | | | | | |
| S5.8.12 | Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. | NE2015/01 | WVB/ CKL | The contractor is reminded to avoid ponding of water. | 4-Aug-21 18-Aug-21 25-Aug-21 | ✓ |
| S5.8.5 | It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents. | NE2015/01 | CKL | The contractor is reminded to keep waterproof filters in good condition. | 4-Aug-21 | ✓ |
| S5.8.5 | It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents. | NE2017/06 | Storage area | The Contractor is reminded to clear the drainage to maintain its capacity. | 29-Jul-21 | ✓ |
| S5.8.12 | Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. | NE2015/01 | WVB/ CKL | The Contractor is reminded to remove the accumulated waste from drainage. | 1-Sep-21 | ✓ |
| S5.8.5 | It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents. | NE2015/01 | CKL | The Contractor is reminded to provide a suitable channel for stormwater diversion. | 8-Sep-21 | ✓ |
| Ecological Impact | | | | | | |
| -- | | | | | | |
| Construction Noise Impact | | | | | | |
| 0 | Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. | NE2015/01 | Portion III | The contractor is reminded to cover PME with acoustic sheets | 18-Aug-21 | ✓ |
| Noise Mitigation Plan | Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan | NE2015/02 | Portion IX | More than 1 breaker is observed in Portion IX. Despite some of them is working, the Contractor shall keep in mind only 1 breaker is allowed to operate at Portion IX anytime (in accordance with CNMP v.24) | 23-Sep-21 | ✓ |
| Landscaping and Visual Impact | | | | | | |
| -- | | | | | | |
| Air Quality Impact | | | | | | |
| S3.8.1 | Watering eight times a day on active works areas, exposed areas and paved haul roads. | NE2015/02 | Portion IX | The contractor is reminded to sprinkle water regularly to suppress dust | 19-Aug-21 | ✓ |
| S3.8.7 | Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. | NE2015/01 | Portion III WAI | The Contractor is reminded to cover stockpile of dusty material | 15-Sep-21 29-Sep-21 | ✓ # |
| S3.8.1 | Watering eight times a day on active works areas, exposed areas and paved haul roads. | NE2015/01 | Portion III | The Contractor shall water regularly to suppress dust emission | 15-Sep-21 29-Sep-21 | ✓ # |
| S3.8.7 | Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. | NE2015/01 | Portion III | The Contractor is reminded to make the materials wet before grabbing them to suppress the dust emission. | 6-Oct-21 | ✓ |
| Fisheries Impact | | | | | | |
| -- | | | | | | |
| Waste Management | | | | | | |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/01 | Portion III | Waste/Chemical Management | 4-Aug-21 25-Aug-21 | ✓ |
| 0 | Provision of sufficient waste disposal points and regular collection of waste. | NE2015/02 | Portion IX | The Contractor is reminded to remove the accumulated waste outside the office. | 19-Aug-21 | ✓ |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/02 | Portion IX | The contractor is reminded to clear the drip tray. | 26-Aug-21 | ✓ |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/01 | TKO Cavern Exit TKO Bridge S2 Tunnel | The Contractor is reminded to provide a drip tray for chemical | 8-Sep-21 15-Sep-21 23-Sep-21 | ✓ ✓ # |
| -- | Provision of sufficient waste disposal points and regular collection of waste; | NE2015/01 | Portion III TKO Cavern Exit WAI | The Contractor is reminded to avoid waste accumulation. | 8-Sep-21 15-Sep-21 29-Sep-21 | ✓ ✓ ✓ |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/01 | TKO Cavern Exit | Chemical drip tray shall have adequate capacity to contain accidental leakage of chemical | 29-Sep-21 | ✓ |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/01 | TKO Bridge | Drip tray's hole shall be plugged. | 29-Sep-21 | ✓ |
| -- | Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycle of materials and their proper disposal. | NE2015/01 | TKO Bridge | General waste and construction waste shall be disposed separately. | 29-Sep-21 | ✓ |
| S5.8.17 | Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. | NE2015/01 | Lam Tin Roundabout | Oil stain shall be removed. | 29-Sep-21 | ✓ |
| -- | Provision of sufficient waste disposal points and regular collection of waste; | NE2015/02 | Portion IX | The Contractor is reminded to remove accumulated waste. | 2-Sep-21 30-Sep-21 | ✓ # |
| S5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bands of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | NE2015/01 | Lam Tin Roundabout | The Contractor is reminded to provide a drip tray for chemical | 27-Oct-21 | ✓ |
| Landfill Gas Hazards | | | | | | |
| -- | | | | | | |

**APPENDIX J
WASTE GENERATED QUANTITY**

Monthly Summary Waste Flow Table for Oct 2021



| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|-----------|------------------------------------------------------------|----------------------------------------|---------------------------|-----------------------------|----------------------------|--------------------------|---------------------------------------------------|------------------------------------------------|---------------------------------------------|-------------------|--------------------------------|
| | a.Total Quantity Generated (see Note 8) | b. Hard Rock and Large Broken Concrete | c. Reused in the Contract | d. Reused in Other Projects | e. Disposed as Public Fill | f. Imported Fill | g. Metals (see Note 5) | h. Paper / Cardboard Packaging (see Note 5) | i. Plastics (see Note 3) (see Note 5) | j. Chemical Waste | k. 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 '000m ³) |
| January | 11.091 | 6.430 | 0.000 | 6.430 | 4.661 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.239 |
| February | 14.149 | 4.329 | 0.000 | 4.329 | 9.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.533 |
| March | 9.334 | 5.356 | 0.000 | 5.356 | 3.978 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.901 |
| April | 24.397 | 4.352 | 0.000 | 4.352 | 20.045 | 0.000 | 0.000 | 0.000 | 0.000 | 1.680 | 0.675 |
| May | 18.246 | 2.529 | 0.000 | 2.529 | 15.717 | 0.000 | 0.000 | 0.000 | 0.000 | 0.165 | 0.502 |
| June | 10.865 | 2.010 | 0.000 | 2.010 | 8.855 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.599 |
| Sub-total | 88.082 | 25.006 | 0.000 | 25.006 | 63.076 | 0.000 | 0.000 | 0.000 | 0.000 | 1.845 | 3.449 |
| July | 15.102 | 2.042 | 0.000 | 2.042 | 13.060 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.627 |
| August | 9.861 | 0.869 | 0.000 | 0.869 | 8.992 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.881 |
| September | 10.134 | 1.325 | 0.000 | 1.325 | 8.809 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.961 |
| October | 9.184 | 0.554 | 0.000 | 0.554 | 8.630 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.958 |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| Total | 132.363 | 29.796 | 0.000 | 29.796 | 102.567 | 0.000 | 0.000 | 0.000 | 0.000 | 1.845 | 6.876 |

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

$$\% \text{ of recycled inert C\&D waste} = \frac{\text{Total C\&D waste recycled}}{\text{Total C\&D waste generated}}$$

Name of Department: Civil Engineering Development Department

Contract No.: NE/2015/01



Notes: (1) The performance target are given in PS Clause 6(14)

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

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

(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m³. (PS Clause 1.105(4) refers)

(5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.

(6) Conversion factors for reporting purpose:

in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³

(7) excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³, soil and rock = 1.9 tonnes/m³

(8) C&D Waste = 0.9 tonnes/m³; bentonite slurry = 2.8 tonnes/m³

Diesel density: 0.8kg/l

Numbers are rounded off to the nearest three decimal places

The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"

Monthly Summary Waste Flow Table for 2021 Year

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|------------------|------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|-----------------------------|-----------------------|----------------|----------------------------|
| | Total Quantity Generated | Hard Rock and Large Borken Concrete | Reused in the Contract | Reused in other Projects | Disposal as Public Fill | Imported Fill | Metals | Paper / Cardboard Packaging | Plastics (See note 3) | Chemical Waste | Other, 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 '000m ³] |
| Jan | 2.66301 | 0.00000 | 0.00000 | 0.00000 | 2.66301 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.11320 |
| Feb | 0.89033 | 0.00000 | 0.00000 | 0.00000 | 0.89033 | 0.00000 | 14.25000 | 0.00000 | 0.00000 | 0.00000 | 0.12088 |
| Mar | 0.44910 | 0.00000 | 0.00000 | 0.00000 | 0.44910 | 0.00000 | 26.19000 | 0.00000 | 0.00000 | 0.00000 | 0.09580 |
| Apr | 1.77404 | 0.00000 | 0.00000 | 0.00000 | 1.77404 | 0.00000 | 42.72000 | 0.00000 | 0.00000 | 0.00000 | 0.11686 |
| May | 4.14261 | 0.00000 | 0.00000 | 0.00000 | 4.14261 | 0.00000 | 17.80000 | 0.00000 | 0.00000 | 0.00000 | 0.17156 |
| June | 4.91083 | 0.00000 | 0.00000 | 0.00000 | 4.91083 | 0.00000 | 44.94000 | 0.00000 | 0.00000 | 0.00000 | 0.63252 |
| SUB-TOTAL | 14.82991 | 0.00000 | 0.00000 | 0.00000 | 14.82991 | 0.00000 | 145.90000 | 0.00000 | 0.00000 | 0.00000 | 1.25082 |
| Jul | 5.10758 | 0.00000 | 0.00000 | 0.00000 | 5.10758 | 0.00000 | 65.86000 | 0.00000 | 0.00000 | 0.00000 | 0.16568 |
| Aug | 5.63826 | 0.00000 | 0.00000 | 0.00000 | 5.63826 | 0.00000 | 102.12000 | 0.00000 | 0.00000 | 0.00000 | 0.15174 |
| Sep | 3.46939 | 0.00000 | 0.00000 | 0.00000 | 3.46939 | 0.00000 | 242.16000 | 0.00000 | 0.00000 | 0.00000 | 0.12778 |
| Oct | 0.71106 | 0.00000 | 0.00000 | 0.00000 | 0.71106 | 0.00000 | 120.67000 | 0.00000 | 0.00000 | 0.00000 | 0.18270 |
| Nov | 0.00000 | | | | | | | | | | |
| Dec | 0.00000 | | | | | | | | | | |
| TOTAL | 29.75619 | 0.00000 | 0.00000 | 0.00000 | 29.75619 | 0.00000 | 676.71000 | 0.00000 | 0.00000 | 0.00000 | 1.87872 |

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002
 Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005
 Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material
 Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



Monthly Summary of Waste Flow Table for 2021

Name of Person completing the Record: Steve Wong

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
|--------------------------|------------------------------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------------------------------------------|----------------------------|--------------|--------------------------|-----------------------------|
| | Total Quantity Generated | Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Metals | Paper/ cardboard packaging | Plastics | Chemical Waste | Others, e.g. general refuse |
| | | (see Note 1) | | | | | | (see Note 2) | | |
| (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000 Kg) | (in '000 Kg) | (in '000 Kg) | (in '000 Kg) | (in '000m ³) | |
| Jan | 0.5830 | 0 | 0 | 0 | 0.5830 | 0 | 0 | 0 | 0 | 0.0032 |
| Feb | 0.2614 | 0 | 0 | 0 | 0.2614 | 0 | 0 | 0 | 0 | 0.0081 |
| Mar | 0.7659 | 0 | 0 | 0 | 0.7659 | 0 | 0 | 0 | 0 | 0.0078 |
| Apr | 0.1487 | 0 | 0 | 0 | 0.1487 | 0 | 0 | 0 | 0 | 0.0089 |
| May | 0.1876 | 0 | 0 | 0 | 0.1876 | 0 | 0 | 0 | 0 | 0.0053 |
| Jun | 0.1218 | 0 | 0 | 0 | 0.1218 | 0 | 0 | 0 | 0 | 0.0149 |
| Sub-total | 2.0684 | 0 | 0 | 0 | 2.0684 | 0 | 0 | 0 | 0 | 0.0482 |
| Jul | 0.3437 | 0 | 0 | 0 | 0.3437 | 0 | 0 | 0 | 0 | 0.0114 |
| Aug | 0.0399 | 0 | 0 | 0 | 0.0399 | 0 | 0 | 0 | 0 | 0.0141 |
| Sep | 0.4300 | 0 | 0 | 0 | 0.4300 | 0 | 0 | 0 | 0 | 0.00887 |
| Oct | 0.1588 | 0 | 0 | 0 | 0.1588 | 0 | 0 | 0 | 0 | 0.0288 |
| Nov | 0.0000 | 0 | 0 | 0 | 0.0000 | 0 | 0 | 0 | 0 | 0 |
| Dec | 0.0000 | 0 | 0 | 0 | 0.0000 | 0 | 0 | 0 | 0 | 0 |
| Total | 3.0408 | 0 | 0 | 0 | 3.0408 | 0 | 0 | 0 | 0 | 0.1114 |

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m³ / 8.125 m³ by volume.



Monthly Summary Waste Flow Table For 2021

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|------------------|------------------------------------------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|----------------------------|-------------|----------------|-----------------------------|
| | Total Quantity Generated | Hard Rock & Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ Cardboard Packaging | Plastics | 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 '000m ³) |
| Jan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.003 |
| Feb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.006 |
| Mar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.003 |
| Jun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.012 |
| Jul | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aug | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.006 |
| Oct | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.018 |

- Notes:
- (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 - (2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.
 - (3) Each dump truck carries 6m³ of general refuse.
 - (4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 October 2021 to 31 October 2021.

Monthly Summary Waste Flow Table for 2021

Name of Department: Civil Engineering and Development Department

Contract No.: NE/2017/01

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|-----------|------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|----------------------------|-------------|----------------|-----------------------------|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics | 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 '000m ³) |
| Jan | 0.0132 | 0.0000 | 0.0000 | 0.0000 | 0.0132 | 0.0000 | 9.0500 | 0.0000 | 0.0000 | 0.0000 | 0.0107 |
| Feb | 0.0374 | 0.0000 | 0.0000 | 0.0000 | 0.0374 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0077 |
| Mar | 0.4590 | 0.0000 | 0.0000 | 0.0000 | 0.0459 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0123 |
| Apr | 0.0058 | 0.0000 | 0.0000 | 0.0000 | 0.0058 | 0.0000 | 14.4200 | 0.0000 | 0.0000 | 0.0000 | 0.0216 |
| May | 0.0224 | 0.0000 | 0.0000 | 0.0000 | 0.0224 | 0.0000 | 28.3400 | 0.0000 | 0.0000 | 0.0000 | 0.0296 |
| Jun | 0.0061 | 0.0000 | 0.0000 | 0.0000 | 0.0061 | 0.0000 | 51.5900 | 0.0000 | 0.0000 | 0.0000 | 0.0137 |
| Sub-total | 0.5439 | 0.0000 | 0.0000 | 0.0000 | 0.1309 | 0.0000 | 103.4000 | 0.0000 | 0.0000 | 0.0000 | 0.0956 |
| Jul | 0.0110 | 0.0000 | 0.0000 | 0.0000 | 0.0110 | 0.0000 | 134.480 | 0.0000 | 0.0000 | 0.0000 | 0.0169 |
| Aug | 0.0051 | 0.0000 | 0.0000 | 0.0000 | 0.0051 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0418 |
| Sep | 0.0191 | 0.0000 | 0.0000 | 0.0000 | 0.0191 | 0.0000 | 90.3300 | 0.0000 | 0.0000 | 0.2000 | 0.0395 |
| Oct | 0.0283 | 0.0000 | 0.0000 | 0.0000 | 0.0283 | 0.0000 | 28.9700 | 0.0000 | 0.0000 | 0.0000 | 0.0322 |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 0.6074 | 0.0000 | 0.0000 | 0.0000 | 0.1944 | 0.0000 | 357.1800 | 0.0000 | 0.0000 | 0.2000 | 0.2260 |

- Notes:
1. Assume the density of soil fill is 2 ton/m³.
 2. Assume the density of rock and broken concrete is 2.5 ton/m³.
 3. Assume the density of mixed rock and soil is 1.9 ton/m³.
 4. Assume the density of slurry and bentonite is 2.8 ton/m³.
 5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.
 6. Assume the density of C&D waste is 0.9 ton/m³.
 7. The non-inert C&D wastes are disposed at NENT.

Monthly Summary Waste Flow Table for 2021 (year)

Name of Person completing the record: Calvin So (EO)

Project : Cross Bay Link, TKO, Main Bridge and Associated Works

Contract No.: NE/2017/07

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|-----------|------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------------------|----------------------------|--------------------------|----------------|-----------------------------|
| | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard 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 '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000 m ³) |
| Jan | 0.132 | 0.000 | 0.000 | 0.000 | 0.132 | 0.000 | 0.000 | 0.113 | 0.000 | 0.000 | 0.399 |
| Feb | 0.108 | 0.000 | 0.000 | 0.000 | 0.108 | 0.000 | 0.000 | 0.186 | 0.000 | 0.000 | 0.351 |
| Mar | 0.060 | 0.000 | 0.000 | 0.000 | 0.060 | 0.000 | 0.000 | 0.099 | 0.000 | 0.000 | 0.512 |
| Apr | 0.018 | 0.000 | 0.000 | 0.000 | 0.018 | 0.000 | 0.000 | 0.121 | 0.000 | 0.000 | 0.283 |
| May | 0.576 | 0.000 | 0.000 | 0.000 | 0.576 | 0.000 | 0.000 | 0.103 | 0.000 | 0.000 | 0.278 |
| Jun | 1.170 | 0.000 | 0.000 | 0.000 | 1.170 | 0.000 | 0.000 | 0.210 | 0.000 | 0.000 | 0.437 |
| Sub-total | 2.064 | 0.000 | 0.000 | 0.000 | 2.064 | 0.000 | 0.000 | 0.832 | 0.000 | 0.000 | 2.259 |
| Jul | 0.060 | 0.000 | 0.000 | 0.000 | 0.060 | 0.000 | 0.000 | 0.155 | 0.000 | 0.000 | 0.204 |
| Aug | 0.018 | 0.000 | 0.000 | 0.000 | 0.018 | 0.000 | 0.000 | 0.170 | 0.000 | 0.000 | 0.157 |
| Sep | 0.066 | 0.000 | 0.000 | 0.000 | 0.066 | 0.000 | 0.000 | 0.141 | 0.000 | 0.000 | 0.284 |
| Oct | 0.036 | 0.000 | 0.000 | 0.000 | 0.036 | 0.000 | 0.000 | 0.151 | 0.000 | 0.000 | 0.211 |
| Nov | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Dec | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 2.244 | 0.000 | 0.000 | 0.000 | 2.244 | 0.000 | 0.000 | 1.449 | 0.000 | 0.000 | 3.116 |

Note:

1. For non-inert portion of C&D material, assume the density of 1 m³ general refuse is equal to 200 kg.
2. For inert portion of C&D material, assume 6 m³ per each full-filled dump truck.
3. All values are round off to the third decimal places.

**APPENDIX K
SUMMARY OF EXCEEDANCE**

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel – Design and Construction
Appendix K-1 – Summary of Exceedance

Reporting Period: August 2021 – October 2021

(A) Exceedance Report for Air Quality

Action Level for Air Quality

(NIL in the reporting quarter)

Limit Level for Air Quality

One (1) Limit Level Exceedance was recorded in the reporting quarter. The details shall be referred to Appendix K-2.

Non-Compliance for Air Quality

One (1) Action Level Exceedance was recorded in the reporting quarter. The details shall be referred to Appendix K-2

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

Four (4) Action Level exceedances were recorded due to the documented complaints received from monitoring station in the reporting quarter. Please refer to the complaint log in Appendix L.

Limit Level for Construction Noise

No Limit Level exceedance was recorded in the reporting quarter. The details shall be referred to Appendix K-2.

Non-Compliance for Construction Noise

(NIL in the reporting quarter)

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O - Lam Tin Tunnel – Design and Construction
Appendix K-1 – Summary of Exceedance

(C) Exceedance Report for Water Quality

Groundwater Quality

Since October 2019, groundwater monitoring had been suspended.

Marine water Quality

Ninety-three (93) Action Level exceedances and two-hundred forty-seven (247) Limit Level Exceedances in Marine Water Quality were recorded in the reporting quarter. (Please refer to Appendix K-2.)

(D) Exceedance Report for Ecology

(NIL in the reporting quarter)

(E) Exceedance Report for Cultural Heritage

(NIL in the reporting quarter)

(F) Exceedance Report for Landfill Gas

(NIL in the reporting quarter)

Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel

- Notification of Exceedances

NOE No. 210915_Air (AM1) & 210929_Air (AM1)

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Air Quality (24hr-TSP)

| Station | Location | Time | Filter Weight (g) Initial | Filter Weight (g) Final | Particulate Weight (g) | Particulate Concentration (µg/m3) | Action Level: (µg/m3) | Limit Level: (µg/m3) | Level exceeded |
|---------|----------------|--------------------------------------------|------------------------------|----------------------------|---------------------------|--------------------------------------|--------------------------|-------------------------|-------------------|
| AM1 | Tin Hau Temple | 0900 (15 Sep 2021) – 0900 (16 Sep 2021) | 3.6920 | 4.5438 | 0.8518 | <u>485.2</u> | 173 | <u>260</u> | Limit |
| | | 0900 (28 Sep 2021) – 0900 (29 Sep 2021) | 3.6655 | 4.0862 | 0.4207 | <u>239.8</u> | | | Action |

Field Observation(s) and Conclusion

(a) Statement of exceedance(s)

Air quality measured at AM1 exceeded the air quality action & limit levels for 24-hour TSP monitoring.

(b) Cause of exceedance(s)

- Renovation of Tin Hau Temple was undergoing since mid-May 2021;
- According to our field observation, piles of renovation material were scattered around Tin Hau Temple during the monitoring period (also see the attachment). Frequent material transportation may cause dust nuisance to the surrounding.
- Dust generating activities (cement mixing) by renovation staff was observed on-site
- Joss paper furnace was found next to the high volume sampler (HVS), which may affect the result if incense burning was conducted.
- Various air-quality-related environmental deficiencies regarding NE2015/01 were recorded by various parties during September 2021.

Part B – Conclusion: No clear deduction can be made base on the information.

Part C – Recommendation: The Contractor shall continue good site practice such as covering open stockpiles, water frequently and reduce dropping height of dusty material to minimize the potential air quality impact.

ETL Signature: 

Date: 5 October 2021

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O – Lam Tin Tunnel –

Notification of Exceedances

Supplementary Information



Photo 1 – Recent condition of the High Volume Sampler (HVS) at AM1, Tin Hau Temple. Debris and waste were scattered around the HVS (Taken on 29 Sep 2021)

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O – Lam Tin Tunnel –
Notification of Exceedances
Supplementary Information



Photo 2 – The HVS was swallowed by bags of dusty materials and the joss furnace located near the HVS. (Taken on 29 Sep 2021)

Please scan the QR Code for the video



Video 1



Video 2

Video 1 & 2 – The workers are mixing cement next to the HVS (Recorded on 29 Sep 2021)

Agreement No. CE 59/2015 (EP)
Environmental Team for Tseung Kwan O – Lam Tin Tunnel –
Notification of Exceedances
Supplementary Information



Photo 3 & 4 – Observation of construction dust made by EPD Team on 9 Sep 2021



Photo 5 & 6 – Observation of air-quality-related environmental deficiency made by Environmental Team on 15 Sep 2021. Dusty material was leaking from the fabric attached to the tail of rock drill and a trail of dust was left behind (upper) stockpile of dusty material without fully covered (lower).

Agreement No. CE 59/2015 (EP)

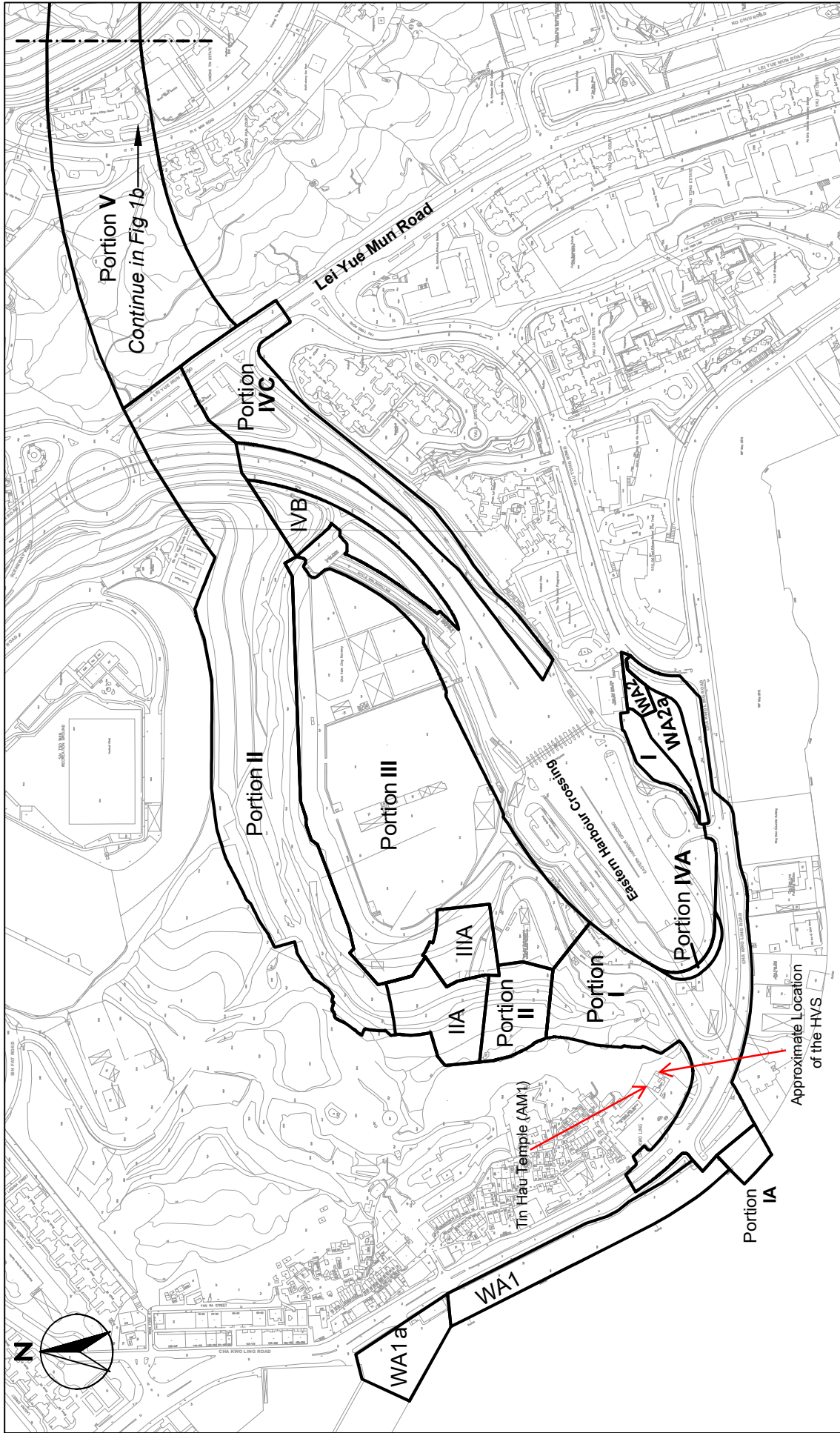
Environmental Team for Tseung Kwan O – Lam Tin Tunnel –

Notification of Exceedances

Supplementary Information



Photo 7 & 8 – Observation of air-quality-related environmental deficiency made by Environmental Team and Independent Environmental Checking on 29 Sep 2021. Stockpile of dusty material shall be covered at WCA (upper) and regular watering shall be applied at Cha Kwo Ling Road (lower).



| | | | | | |
|-------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|-----------------------------|
| CINOTECH Cinotech Consultants Limited | | Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel – Design and Construction Site Portions under Works Contract No. <u>NE/2015/01 (LT)</u> | | SCALE CHECK JOB NO. | DATE DRAWN FIGURE NO. |
| | | 1:5000@A4 CC MA16034 | 15 April 2021 KC 1 | | |

CINOTECH
 Cinotech Consultants Limited

Agreement No. CE 59/2015 (EP)
 Environmental Team for Tseung Kwan O – Lam Tin Tunnel – Design and Construction
 Site Portions under Works Contract No. NE/2015/01 (LT)

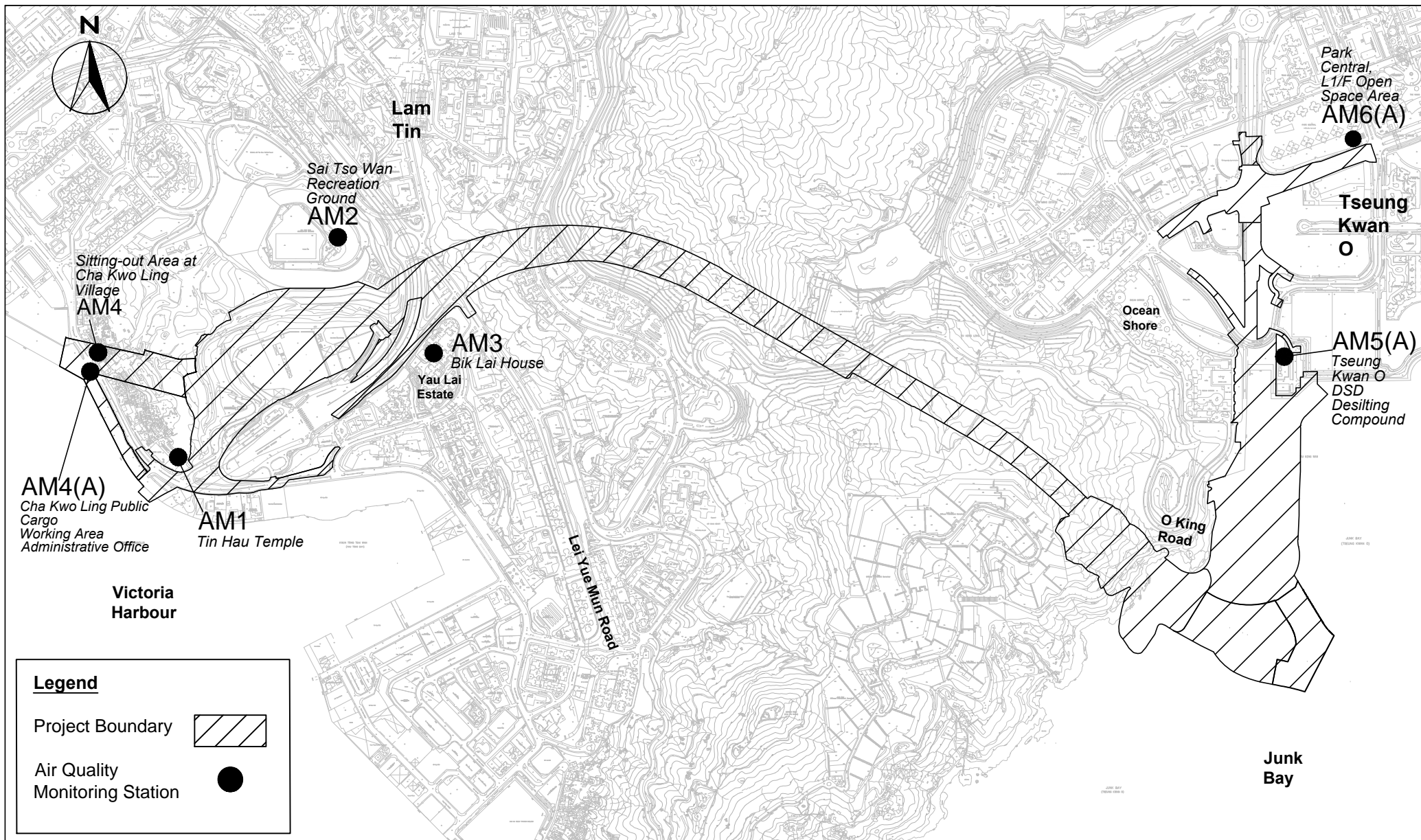
SCALE
 CHECK
 JOB NO.

DATE
 DRAWN
 FIGURE NO.

1:5000@A4
 CC
 MA16034

15 April 2021
 KC
 1

Tin Hau Temple (AM1)
 Eastern Harbour Crossing
 Lei Yue Mun Road
 Approximate Location of the HVS



| | | | | |
|---------|------------|------------|---------------|----------|
| SCALE | 1:13000@A4 | DATE | 11 March 2021 | |
| CHECK | CC | DRAWN | KC | |
| JOB No. | MA16034 | FIGURE NO. | 2 | REV - |

- Notification of Exceedance

Date of Water Quality Monitoring:

02 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.8 | G1 | 14:46 | 6.0 | 6.9 | 3.3 | 3.6 | <u>4.0</u> |
| Mid-Ebb | C2 | surface | 2.8 | G2 | 14:40 | 6.0 | 6.9 | 3.3 | 3.6 | <u>4.3</u> |
| Mid-Ebb | C2 | surface | 2.8 | G4 | 14:53 | 6.0 | 6.9 | 3.3 | 3.6 | <u>3.4</u> |
| Mid-Ebb | C2 | surface | 2.8 | M1 | 14:44 | 6.2 | 7.4 | 3.3 | 3.6 | <u>4.2</u> |
| Mid-Ebb | C2 | surface | 2.8 | M2 | 14:38 | 6.2 | 7.4 | 3.3 | 3.6 | <u>3.6</u> |
| Mid-Ebb | C2 | surface | 2.8 | M3 | 14:52 | 6.2 | 7.4 | 3.3 | 3.6 | <u>4.7</u> |
| Mid-Ebb | C2 | surface | 2.8 | M5 | 14:56 | 8.0 | 6.0 | 3.3 | 3.6 | <u>4.5</u> |
| Mid-Ebb | C2 | bottom | 3.5 | G3 | 14:48 | 6.9 | 7.9 | 4.1 | 4.5 | <u>5.1</u> |
| Mid-Ebb | C2 | bottom | 3.5 | M2 | 14:38 | 6.9 | 7.9 | 4.1 | 4.5 | <u>4.5</u> |
| Mid-Flood | C1 | surface | 3.5 | G3 | 15:10 | 6.0 | 6.9 | 4.1 | 4.5 | <u>5.2</u> |
| Mid-Flood | C1 | surface | 3.5 | G4 | 15:13 | 6.0 | 6.9 | 4.1 | 4.5 | <u>5.0</u> |
| Mid-Flood | C1 | surface | 3.5 | M5 | 15:18 | 6.2 | 7.4 | 4.1 | 4.5 | <u>4.3</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

02 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 5.3 | M4 | 15:00 | 6.4 | 6.9 | 6.5 |
| Intake | N/A | N/A | Mid-flood | C1 | 5.3 | M6 | 15:17 | 6.4 | 6.9 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: **04 August 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 5.8 | G2 | 9:03 | 6.0 | 6.9 | 6.9 | 7.5 | <u>7.0</u> |
| Mid-Flood | C1 | surface | 5.8 | G3 | 9:28 | 6.0 | 6.9 | 6.9 | 7.5 | 6.5 |
| Mid-Flood | C1 | surface | 5.8 | G4 | 9:44 | 6.0 | 6.9 | 6.9 | 7.5 | 6.5 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

04 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Intake | N/A | N/A | Mid-flood | C1 | 3.4 | M6 | 9:53 | 4.1 | 4.4 | <u>8.0</u> |

Note:

Bold means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

06 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.4 | G1 | 17:45 | 6.0 | 6.9 | 4.0 | 4.4 | <u>4.8</u> |
| Mid-Ebb | C2 | surface | 3.4 | G2 | 17:37 | 6.0 | 6.9 | 4.0 | 4.4 | <u>5.0</u> |
| Mid-Ebb | C2 | surface | 3.4 | G3 | 17:48 | 6.0 | 6.9 | 4.0 | 4.4 | <u>5.2</u> |
| Mid-Ebb | C2 | surface | 3.4 | G4 | 17:55 | 6.0 | 6.9 | 4.0 | 4.4 | <u>5.2</u> |
| Mid-Ebb | C2 | surface | 3.4 | M3 | 17:51 | 6.2 | 7.4 | 4.0 | 4.4 | <u>5.0</u> |
| Mid-Ebb | C2 | bottom | 4.5 | G1 | 17:45 | 6.9 | 7.9 | 5.3 | 5.8 | 7.0 |
| Mid-Flood | C1 | surface | 2.5 | G1 | 11:22 | 6.0 | 6.9 | 2.9 | 3.2 | <u>3.9</u> |
| Mid-Flood | C1 | surface | 2.5 | G2 | 11:14 | 6.0 | 6.9 | 2.9 | 3.2 | <u>3.6</u> |
| Mid-Flood | C1 | surface | 2.5 | G3 | 11:25 | 6.0 | 6.9 | 2.9 | 3.2 | <u>3.5</u> |
| Mid-Flood | C1 | surface | 2.5 | G4 | 11:32 | 6.0 | 6.9 | 2.9 | 3.2 | <u>3.2</u> |
| Mid-Flood | C1 | surface | 2.5 | M1 | 11:19 | 6.2 | 7.4 | 2.9 | 3.2 | <u>5.5</u> |
| Mid-Flood | C1 | surface | 2.5 | M2 | 11:10 | 6.2 | 7.4 | 2.9 | 3.2 | <u>4.8</u> |
| Mid-Flood | C1 | surface | 2.5 | M3 | 11:29 | 6.2 | 7.4 | 2.9 | 3.2 | <u>5.8</u> |
| Mid-Flood | C1 | surface | 2.5 | M4 | 17:29 | 6.2 | 7.4 | 2.9 | 3.2 | <u>3.6</u> |
| Mid-Flood | C1 | surface | 2.5 | M5 | 11:40 | 6.2 | 7.4 | 2.9 | 3.2 | <u>4.9</u> |
| Mid-Flood | C1 | bottom | 3.7 | G1 | 11:22 | 6.9 | 7.9 | 4.4 | 4.8 | <u>4.8</u> |
| Mid-Flood | C1 | bottom | 3.7 | G3 | 11:25 | 6.9 | 7.9 | 4.4 | 4.8 | <u>4.6</u> |
| Mid-Flood | C1 | bottom | 3.7 | G4 | 11:32 | 6.9 | 7.9 | 4.4 | 4.8 | <u>4.6</u> |
| Mid-Flood | C1 | bottom | 3.7 | M1 | 11:19 | 6.9 | 7.9 | 4.4 | 4.8 | <u>4.7</u> |
| Mid-Flood | C1 | bottom | 3.7 | M4 | 17:29 | 6.9 | 7.9 | 4.4 | 4.8 | <u>5.1</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

06 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|---------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 4.7 | G2 | 17:37 | 5.7 | 6.1 | 6.0 |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 4.7 | M5 | 18:04 | 5.7 | 6.1 | <u>7.8</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: 09 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 3.0 | G1 | 12:27 | 6.0 | 6.9 | 3.5 | 3.8 | 3.6 |
| Mid-Flood | C1 | surface | 3.0 | G4 | 12:48 | 6.0 | 6.9 | 3.5 | 3.8 | <u>5.5</u> |
| Mid-Flood | C1 | surface | 3.0 | M1 | 12:13 | 6.2 | 7.4 | 3.5 | 3.8 | 3.8 |
| Mid-Flood | C1 | surface | 3.0 | M2 | 12:01 | 6.2 | 7.4 | 3.5 | 3.8 | <u>4.8</u> |
| Mid-Flood | C1 | bottom | 3.9 | M3 | 12:42 | 6.9 | 7.9 | 4.7 | 5.1 | 4.8 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 09 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.4 | G1 | 12:27 | 1.7 | 1.9 | <u>2.0</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.4 | G3 | 12:34 | 1.7 | 1.9 | <u>2.0</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.4 | G4 | 12:48 | 1.7 | 1.9 | <u>3.3</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.4 | M1 | 12:13 | 1.7 | 1.9 | <u>4.4</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.4 | M3 | 12:42 | 1.7 | 1.9 | <u>3.0</u> |
| Intake | N/A | N/A | Mid-flood | C1 | 1.4 | M6 | 13:03 | 1.7 | 1.9 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

11 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.3 | M2 | 14:07 | 6.2 | 7.4 | 4.0 | 4.3 | 4.2 |
| Mid-Ebb | C2 | surface | 3.3 | M3 | 14:29 | 6.2 | 7.4 | 4.0 | 4.3 | <u>5.4</u> |
| Mid-Flood | C1 | surface | 3.3 | G1 | 14:23 | 6.0 | 6.9 | 4.0 | 4.3 | <u>5.3</u> |
| Mid-Flood | C1 | surface | 3.3 | G2 | 14:13 | 6.0 | 6.9 | 4.0 | 4.3 | <u>4.7</u> |
| Mid-Flood | C1 | surface | 3.3 | G4 | 14:34 | 6.0 | 6.9 | 4.0 | 4.3 | 6.3 |
| Mid-Flood | C1 | surface | 3.3 | M2 | 14:09 | 6.2 | 7.4 | 4.0 | 4.3 | 6.8 |
| Mid-Flood | C1 | surface | 3.3 | M5 | 14:45 | 6.2 | 7.4 | 4.0 | 4.3 | <u>5.4</u> |
| Mid-Flood | C1 | bottom | 4.9 | G1 | 14:23 | 6.9 | 7.9 | 5.9 | 6.4 | 6.3 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 11 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Intake | N/A | N/A | Mid-flood | C1 | 5.6 | M6 | 14:39 | 6.7 | 7.3 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

13 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|--------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | bottom | 3.1 | G2 | 12:06 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.7</u> |
| Mid-Ebb | C2 | bottom | 3.1 | G3 | 12:12 | 6.9 | 7.9 | 3.7 | 4.0 | <u>5.6</u> |
| Mid-Ebb | C2 | bottom | 3.1 | M2 | 12:02 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.3</u> |
| Mid-Ebb | C2 | bottom | 3.1 | M3 | 12:15 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.1</u> |
| Mid-Flood | C1 | bottom | 3.1 | G1 | 12:12 | 6.9 | 7.9 | 3.7 | 4.0 | 4.0 |
| Mid-Flood | C1 | bottom | 3.1 | G2 | 12:06 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.7</u> |
| Mid-Flood | C1 | bottom | 3.1 | G3 | 12:14 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.8</u> |
| Mid-Flood | C1 | bottom | 3.1 | M1 | 12:10 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.5</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

13 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 5.1 | G1 | 12:11 | 6.2 | 6.7 | 8.4 |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 5.1 | G3 | 12:12 | 6.2 | 6.7 | <u>10.9</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 5.1 | M2 | 12:02 | 6.2 | 6.7 | <u>10.0</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 5.1 | M3 | 12:15 | 6.2 | 6.7 | <u>7.2</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | G1 | 12:12 | 3.0 | 3.2 | <u>12.7</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | G3 | 12:14 | 3.0 | 3.2 | <u>27.9</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | G4 | 12:17 | 3.0 | 3.2 | <u>5.1</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | M1 | 12:10 | 3.0 | 3.2 | <u>6.3</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | M2 | 12:04 | 3.0 | 3.2 | <u>8.9</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | M3 | 12:15 | 3.0 | 3.2 | <u>9.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.5 | M5 | 12:23 | 3.0 | 3.2 | <u>3.1</u> |
| Intake | N/A | N/A | Mid-flood | C1 | 2.5 | M6 | 12:18 | 3.0 | 3.2 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

16 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.8 | G2 | 12:53 | 6.0 | 6.9 | 3.4 | 3.6 | 3.6 |
| Mid-Ebb | C2 | surface | 2.8 | G3 | 13:03 | 6.0 | 6.9 | 3.4 | 3.6 | <u>4.0</u> |
| Mid-Ebb | C2 | surface | 2.8 | G4 | 13:10 | 6.0 | 6.9 | 3.4 | 3.6 | <u>4.6</u> |
| Mid-Ebb | C2 | surface | 2.8 | M1 | 12:57 | 6.2 | 7.4 | 3.4 | 3.6 | <u>6.2</u> |
| Mid-Ebb | C2 | surface | 2.8 | M2 | 12:49 | 6.2 | 7.4 | 3.4 | 3.6 | <u>4.5</u> |
| Mid-Ebb | C2 | surface | 2.8 | M3 | 13:06 | 6.2 | 7.4 | 3.4 | 3.6 | <u>5.8</u> |
| Mid-Ebb | C2 | surface | 2.8 | M4 | 12:45 | 6.2 | 7.4 | 3.4 | 3.6 | <u>7.5</u> |
| Mid-Ebb | C2 | surface | 2.8 | M5 | 13:25 | 8.0 | 6.0 | 3.4 | 3.6 | <u>5.6</u> |
| Mid-Ebb | C2 | bottom | 4.7 | M4 | 12:45 | 6.9 | 7.9 | 5.6 | 6.0 | 5.8 |
| Mid-Flood | C1 | surface | 7.1 | M4 | 12:45 | 6.2 | 7.4 | 8.5 | 9.2 | <u>7.5</u> |
| Mid-Flood | C1 | bottom | 4.6 | M4 | 12:45 | 6.9 | 7.9 | 5.5 | 6.0 | 5.8 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

16 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 5.4 | G4 | 17:55 | 6.5 | 7.1 | 6.7 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 5.4 | M5 | 18:13 | 6.5 | 7.1 | 7.0 |
| Intake | N/A | N/A | Mid-flood | C1 | 5.4 | M6 | 18:06 | 6.5 | 7.1 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: 18 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | bottom | 3.1 | M5 | 17:24 | 6.9 | 7.9 | 3.7 | 4.0 | 4.0 |
| Mid-Flood | C1 | surface | 4.3 | M5 | 9:45 | 6.2 | 7.4 | 5.2 | 5.6 | 5.4 |
| Mid-Flood | C1 | bottom | 3.3 | G1 | 9:25 | 6.9 | 7.9 | 3.9 | 4.2 | <u>4.6</u> |
| Mid-Flood | C1 | bottom | 3.3 | M1 | 9:21 | 6.9 | 7.9 | 3.9 | 4.2 | <u>4.5</u> |
| Mid-Flood | C1 | bottom | 3.3 | M2 | 9:09 | 6.9 | 7.9 | 3.9 | 4.2 | <u>5.4</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

18 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | G1 | 17:04 | 4.5 | 4.8 | <u>10.7</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | G2 | 16:59 | 4.5 | 4.8 | <u>6.5</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | G3 | 17:07 | 4.5 | 4.8 | <u>10.7</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | G4 | 17:14 | 4.5 | 4.8 | <u>9.5</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | M1 | 17:03 | 4.5 | 4.8 | <u>6.3</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | M2 | 16:54 | 4.5 | 4.8 | <u>9.2</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | M3 | 17:10 | 4.5 | 4.8 | <u>13.2</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | M4 | 16:48 | 4.5 | 4.8 | <u>5.1</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.7 | M5 | 17:24 | 4.5 | 4.8 | <u>5.6</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 6.3 | G1 | 9:25 | 7.5 | 8.1 | <u>10.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 6.3 | G2 | 9:14 | 7.5 | 8.1 | <u>7.7</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 6.3 | G3 | 9:28 | 7.5 | 8.1 | <u>14.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 6.3 | M2 | 9:09 | 7.5 | 8.1 | <u>8.4</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 6.3 | M3 | 9:32 | 7.5 | 8.1 | <u>8.7</u> |
| Intake | N/A | N/A | Mid-flood | C1 | 6.3 | M6 | 9:41 | 7.5 | 8.1 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

20 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 4.0 | G2 | 10:19 | 6.0 | 6.9 | 4.7 | 5.1 | 5.1 |
| Mid-Ebb | C2 | surface | 4.0 | M1 | 10:27 | 6.2 | 7.4 | 4.7 | 5.1 | <u>5.7</u> |
| Mid-Ebb | C2 | surface | 4.0 | M5 | 11:17 | 8.0 | 6.0 | 4.7 | 5.1 | 4.8 |
| Mid-Flood | C1 | bottom | 3.3 | G3 | 17:48 | 6.9 | 7.9 | 3.9 | 4.2 | <u>4.3</u> |
| Mid-Flood | C1 | bottom | 3.3 | M3 | 17:56 | 6.9 | 7.9 | 3.9 | 4.2 | <u>4.5</u> |
| Mid-Flood | C1 | bottom | 3.3 | M4 | 10:07 | 6.9 | 7.9 | 3.9 | 4.2 | 4.0 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 20 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | M1 | 17:27 | 2.0 | 2.2 | 2.1 |
| Intake | N/A | N/A | Mid-flood | C1 | 1.7 | M6 | 18:16 | 2.0 | 2.2 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - **Notification of Exceedance**

Date of Water Quality Monitoring: **23 August 2021**

Part A – Exceedance Summary Tables

Table I: **Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)**

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 3.9 | G3 | 13:22 | 6.0 | 6.9 | 4.6 | 5.0 | 4.8 |
| Mid-Flood | C1 | surface | 3.9 | M2 | 13:08 | 6.2 | 7.4 | 4.6 | 5.0 | <u>5.9</u> |
| Mid-Flood | C1 | surface | 3.9 | M3 | 13:24 | 6.2 | 7.4 | 4.6 | 5.0 | <u>5.4</u> |
| Mid-Flood | C1 | bottom | 3.6 | G4 | 13:27 | 6.9 | 7.9 | 4.3 | 4.6 | <u>5.4</u> |
| Mid-Flood | C1 | bottom | 3.6 | M1 | 13:15 | 6.9 | 7.9 | 4.3 | 4.6 | <u>5.9</u> |
| Mid-Flood | C1 | bottom | 3.6 | M5 | 13:40 | 6.9 | 7.9 | 4.3 | 4.6 | <u>4.8</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 23 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Intake | N/A | N/A | Mid-flood | C1 | 4.3 | M6 | 13:32 | 5.2 | 5.6 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

25 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 6.7 | G1 | 7:52 | 6.0 | 6.9 | 8.0 | 8.7 | 6.2 |
| Mid-Ebb | C2 | surface | 6.7 | G2 | 7:42 | 6.0 | 6.9 | 8.0 | 8.7 | 6.7 |
| Mid-Ebb | C2 | surface | 6.7 | G3 | 7:55 | 6.0 | 6.9 | 8.0 | 8.7 | 8.4 |
| Mid-Ebb | C2 | surface | 6.7 | G4 | 8:06 | 6.0 | 6.9 | 8.0 | 8.7 | 8.3 |
| Mid-Ebb | C2 | surface | 6.7 | M1 | 7:46 | 6.2 | 7.4 | 8.0 | 8.7 | 7.7 |
| Mid-Ebb | C2 | surface | 6.7 | M2 | 7:38 | 6.2 | 7.4 | 8.0 | 8.7 | 8.1 |
| Mid-Ebb | C2 | surface | 6.7 | M3 | 8:02 | 6.2 | 7.4 | 8.0 | 8.7 | 7.8 |
| Mid-Ebb | C2 | surface | 6.7 | M4 | 7:33 | 6.2 | 7.4 | 8.0 | 8.7 | 6.6 |
| Mid-Ebb | C2 | surface | 6.7 | M5 | 8:17 | 8.0 | 6.0 | 8.0 | 8.7 | 7.0 |
| Mid-Ebb | C2 | bottom | 7.9 | G1 | 7:52 | 6.9 | 7.9 | 9.5 | 10.3 | 7.1 |
| Mid-Ebb | C2 | bottom | 7.9 | G2 | 7:42 | 6.9 | 7.9 | 9.5 | 10.3 | 8.1 |
| Mid-Ebb | C2 | bottom | 7.9 | M2 | 7:38 | 6.9 | 7.9 | 9.5 | 10.3 | 7.2 |
| Mid-Ebb | C2 | bottom | 7.9 | M3 | 8:02 | 6.9 | 7.9 | 9.5 | 10.3 | 7.0 |
| Mid-Ebb | C2 | bottom | 7.9 | M4 | 7:33 | 6.9 | 7.9 | 9.5 | 10.3 | 8.1 |
| Mid-Ebb | C2 | bottom | 7.9 | M5 | 8:17 | 6.9 | 7.9 | 9.5 | 10.3 | 8.0 |
| Mid-Flood | C1 | surface | 6.8 | G2 | 14:04 | 6.0 | 6.9 | 8.1 | 8.8 | 7.4 |
| Mid-Flood | C1 | surface | 6.8 | G3 | 14:20 | 6.0 | 6.9 | 8.1 | 8.8 | 9.3 |
| Mid-Flood | C1 | surface | 6.8 | G4 | 14:32 | 6.0 | 6.9 | 8.1 | 8.8 | 8.4 |
| Mid-Flood | C1 | surface | 6.8 | M1 | 14:09 | 6.2 | 7.4 | 8.1 | 8.8 | 8.2 |
| Mid-Flood | C1 | surface | 6.8 | M2 | 13:59 | 6.2 | 7.4 | 8.1 | 8.8 | 6.6 |
| Mid-Flood | C1 | surface | 6.8 | M3 | 14:27 | 6.2 | 7.4 | 8.1 | 8.8 | 8.4 |
| Mid-Flood | C1 | surface | 6.8 | M4 | 7:53 | 6.2 | 7.4 | 8.1 | 8.8 | 6.6 |

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 6.8 | M5 | 14:44 | 6.2 | 7.4 | 8.1 | 8.8 | 6.3 |
| Mid-Flood | C1 | bottom | 8.0 | G1 | 14:15 | 6.9 | 7.9 | 9.5 | 10.3 | 7.0 |
| Mid-Flood | C1 | bottom | 8.0 | G2 | 7:42 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.1</u> |
| Mid-Flood | C1 | bottom | 8.0 | G3 | 14:20 | 6.9 | 7.9 | 9.5 | 10.3 | 7.5 |
| Mid-Flood | C1 | bottom | 8.0 | M1 | 14:09 | 6.9 | 7.9 | 9.5 | 10.3 | 7.5 |
| Mid-Flood | C1 | bottom | 8.0 | M2 | 13:59 | 6.9 | 7.9 | 9.5 | 10.3 | 7.7 |
| Mid-Flood | C1 | bottom | 8.0 | M4 | 7:33 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.1</u> |
| Mid-Flood | C1 | bottom | 8.0 | M5 | 14:44 | 6.9 | 7.9 | 9.5 | 10.3 | 7.2 |

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

25 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Intake | N/A | N/A | Mid-flood | C1 | 3.5 | M6 | 14:38 | 4.2 | 4.5 | <u>8.0</u> |

Note:

Bold means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

27 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.5 | G4 | 9:21 | 6.0 | 6.9 | 4.1 | 4.5 | <u>4.9</u> |
| Mid-Ebb | C2 | surface | 3.5 | M2 | 8:54 | 6.2 | 7.4 | 4.1 | 4.5 | 4.5 |
| Mid-Ebb | C2 | surface | 3.5 | M4 | 8:48 | 6.2 | 7.4 | 4.1 | 4.5 | 4.4 |
| Mid-Ebb | C2 | surface | 3.5 | M5 | 9:33 | 8.0 | 6.0 | 4.1 | 4.5 | <u>5.9</u> |
| Mid-Flood | C1 | surface | 3.5 | G1 | 14:28 | 6.0 | 6.9 | 4.1 | 4.5 | 6.7 |
| Mid-Flood | C1 | surface | 3.5 | G3 | 14:34 | 6.0 | 6.9 | 4.1 | 4.5 | 4.9 |
| Mid-Flood | C1 | surface | 3.5 | M2 | 14:13 | 6.2 | 7.4 | 4.1 | 4.5 | 4.4 |
| Mid-Flood | C1 | surface | 3.5 | M3 | 14:41 | 6.2 | 7.4 | 4.1 | 4.5 | 4.4 |
| Mid-Flood | C1 | surface | 3.5 | M4 | 8:48 | 6.2 | 7.4 | 4.1 | 4.5 | 4.4 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

27 August 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Intake | N/A | N/A | Mid-flood | C1 | 3.5 | M6 | 14:51 | 4.2 | 4.5 | <u>8.0</u> |

Note:

Bold means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

30 August 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.2 | G2 | 12:19 | 6.0 | 6.9 | 3.8 | 4.2 | 4.0 |
| Mid-Ebb | C2 | surface | 3.2 | G3 | 12:30 | 6.0 | 6.9 | 3.8 | 4.2 | <u>5.6</u> |
| Mid-Ebb | C2 | surface | 3.2 | M2 | 12:15 | 6.2 | 7.4 | 3.8 | 4.2 | <u>4.6</u> |
| Mid-Ebb | C2 | surface | 3.2 | M3 | 12:32 | 6.2 | 7.4 | 3.8 | 4.2 | <u>4.6</u> |
| Mid-Ebb | C2 | surface | 3.2 | M4 | 12:11 | 6.2 | 7.4 | 3.8 | 4.2 | <u>6.1</u> |
| Mid-Ebb | C2 | surface | 3.2 | M5 | 12:42 | 8.0 | 6.0 | 3.8 | 4.2 | <u>4.4</u> |
| Mid-Ebb | C2 | bottom | 4.9 | G4 | 12:35 | 6.9 | 7.9 | 5.9 | 6.4 | 6.0 |
| Mid-Ebb | C2 | bottom | 4.9 | M3 | 12:32 | 6.9 | 7.9 | 5.9 | 6.4 | 7.3 |
| Mid-Flood | C1 | surface | 3.7 | G1 | 17:19 | 6.0 | 6.9 | 4.4 | 4.7 | 4.5 |
| Mid-Flood | C1 | surface | 3.7 | G2 | 17:11 | 6.0 | 6.9 | 4.4 | 4.7 | 4.6 |
| Mid-Flood | C1 | surface | 3.7 | G3 | 17:21 | 6.0 | 6.9 | 4.4 | 4.7 | <u>5.1</u> |
| Mid-Flood | C1 | surface | 3.7 | G4 | 17:27 | 6.0 | 6.9 | 4.4 | 4.7 | <u>5.5</u> |
| Mid-Flood | C1 | surface | 3.7 | M2 | 17:07 | 6.2 | 7.4 | 4.4 | 4.7 | <u>5.0</u> |
| Mid-Flood | C1 | surface | 3.7 | M4 | 12:11 | 6.2 | 7.4 | 4.4 | 4.7 | <u>6.1</u> |
| Mid-Flood | C1 | surface | 3.7 | M5 | 17:35 | 6.2 | 7.4 | 4.4 | 4.7 | <u>4.8</u> |
| Mid-Flood | C1 | bottom | 4.5 | G2 | 12:19 | 6.9 | 7.9 | 5.4 | 5.9 | 5.5 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: **30 August 2021**

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.1 | M5 | 12:42 | 3.7 | 4.0 | <u>5.6</u> |
| Intake | N/A | N/A | Mid-flood | C1 | 5.6 | M6 | 17:30 | 6.7 | 7.2 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part A Details of Investigation

For the reporting month, exceedances for suspended solids and turbidity have been recorded continuously at various monitoring stations. During regular water quality monitoring, the water outside the site boundary seemed to be clear and clean (Photo 1 to 2)

During site inspections, the sea appears to be clear (Photo 3 to 6). The sediment tank was free from silt and sediments and the drainage system remained well-maintained. No sand plumes were observed during the site inspection.

No direct evidence that the recent exceedances were due to the ongoing reclamation activities of the Project. Therefore, no additional marine water quality monitoring is required.

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part B. Photo Record



Photo 1 (Recorded on 30th August 2021)



Photo 2 (Recorded on 30th August 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances



Photo 3 (Recorded on 26th August 2021)



Photo 4 (Recorded on 26th August 2021)



Photo 5 (Recorded on 19th August 2021)



Photo 6 (Recorded on 19th August 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part C – Recommendations

Since Hong Kong has entered the wind season, all Contractors are reminded to maintain the drainage system for heavy rainfall. All Contractors are recommended to inspect the drainage system after rainfall and maintain them if needed.

Appropriate diversion of received rainwater to the wastewater treatment system within the site should be provided to minimise the chance of accidental runoff. Silt curtain should be checked and maintained regularly; diver inspection for checking damage and leakage should be conducted weekly to ensure the functionality of cofferdam and silt curtains.



Reviewed by: (Environmental Team Leader:(Dr. HF Chan)

Date: 4th September 2021

- Notification of Exceedance

Date of Water Quality Monitoring: **01 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 1.9 | G1 | 8:25 | 6.0 | 6.9 | 2.3 | 2.5 | <u>2.8</u> |
| Mid-Flood | C1 | surface | 1.9 | G2 | 8:12 | 6.0 | 6.9 | 2.3 | 2.5 | <u>2.7</u> |
| Mid-Flood | C1 | surface | 1.9 | G3 | 8:32 | 6.0 | 6.9 | 2.3 | 2.5 | 2.5 |
| Mid-Flood | C1 | surface | 1.9 | G4 | 8:44 | 6.0 | 6.9 | 2.3 | 2.5 | <u>8.0</u> |
| Mid-Flood | C1 | surface | 1.9 | M1 | 8:18 | 6.2 | 7.4 | 2.3 | 2.5 | <u>2.9</u> |
| Mid-Flood | C1 | surface | 1.9 | M2 | 8:10 | 6.2 | 7.4 | 2.3 | 2.5 | <u>2.8</u> |
| Mid-Flood | C1 | surface | 1.9 | M3 | 8:36 | 6.2 | 7.4 | 2.3 | 2.5 | <u>3.9</u> |
| Mid-Flood | C1 | surface | 1.9 | M4 | 8:02 | 6.2 | 7.4 | 2.3 | 2.5 | <u>4.5</u> |
| Mid-Flood | C1 | surface | 1.9 | M5 | 9:01 | 6.2 | 7.4 | 2.3 | 2.5 | <u>4.9</u> |
| Mid-Flood | C1 | bottom | 2.6 | G2 | 8:12 | 6.9 | 7.9 | 3.1 | 3.3 | <u>3.6</u> |
| Mid-Flood | C1 | bottom | 2.6 | G3 | 8:32 | 6.9 | 7.9 | 3.1 | 3.3 | <u>3.7</u> |
| Mid-Flood | C1 | bottom | 2.6 | M1 | 8:18 | 6.9 | 7.9 | 3.1 | 3.3 | <u>4.1</u> |
| Mid-Flood | C1 | bottom | 2.6 | M2 | 8:10 | 6.9 | 7.9 | 3.1 | 3.3 | <u>3.8</u> |
| Mid-Flood | C1 | bottom | 2.6 | M3 | 8:36 | 6.9 | 7.9 | 3.1 | 3.3 | <u>3.5</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (***Italic***)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (***Italic***)

- Notification of Exceedance

Date of Water Quality Monitoring: 03 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 2.2 | G1 | 9:17 | 6.0 | 6.9 | 2.6 | 2.9 | <u>3.4</u> |
| Mid-Flood | C1 | surface | 2.2 | G2 | 9:04 | 6.0 | 6.9 | 2.6 | 2.9 | <u>3.7</u> |
| Mid-Flood | C1 | surface | 2.2 | G3 | 9:24 | 6.0 | 6.9 | 2.6 | 2.9 | <u>3.5</u> |
| Mid-Flood | C1 | surface | 2.2 | G4 | 9:35 | 6.0 | 6.9 | 2.6 | 2.9 | <u>3.1</u> |
| Mid-Flood | C1 | surface | 2.2 | M1 | 9:11 | 6.2 | 7.4 | 2.6 | 2.9 | <u>3.2</u> |
| Mid-Flood | C1 | bottom | 1.4 | G2 | 9:04 | 6.9 | 7.9 | 1.6 | 1.8 | <u>3.0</u> |
| Mid-Flood | C1 | bottom | 1.4 | G3 | 9:24 | 6.9 | 7.9 | 1.6 | 1.8 | <u>1.9</u> |
| Mid-Flood | C1 | bottom | 1.4 | G4 | 9:35 | 6.9 | 7.9 | 1.6 | 1.8 | <u>2.2</u> |
| Mid-Flood | C1 | bottom | 1.4 | M1 | 9:11 | 6.9 | 7.9 | 1.6 | 1.8 | <u>2.3</u> |
| Mid-Flood | C1 | bottom | 1.4 | M2 | 8:58 | 6.9 | 7.9 | 1.6 | 1.8 | <u>3.2</u> |
| Mid-Flood | C1 | bottom | 1.4 | M3 | 9:29 | 6.9 | 7.9 | 1.6 | 1.8 | <u>3.0</u> |
| Mid-Flood | C1 | bottom | 1.4 | M4 | 8:52 | 6.9 | 7.9 | 1.6 | 1.8 | <u>2.7</u> |
| Mid-Flood | C1 | bottom | 1.4 | M5 | 9:50 | 6.9 | 7.9 | 1.6 | 1.8 | <u>3.3</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: **06 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.2 | G4 | 18:45 | 6.0 | 6.9 | 3.8 | 4.1 | <u>4.2</u> |
| Mid-Ebb | C2 | surface | 3.2 | M5 | 19:18 | 6.2 | 7.4 | 3.8 | 4.1 | <u>4.6</u> |
| Mid-Flood | C1 | surface | 3.5 | G1 | 11:18 | 6.0 | 6.9 | 4.2 | 4.6 | <u>5.0</u> |
| Mid-Flood | C1 | surface | 3.5 | G2 | 11:01 | 6.0 | 6.9 | 4.2 | 4.6 | <u>4.6</u> |
| Mid-Flood | C1 | surface | 3.5 | G4 | 11:40 | 6.0 | 6.9 | 4.2 | 4.6 | <u>5.0</u> |
| Mid-Flood | C1 | surface | 3.5 | M2 | 10:53 | 6.2 | 7.4 | 4.2 | 4.6 | <u>5.2</u> |
| Mid-Flood | C1 | surface | 3.5 | M3 | 11:32 | 6.2 | 7.4 | 4.2 | 4.6 | <u>4.9</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 08 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|--------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | bottom | 4.0 | G1 | 7:03 | 6.9 | 7.9 | 4.7 | 5.1 | 5.1 |
| Mid-Ebb | C2 | bottom | 4.0 | M3 | 7:20 | 6.9 | 7.9 | 4.7 | 5.1 | 5.0 |
| Mid-Flood | C1 | bottom | 3.4 | M1 | 12:56 | 6.9 | 7.9 | 4.1 | 4.4 | <u>4.5</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

08 September 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|---------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.5 | G2 | 6:43 | 1.7 | 1.9 | 1.9 |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.5 | M2 | 6:37 | 1.7 | 1.9 | <u>2.2</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.5 | M5 | 7:44 | 1.7 | 1.9 | <u>3.4</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: **10 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.9 | G2 | 8:11 | 6.0 | 6.9 | 3.5 | 3.8 | <u>3.9</u> |
| Mid-Ebb | C2 | surface | 2.9 | M2 | 8:07 | 6.2 | 7.4 | 3.5 | 3.8 | <u>3.6</u> |
| Mid-Flood | C1 | surface | 2.7 | G2 | 14:22 | 6.0 | 6.9 | 3.2 | 3.5 | <u>3.6</u> |
| Mid-Flood | C1 | surface | 2.7 | M2 | 14:17 | 6.2 | 7.4 | 3.2 | 3.5 | <u>4.0</u> |
| Mid-Flood | C1 | surface | 2.7 | M5 | 15:02 | 6.2 | 7.4 | 3.2 | 3.5 | <u>4.1</u> |
| Mid-Flood | C1 | bottom | 2.6 | G1 | 14:33 | 6.9 | 7.9 | 3.1 | 3.4 | <u>3.2</u> |
| Mid-Flood | C1 | bottom | 2.6 | G3 | 14:38 | 6.9 | 7.9 | 3.1 | 3.4 | <u>3.6</u> |
| Mid-Flood | C1 | bottom | 2.6 | G4 | 14:50 | 6.9 | 7.9 | 3.1 | 3.4 | <u>3.6</u> |
| Mid-Flood | C1 | bottom | 2.6 | M1 | 14:27 | 6.9 | 7.9 | 3.1 | 3.4 | <u>3.3</u> |
| Mid-Flood | C1 | bottom | 2.6 | M3 | 14:45 | 6.9 | 7.9 | 3.1 | 3.4 | <u>4.7</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: **10 September 2021**

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|---------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.1 | G2 | 8:11 | 1.3 | 1.4 | <u>2.0</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.1 | M5 | 8:46 | 1.3 | 1.4 | <u>2.3</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 13 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|---------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.4 | G3 | 11:28 | 6.0 | 6.9 | 2.8 | 3.1 | 2.9 |
| Mid-Ebb | C2 | surface | 2.4 | M4 | 10:50 | 6.2 | 7.4 | 2.8 | 3.1 | <u>3.3</u> |
| Mid-Ebb | C2 | surface | 2.4 | M5 | 12:03 | 8.0 | 6.0 | 2.8 | 3.1 | <u>4.1</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 13 September 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | G1 | 17:20 | 2.0 | 2.2 | 2.2 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | G4 | 17:43 | 2.0 | 2.2 | 2.1 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | M1 | 17:06 | 2.0 | 2.2 | <u>2.3</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | M3 | 17:35 | 2.0 | 2.2 | <u>2.4</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.7 | M5 | 18:14 | 2.0 | 2.2 | <u>2.7</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 15 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 2.0 | G1 | 7:54 | 6.0 | 6.9 | 2.3 | 2.5 | <u>2.8</u> |
| Mid-Flood | C1 | surface | 2.0 | G2 | 7:40 | 6.0 | 6.9 | 2.3 | 2.5 | <u>3.3</u> |
| Mid-Flood | C1 | surface | 2.0 | G3 | 7:58 | 6.0 | 6.9 | 2.3 | 2.5 | <u>3.6</u> |
| Mid-Flood | C1 | surface | 2.0 | G4 | 8:10 | 6.0 | 6.9 | 2.3 | 2.5 | <u>4.7</u> |
| Mid-Flood | C1 | surface | 2.0 | M1 | 7:47 | 6.2 | 7.4 | 2.3 | 2.5 | <u>2.6</u> |
| Mid-Flood | C1 | surface | 2.0 | M2 | 7:35 | 6.2 | 7.4 | 2.3 | 2.5 | <u>2.6</u> |
| Mid-Flood | C1 | surface | 2.0 | M3 | 8:04 | 6.2 | 7.4 | 2.3 | 2.5 | <u>3.3</u> |
| Mid-Flood | C1 | surface | 2.0 | M4 | 7:29 | 6.2 | 7.4 | 2.3 | 2.5 | <u>3.3</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (***Italic***)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (***Italic***)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 15 September 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.3 | M5 | 8:21 | 2.8 | 3.0 | <u>3.4</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 17 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.6 | G2 | 8:57 | 6.0 | 6.9 | 3.1 | 3.3 | <u>4.6</u> |
| Mid-Ebb | C2 | surface | 2.6 | G3 | 9:14 | 6.0 | 6.9 | 3.1 | 3.3 | <u>4.3</u> |
| Mid-Ebb | C2 | surface | 2.6 | G4 | 9:27 | 6.0 | 6.9 | 3.1 | 3.3 | <u>3.6</u> |
| Mid-Ebb | C2 | surface | 2.6 | M1 | 9:04 | 6.2 | 7.4 | 3.1 | 3.3 | <u>4.3</u> |
| Mid-Ebb | C2 | surface | 2.6 | M2 | 8:53 | 6.2 | 7.4 | 3.1 | 3.3 | <u>3.6</u> |
| Mid-Ebb | C2 | surface | 2.6 | M3 | 9:20 | 6.2 | 7.4 | 3.1 | 3.3 | <u>3.7</u> |
| Mid-Ebb | C2 | surface | 2.6 | M4 | 8:46 | 6.2 | 7.4 | 3.1 | 3.3 | <u>4.0</u> |
| Mid-Ebb | C2 | surface | 2.6 | M5 | 9:39 | 6.2 | 7.4 | 3.1 | 3.3 | <u>4.2</u> |
| Mid-Flood | C1 | bottom | 2.5 | M2 | 17:07 | 6.9 | 7.9 | 3.0 | 3.3 | <u>3.2</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: 17 September 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | G1 | 9:10 | 1.6 | 1.7 | <u>2.3</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | G2 | 8:57 | 1.6 | 1.7 | <u>2.6</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | G3 | 9:14 | 1.6 | 1.7 | <u>2.5</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | G4 | 9:27 | 1.6 | 1.7 | <u>2.8</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | M1 | 9:04 | 1.6 | 1.7 | <u>3.1</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | M2 | 8:53 | 1.6 | 1.7 | <u>2.6</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | M3 | 9:20 | 1.6 | 1.7 | <u>2.4</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | M4 | 8:46 | 1.6 | 1.7 | <u>2.0</u> |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 1.3 | M5 | 9:39 | 1.6 | 1.7 | <u>2.5</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | G1 | 17:25 | 2.2 | 2.4 | <u>2.3</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | G2 | 17:14 | 2.2 | 2.4 | <u>2.6</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | G3 | 17:30 | 2.2 | 2.4 | <u>2.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | G4 | 17:41 | 2.2 | 2.4 | <u>2.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | M1 | 17:18 | 2.2 | 2.4 | <u>2.5</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | M2 | 17:07 | 2.2 | 2.4 | <u>3.1</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | M3 | 17:35 | 2.2 | 2.4 | <u>3.0</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.9 | M5 | 17:53 | 2.2 | 2.4 | <u>2.8</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: **20 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 1.7 | G2 | 11:19 | 6.0 | 6.9 | 2.0 | 2.2 | <u>2.4</u> |
| Mid-Ebb | C2 | surface | 1.7 | G3 | 11:38 | 6.0 | 6.9 | 2.0 | 2.2 | <u>2.9</u> |
| Mid-Ebb | C2 | surface | 1.7 | G4 | 11:53 | 6.0 | 6.9 | 2.0 | 2.2 | <u>2.2</u> |
| Mid-Flood | C1 | bottom | 1.9 | G1 | 18:32 | 6.9 | 7.9 | 2.3 | 2.5 | <u>3.0</u> |
| Mid-Flood | C1 | bottom | 1.9 | G2 | 11:19 | 6.9 | 7.9 | 2.3 | 2.5 | <u>2.6</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: **23 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 2.1 | M2 | 7:20 | 6.2 | 7.4 | 2.5 | 2.7 | <u>3.7</u> |
| Mid-Flood | C1 | surface | 2.2 | M5 | 14:40 | 6.2 | 7.4 | 2.6 | 2.8 | <u>2.7</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 25 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 5.4 | M1 | 9:06 | 6.2 | 7.4 | 6.4 | 7.0 | <u>7.1</u> |
| Mid-Ebb | C2 | bottom | 4.3 | G4 | 9:24 | 6.9 | 7.9 | 5.2 | 5.6 | <u>6.4</u> |
| Mid-Ebb | C2 | bottom | 4.3 | M1 | 9:06 | 6.9 | 7.9 | 5.2 | 5.6 | <u>6.7</u> |
| Mid-Ebb | C2 | bottom | 4.3 | M2 | 8:55 | 6.9 | 7.9 | 5.2 | 5.6 | <u>6.3</u> |
| Mid-Ebb | C2 | bottom | 4.3 | M3 | 9:19 | 6.9 | 7.9 | 5.2 | 5.6 | <u>6.4</u> |
| Mid-Ebb | C2 | bottom | 4.3 | M4 | 8:49 | 6.9 | 7.9 | 5.2 | 5.6 | <u>5.8</u> |
| Mid-Ebb | C2 | bottom | 4.3 | M5 | 9:32 | 6.9 | 7.9 | 5.2 | 5.6 | <u>6.5</u> |
| Mid-Flood | C1 | surface | 7.6 | G1 | 14:58 | 6.0 | 6.9 | 9.1 | 9.9 | <u>6.4</u> |
| Mid-Flood | C1 | surface | 7.6 | G2 | 14:48 | 6.0 | 6.9 | 9.1 | 9.9 | <u>8.0</u> |
| Mid-Flood | C1 | surface | 7.6 | G3 | 15:03 | 6.0 | 6.9 | 9.1 | 9.9 | <u>7.1</u> |
| Mid-Flood | C1 | surface | 7.6 | G4 | 15:11 | 6.0 | 6.9 | 9.1 | 9.9 | <u>6.4</u> |
| Mid-Flood | C1 | surface | 7.6 | M5 | 15:19 | 6.2 | 7.4 | 9.1 | 9.9 | <u>6.6</u> |
| Mid-Flood | C1 | bottom | 5.9 | G1 | 14:58 | 6.9 | 7.9 | 7.1 | 7.7 | <u>8.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: **27 September 2021**

Part A – Exceedance Summary Tables

Table I: **Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)**

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 1.9 | G1 | 10:02 | 6.0 | 6.9 | 2.3 | 2.5 | <u>2.9</u> |
| Mid-Ebb | C2 | surface | 1.9 | G3 | 10:10 | 6.0 | 6.9 | 2.3 | 2.5 | <u>2.4</u> |
| Mid-Ebb | C2 | surface | 1.9 | G4 | 10:24 | 6.0 | 6.9 | 2.3 | 2.5 | <u>3.0</u> |
| Mid-Flood | C1 | bottom | 1.9 | G4 | 16:15 | 6.9 | 7.9 | 2.2 | 2.4 | <u>2.5</u> |
| Mid-Flood | C1 | bottom | 1.9 | M1 | 15:39 | 6.9 | 7.9 | 2.2 | 2.4 | <u>2.5</u> |
| Mid-Flood | C1 | bottom | 1.9 | M3 | 16:08 | 6.9 | 7.9 | 2.2 | 2.4 | <u>2.5</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: **29 September 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 2.5 | G3 | 7:25 | 6.0 | 6.9 | 2.9 | 3.2 | <u>3.3</u> |
| Mid-Flood | C1 | surface | 2.5 | M1 | 7:13 | 6.2 | 7.4 | 2.9 | 3.2 | <u>3.7</u> |
| Mid-Flood | C1 | surface | 2.5 | M3 | 7:31 | 6.2 | 7.4 | 2.9 | 3.2 | <u>3.9</u> |
| Mid-Flood | C1 | bottom | 3.7 | G2 | 7:05 | 6.9 | 7.9 | 4.4 | 4.8 | <u>4.6</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 29 September 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | G1 | 7:21 | 2.2 | 2.4 | 2.4 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | G2 | 7:05 | 2.2 | 2.4 | 2.3 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | G3 | 7:25 | 2.2 | 2.4 | <u>2.6</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | G4 | 7:37 | 2.2 | 2.4 | <u>2.6</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M1 | 7:13 | 2.2 | 2.4 | <u>2.5</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M2 | 7:01 | 2.2 | 2.4 | 2.4 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M3 | 7:31 | 2.2 | 2.4 | 2.4 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M5 | 7:50 | 2.2 | 2.4 | <u>2.8</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part A Details of Investigation

For the reporting month, exceedances for suspended solids and turbidity have been recorded continuously at various monitoring stations. During regular water quality monitoring, the water outside the site boundary seemed to be clear and clean (Photo 1 to 2)

During site inspections, the sea appears to be clear (Photo 3 to 6). The sediment tank was free from silt and sediments and the drainage system remained well-maintained. No sand plumes were observed during the site inspection.

No direct evidence that the recent exceedances were due to the ongoing reclamation activities of the Project. Therefore, no additional marine water quality monitoring is required.

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part B. Photo Record



Photo 1 (Recorded on 10th September 2021)



Photo 2 (Recorded on 10th September 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances



Photo 3 (Recorded on 15th September 2021)



Photo 4 (Recorded on 24th September 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances



Photo 5 (Recorded on 10th September 2021)



Photo 6 (Recorded on 10th September 2021)



Photo 7 (Recorded on 16th September 2021)



Photo 8 (Recorded on 16th September 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part C – Recommendations

Since Hong Kong has entered the wind season, all Contractors are reminded to maintain the drainage system for heavy rainfall. All Contractors are recommended to inspect the drainage system after rainfall and maintain them if needed.

Appropriate diversion of received rainwater to the wastewater treatment system within the site should be provided to minimise the chance of accidental runoff. Silt curtain should be checked and maintained regularly; diver inspection for checking damage and leakage should be conducted weekly to ensure the functionality of cofferdam and silt curtains.



Reviewed by: (Environmental Team Leader:(Dr. HF Chan)

Date: 27th September 2021

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 02 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 3.3 | M1 | 16:18 | 6.2 | 7.4 | 4.0 | 4.3 | 4.1 |
| Mid-Flood | C1 | bottom | 3.1 | G1 | 16:24 | 6.9 | 7.9 | 3.7 | 4.0 | 3.8 |
| Mid-Flood | C1 | bottom | 3.1 | G3 | 16:30 | 6.9 | 7.9 | 3.7 | 4.0 | <u>4.1</u> |
| Mid-Flood | C1 | bottom | 3.1 | G4 | 16:43 | 6.9 | 7.9 | 3.7 | 4.0 | 3.8 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

04 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|---------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 1.8 | G1 | 10:20 | 6.0 | 6.9 | 2.1 | 2.3 | 2.3 |
| Mid-Ebb | C2 | surface | 1.8 | G4 | 10:42 | 6.0 | 6.9 | 2.1 | 2.3 | 2.3 |
| Mid-Ebb | C2 | bottom | 1.4 | M1 | 10:09 | 6.9 | 7.9 | 1.7 | 1.8 | <u>2.0</u> |
| Mid-Ebb | C2 | bottom | 1.4 | M2 | 9:54 | 6.9 | 7.9 | 1.7 | 1.8 | <u>2.0</u> |
| Mid-Ebb | C2 | bottom | 1.4 | M5 | 11:02 | 6.9 | 7.9 | 1.7 | 1.8 | <u>2.4</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: 04 October 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | G1 | 16:53 | 3.3 | 3.6 | <u>3.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | G3 | 17:01 | 3.3 | 3.6 | <u>3.7</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | G4 | 17:13 | 3.3 | 3.6 | <u>4.1</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | M3 | 17:07 | 3.3 | 3.6 | <u>3.7</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | M4 | 16:21 | 3.3 | 3.6 | 3.6 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.8 | M5 | 17:44 | 3.3 | 3.6 | 3.4 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

06 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 6.7 | G4 | 11:34 | 6.0 | 6.9 | 8.0 | 8.7 | <u>7.4</u> |
| Mid-Ebb | C2 | surface | 6.7 | M5 | 11:45 | 6.2 | 7.4 | 8.0 | 8.7 | <u>6.4</u> |
| Mid-Ebb | C2 | bottom | 8.4 | G1 | 11:20 | 6.9 | 7.9 | 10.1 | 10.9 | <u>7.1</u> |
| Mid-Flood | C1 | surface | 3.6 | G1 | 17:55 | 6.0 | 6.9 | 4.3 | 4.7 | <u>5.3</u> |
| Mid-Flood | C1 | surface | 3.6 | G2 | 17:44 | 6.0 | 6.9 | 4.3 | 4.7 | <u>5.6</u> |
| Mid-Flood | C1 | surface | 3.6 | G4 | 18:12 | 6.0 | 6.9 | 4.3 | 4.7 | <u>5.7</u> |
| Mid-Flood | C1 | surface | 3.6 | M2 | 17:40 | 6.2 | 7.4 | 4.3 | 4.7 | <u>5.6</u> |
| Mid-Flood | C1 | surface | 3.6 | M3 | 18:08 | 6.2 | 7.4 | 4.3 | 4.7 | <u>5.3</u> |
| Mid-Flood | C1 | surface | 3.6 | M4 | 17:35 | 6.2 | 7.4 | 4.3 | 4.7 | <u>4.5</u> |
| Mid-Flood | C1 | surface | 3.6 | M5 | 18:25 | 6.2 | 7.4 | 4.3 | 4.7 | <u>4.4</u> |
| Mid-Flood | C1 | bottom | 5.6 | G2 | 17:44 | 6.9 | 7.9 | 6.7 | 7.3 | <u>7.7</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

11 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.5 | G2 | 10:14 | 6.0 | 6.9 | 4.2 | 4.6 | 4.6 |
| Mid-Ebb | C2 | surface | 3.5 | M1 | 10:21 | 6.2 | 7.4 | 4.2 | 4.6 | <u>5.4</u> |
| Mid-Ebb | C2 | surface | 3.5 | M2 | 10:06 | 6.2 | 7.4 | 4.2 | 4.6 | <u>4.7</u> |
| Mid-Ebb | C2 | surface | 3.5 | M3 | 10:47 | 6.2 | 7.4 | 4.2 | 4.6 | <u>4.9</u> |
| Mid-Ebb | C2 | bottom | 4.2 | M2 | 10:06 | 6.9 | 7.9 | 5.0 | 5.5 | 5.5 |
| Mid-Ebb | C2 | bottom | 4.2 | M5 | 11:14 | 6.9 | 7.9 | 5.0 | 5.5 | 5.2 |
| Mid-Flood | C1 | surface | 3.5 | G1 | 15:20 | 6.0 | 6.9 | 4.1 | 4.5 | <u>6.6</u> |
| Mid-Flood | C1 | surface | 3.5 | G2 | 15:02 | 6.0 | 6.9 | 4.1 | 4.5 | <u>5.6</u> |
| Mid-Flood | C1 | surface | 3.5 | G3 | 15:28 | 6.0 | 6.9 | 4.1 | 4.5 | <u>4.7</u> |
| Mid-Flood | C1 | surface | 3.5 | G4 | 15:39 | 6.0 | 6.9 | 4.1 | 4.5 | <u>6.2</u> |
| Mid-Flood | C1 | surface | 3.5 | M2 | 14:55 | 6.2 | 7.4 | 4.1 | 4.5 | <u>5.8</u> |
| Mid-Flood | C1 | surface | 3.5 | M3 | 15:33 | 6.2 | 7.4 | 4.1 | 4.5 | <u>5.1</u> |
| Mid-Flood | C1 | surface | 3.5 | M5 | 16:11 | 6.2 | 7.4 | 4.1 | 4.5 | <u>5.3</u> |
| Mid-Flood | C1 | bottom | 4.4 | G1 | 15:20 | 6.9 | 7.9 | 5.3 | 5.7 | 5.6 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 11 October 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.9 | M1 | 10:21 | 4.7 | 5.1 | <u>5.4</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | G1 | 15:20 | 3.7 | 4.0 | 4.0 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | G3 | 15:28 | 3.7 | 4.0 | 3.9 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | G4 | 15:39 | 3.7 | 4.0 | <u>4.3</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | M1 | 15:08 | 3.7 | 4.0 | <u>7.0</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | M3 | 15:33 | 3.7 | 4.0 | 3.9 |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.1 | M4 | 14:47 | 3.7 | 4.0 | <u>4.4</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

15 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 5.4 | G2 | 8:25 | 6.0 | 6.9 | 6.4 | 7.0 | 6.7 |
| Mid-Ebb | C2 | surface | 5.4 | G3 | 8:38 | 6.0 | 6.9 | 6.4 | 7.0 | 6.5 |
| Mid-Ebb | C2 | surface | 5.4 | M2 | 8:21 | 6.2 | 7.4 | 6.4 | 7.0 | <u>7.6</u> |
| Mid-Ebb | C2 | surface | 5.4 | M3 | 8:45 | 6.2 | 7.4 | 6.4 | 7.0 | <u>7.1</u> |
| Mid-Ebb | C2 | bottom | 7.0 | G1 | 8:35 | 6.9 | 7.9 | 8.3 | 9.0 | 7.1 |
| Mid-Ebb | C2 | bottom | 7.0 | M2 | 8:21 | 6.9 | 7.9 | 8.3 | 9.0 | 7.2 |
| Mid-Ebb | C2 | bottom | 7.0 | M4 | 8:16 | 6.9 | 7.9 | 8.3 | 9.0 | 7.2 |
| Mid-Flood | C1 | surface | 4.7 | M1 | 16:26 | 6.2 | 7.4 | 5.6 | 6.1 | 5.8 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (***Italic***)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (***Italic***)

- Notification of Exceedance

Date of Water Quality Monitoring:

18 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 7.4 | G1 | 10:55 | 6.0 | 6.9 | 8.8 | 9.6 | <u>10.4</u> |
| Mid-Ebb | C2 | surface | 7.4 | G2 | 10:37 | 6.0 | 6.9 | 8.8 | 9.6 | <u>8.4</u> |
| Mid-Ebb | C2 | surface | 7.4 | G3 | 11:03 | 6.0 | 6.9 | 8.8 | 9.6 | <u>7.2</u> |
| Mid-Ebb | C2 | surface | 7.4 | G4 | 11:17 | 6.0 | 6.9 | 8.8 | 9.6 | <u>8.0</u> |
| Mid-Ebb | C2 | surface | 7.4 | M1 | 10:43 | 6.2 | 7.4 | 8.8 | 9.6 | <u>9.0</u> |
| Mid-Ebb | C2 | surface | 7.4 | M2 | 10:30 | 6.2 | 7.4 | 8.8 | 9.6 | <u>7.4</u> |
| Mid-Ebb | C2 | surface | 7.4 | M3 | 11:11 | 6.2 | 7.4 | 8.8 | 9.6 | <u>9.5</u> |
| Mid-Ebb | C2 | surface | 7.4 | M4 | 10:25 | 6.2 | 7.4 | 8.8 | 9.6 | <u>8.1</u> |
| Mid-Ebb | C2 | surface | 7.4 | M5 | 11:32 | 6.2 | 7.4 | 8.8 | 9.6 | <u>7.8</u> |
| Mid-Ebb | C2 | bottom | 8.0 | G1 | 10:55 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.2</u> |
| Mid-Ebb | C2 | bottom | 8.0 | G3 | 11:03 | 6.9 | 7.9 | 9.5 | 10.3 | <u>7.8</u> |
| Mid-Ebb | C2 | bottom | 8.0 | G4 | 11:17 | 6.9 | 7.9 | 9.5 | 10.3 | <u>9.7</u> |
| Mid-Ebb | C2 | bottom | 8.0 | M1 | 10:43 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.0</u> |
| Mid-Ebb | C2 | bottom | 8.0 | M2 | 10:30 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.1</u> |
| Mid-Ebb | C2 | bottom | 8.0 | M3 | 11:11 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.2</u> |
| Mid-Ebb | C2 | bottom | 8.0 | M4 | 10:25 | 6.9 | 7.9 | 9.5 | 10.3 | <u>9.5</u> |
| Mid-Ebb | C2 | bottom | 8.0 | M5 | 11:32 | 6.9 | 7.9 | 9.5 | 10.3 | <u>8.4</u> |
| Mid-Flood | C1 | surface | 7.9 | G1 | 17:10 | 6.0 | 6.9 | 9.5 | 10.3 | <u>10.0</u> |
| Mid-Flood | C1 | surface | 7.9 | G2 | 16:50 | 6.0 | 6.9 | 9.5 | 10.3 | <u>8.0</u> |
| Mid-Flood | C1 | surface | 7.9 | G3 | 17:17 | 6.0 | 6.9 | 9.5 | 10.3 | <u>8.2</u> |

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 7.9 | G4 | 17:33 | 6.0 | 6.9 | 9.5 | 10.3 | <u>8.9</u> |
| Mid-Flood | C1 | surface | 7.9 | M1 | 16:56 | 6.2 | 7.4 | 9.5 | 10.3 | <u>7.8</u> |
| Mid-Flood | C1 | surface | 7.9 | M2 | 16:43 | 6.2 | 7.4 | 9.5 | 10.3 | <u>6.7</u> |
| Mid-Flood | C1 | surface | 7.9 | M3 | 17:25 | 6.2 | 7.4 | 9.5 | 10.3 | <u>8.2</u> |
| Mid-Flood | C1 | surface | 7.9 | M4 | 16:37 | 6.2 | 7.4 | 9.5 | 10.3 | <u>10.4</u> |
| Mid-Flood | C1 | surface | 7.9 | M5 | 18:07 | 6.2 | 7.4 | 9.5 | 10.3 | <u>9.8</u> |
| Mid-Flood | C1 | bottom | 7.6 | G1 | 17:10 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.2</u> |
| Mid-Flood | C1 | bottom | 7.6 | G3 | 17:17 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.4</u> |
| Mid-Flood | C1 | bottom | 7.6 | G4 | 17:33 | 6.9 | 7.9 | 9.1 | 9.9 | <u>7.8</u> |
| Mid-Flood | C1 | bottom | 7.6 | M1 | 16:56 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.8</u> |
| Mid-Flood | C1 | bottom | 7.6 | M2 | 16:43 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.0</u> |
| Mid-Flood | C1 | bottom | 7.6 | M3 | 17:25 | 6.9 | 7.9 | 9.1 | 9.9 | <u>7.7</u> |
| Mid-Flood | C1 | bottom | 7.6 | M4 | 16:37 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.6</u> |
| Mid-Flood | C1 | bottom | 7.6 | M5 | 18:07 | 6.9 | 7.9 | 9.1 | 9.9 | <u>8.6</u> |
| Mid-Flood | C1 | intake | n.a. | M6 | 17:48 | 8.3 | 8.6 | n.a. | n.a. | 8.4 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (***Italic***)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (***Italic***)

- Notification of Exceedance

Date of Water Quality Monitoring: 20 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.0 | G2 | 11:41 | 6.0 | 6.9 | 3.6 | 3.9 | <u>4.1</u> |
| Mid-Ebb | C2 | surface | 3.0 | M1 | 11:47 | 6.2 | 7.4 | 3.6 | 3.9 | 3.8 |
| Mid-Ebb | C2 | surface | 3.0 | M2 | 11:33 | 6.2 | 7.4 | 3.6 | 3.9 | 3.8 |
| Mid-Ebb | C2 | surface | 3.0 | M3 | 12:13 | 6.2 | 7.4 | 3.6 | 3.9 | <u>4.4</u> |
| Mid-Ebb | C2 | surface | 3.0 | M4 | 11:27 | 6.2 | 7.4 | 3.6 | 3.9 | 3.8 |
| Mid-Ebb | C2 | bottom | 2.3 | G1 | 11:57 | 6.9 | 7.9 | 2.8 | 3.0 | 3.8 |
| Mid-Ebb | C2 | bottom | 2.3 | G2 | 11:41 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.2</u> |
| Mid-Ebb | C2 | bottom | 2.3 | G3 | 12:05 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.8</u> |
| Mid-Ebb | C2 | bottom | 2.3 | G4 | 12:21 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.6</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M1 | 11:47 | 6.9 | 7.9 | 2.8 | 3.0 | 3.0 |
| Mid-Ebb | C2 | bottom | 2.3 | M2 | 11:33 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.1</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M3 | 12:13 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.9</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M4 | 11:27 | 6.9 | 7.9 | 2.8 | 3.0 | 3.0 |
| Mid-Ebb | C2 | bottom | 2.3 | M5 | 12:39 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.1</u> |
| Mid-Flood | C1 | bottom | 2.4 | G1 | 17:41 | 6.9 | 7.9 | 2.9 | 3.1 | <u>4.0</u> |
| Mid-Flood | C1 | bottom | 2.4 | M2 | 17:14 | 6.9 | 7.9 | 2.9 | 3.1 | <u>3.8</u> |
| Mid-Flood | C1 | bottom | 2.4 | M3 | 17:57 | 6.9 | 7.9 | 2.9 | 3.1 | <u>4.0</u> |
| Mid-Flood | C1 | bottom | 2.4 | M4 | 17:07 | 6.9 | 7.9 | 2.9 | 3.1 | 3.1 |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 20 October 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | G2 | 17:21 | 2.1 | 2.3 | <u>2.9</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M2 | 17:14 | 2.1 | 2.3 | <u>2.5</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M4 | 17:07 | 2.1 | 2.3 | <u>3.0</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 1.8 | M5 | 18:35 | 2.1 | 2.3 | <u>3.2</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring: 22 October 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.6 | G3 | 8:10 | 4.3 | 4.7 | 4.7 |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.6 | M3 | 8:18 | 4.3 | 4.7 | 8.7 |
| Bottom | 19.3 | 22.2 | Mid-Ebb | C2 | 3.6 | M5 | 8:41 | 4.3 | 4.7 | <u>10.2</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.0 | G3 | 13:18 | 3.6 | 3.9 | <u>6.1</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.0 | M3 | 13:26 | 3.6 | 3.9 | <u>6.1</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.0 | M4 | 12:36 | 3.6 | 3.9 | <u>7.8</u> |
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 3.0 | M5 | 14:06 | 3.6 | 3.9 | <u>10.0</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)
Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction
 - Notification of Exceedance

Date of Water Quality Monitoring: 25 October 2021

Part A – Exceedance Summary Tables

Table I: ~~Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)~~

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|---------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.0 | G2 | 8:45 | 6.0 | 6.9 | 3.5 | 3.8 | 3.6 |
| Mid-Ebb | C2 | bottom | 2.4 | G1 | 8:55 | 6.9 | 7.9 | 2.9 | 3.1 | 3.0 |
| Mid-Ebb | C2 | bottom | 2.4 | G3 | 8:58 | 6.9 | 7.9 | 2.9 | 3.1 | 3.1 |
| Mid-Ebb | C2 | bottom | 2.4 | G4 | 9:09 | 6.9 | 7.9 | 2.9 | 3.1 | <u>3.2</u> |
| Mid-Ebb | C2 | bottom | 2.4 | M4 | 8:36 | 6.9 | 7.9 | 2.9 | 3.1 | 3.3 |
| Mid-Ebb | C2 | bottom | 2.4 | M5 | 9:20 | 6.9 | 7.9 | 2.9 | 3.1 | <u>3.6</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

27 October 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|-----------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Flood | C1 | surface | 3.9 | M1 | 11:15 | 6.2 | 7.4 | 4.7 | 5.1 | 4.8 |
| Mid-Flood | C1 | surface | 3.9 | M2 | 11:02 | 6.2 | 7.4 | 4.7 | 5.1 | 5.1 |
| Mid-Flood | C1 | surface | 3.9 | M3 | 11:36 | 6.2 | 7.4 | 4.7 | 5.1 | <u>5.4</u> |
| Mid-Flood | C1 | surface | 3.9 | M5 | 11:56 | 6.2 | 7.4 | 4.7 | 5.1 | <u>5.8</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

27 October 2021

Part A – Exceedance Summary Tables

Table II: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / Turbidity (TURB) / ~~Suspended Solids (SS)~~

| Depth | Baseline Action Level (NTU) | Baseline Limit Level (NTU) | Tide | Control Station(s) | Measured Value at Control Station (NTU) | Station(s) | Time (hrs) | 120% of Control Station Action Level (NTU) | 130% of Control Station Limit Level (NTU) | Measured Value (NTU) |
|--------|-----------------------------|----------------------------|-----------|--------------------|-----------------------------------------|------------|------------|--------------------------------------------|-------------------------------------------|----------------------|
| Bottom | 19.3 | 22.2 | Mid-flood | C1 | 2.6 | G3 | 11:29 | 3.2 | 3.4 | 3.4 |

Note:

Bold means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Date of Water Quality Monitoring: **29 October 2021**

Part A – Exceedance Summary Tables

Table I: Parameter(s) – ~~Dissolved Oxygen (DO)~~ / ~~Turbidity (TURB)~~ / Suspended Solids (SS)

| Tide | Control Station(s) | Depth | Measured Value at Control Station (mg/L) | Station(s) | Time (hrs) | Baseline Action Level (mg/L) | Baseline Limit Level (mg/L) | 120% of Control Station Action Level (mg/L) | 130% of Control Station Limit Level (mg/L) | Measured Value (mg/L) |
|---------|--------------------|---------|------------------------------------------|------------|------------|------------------------------|-----------------------------|---------------------------------------------|--------------------------------------------|-----------------------|
| Mid-Ebb | C2 | surface | 3.1 | M4 | 7:05 | 6.2 | 7.4 | 3.7 | 4.0 | <u>4.3</u> |
| Mid-Ebb | C2 | bottom | 2.3 | G1 | 7:24 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.2</u> |
| Mid-Ebb | C2 | bottom | 2.3 | G2 | 7:14 | 6.9 | 7.9 | 2.8 | 3.0 | <u>2.9</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M2 | 7:10 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.5</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M3 | 7:34 | 6.9 | 7.9 | 2.8 | 3.0 | <u>3.7</u> |
| Mid-Ebb | C2 | bottom | 2.3 | M4 | 7:05 | 6.9 | 7.9 | 2.8 | 3.0 | <u>2.9</u> |

Note: ***Bold*** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part A Details of Investigation

For the reporting month, exceedances for suspended solids and turbidity have been recorded continuously at various monitoring stations. During regular water quality monitoring, the water outside the site boundary seemed to be clear and clean (Photo 1 to 2)

During site inspections, the sea appears to be clear (Photo 3 to 6). The sediment tank was free from silt and sediments and the drainage system remained well-maintained. No sand plumes were observed during the site inspection.

It shall be noted that the SS level after the typhoon no. 8 signal was hoisted (aka after 13 October 2021), the level of suspended solid became significantly higher than the earlier half of October 2021.

No direct evidence that the recent exceedances were due to the ongoing reclamation activities of the Project. Therefore, no additional marine water quality monitoring is required.

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances

Part B Photo Record



Photo 1 (Recorded on 6 October 2021)



Photo 2 (Recorded on 6 October 2021)



Photo 3 (Recorded on 15 October 2021)



Photo 4 (Recorded on 15 October 2021)

Contract No. CE 59/2015 (EP)

**Environmental Team for Tseung Kwan O – Lam Tin Tunnel
Design and Construction**

- Investigation Report of Environmental Quality Limit Exceedances



Photo 5 (Recorded on 20 October 2021)



Photo 6 (Recorded on 28 October 2021)

Part C – Recommendations

Although traditional wind season has ended as we entered November, all Contractors are reminded to conduct good site practises to prevent accidental surface runoff discharge. Good site practises such as provision of perimeter cut-off drains to direct off-site water, regular removal of silt and sediment from sediment tanks and covering open stockpiles shall be conducted as far as possible.

A handwritten signature in black ink, appearing to be 'Dr. HF Chan'.

Reviewed by: (Environmental Team Leader:(Dr. HF Chan)

Date: 9th November 2021

**APPENDIX L
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON
AND NOTIFICATION OF SUCCESSFUL
PROSECUTION**

Table L1 - Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|---------------|-----------------------------------------|----------------------------------|---------------|----------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 571 | 26-Oct-21 | 25-Oct-21 / Non-specific | Resident of Ocean Shores | Noise | Noise nuisance near Ocean Shores | N | Preliminary results from noise monitoring showed no limit level of exceedance and no non-compliance regarding construction schedule was found. The details shall be referred to CIR-N152. | Closed |
| 570 | 18-Oct-21 | 18-Oct-21 / Non-specific | Anonymous | Noise | Noise nuisance on holiday during daytime | Y | No clear judgement was made as other potential noise source existed. Nonetheless, the Contractor held a valid CNP and no non-compliance was found. The details shall be referred to CIR-N151. | Closed |
| 569 | 8-Oct-21 | 8-Oct-21 / Tsueng Kwan O Bay | DSD | Water | Deterioration of Marine Water Quality in Tsueng Kwan O Bay under Adverse Weather | N | The complaint is considered as non-project related as the general condition of the sea is muddy during the date of incident. The details can be referred to CIR-W18. | Closed |
| 568 | 4-Oct-21 | 29-Sep-21 / Marine Works Area | Pedestrian | Odour / Water | Odour Nuisance near Tsueng Kwan O Bay (Sep 2021) | N | The complaint is considered as non-project-related. Measures such as adopting low-sulphur content diesel as far as possible is recommended. The details can be referred to CIR-O9. | Closed |
| 567 | 29-Sep-21 | 14-Sep-2021 / Marine Works Area (C6) | Anonymous | Noise | Construction Works during Restricted Hours (Sep 2021) | Y | The complaint is considered as project-related and no non-compliance was recorded. The monitoring result of evening noise at Tsueng Kwan O throughout September 2021 was reviewed and no limit level exceedance was found. The details shall be referred to CIR-N150. | Closed |
| 566 | 17-Sep-21 | 16-Sep-21 / Portion IVC (C1) | Resident of Yau Lai Estate | Noise | Construction Noise nuisance from Portion IVC of NE/2015/01 | Y | See Complaint #563 | Closed |
| 565 | 10-Sep-21 | 9-Sep-21 / Portion III | EPD | Air | Air pollution from construction dust | N | See complaint #564 | Closed |
| 564 | 10-Sep-21 | 6-Sep-21 / Portion I | Anonymous | Air | Air pollution from construction dust | N | Exceedance of 24hr TSP were recorded and evidence of air-quality-related environmental deficiencies were identified during site inspections. The complaint is considered project-related and details shall be referred to CIR-A22. | Closed |
| 563 | 2-Sep-21 | 2-Sep-21 / Portion III | Resident living in Cha Kwo Ling | Noise | Construction noise during evening time (Sep 2021) | Y | The complaint is considered as project-related. Monitoring results indicate the construction noise are close to the limit level. The details shall be referred to CIR-N149. | Closed |
| 562 | 19-Aug-21 | 15-Aug-21 / Lei Yu Mun Road | Anonymous | Noise | Construction noise nuisance near Lei Yu Mun Road on Sunday | Y | The complaint is considered as project-related as the construction works were carried out during the time of complaint. No monitoring was conducted on Public Holiday. The details shall be referred to CIR-N148. | Closed |
| 561 | 6-Aug-21 | 6-Aug-2021 / Non-specific | Resident living in Tiu Keng Ling | Noise | Construction Noise Nuisance on Weekday during Daytime (Aug 2021) | Y | The complaint was considered as project-related. No non-compliance and limit level of daytime construction noise was recorded during late July 2021 and early August 2021. The details of complaint shall be referred to CIR-N147. | Closed |
| 560 | 31-Jul-21 | 31-Jul-2021 / Portion VIII | Resident from Ocean Shores | Noise | Construction Noise Nuisance on Saturday near Ocean Shores (Jul 2021) | Y | The complaint is considered as project-related. Results of construction noise is reviewed and no limit level exceedance was recorded. No non-compliance was found. The details shall be referred to CIR-N146. | Closed |
| 559 | 3-Aug-21 | Jan 2021 - Jun 2021 / Marine Works Area | Resident from Ocean Shores | Noise | Noise Nuisance near Ocean Shores (Jan - Jun 2021) | Y | The complaint included a long-period of time and the current noise mitigation measures were reviewed. No limit level of construction noise was recorded throughout Jan 21 - Jun 21, Despite the complaint is considered as project-related, no non-compliance was recorded. The details shall be referred to the CIR-N145. | Closed |
| 558 | 11-Jul-21 | 11-Jul-2021 / Marine Works Area | Anonymous | Working Hours | Operation of Marine Construction Works during Restricted Hours (Jul - 2021) | N | The barge shown in the photo provided by the Complainant was not belong to the Project. The complainant was non-valid and thus the complaint is considered as non-project-related. The details shall be referred to CIR-O8. | Closed |
| 557 | 20-Jul-21 | 19-Jul-2021 / Eastern Harbour Crossing | Resident from Bik Lai Estate | Noise | Noise Nuisance from Construction Works (C1 - Jul) | Y | The complaint is considered as project-related. Construction works were undergoing at the time of complaint and PMEs were operating. No non-compliance was recorded. The details shall be referred to CIR-N144. | Closed |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|---------------|---------------------------------|----------------------------------------------|-----------------------|----------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 556 | 27-Jun-21 | 27-Jun-2021 / Marine Works Area | Anonymous | Working Hours | Operation of Marine Construction Works during Restricted Hours | Y | Tug boat and crane barge were used for relocating barge and airlifting materials. The Contractors held valid and approved CNP. No non-compliance was recorded. The details shall referred to CIR-N143. | Closed |
| 555 | 29-Jun-21 | 29-Jun-21 / Marine Works Area | Anonymous | Water | Suspected Muddy Water at the Marine Works Area | N | No direct evidence point towards C2 was the source of muddy water. The details of complaint shall be referred to CIR-W17. | Closed |
| 554 | 29-Jun-21 | 25-Jun-21 / Marine Works Area | Anonymous | Light / Working Hours | Construction works during restricted hours and light nuisance | N | No construction was undergoing during the time of complaint. The light shown in photo was used as safeguarding purpose. Details shall be referred to CIR-O7. | Closed |
| 553 | 27-May-21 | 26-May-21 / C3 | Anonymous | Air | Air quality impact nuisance nearby Po Yap Road (C3 - Apr & May 2021) | N | See Complaint #551 | Closed |
| 552 | 18-May-21 | 17-May-21 / C1 | Anonymous | Noise | Noise Nuisance from Construction Works (C1 - May) | Y | The complaint is considered as project-related. Construction activities were undergoing during the time of complaint and deficiencies of noise mitigation measures can be observed. The details shall be referred to CIR-N142. | Closed |
| 551 | 21-May-21 | 23-Apr-21 / C3 | Resident from Ocean Shores | Air | Air quality impact nuisance nearby Po Yap Road (C3 - Apr & May 2021) | N | The contractor had applied mitigation measures such as regular watering and covering stockpile of dusty materials. The complaint is considered as project-related and details shall be referred to CIR-A21 | Closed |
| 550 | 21-May-21 | 4-May-21 / C2 & C3 | Resident from Ocean Shores | Noise | Noise nuisance at early morning (C2&C3 May 2021) | N | The complaint is considered as non-project-related as both contractor and RE confirmed that no construction was carried out on or before 8 a.m. on the date of incident. The details shall be referred to CIR-N139 | Closed |
| 549 | 26-Apr-21 | 21-Apr-21 / C1 | Mr. Chan from Hong Nga Court | Noise | Noise nuisance at morning (C1-Late Apr) | Y | See Complaint #547 | Closed |
| 548 | 26-Apr-21 | 23-Apr-21 / C1 | Mrs. Ho from Lung pak House | Noise | Noise nuisance at morning (C1-Late Apr) | Y | See Complaint #547 | Closed |
| 547 | 26-Apr-21 | 25-Apr-21 / C1 | Mr. Lau from Yung Lai House | Noise | Noise nuisance at morning (C1-Late Apr) | Y | The complaint is considered as project-related. Construction works were undergoing at the time of complaint and PMEs were operating. No non-compliance was recorded. The details shall be referred to CIR-N141. | Closed |
| 546 | 19-Apr-21 | 4&11-Mar-21 / Marine Works Area | Anonymous | Noise | Noise nuisance on holiday mornings (C6 - Apr) | Y | The complaint is considered as project-related and rebar fixing and framework erection was undergoing. No PME was operating during the time of complaint. A valid CNP is held by the Contractor and no non-compliance was identified. The details shall be referred to CIR-N140. | Closed |
| 545 | 19-Apr-21 | 22-Mar-21 / Portion IX | Mr. Lai (Sai Kung District Council Member) | Noise | Noise nuisance on holiday mornings (C2 - Mar) | N | See Complaint #538 | Closed |
| 544 | 19-Apr-21 | 11-Mar-21 / Portion III | Resident of Yau Lai Estate | Noise | Noise Nuisance from Construction Works (C1 - Mar) | Y | See Complaint #521 | Closed |
| 543 | 19-Apr-21 | 3-Apr-21 / Portion III | Resident of Yau Lai Estate | Noise | Noise Nuisance from Construction Works (C1 - Apr) | Y | See Complaint #534 | Closed |
| 542 | 19-Apr-21 | 3-Apr-21 / Portion III | Resident of Yau Lai Estate | Noise | Noise Nuisance from Construction Works (C1 - Apr) | Y | See Complaint #534 | Closed |
| 541 | 19-Apr-21 | 7-Apr-21 / Portion III | Resident of Ping Tin Estate | Noise | Noise Nuisance from Construction Works (C1 - Apr) | Y | See Complaint #534 | Closed |
| 540 | 19-Apr-21 | 14-Apr-21 / Portion III | Mr. Wang (Kwun Tong District Council Member) | Noise | Noise Nuisance from Construction Works (C1 - Apr) | Y | See Complaint #534 | Closed |
| 539 | 16-Apr-21 | 22-Mar-21 / Portion IX | Resident of Ocean Shores | Noise | Suspected Construction Works during evening-time (C2 - Mar) | N | See Complaint #534 | Closed |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|---------------|---------------------------------------------|--------------------------------------------|--------|-----------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 538 | 16-Apr-21 | Non-specific / Works area near Ocean Shores | Resident of Ocean Shores | Noise | Noise nuisance on holiday mornings (C2 - Mar) | N | No works was conducted during the time of complaint. The complaint is considered as non-project-related. Details shall be referred to CIR-N138. | Closed |
| 537 | 15-Apr-21 | 14/4/2021 / Works area near Park Central | Resident of Park Central | Noise | Noise Nuisance due to Breaking Works (C3- Apr) | Y | Breaking works was conducted during the time of complaint. No limit level for noise monitoring was triggered. The complaint is considered as project-related. Details shall be referred to CIR-N137. | Closed |
| 536 | 14-Apr-21 | 7/4/2021 / Portion IX | Resident of Ocean Shores | Noise | Suspected low-frequency noise nuisance at Portion IX (Apr 2021) | N | The complaint is considered as non-project-related as no PME was turned on during the time of complaint. Details shall be referred to CIR-N136. | Closed |
| 535 | 14-Apr-21 | 7/4/2021 / C1 | Resident of Lam Tin District | Noise | Noise nuisance during nighttime (C1 - Apr 2021) | Y | See Complaint #534 | Closed |
| 534 | 8-Apr-21 | 3/4/2021 / C1 | Resident of Yau Lai Estate | Noise | Noise nuisance during nighttime (C1 - Apr 2021) | Y | The complaint is considered as project-related as there was construction works conducted at Kwun Tong Bypass. The details shall be referred to CIR-N135. | Closed |
| 533 | 26-Mar-21 | 15-Mar-2021 / Portion IVC or III | Resident of Yau Lai Estate | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 533A | 2-Mar-21 | 2-Mar-2021 / Portion IVC or III | Anonymous | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 532 | 16-Mar-21 | 10-Mar-2021 / Zone C | Mr. Lui (Sai Kong District Council Member) | Noise | Noise nuisance during daytime (C3 - Mar 2021) | Y | See Complaint #529 | Closed |
| 531 | 10-Mar-21 | 10-Mar-2021 / Zone C | Resident of Park Central | Noise | Noise nuisance during daytime (C3 - Mar 2021) | Y | See Complaint #529 | Closed |
| 530 | 10-Mar-21 | 10-Mar-2021 / Zone C | Resident of Park Central | Noise | Noise nuisance during daytime (C3 - Mar 2021) | Y | See Complaint #529 | Closed |
| 529 | 10-Mar-21 | 10-Mar-2021 / Zone C | Resident of Park Central | Noise | Noise nuisance during daytime (C3 - Mar 2021) | Y | The complaint is considered as project-related and no non-compliance was found. The noise origin was believed to be the breaking works conducting at Po Yap Road. The concerned breaking works was completed on 13 Mar 2021. The details shall be referred to CIR-N134. | Closed |
| 528 | 10-Mar-21 | 10-Mar-2021 / Portion IVC or III | Resident of Yau Lai Estate | Noise | Percussive Noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 527 | 10-Mar-21 | 10-Mar-2021 / Portion IVC or III | Resident of Yau Lai Estate | Noise | Percussive Noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 526 | 10-Mar-21 | 10-Mar-2021 / Portion IVC or III | Resident of Yau Lai Estate | Noise | Percussive noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 525 | 9-Mar-21 | 5-Mar-2021 / Portion IX | Anonymous | Noise | Noise nuisance during daytime (C2 - Mar 2021) | Y | See Complaint #522 | Closed |
| 524 | 9-Mar-21 | 9-Mar-2021 / Portion IVC or III | Mr. Wong from District Councilors | Noise | Percussive noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 523 | 9-Mar-21 | 9-Mar-2021 / Portion IVC or III | Resident of Yau Lai Estate | Noise | Percussive noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 523A | 5-Mar-21 | 5-Mar-2021 / Portion III or IVC | Anonymous | Noise | Percussive noise nuisance at morning (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 522 | 4-Mar-21 | 3-Mar-2021 / Portion IX | Resident of Ocean Shore | Noise | Noise nuisance during daytime (C2 - Mar 2021) | Y | The complaint case was considered as project-related. The Contractor is reminded to close the gap of noise barrier and repair damaged noise barriers. The details shall be referred to CIR-N132. | Closed |
| 521 | 4-Mar-21 | 3-Mar-2021 / Portion IVC or III | Resident of Yau Lei Estate | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | The complaint is considered as project-related. No limit level of construction noise was recorded during March 2021 and the details shall be referred to CIR-N133. | Closed |
| 521A | 1-Mar-21 | 2-Mar-2021 / Portion IVC or III | Resident of Ping Tin Estate | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | See Complaint #521 | Closed |

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| 520 | 1-Mar-21 | 1-Mar-2021 / Portion IVC or III | Resident of Yau Lei Estate | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | See Complaint #518 | Closed |
| 520A | 1-Mar-21 | Non-specific | Resident of Yau Lei Estate | Noise | Noise nuisance during daytime (C1 - Mar 2021) | Y | See Complaint #521 | Closed |
| 519 | 24-Feb-21 | 21-Feb-2021 / Non-specific | Resident of Ocean Shores | Noise | Noise nuisance on morning (Feb 2021) | N | No PME was operating on-site at the time of complaint and the complaint is considered as non-project-related. The details shall be referred to CIR-N131 | Closed |
| 518 | 19-Feb-21 | 12-13 & 18 Feb 2021 / Non-specific | Resident of Yau Lei Estate & Hong Pak Court | Noise | Percussive noise nuisance at morning (C1) | Y | Investigation result shows that the percussive noise nuisance was generated from Portion IVC. The construction work started after 0700 and no limit level of daytime noise exceedance was recorded. The details shall be referred to CIR-N130 | Closed |
| 518A | 1-Mar-20 | 27 Feb 2021 / Non-specific | Non-specific | Noise | Percussive noise nuisance at morning (C1) | Y | See complaint #518 | Closed |
| 518B | 1-Mar-20 | 25 Feb 2021 / Non-specific | Resident of Hong Pak Court | Noise | Percussive noise nuisance at morning (C1) | Y | See complaint #518 | Closed |
| 517 | 8-Feb-21 | 8/2/2021 / Non-specific | Resident of Ocean Shores | Noise | Noise Nuisance from Excavator | Y | No clear judgement was made as the complainant's information is too vague and it is hard to pinpoint the excavator mentioned in the complaint was in fact the one located at the project site. The details shall be referred to CIR-N129. | Closed |
| 516 | 26-Jan-21 | 21-Feb-2021 / Non-specific | Resident of Ocean Shores | Noise / Operating Hours | Continous Noise Nuisance during Nighttime (Jan 2021) | N | No PME was operating on-site on the date of complaint. The details shall be referred to CIR-N128 | Closed |
| 515 | 23-Jan-21 | 12-13 & 18 Feb 2021 / Non-specific | Resident of Yau Lei Estate & Hong Pak Court | Noise | | N | See complaint #504 | Closed |
| 514 | 22-Jan-21 | 8/2/2021 / Non-specific | Resident of Ocean Shores | Noise | | Y | See complaint #511 | Closed |
| 513 | 22-Jan-21 | 15-Jan-2021 / Zone D | Resident of Ocean Shores | Air | Air quality impact due to open stockpile | N | See Complaint #508 | Closed |
| 512 | 22-Jan-21 | 20-Jan-2021 / Zone D | | | | N | | |
| 511 | 20-Jan-21 | 6/1/2021 & 15/1/2021 / Portion IX of C2 | Resident of Ocean Shores | Noise | Continous Noise Nuisance during Nighttime (Jan 2021) | Y | The complaint is considered as project-related as barge was operating in during time of complaint. The details shall be referred to CIR-N128 | Closed |
| 510 | 19-Jan-21 | Non-specific / Portion IX of C2 | Resident of Ocean Shores | Noise | | N | See complaint #505 | Closed |
| 509 | 15-Jan-21 | 15/1/2021 / Portion IX of C2 | Resident of Ocean Shores | Noise | | N | See complaint #505 | Closed |
| 508 | 13-Jan-21 | 5/1/2020 / Storage Area of C3 | Resident of Ocean Shores | Air | Air quality impact due to open stockpile | N | The Complaint was found project-related. The dust origin was from the stockpile at Zone A of C3. The Contractor had sprayed water regularly to suppress the dust emission and improvement had been observed over Jan 2021. Details shall be referred to CIR-A20. | Closed |
| 507 | | | Resident of Ocean Shores | Air | | N | | |
| 506 | 7-Jan-21 | 6-Jan-2020 / Portion IX | Resident of Ocean Shores | Noise | Continous Noise Nuisance during Nighttime (Jan 2021) | Y | See Complaint #500 | Closed |
| 505 | 4-Jan-21 | 22-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | N | No clear judgement was made. Other than the construction site, other source for low-frequency noise was also identified. Details shall be referred to CIR-N128 | Closed |
| 504 | 4-Jan-21 | 1-Jan-2020/C1 | Resident of Yau Lai Est. | Noise | Suspected noise nuisance from work site | N | The complaint was considered non-project-related as there was no PME working on site. The details shall be referred to CIR-N127. | Closed |
| 503 | 30-Dec-20 | 21-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | Y | See complaint #500 | Closed |
| 502 | 28-Dec-20 | 22&23-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | Y | | Closed |

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| 501B | 23-Dec-20 | 22-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | Noise nuisance at nighttime on a weekday | Y | No direct evidence show that the Contractor operated barges at the time of complaint. Therefore the complaint was considered as non-project-related. The details shall be referred to CIR-N126. | Closed | |
| 501A | 23-Dec-20 | 22-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | N | | Closed | |
| 501 | 23-Dec-20 | 22-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | Y | | The Contractor operated PME(s) at evening-/night- time without an approved valid CNP. The complaint is considered as project-related. The details shall be referred to CIR-N126. | Closed |
| 500 | 22-Dec-20 | 22-Dec-2020 / Portion IX | Resident of Ocean Shores | Noise | | Y | | | Closed |
| 499 | 21-Dec-20 | 20/12/2020 / marine works area | Resident of Ocean Shores | Operating hours / Noise | Horning noise nuisance on Sunday | N | The complaint is considered as non-project-related as no barge was working under the TKOLTT project at the time of complaint. The details shall be referred to CIR-O6. | Closed | |
| 498 | 18-Dec-20 | 17-Dec-2020 / Marine Works Area | Resident of Ocean Shores | Noise | Low frequency noise & occasional piling noise nuisance during night-time | Y | The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to CIR-N125. | Closed | |
| 497 | 9-Dec-20 | Days on/before 9/12/2020 / Portion IVC | Resident of Yau Lai Estate | Air & Noise | Dust & Noise Nuisance near Lam Tin Interchange (December) | Y | See Complaint #494 | Closed | |
| 496 | 3-Dec-20 | Days before 3-Dec-20 / Lam Tin Tunnel | Resident of Hong Pak Court | Noise | Dust & Noise Nuisance near Lam Tin Interchange (December) | Y | See Complaint #494 | Closed | |
| 495 | 16-Dec-20 | 12-Dec-2020 / Po Yap Road | Resident of Park Central | Noise | Night time machanical noise nuisance | Y | The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to N124. | Closed | |
| 494 | 5-Dec-20 | Early Dec 2020 / Portion III | Resident of Lung Pak House / Staff from Elderly Hoose nearby | Noise | Noise Nuisance near Lam Tin Interchange (December) | Y | The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor is reminded to ensure the effectiveness of noise mitigation measures by various measures including repairing damaged noise barrier. The details shall be referred to CIR-C40. | Closed | |
| 493 | 8-Dec-20 | 25-Nov-2020 & 2-Dec-2020 / Works area nearby Park Central | Resident of Park Central | Noise | Percussive noise nuisance from at early morning | N | The complaint is considered as non-project-related. No operating PME(s) under TKO-LTT project at the time of complaint was known to emit percussive noise at the time of complaint. The details shall be referred to CIR-N123. | Closed | |
| 492 | 18-Nov-20 | 18-Nov-2020 / Portion VIII (C2) | Resident of Ocean Shores | Noise | Construction Noise nuisance at Morning | Y | Preliminary result reveals that pre-boring and breaking works had been conducted at the time of complaint. The details shall be referred to CIR-N122. | Closed | |
| 491 | 18-Nov-20 | 16-Nov-2020 / C1 | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Restricted Hour) | Y | See Complaint #490. | Closed | |
| 490 | 13 & 16 Nov 20 | 5-12 & 14-Nov-2020 / C1 | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Restricted Hour) | Y | The complaint is considered as project-related. The origin of noise nuisance was believed to be construction works at Tunnel S1 and S2. No non-compliance was found and the details shall be referred to CIR-N121 | Closed | |
| 489 | 13-Nov-20 | 13-Nov-2020 / C1 | Resident of Yau Lai Estate | Air & Noise | Dust and Noise Nuisance in Portion IVC | Y | The complaint was found project-related. The contractor had adpoted various noise mitigation measures suc as rock splitting method and erection of semi-enclosure to further reduce the noise impact to its surrounding. The details shall be referred to CIR-C39. | Closed | |
| 488 | 13-Nov-20 | 10-Nov-2020 / C2 | Resident of Ocean Shores | Air | Dust emission from construction works | N | The complaint was found project-related. The Contractor is recommended to spray water more requently to suppress the dust nuisance. The details shall be referred to CIR-A19. | Closed | |
| 487 | 11-Nov-20 | 5-Nov-2020 / Portion IVC | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Late September to November) | Y | See Compliant #468 | Closed | |

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| 486 | 11-Nov-20 | 6-Nov-2020 / Portion IVC | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Late September to November) | Y | See Compliant #468 | Closed |
| 485 | 7-Nov-20 | 7-Nov-20 | Resident of Park Central | Noise | Percussive noise nearby Park Central | Y | The complaint is considered non-project-related as no PME that know to emit percussive noise was operating during the time of complaint. The details shall be referred to CIR-N120. | Closed |
| 484 | 7-Nov-20 | 7-Nov-20 / Portion IV | Resident of Ocean Shores | Noise | Noise Nuisance from Excavation Works | Y | See complaint #481 | Closed |
| 483 | 6-Nov-20 | 6-Nov-20 | Resident of Ocean Shores | Noise | Low-frequency noise at night (Oct&Nov 2020) | N | The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisance. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119 | Closed |
| 482 | 30-Oct-20 | 29-Oct-2020 / C2 | Non-specific | Air | Dust emission from construction works | N | Despite the contractor had sprinkle water regularly, the haul road was found dry during site audit session. The Contractor is reminded to sprinkle water more frequently and cover stockpiles of dusty material to reduce dust emission. The details shall be referred to CIR-A19 | Closed |
| 481 | 3-Nov-20 | 2-Nov-2020 /Portion IV | Resident of Ocean Shores | Noise | Noise Nuisance from Excavation Works | Y | The complaint is considered project-related as no other possible noise origin is know to emit such kind of noise at the surrounding. The Contractor had been reminded to applied lubricants and tighten the screws to reduce noise level. The details shall be referred to CIR-N118 | Closed |
| 480 | 3-Nov-20 | 3-Nov-2020 / Portion IVC | Resident of Yau Lai Est | Noise | Noise Nuisance near Lam Tin Interchange (Late September to November) | Y | See Complaint #469 | Closed |
| 479 | 3-Nov-20 | 2-Nov-2020 / Portion IVC | Resident of Yau Lai Est | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | See Complaint #469 | Closed |
| 478 | 3-Nov-20 | 30-Oct-2020 / Portion IVC | Mr. Wong from District Councillors | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | See Complaint #469 | Closed |
| 477 | 30-Oct-20 | 15-Oct-2020 / Portion IVC | Non-specific | Air | Air & Noise Nuisance near Lam Tin Interchange (October) | N | See Complaint #469 | Closed |
| 476 | 29-Oct-20 | 29-Oct-2020 / Portion IVC | Resident of Yau Lai Est | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | See Compliant #468 | Closed |
| 475 | 28-Oct-20 | Not specific / Lam Tin interchange | Non-specified (near Yau Lai Estate) | Noise | Air & Noise Nuisance near Lam Tin Interchange (October) | Y | See Complaint #469 | Closed |
| 474 | 23-Oct-20 | 23-Oct-20 / Portion IX | Resident from Ocean Shores | Noise | Low-frequency noise at night (Oct-Nov 2020) | N | The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisance. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119 | Closed |
| 473 | 21-Oct-20 | 19-Oct-20 / Portion IX | Resident from Ocean Shores | Noise | Noise Nuisance near Portion IX | Y | See complaint #459 | Draft CIR submitted |
| 472 | 20-Oct-20 | 20-Oct-20 / Portion IV | Resident from Ocean Shores | Noise | Noise Nuisance from Excavation Works | Y | Preliminary results show the noise source was from the backhoe at Portion IV. The Contractor had applied mitigation measures such as adding lubricant to mounting parts to alleviate the problem. The details shall be referred to CIR-N118 | Closed |
| 471 | 6-Oct-20 | 6-Oct-20 / Portion IX | Resident from Ocean Shores | Noise | Noise nuisance at morning (Oct 2020) | Y | See complaint #459 | Draft CIR submitted |
| 470 | 10-Oct-20 | 3-10 Oct 20 / Portion IVC | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | See Compliant #468 | Closed |

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| 469 | 10-Oct-20 | 9-10 Oct 20 / Lam Tin Interchange | DC Member (Mr. Wang) | Noise | Air & Noise Nuisance near Lam Tin Interchange (October) | Y | The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor had adopted mitigation measures such as deploying noise absorbing materials among construction site and spraying water near dust generating activities. The details shall be referred to CIR-C38. | Closed |
| 468 | 5-Oct-20 | Mondays - Saturdays / Portion IVC | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | See complaint #468A | Closed |
| 468A | 5-Oct-20 | Mondays - Saturdays / Portion IVC | Resident of Yau Lai Estate | Noise | Noise Nuisance near Lam Tin Interchange (Late September to Early November) | Y | The complaint was considered project-related. Mitigation measures such as deploying noise barrier and attempts on blocking direct line of sight from NSR was observed. The details shall be referred to CIR-N117. | Closed |
| 467 | 23-Sep-20 | 19-Sep-2020 / Portion IX | Resident of Ocean Shores | Noise | Daytime noise nuisance (mid-September) | Y | See complaint #459 | On-going |
| 466 | 22-Sep-20 | 20-Sep-2020 / Portion IX | | Noise / Working Hours | Noise nuisance on Sunday | Y | Investigation result shows none of the contract under TKOLTT conducted works on Sunday. The details shall be referred to CIR-O5 | Closed |
| 465 | 20-Sep-20 | 20-Sep-.2020 / Portion IX | | Noise / Working Hours | Noise nuisance on Sunday | Y | | Closed |
| 464 | 17-Sep-20 | August 2020 / Portion IX | Resident of Ocean Shores | Noise | Continuous Noise Nuisance over Aug 2020 | Y | The investigation shows no non-compliance and action level for noise is triggered. The details shall be referred to CIR-N113 | Closed |
| 463 | 15-Sep-20 | 15-Sep-2020 / Non-specific | Anonymous | Noise | Percussive noise nuisance at early morning | Y | The complaint is considered non-project-related. The investigation pointed out the Contractor had maintain wastewater treatment facilities properly and no action or limit level of surface SS was triggered after the incident. The muddy water was coming from DSD desilting compound. Details shall be referred to CIR-W16 | Closed |
| 462 | 8-Sep-20 | 10-Sep-2020 / Portion IX | Anonymous | Noise | Suspected muddy water discharge | N | | Closed |
| 461 | 5-Sep-20 | 5-Sep-2020 / Portion IX | Resident of Ocean Shores | Noise | Squeaky noise on a Saturday Morning | Y | The squeaky noise believed was coming from operating barges at C6. No non compliance was found. Details shall be referred to CIR-N115 | Closed |
| 460 | 8-Sep-20 | 8-Sep-2020 / Portion IVC | Resident of Yau Lai Estate | Noise | Noise nuisance near East Harbour Cross Tunnel | Y | See complaint #456 | Closed |
| 459 | 4-Sep-20 | 1-Sep-2020 / Portion IX | Resident of Ocean Shores | Noise | Noise nuisance at morning (Early Sep 2020) | Y | The complainant had repeatedly complaint about the continuous noise nuisance from September to October 2020. The complaint is considered as project-related. The result of noise monitoring had been reviewed and no limit level of exceedance was found. The details of complaint shall be referred to CIR-N114. | Draft CIR submitted |
| 458 | 28-Aug-20 | Early August 20 / Lam Tin Tunnel | Resident from Yau Lai Estate | Noise | Long-term noise nuisance since early August | Y | See complaint #456 | Closed |
| 457 | 27-Aug-20 | 24&25-Aug-20 / Portion IX | Resident from Ocean Shores | Noise | Noise nuisance at morning (Late August 2020) | Y | See complaint #456 | Closed |
| 456 | 18-Aug-20 | 18-Aug-20 / Portion IVC | Resident from Yau Lai Estate | Noise | Noise nuisance near East Harbour Cross Tunnel | Y | Investigation showed the nuisance was generated by breaking works. The contractor had promised to complete the semi-enclosure by October 2020. The details shall be referred to CIR-N112 | Closed |
| 455 | 18-Aug-20 | Dates on/before 1-Aug-20 / Lam Tin Tunnel | Resident from Yau Lai Estate | Noise | Noise nuisance from tunnel works | Y | Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N111 | Closed |
| 454 | 11-Aug-20 | 2-Aug-20 / Sea outside Ocean Shores | Resident from Ocean Shores | Operation Hours | Working on restricted hours and public holiday | N | The working barge was believed to be working under the Cross Bay Link project. None of the barges working on the time of complaint belongs to TKOLTT project. Despite works had been conducted, no PME was turned on during the time of complaint. The details shall be referred to CIR-O4. | Closed |
| 453 | 3-Aug-20 | 3-Aug-20 / Western Marine Works Area | Resident from Ocean Shores | Water | Suspected muddy water and worn out silt curtain | N | The suspected muddy water was due to the strong tidal movement under typhoon influence. The silt curtain was not deployed properly when the typhoon was landed. Details shall be referred to CIR-W15 | Closed |

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| 452 | 1-Aug-20 | 31-Jul-20 / Marine Works Area | Resident from Ocean Shores | Noise | Squeaky noise during nighttime | Y | The noise was originated from the wires that used for tightening the barge. The Contractor had not fasten the wire completely as strong wave and wind action may tear up the wire and made the barge stranded. The details shall be referred to CIR-N110. | Closed |
| 451 | 28-Jul-20 | 28-Jul-20 / Portion IX | Resident from Ocean Shores | Noise | Breaking noise on the morning | Y | Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N109 | Closed |
| 450 | 23-Jul-20 24-Jul-20 | 23&24-Jul-20 / Works area nearby Ocean Shores | Residents from Ocean Shores | Noise | Noise nuisance on weekdays | Y | The noise nuisance was originated from high-noise level works such as breaking and drilling. The details shall be referred to CIR-N108 | Draft CIR submitted |
| 449 | 16-Jul-20 | 12-Jul-20 / Lam Tin Tunnel | Resident of Hong Pak Court | Noise | Noise Nuisance Suspected from Tunnel (C1) | Y | Breaking work was conducted near the underground of Hong Pak Court. No non-conformance of CNP was identified, contractor is reminded to strictly follow the conditions of CNP and the time period of CNP. The details shall be referred to CIR-N110. | Closed |
| 448 | 4-Jul-20 | 4-Jul-20 noon / Marine works area nearby Ocean Shores | Resident of Ocean Shores | Air | Dark Smoke Emission from Barge | N | The dark smoke was originated from the barge. It is common that dark smoke will be released when the barge's engine was starting. The details shall be referred to CIR-A18. | Closed |
| 447C | 10-Jul-20 | 28-Jun-2020 / TKO South open sea | Anonymous | Water | Suspected oil leakage at the TKO south open sea | N | The suspected oil leakage was believed to be an algae bloom over the whole bay area. The noise nuisance from speeding was considered not project related. The details shall be referred to CIR-C37 | Closed |
| 447B | 10-Jul-20 | 29-Jun-2020 / TKO south open sea & flyover towards TKO Chinese Permanent Cemetery | | Water / Noise | Suspected muddy water spillage and noise nuisance due to speeding | N | | |
| 447A | 10-Jul-20 | 24-Jun-2020 / Non-specific | | Noise | Long-term noise nuisance and insufficient noise mitigation measures | Y | | |
| 446 | 12-Jun-20 | 31-May-2020 / Area nearby Yau Lai Est | Resident of Yau Lai Estate | Noise | Noise nuisance at Morning nearby East Harbour Crossing | Y | See complaint 442. | Closed |
| 445 | 11-Jun-20 | 11-Jun-20 / Park Central | Resident of Park Central | Air | Pungent smell suspected coming from the work sites | N | See complaint 443B. | Closed |
| 444 | 6-Jun-20 | 6-Jun-20 / Portion IX | Residents of Ocean Shores | Water | Flooding within work site and suspected muddy water spillage after downpour | N | The flooding is a normal phenomenon as the site boundary have been embarked. The suspected muddy water is wide-spread among the open sea at TKO south and no exceedance of SS were recorded after the incident. The complaint is considered non-project-related and details shall be referred to CIR-W14. | Closed |
| 443B | 6-May-20 | Non-specific | Anonymous | Air/Noise | Odour nuisance nearby TKO MTR Station | N | The preliminary result showed no direct relationship between the nuisance and the construction works. The details shall be referred to CIR-A17. | Closed |
| 443A | | | | | Noise nuisance at Night and Air Quality Impact from Works | Y | The complaint is considered non-project-related. There is no direct evidence showing the project site is the origin of the nuisance. The details shall be referred to CIR-C36 | Closed |
| 442 | 22-May-20 | 22-May-20 / LT Tunnel | Resident from Hong Pak Court | Noise | Noise nuisance from Tunnel Works | Y | The noise is believed to be broken inside the tunnel. The CNP was compiled with and contractor is reminded to review breaking schedule to less sensitive hour. The details shall refer to CIR-N105. | Closed |
| 441 | 8&9-Apr-20 | 9-Apr-20 / TKO surcharge area | Residents of Ocean Shores | Air/Noise | Noise Nuisance on early morning and Air Quality Works from Excavation Works | Y | The work schedule of C2 had been reviewed. The "beeping" noise is originated from C2 due to safety issue (for mobilization of materials with crane). The noise nuisance is believed to be coming from the vibration hammer. The Contractor had water the exposed area regular to reduce dust impact to the surrounding. The details shall be referred to CIR-C35 | Closed |
| 440 | 13&17-May-20 | 13-May-2020/Surcharge Area of TKO | Residents of Ocean Shores | Noise | Noise generation in early mornings of early May | Y | The work schedule of C2, C3 & C6 had been reviewed. The noise source is believed to be generated from C2 due to sheet-piling. The details shall be referred to CIR-N104. | Closed |

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| 439 | 7-Apr-20 & 24-Apr-20 | April 2020 / Works area near Park Central (non-specific) | Residents of Park Central | Odour | Continuous diesel fuel odour nuisance near Park Central | N | No direct evidence proved that the odour source was originated from the work sites of TKOLTT. The details shall be referred to CIR-A16. | Closed |
| 438 | 18-Apr-20 | 18-Apr-20 / Marine Works Area at TKO | Residents of Ocean Shores | Noise/ Light | Blasting, High Frequency Noise and Light in Tseung Kwan O | Y | The complaint was valid in regard of noise. Blasting had been carried out during the midnight and the Contractor is reminded to strictly follow requirements of CNP. The light source was originated from the construction vessels due to safety reason and guard watching. Details shall be referred to CIR-C34. | Closed |
| 437 | 27-Mar-20 | 27-Mar-2020 / Surcharge Area (C2) | Resident of Ocean Shores | Noise | Low Frequency Noise during Midnight | Y | The noise source was the malfunctioned dewatering pumps. The details shall be referred to CIR-N103 | Closed |
| 436 | 26-Mar-20 | 26-Mar-20/ Portion IVC | District Council Member (Mr. Wong) | Noise | Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin | Y | See complaint #431-433. | Closed |
| 435 | 23-Mar-20 | 23-Mar-20/ Lam Tin Tunnel | Resident of Cha Kwo Ling Village | Noise | Groundborne Noise from Blasting in the Evening | Y | Blasting was conducted at the time of complaint. The vibration monitoring conducted near Tin Hau Temple was considered the vibration level was acceptable. The details shall be referred to CIR-N102. | Closed |
| 434 | 23-Mar-20 | 20-Mar-20/ Lam Tin | District Council Member (Mr. Wong) | Noise | Noise nuisance from Construction Works during Holiday | Y | See complaint #427. | Closed |
| 433 | 20-Mar-20 | 20-Mar-20/ Lam Tin | Resident of Hong Pak Court | Noise | Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin | Y | The time period and PME of major works conducted during daytime of the complaints, no non-compliance in CNMP and during site audits has been recorded. The Contractor is recommended to provide alternative noise mitigation measures such as acoustic box for noisy PMEs and regularly repair materials of the noise mitigation measures. Details shall be referred to CIR-N101. | Closed |
| 432 | 18-Mar-20 | 18-Mar-20 / Portion IVC | Resident of Yau Lai Estate | Noise | Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin | Y | | |
| 431 | 14-Mar-20 | 14-Mar-20 / Portion IVC | Residents of Yau Lai Estate | Noise | Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin | Y | | |
| 430 | 17-Mar-20 | 17-Mar-20 / Surcharge Area / C2 | Anonymous | Water | Muddy Water at the Surcharge Area | N | The "muddy water" was created by the tug boat's screw propeller. The Contractor claimed the propeller stirred up seabed sediment and generated "muddy water". The details shall be referred to CIR-W13. | Closed |
| 429 | 10-Mar-20 | 10-Mar-20 / Site Nearby Park Central | Resident of Park Central | Noise | Noise nuisance in early morning (Mar 2020) | Y | No construction works had been conducted at the time of complaint for C3 and the major works area in C2 was at least 300m away from the complainant. It is believed that the major noise source was coming from ASD's work site. The details shall be referred to CIR-N100 | Closed |
| 428 | 4-Mar-20 | Not Specified / Tseung Kwan O | Mr. Lui, Sai Kung District Council | Odour / Noise | Odour and low frequency noise nuisance from construction site | Y | Only minor works had been conducted at the time of complaint. No direct evidence showed that the odour source was originated from C3. The suspected nuisance source is believed to be ASD's works area. The details shall be referred to CIR-C33 | Closed |
| 427 | 1-Mar-20 | 1-Mar-20 / Portion IVC | Resident of Yung Kai House | Noise | Noise nuisance from Construction Works during Holiday | Y | No construction works were conducted at the concerned locations and no direct evidence showing the complaint is project-related. The details shall be referred to CIR-N99 | Closed |
| 426 | 19-Feb-20 | 11-Feb-20 / Works area outside TKL Sports Centre | Anonymous | Noise | Noise nuisance from breaking works | Y | Refer to complaint #423 and #424. | Closed |
| 425 | 18-Feb-20 | 29-Jan-2020 / Marine works Area | Mr. Chan from Ocean Shore | | Noise nuisance from barge in morning | Y | No works had been conducted in the time period of complaint. The noise is believed to be non-project-related. The details shall be referred to CIR-N95. | Closed |
| 424 | 11-Feb-20 | 8 and 11-Feb-2020 / Site near TKL Station | Resident of Park Central | | Noise nuisance from breaking works | Y | The complaint was valid and the contractor had been operating only 1 breaker at a time. The contractor is suggested to further increase the mitigation measures to reduce impact to the surrounding neighborhood. The details shall be referred to CIR-N97 | Closed |
| 423 | 3-Feb-20 | 03-Feb-2020 / Site Near TKL Station | | | Noise nuisance from breaking works | Y | | |

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| 422 | 3-Feb-20 | 2-Feb-20 / Lam Tin Interchange | Resident of Cheuk Lai House, Yau Lai Estate | | Noise nuisance suspected to be related to works involving metal hammering on Site near EHC | Y | No construction activities were conducted at the concerned locations during the period of complaint. The Contractor is reminded to keep conducting good site practice and strictly follows the requirements of approved CNP. The details shall be referred to CIR-N98 | Closed |
| 421 | 21-Jan-20 | 21-Jan-20 / Portion IX | Ocean Shores Residents | Noise | Noise nuisance due to Blasting at midnight | Y | Blasting was conducted around 1:30am due to the vicinity of the Railway protection zone of MTR. The Contractor is reminded to keep the blast door closed during blasting to minimize noise impacts and re-schedule blasting to less sensitive hours as far as practicable. The details shall be referred to CIR-N96. | Closed |
| 420 | 7-Jan-20 | 7-Jan-20 / Portion IX | Ocean Shores Residents | | Irritating loud noise nuisance from Portion IX (C2) | Y | See complaint #417 | Closed |
| 419 | 7-Jan-20 | Sundays before 7-Jan-20 / Tunnel Works | Resident of Hong Pak Court | | Noise nuisance from Tunnel Works | Y | See Complaint #416. | Closed |
| 418 | 7-Jan-20 | 5-6-Jan-20 / C1 Marine Works Area | Ocean Shores Residents | | High-frequency noise during night-time | Y | The high frequency noise was believe to be noise emitted from the marine works area of C1. The details shall be referred to CIR-N94. | Closed |
| 417 | 3-Jan-20 | 2-Jan-20 / Portion IX | Former District Member (Mr. Chan) | | Annoying noise emission and inefficient noise mitigation measures | Y | The noise source is believed to come from a breaker and mitigation was insufficient. The Contractor was requested to strictly follow the Noise Mitigation Plan. The details shall be referred to CIR-N93. | Closed |
| 416 | 29-Dec-19 | 29-Dec-19 / Non-specific | Resident of Hong Pak Court | Noise | Groundborne Noise from Works area | Y | Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N92. | Closed |
| 415 | 27-Dec-19 | 25-Dec-19 / Lam Tin Interchange (Portion IVC) | Resident of Yau Estate | Noise | Noise nuisance from Portion IVC | Y | Non project-related due to maintenance works of East Cross-harbor Tunnel. The details shall be referred to CIR-N91. | Closed |
| 414 | 24-Dec-19 | 22-Dec-19 / Lam Tin Interchange (Portion IVC) | Resident of Yau Estate | Noise | Piling noise nuisance near Lam Tin Interchange | Y | Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N91. | Closed |
| 413 | 24-Dec-19 | 24-Dec-19 / Portion IX of Contract 2 | Resident of Capri & Ocean Shores | Noise | Loud and continuous noise emission from Portion IX | Y | No breaking activity was conducted by the C3. It was believed that C2 was the major noise source and the mitigation measures were insufficient. The details shall be referred to CIR-C32. | Closed |
| 412 | 19-Dec-19 | 14-Dec-19 / marine works area | Resident of Ocean Shores | Noise | Noise nuisance from the marine works area | Y | The major construction work was driven by pin piles. The noise emitted due to the construction activities is considered to be reduced to an acceptable level as no NSR falls under the ambit of 300m study area of the work site. Details should be referred to CIR-N90. | Closed |
| 411 | 2-Dec-19 | 30-Nov-19 / Construction Sites Outside TKL Sports Center | Resident of Park Central | Air / Noise | Non-effective noise mitigation measures and related dust and noise nuisance | Y | The construction noise created by breaking works are considered non-project related due to the large separation distance between noise source and the Complainant's Location. Major dust emission from the works area next to C3 was recorded. The Contractor is reminded to provide regular watering to dusty works. Details should be referred to CIR-C31. | Closed |
| 410 | 28-Nov-19 | 25-Nov-19 / Portion 4C | Anonymous | Noise | Noise nuisance from Lam Tin Works Area and operation hours | Y | Refer to Complaint #408 | Closed |
| 409 | 27-Nov-19 | 20&27-Nov-19 / Construction Sites near Po Yap Road & Chui Ling Road | Resident of Park Central | Air / Noise | Dust emission due to excavation works and noise nuisance from Piling works | Y | Although noise barrier had been erected and around the breakers, the direct line of sight to the NSRs at Park Central could not be totally blocked. The Contractor is recommended to provide cantilevered noise barrier with noise absorbing materials to minimise noise impact as far as practicable. Details should be referred to CIR-C31. | Closed |
| 408 | 25-Nov-19 | Non-specific (Nov-19) / Portion 4C | Resident of Yau Lai Estate | Noise | Serious Noise Nuisance from Lam Tin Works Area | Y | Despite the Contractor had applied different noise mitigation measures (e.g. semi enclosure and noise barrier). Environmental deficiency was observed during site audit session. The Contractor is recommended to apply alternative noise mitigation measures to improve the situation. The details shall be refer to CIR-N89. | Closed |
| 407 | 12-Nov-19 | Non-specific (Nov-19) / LT Construction Site | Non-specified(Complainant has previously made complaints on LTI) | Operation Hours | Inquiries on operating hours & Noise Nuisance | N | The time of complaint falls under day-time. According to the Contractor and RE, the general starting time of construction works are 08:15 on normal week days. The Contractor had avoid conduct noisy works on morning to minimize noise impacts for the nearby residents. The details shall be refer to CIR-O3 | Closed |

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| 406 | 5-Nov-19 | 5-Nov-19 / Tunnel near TKO | District Council Member (Mr. Chan) | Noise | Noise nuisance from Blasting activities during night-time | Y | No blasting was carried out on that night. The construction activities were conducted inside the tunnel with the blast door closed. The CNP that the Contractor held remained valid during the time of complaint. The details shall be refer to CIR-N88 | Closed |
| 405 | 29-Oct-19 | 17-Oct-2019 / Marine Works area near Ocean Shore | District Council Member (Mr. Chan) | Noise | Daytime times noise nuisance | Y | The complaint details does not tally up with the information provided with the Contractor and RE. Referring to the Contractor, there was construction works was starting at 09:00. Noise mitigation measures, such as acoustic mats, were applied to minimize noise impact. The details shall be refer to CIR-N87 | Closed |
| 404 | 15-Oct-19 | 12-Oct-19 / Marine Works area near Ocean Shore | Residents of Ocean Shores | Noise / Working Hours | Noise nuisance due to operation of barge on Saturday early morning | Y | The time of complaint falls within daytime and the major works conducted are dredging and reclamation. The contractor did not require any extra mitigation measures. The contractor had applied sound-proofing mat on the engine floor of the barges and is recommended to strictly follow the requirements of noise mitigation plan. The details shall be refer to CIR-N86 | Closed |
| 403 | 15-Oct-19 | Oct-19 (Not Specified) / C2 Construction Site | Residents of Ocean Shores | Noise / Working Hours | Operation of marine construction works during late hours | Y | The major construction works is trimming works for the rock mount during the time period of complaint. Mitigation measures provided by the Contractor included provision of noise insulating mats to the engine floor of the barges and shorten the work hours by ending construction works on or before 21:00 since early Oct 2019. Details shall be referred to CIR-N85. | Closed |
| 402 | 10-Oct-19 | 09-Oct-2019/ Site near TKO CPC | Residents of Ocean Shores | Noise | Noise nuisance of construction works at marine work area during early morning | Y | No construction activity at both the Cavern near the BCMCP Bridge and Platform 1B, including the barge, in particular during the complaint period between 2am and 3am on 9 Oct 2019. Since no works had conducted during the time of complaint, no mitigation measures are required. The details shall be referred to CIR-N84. | Closed |
| 401 | 5-Oct-19 | 05-Oct-2019 / C2 Portion IX | District Council Member (Mr. Chan) | Noise | High noise level from works area during daytime | Y | The time period of complaint falls under day-time and therefore the Contractor is required to carry out mitigation measures according to the latest CNMP only. The construction activities had been reviewed and no non-compliance was identified. No Limit Level of Exceedance at daytime was recorded during October 2019. For mitigation measures, the Contractor had set up sound-proofing mats and SlientUp to reduce noise impact. The details shall be refer to CIR-N83. | Closed |
| 400 | 16-Sep-19 | 10-Sep-19 / TKO Marine Works Area | District Council Member (Mr. Chan) | Water | Muddy water discharge and deficiency in water quality mitigation measures | N | With accordance to the Contractor and RE, the silt curtains were deployed regarding to SCDP ver. 8 since 10-Sep-19, site inspection on 12-Sep-19 also showed the silt curtains were deployed properly. Despite there are chances of accidental muddy water discharge due to the removal of cofferdam on 13-Sep-19, local silt curtain had been place in order to minimize the unavoidable impact by related loading and unloading of fill materials. No muddy water had been observed outside the silt curtain area. Nevertheless, the Contractor is recommend to expand the coverage of the local silt curtain in order to well-confine the muddy water released from the grab. On top of that, the Contractor shall always follow the SCDP to ensure the minimization of impacts. Details should be referred to CIR-C30. | Closed |
| 399 | 16-Sep-19 | 16-Sep-19 (Not Specified) / LT Interchange Potion III | Resident of Bik Lai House, Yau Lai Estate | Noise | Noise emission from the tunnel entrance (Potion III) | Y | No construction works was carried out during the time of complaint. Details should be referred to CIR-N82. | Closed |
| 398 | 16-Sep-19 | 13-Sep-19 / Works Area of LT-TKO Tunnel outside Tiu King Leng MTR Station | Anonymous | Air / Water | Dark smoke emission and muddy water discharge from the marine work vessels near shore | N | No dark smoke emission was observed during the site inspection conducted in the week of the complaint. The Contractor has applied an air filtering tank to clean the exhaust from the barge before emission. Details should be referred to CIR-C30. | Closed |
| 397 | 6-Sep-19 | 30 Aug-19 / Works area near Ocean Shores | Resident of Ocean Shores | Noise / Working hours | Noise emitted from Barge during Evening times | Y | The unloading works had been reviewed and no limit level of exceedance were recorded during August to early September. Since the period of complaint falls under evening times, no mitigation measures were required by the CNP. Details should be referred to CIR-N81. | Closed |

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| 396 | 6-Sep-19 | 30 Aug-19 / Works area near Ocean Shores | Resident | Noise | Noise nuisance from LT-TKO Tunnel | Y | The major works conducted were shortcreting, mucking out, maintaining, drilling and unloading. No limit level of exceedance in the restricted hours (19:00-23:00) between late August and early September were recorded. The Contractor is recommended to keep following noise mitigation plan to minimize noise nuisance. Details should be referred to CIR-N80. | Closed |
| 395 | 6-Sep-19 | 31 Aug-19 / Works area near Ocean Shores | District Council Member (Mr. Chan) | Noise | Noise Nuisance during evening and night times | Y | | Closed |
| 394 | 6-Sep-19 | Not specified (Sep-19) / Works area near Ocean Shores | Anonymous | Noise / Operating Hours | Noise nuisance during Evening & occasionally in Night time | Y | | Closed |
| 393 | 30-Aug-19 | 30 Aug-19 / Marine works Area | District Council Member (Mr. Chan) | Water | Alleged muddy water discharge | N | High rainfall was recorded during period of complaint, therefore muddy water discharge at outfall from upstream and some surface runoff within the site is expected. However, no major silt curtain deficiency was observed during on-site observation and no leakage of muddy water from the marine works area was observed. Details should be referred to CIR-W12. | Closed |
| 392 | 29-Aug-19 | 20-27 Aug-19/ Portion 4C | Resident of Bik Lai House, Yau Lai Estate | Noise | Noise nuisance from the operation of heavy machineries and missing of noise mitigation measures at Portion 4C | Y | A noise insulating cover was erected before the period of complaint, however, due to restricted site condition in the relocated breaking works area, the erection of the cover could not be carried out. Nevertheless, movable noise barriers and local semi-enclosure was adopted for breaking works. Details should be referred to CIR-N79. | Closed |
| 391 | 26-Aug-19 | 10-Jul-19 / Construction site near Ocean shore | District Council Member (Mr. Chan) | Noise | Operation of construction works during late hours | Y | 1 derrick barge was operated during the period of complaint with valid CNP. Regular maintenance and checking should be conducted for all operating barges. Details should be referred to CIR-N78. | Closed |
| 390 | 26-Aug-19 | 31-Jul-19 / Construction site near Ocean shore | District Council Member (Mr. Chan) | Noise | Intermittent noise emitted from collision during night-time | Y | The noise source is suspected to be the collision between cofferdam and its broken part as the cofferdam was found damaged next morning. No construction was conducted at night time of 31 July. The contractor is recommended to maintain and check cofferdam regularly. Details should be referred to CIR-N77. | Closed |
| 389 | 29-Jul-19 | 17 to 24-Jul-19 / Marine Construction Site near O King Road | Resident of Ocean Shore | Noise | Noise nuisance from the barge operating in reclamation works area near O King Road during evening times. | Y | 1 derrick barge was operated during the period of complaint with valid CNP. Regular maintenance should be provided for all operating barges. Details shall refer to CIR-N76. | Closed |
| 388 | 12-Jul-19 | 8-Jul-19 / Construction Site near Ocean Shores | District Council Member (Mr. Chan) | Noise | Noise nuisance and inadequate noise barrier at the construction site near Ocean shore | Y | Although Contractor has adopted a noise mitigation measure of drill rigs at Portion IV near Ocean Shore such as noise barrier with sound insulating fabric, the existing noise barrier in Portion IX and some in Portion IV are not adequate in screening the direct line of sight to Ocean Shore. Details should be referred to CIR-N75. | Closed |
| 387 | 12-Jul-19 | 8 to 12-Jul-19 / Portion 4C of C1 Construction Site | Resident of Bik Lai House | Noise | Breaking noise emitted from the operation of 2 PMEs at Portion 4C during weekday daytime. | Y | Two breakers were operated intermittently at the Portion 4C of C1 construction site during the period of complaint between 07:00 to 19:00. As observed during the site inspection/noise monitoring, movable noise barrier could not completely screen off the direct line-of-sight from PMEs to Yau Lai Estate. Contractor has adopted mitigation measure to minimize the noise impact from breakers including using a noise barrier with noise insulating fabric, adopted a less noisy hydraulic spitting method for breaking works and has been developing a semi-enclosure noise barrier to replace the existing movable noise barrier. Details should be referred to CIR-N74. | Closed |
| 386 | 10-Jul-19 | 9 to 10-Jul-19 / Not Specific | District Council Member (Mr. Chan) | Noise | Noise nuisance and disturbance from the TKOLT tunnel construction site involves intermittent noise emitted from collision during night-time. | Y | No construction works was carried out during the time of complaint. Details should be referred to CIR-N73. | Closed |

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| 385 | 4-Jul-19 | Late Jun-19 to 4-Jul-19 / Reclamation Area | Resident of Ocean Shore | Noise | The reclamation works continued into the evening during weekdays and works were also operated on Sunday. | Y | See Complaint no 384. | Closed |
| 384 | 3-Jul-19 | 3-Jul-19 / Near Ocean Shore | District Council | Noise | The construction site was constantly emitting metallic percussion noise in the early morning. | Y | The concerned metallic percussion noise source was suspected from the collision between the detached sheet pile and the adjacent sheet pile of the broken cofferdam. The detached sheet pile was fixed by re-sealing it to the adjacent sheet pile. Details should be referred to CIR-N72. | Closed |
| 383 | 29-Jun-19 | Jun-19 / Lam Tin Interchange | Resident of Yau Lai Estate, Yung Lai House | Noise | Noise nuisance from construction works during weekday daytime and evening times. Noise barriers was found missing in certain parts of the construction areas. | Y | Some noise mitigation measures were observed during the site inspection including idle equipment were turned off and noise barrier has been erected close to noisy PMEs in the right direction facing Yau Lai Estate. However, the above mitigation measures were not applied to whole construction site such as noise barriers were not placed close enough to the noisy PMEs due to the uneven surface and other inconvenience. Details should be referred to CIR-N71. | Closed |
| 382 (N08/RE/00011019-19) | 17-Jun-19 | 6-Jun-19 / Cofferdam area | District Council | Air | Dark smoke nuisance from the tug boat inside the cofferdam area. | N | During site audit, no violation of the Air Pollution Control (Smoke) Regulation from the construction site was observed by the ET. Air filter has been replaced on derrick barge to reduce the dark smoke emission upon the receipt of the complaint. The Contractor is recommended to replace the air filters regularly. Details should be referred to CIR-A15. | Closed |
| 381 (N08/RE/00015098-19) | 11-Jun-19 | 1-Jun-19 / Near cofferdam | District Council | Water | Muddy water discharge from construction site near the cofferdam area on 4 June 19 | N | High volume of upstream muddy water was collected due high rainfall according to reports and observation. As a result, the muddy water from upstream was discharged into the Junk Bay via various outfalls in Junk Bay, as observed during the rainstorm events. No sand plume within the cofferdam area and no muddy water discharge at the designated discharge point within the Site was identified during the site inspection and water quality monitoring. Details should be referred to CIR-W11. | Closed |
| 380 | 11-Jun-19 | 6-Jun-19 / Near Tong Yin Street | Resident of Ocean Shore | Air | Odour nuisance from construction site near Tong Yin Street | N | No oil leakage from mobile crane was observed during the site inspection in June 2019. According to the testing reports, all ULSD fuel applied in the PMEs during the construction period contains sulphur content lower than 0.005% by weight, which complied with the Air Pollution Control (Fuel Restriction) Regulations. Details should be referred to CIR-A14. | Closed |
| 379 | 11-Jun-19 | 4-Jun-19 / Near cofferdam area | General Public | Water | Discharge of mud water into Junk Bay from TKOLT construction site | N | See Complaint no 381. | Closed |
| 378 | 11-Jun-19 | 13-Apr-19 / Near cofferdam area | General Public | Air | Dark smoke nuisance from construction site involves derrick barge operation near cofferdam area (daytime) | N | No violation of the Air Pollution Control (Smoke) Regulation was recorded from the construction site was observed. The contractor was recommended to install carbon filter at smoke exhaust of the barge as a more effective mitigation measures. Details should be referred to CIR-C27. | Closed |
| 377 | 11-Jun-19 | 2-Jun-19 / Lam Tin Interchange | General Public | Noise | Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday. | Y | Only drilling works inside the tunnel was conducted during daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to re-schedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70. | Closed |
| 376 | 11-Jun-19 | 9-Jun-19 / Near Yau Lai Estate | Resident of Yau Lai Estate | Noise | Complaint about the noise nuisance near Yau Lai Estate involves vehicle movement (roller) during morning to 15:00 in holiday. | Y | No works involving roller was involved. Only drilling works inside the tunnel and dismantling of crusher shelter was conducted during Sunday daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to re-schedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70. | Closed |
| 375 | 11-Jun-19 | 9-Jun-19 / Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday. | Y | See Complaint no. 376. | Closed |

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| 374 | 4-Jun-19 | 3-Jun-19 / Near Ping Tin Estate | Resident of Ping Sin House in Ping Tin Estate | Noise | Vibration from the construction of Lam Tin Interchange in evening time at around 20:00 | Y | Groundborne noise is considered as the major factor contributing to the noise nuisance. The reverse circulation drilling works may have emitted groundborne noise, however, only 1 unit was used in Portion II. Therefore, blasting is considered as the major cause for the vibration. Details should be referred to CIR-N69. | Closed |
| 373 | 4-Jun-19 | 2-Jun-19 / Near ocean Shore | Resident of Ocean Shore | Noise | Complaint about the noise nuisance from the construction site near Ocean Shore and the construction site operation in day time holiday. | Y | No construction activity was conducted at the time of complaint as confirmed by Engineer. Therefore, the noise nuisance was not due to the construction site. Details should be referred to CIR-N68. | Closed |
| 372 | 4-Jun-19 | 1-Jun-19 / Near ocean Shore | Resident of Ocean Shore | Others | Complaint about the construction site operation in the early morning on Saturday. | N | See Complaint no. 373. | Closed |
| 371 | 30-May-19 | 30-May-19 / Near Ocean Shore | Resident of Ocean Shore | Noise | Noise nuisance from construction site near Ocean Shore during night time. | Y | See Complaint no. 373. | Closed |
| 370 (N08/RE/00015 098-19) | 29-May-19 | 19 & 26-May-19 / Near Ocean Shore | Resident of Ocean Shore | Noise | Noise nuisance about dredging mud and loudspeaker in the construction site near Ocean Shore during daytime holiday. | Y | Noise barriers/ Noise absorptive materials have been used to mitigate the noise generated from the construction works. Only walkie-talkies were used for communication in the construction site. Details should be referred to CIR-N67. | Closed |
| 369 | 13-May-19 | Not specific / Lam Tin interchange | Resident of Yau Lai Estate | Noise | Noise nuisance from the blasting work inside tunnel which involves explosion noise impact during midnight | Y | Contractor has adopted a mitigation measure for reduce the blasting noise impact from the tunnel such as blasting doors and did not conduct blasting works during mid-night blasting since mid-May 2019. Details should be referred to CIR-N66. | Closed |
| 368 | 19-May-19 | 19-May-19 / Near cofferdam area | General Public | Noise | Noise nuisance from barge with in cofferdam area in daytime holiday | Y | See Investigation / Mitigation Action for complaint no. 361. | Closed |
| 367 | 5-May-19 | 5-May-19 / Lam Tin Tunnel - TKO entrance | Resident near Lam Tin Tunnel - TKO entrance | Noise & Air | Noise and air nuisance from construction near Lam Tin Tunnel - TKO entrance | Y | The major works during the period of complaint is scaling by breaker on day time holiday (Sunday). The works is compiled with CNP and no air quality action and noise limit level exceedance during the monitoring. Regarding the existing air quality mitigation measures, the water spray for the breaker was insufficient and the dust emission during unloading of dusty materials was observed. As the review of exiting noise mitigation measure, a broken noise SilentMat was found on the hammer of breaker. According to the above observation, Contractor has adopted several improvement such as conduct a sufficient water spray during breaking and unloading materials, replaced the noise SilentMat of the breaker and placed the noise barrier between PME and NSRs. Details should be referred to CIR-C29. | Closed |
| 366 | 4-May-19 | 4-May-19 / Lam Tin Interchange | Resident of Ping Tin Estate | Noise | Noise nuisance from construction of Lam Tin Interchange in daytime. | Y | Regarding the observation during site inspection, the hammer of the breaker was surrounded by a broken noise absorption material and a noise barrier of a driller was placed in the incorrect direction of NSRs. Contractor has improved the above mitigation measures including replaced the noise absorption materials and relocated the noise barrier to facing the NSRs. Details should be referred to CIR-N65. | Closed |
| 365 | 1-May-19 | 1-May-19 / Lam Tin Interchange | Resident of Ping Tin Estate | Noise | Noise nuisance from construction of Lam Tin Interchange in daytime. | Y | See investigation / mitigation actions for Complaint No.366 | Closed |
| 364 | 1-May-19 | 1-May-19 / Lam Tin Interchange | Resident of Ping Tin Estate | Noise | Noise nuisance from construction of Lam Tin Interchange in daytime | Y | See investigation / mitigation actions for Complaint No.366 | Closed |

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| 363 | 30-Apr-19 | 6th – 22th April -19 / Lam Tin Interchange | Resident of Ping Tin Estate | Noise | Noise nuisance from construction of Lam Tin Interchange in daytime and evening time | Y | See investigation / mitigation actions for Complaint No.366 | Closed |
| 362 (N08/RE/00013 396-19) | 8-May-19 | 7-May-2019 / Junk Bay | District Council | Noise | Noise nuisance from marine works in the Junk Bay in the night-time (06:45) | Y | No marine works in the Junk Bay was conducted as confirmed by RE. No CCTV footage was recorded during the time of complaint. It was suggested that Contractor should conduct 24 hours CCTV monitoring. Details should be referred to CIR-N64. | Closed |
| 361 | 7-May-19 | 28 Apr 2019 / Cofferdam Area | General Public | Noise | Noise nuisance from construction site at cofferdam area in holiday | Y | The reclamation works involves barges during the time of complaints has been compiled with the CNP. As review of existing mitigation measure, the sound proofing canvases for the barges were hanged up. Details should be referred to CIR-N63. | Closed |
| 360 | 2-May-19 | 27-04-2019/ Construction in Tong Tin Street | General Public | Noise | The complaint about the noise nuisance from cofferdam area during daytime and evening-time. | Y | The light source was found from the lighting of derrick barge within the cofferdam area and the noise source was found from the barge during filling works. Contractor has adopted The sound proofing canvases for the derrick barge was hanged up but no light mitigation measure. Details should be referred to CIR-C28. | Closed |
| 359 | 30-Apr-19 | 30-04-2019/ Near Ocean Shore | Resident of Ocean Shore | Noise | The complaint about the noise nuisance involve percussion noise near Ocean Shore during daytime. | Y | | Closed |
| 358 | 30-Apr-19 | 27-04-2019/ Near cofferdam area | General Public | Noise | The complaint about the noise nuisance during evening time. | Y | | Closed |
| 357 | 23-Apr-19 | 20-04-2019/ Near cofferdam area | General Public | Noise | The complaint about the noise nuisance near cofferdam area during daytime. | Y | | Closed |
| 356 | 23-Apr-19 | 19-04-2019/ Near cofferdam area | General Public | Noise | The complaint about the noise nuisance near cofferdam area during holiday. | Y | | Closed |
| 355 | 17-Apr-19 | 17-04-2019/ Near cofferdam area | General Public | Noise & light | The complaint about the noise nuisance and light pollution near cofferdam area during evening-time. | Y | | Closed |
| 354 | 30-Apr-19 | 20 Apr 2019 / Cofferdam Area 19 Apr 2019 / Cofferdam Area 15 Apr 2019 / Cofferdam Area 07 Apr 2019 / Cofferdam Area 31 Mar 2019 / Cofferdam Area | Resident of Ocean Shore (Mr. Chan) | Others | The construction site near O King Road is operated in holiday during day-time and weekday during night-time. | N | | The marine reclamation works at the Portion IX in C2 construction site was the major construction activity during the period of complaints. The concerned reclamation works is compiled with the relevant CNP. Details should be referred to CIR-O2. |
| 353 | 13-Apr-19 | 13-04-2019/Cofferdam Area | Resident of Ocean Shore (Mr. Chan) | Air | According to the complainant, large amount of smoke and exhaust was seen emitting from barges working within the cofferdam | N | See Investigation / Mitigation Action for complaint no. 329. | Closed |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
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| 352 | 13-Apr-19 | 13-04-2019/Cofferdam Area | Resident of Ocean Shore | Noise | The complainant complained about the noise nuisance from the cofferdam area in Tiu Keng Leng during day-time. | Y | The major works during the time of complaints was a crawler crane unloading H piles to the Portion V of C2 construction site. Noise barriers were erected between the crane and NSRs to reduce noise impact. Details should be referred to CIR-N62. | Closed |
| 351 | 13-Apr-19 | 13-04-2019/Cofferdam Area | Resident of Ocean Shore | Noise | The complainant complained the noise nuisance from the cofferdam area in Tiu Keng Leng during day-time. | Y | | |
| 350 | 8-Apr-19 | 07 Apr 2019 / Cofferdam Area in TKO | - | Air & Others | The complainant complained the dark smoke generation and the construction works from the cofferdam area in Tiu Keng Leng during holiday. | N | See Investigation / Mitigation Action for complaint no. 329. | Closed |
| 349 | 7-Apr-19 | 07-04-2019/Cofferdam Area | Resident of Ocean Shore | Air | Dark smoke generation from the cofferdam area in Tiu Keng Leng during day-time. | N | | Closed |
| 348 | 2-Apr-19 | 02 Apr 2019 / LTT-TKO | - | Others | The complainant complained the LTT construction site was working during holiday. | N | | Closed |
| 347 | 1-Apr-19 | 01 Apr 2019 / Cofferdam Area | Resident of Ocean Shore | Noise | Percussive noise from the cofferdam area in Tiu Keng Leng during day-time. | Y | | Closed |
| 346 | 31-Mar-19 | 31st March 2019 / Construction of Road P2 | District Council | Others | Complaint about the construction site operation of Road P2 in day time holiday | N | | A tug boat and a derrick barge were operated for the marine reclamation work within the cofferdam area during the time of complaint. As the review of relevant CNP, no violation was observed. Details should be referred to CIR-O1. |
| 345 | 26-Mar-19 | 26th March 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complaint about the noise nuisance in day time. | Y | See Investigation / Mitigation Action for complaint no. 329. | Closed |
| 344 | 28-Mar-19 | 26th March 2019 / Construction of Road P2 | District Council | Noise | Complaint letter received regarding noise nuisance and dark smoke generation from the marine barges | Y | See Investigation / Mitigation Action for complaint no. 378. | Closed |
| 343 | 25-Mar-19 | 25th March 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complaint about the noise nuisance sound like a breaking works in day time. | Y | See Investigation / Mitigation Action for complaint no. 329. | Closed |
| 342 | 25-Mar-19 | 24th March 2019 / Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the noise nuisance from the construction of Lam Tin Interchange in day time hoilday (Sunday). The noise monitoring was conducted in Hong Nga Court by staff after the complaint and the noise level is result in acceptable level, but the complainant replied that the noise monitoring is meaningless and the noise nuisance is not acceptable for her. | Y | See Investigation / Mitigation Action for complaint no. 330. | Closed |

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| 341 | 24-Mar-19 | 24th March 2019 / Lam Tin Interchange | Management Section of Hong Nga Court | Noise | Complaint about the noise nuisance from Lam Tin Tunnel construction works in day time. | Y | | Closed |
| 340 | 24-Mar-19 | 24th March 2019 / Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the noise nuisance from the construction site day time holiday (Sunday). | Y | | Closed |
| 339 | 21-Mar-19 | 21st March 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the construction noise nuisance involving percussive noise in early morning (07:00) | Y | | Closed |
| 338 | 21-Mar-19 | 21st March 2019 / Construction of Lam Tin Interchange | Resident of Ocean Shore | Noise | Construction noise | Y | See Investigation / Mitigation Action for complaint no. 323. | Closed |
| 337 | 20-Mar-19 | 19th March 2019 / Construction of Road D4 and Footbridge between Tiu Keng Leng Sport Centre and Park Central | Resident of Park Central | Noise | Complaint about the noise nuisance from the construction vehicle near Park Central in night time. | Y | See Investigation / Mitigation Action for complaint no. 329. | Closed |
| 336 | 20-Mar-19 | 20th March 2019 / Construction of Road P2 | Resident of Park Central | Noise & Pest | Complaint about the noise and pest nuisance from the construction site near Park Central in evening time. | Y | | Closed |
| 335 | 19-Mar-19 | 19th March 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Construction noise nuisance from reclamation works near the TKO-LTT reclamation site during the evening time (19:00-23:00). | Y | See Investigation / Mitigation Action for complaint no. 323. | Closed |
| 334 | 19-Mar-19 | 19th March 2019 / Construction of Road P2 | District Council | Noise | Construction noise nuisance from the TKO-LTT reclamation site during evening time (after 19:00). | Y | | Closed |
| 333 | 19-Mar-19 | 18th - 19th March 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Construction noise nuisance from construction noise in evening time (around 20:30). | Y | | Closed |
| 332 | 18-Mar-19 | 18th March 2019 / Construction of Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complaint about the noise nuisance during day time, evening time and night time. | Y | The construction activities in the complaint dates are complied with CNP. No noise limited level exceedance was recorded. During the site inspection, no noise barriers were erected between noisy PMEs and NSRs at LTI. Regarding the observation in the inspection, Contractor has adopted an improvement such as placed the noise barriers between the PMEs and NSPs to reduce noise nuisance. Details should be referred to CIR-N61. | Closed |
| 331 | 18-Mar-19 | 18th March 2019 / Construction of Lam Tin Interchange | Resident of Hong Pak Court | Noise | Complaint about the noise nuisance in night time and the past few days. (Before 07:00) | Y | | Closed |
| 330 | 17-Mar-19 | 17th March 2019 / Construction of Lam Tin Interchange | General Public | Noise | Complaint about the noise nuisance from in night time holiday. | Y | | Closed |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
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| 329 | 15-Mar-19 | 15th March 2019 / Construction of Road D4 | Resident of Park Central | Noise & Air | Complaint about the noise from the construction works and the odour nuisance involves engine oil from construction machine | Y | The construction activities in the complaint dates are compiled with the CNMP. No noise and air quality limit level exceedance were recorded. Contractor had implemented the mitigation measures for the noise and odour nuisances including acoustic mat was erected between the PME and NSR, ultra-low sulphur diesel was applied as fuel oil in PME and general refuses were disposed properly. Details should be referred to CIR-C26. | Closed |
| 328 | 14-Mar-19 | 9th March 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central | Resident of Park Central | Noise | Complaint about the noise nuisance involve drilling work in the day time (08:00). | Y | A formation works was conducted in 7 am to 7pm on 9 Mar 2019. No noise limit level exceedance was recorded in the nearest noise monitoring result. However, there was no any adoption of mitigation measure to minimize the noise nuisance from the site. As response the received complaint, the contractor should place the noise barrier between the PMEs and NSR. Details should be referred to CIR-N58. | Closed |
| 327 | 13-Mar-19 | 13th March 2019 / Construction of Lam Tin Interchange | Resident of Bik Lai House | Noise | Noise nuisance suspected from the construction works involving chiseling during evening time (22:07). | Y | A handling processed rock at Lam Tin Interchange was conducted on the complaint date in 7 pm to 11 pm involving dump truck and excavator which construction activities was compiled with the CNP. No noise limit level exceedance was record in the evening time monitoring. However, the noise barrier was not placed in the direction of the Yau Lai Estate during breaking works, the contractor had implemented a mitigation measure such as placed the noise barrier to reduce noise level from the breaker but the noise barrier was far from the concerned breaker. Details should be referred to CIR-N59. | Closed |
| 326 | 13-Mar-19 | 13th March 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Noise nuisance suspected from marine works near Ocean Shores in the day time (16:30) | Y | See Investigation / Mitigation Action for complaint no. 322. | Closed |
| 325 | 9-Mar-19 | 9th March 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the noise nuisance involve machine and percussive noise in night time (02:00 -03:00). | Y | Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56. | Closed |
| 324 | 7-Mar-19 | 7th March 2019 / Construction of Lam Tin Interchange | Resident of Hong Pak Court | Noise | Complaint about the noise nuisance involving chiseling noise from the construction site near Hong Pak Court during day time and evening time in the past few months. | Y | Only drilling works were conducted inside the tunnel in early morning and daytime under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56. | Closed |
| 323 (EPD-N08/RE/00006 523-19) | 4-Mar-19 | 4th March 2019/ Cofferdam Area | Resident of Ocean Shore | Noise | Construction noise (Evening time) | Y | Only 1 derrick barge and a tug boat was used in the evening time under valid CNP. No Limit Level Exceedances were recorded at Station CM6(A) during evening time. Acoustic mat should be used to screen the engine of the barge to reduce the noise nuisance from the reclamation works. Lubricants should be applied to the barge to reduce the noise emission during barge movement. | Closed |
| 322 | 13-Mar-19 | 1st March 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Noise nuisance suspected from a yellow excavator near Ocean Shores in day time (15:44). | Y | No noise limit level exceedance was recorded and the number of operating PMEs complied with the CNMP. The sound proofing canvases were not always adopted as a mitigation measure to screen the noise emitted from the engine of the barge. Contractor should adopt the aforementioned mitigation measures as far as practicable. The contractor was also be recommended to enhance the mitigation measure including frequently checking the noise barriers/sound proofing canvases, frequent checking and repair the gaps or broken acoustic sheets and continue to strictly follow the requirements in the approved CNMP. | Closed |
| 321 | 28-Feb-19 | 28th February 2019 / Construction of Lam Tin Interchange | Management Section of Yau Lai Estate | Noise | Construction noise (Night time) | Y | Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N55. | Closed |

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| 320 | 22-Feb-19 | 22nd February 2019 / Construction of Lam Tin Interchange | Resident of Hong Pak Court | Noise | Complaint about the noise nuisance involving percussive noise in early morning (Day time). Complainant said the construction should be operated after 08:00. | Y | See Investigation / Mitigation Action for complaint no. 313. | Closed |
| 319 | 21-Feb-19 | 21st February 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the noise nuisance involving percussive noise in night time | Y | | Closed |
| 318 | 21-Feb-19 | 21st February 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complaint about the noise nuisance involving percussive noise from the construction in night time | Y | | Closed |
| 317 | 25-Feb-19 | 23th February 2019 / Construction of Road P2 | Resident in O King Road | Air | Complained about the odour nuisance of petroleum smell | N | See Investigation/ Mitigation Action on Complaint no.294. Details should be referred to CIR-A12. | Closed |
| 316 | 18-Feb-19 | 18th February 2019 / Construction of Road P2 | Resident in O King Road | Air | Complaint about the dark smoke and odour nuisances | N | | Closed |
| 315 | 17-Feb-19 | 15th February 2019 / Construction of Lam Tin Interchange, Road P2 and Tseung Kwan O Interchange | General Public | Noise | Complained about construction noise (Daytime) | Y | The metal wire used for anchoring the barge inside the cofferdam area are the source for the noise nuisance. Ropes were used to replace metal wire to reduce noise nuisance from metal collision while mooring boats. Details should be referred to CIR-N54. | Closed |
| 314 | 17-Feb-19 | 16th February 2019 / Construction of Lam Tin Interchange | Resident of Yau Lai Estate | Air | Dust nuisance suspected from the construction works and absence of water spraying near Lam Tin Interchange in daytime. | N | No Air Quality action level or limit level exceedance during the monitoring conducted by ETL. Contractor had implemented mitigation measure to reduce and prevent dust emission including conducted water sprays and covered the cement bags. Details should be referred to CIR-A13. | Closed |
| 313 | 17-Feb-19 | 17th February 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Construction noise nuisance from the drilling and breaking works at Branch Tunnel in the morning (Day time) | Y | Breaking and drilling works were conducted during the time of complaint. The breakers were often seen wrapped with acoustic mat, however, they are easily damaged during the breaking works. Noise barrier are more effective in reducing the noise nuisance than the acoustic mat, but the erection of noise barrier are not often adopted properly to screen the noise from the NSR due to the additional works involved and the landform on site. Groundborne noise could also be a factor contributing to noise nuisance. Details should be referred to CIR-N53. | Closed |
| 312 | 16-Feb-19 | 16th February 2019 / Construction of Lam Tin Interchange | District Council | Noise | Complained about the explosion noise (Daytime) | Y | No exceedances were recorded and recommendation were made to further enhance the mitigation measures, such as regularly and reviewing the noise control activities that are being carried out on site regularly to ensure compliance with statutory requirement, provide training for the workers to prevent unnecessary noise disturbance and frequently check and maintain the absorptive lining adhered on blasting doors on a regular basis. | Closed |
| 311 | 15-Feb-19 | 15th February 2019 / Construction of Lam Tin Interchange | Public | Noise | Complained about the explosion noise (Daytime) | Y | See Investigation / Mitigation Action for complaint no. 312. | Closed |
| 310 | 14-Feb-19 | 14th February 2019 / Construction of Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Construction noise nuisance about the rock handling work at LTI (Daytime) | Y | Dump truck and excavator was used to transfer crushed rocks from the crusher with valid CNP. Additional noise barrier was added at the site boundary near Shun Lai house, Yau Lai Estate to reduce | Closed |

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| 309 | 13-Feb-19 | 13th February 2019 / Construction of Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Construction noise nuisance about the rock handling work at LTI (evening time) | Y | Additional noise barrier was added at the site boundary near Shan Lai House, Tai Lai Estate to reduce the direct-line of sight from the NSRs to the site. Details should be referred to the CIR-N51. | Closed |
| 308 | 13-Feb-19 | 1th - 13th February 2019 / Construction of works at the TKO-Lam Tin tunnel | Management Section of Kwong Tin Estate | Noise | Complaint about construction noise (Night time) | Y | See Investigation/ Mitigation Action on Complaint no.302. Details should be referred to CIR-N48. | Closed |
| 307 | 13-Feb-19 | 13th February 2019 / Construction at Tsung Kwan O (C1) | Resident of Ocean Shore | Noise | The complaint about the noise nuisance in day time | Y | Noise nuisance was originated from the beeping noise emitted during vehicle reversing of the loader. The total length of beeping noise should be less than 5 mins. The reverse alarm system is a necessary safety measure that cannot be revoked. Details should be referred to CIR-N50. | Closed |
| 306 | 13-Feb-19 | 13th February 2019 / Construction of works at the TKO-Lam Tin tunnel | Resident of Hong Nga Court | Noise | Noise nuisance suspected from the construction works involving chiseling noise in night time | Y | See Investigation/ Mitigation Action on Complaint no.302. Details should be referred to CIR-N48. | Closed |
| 305 | 12-Feb-19 | 12th February 2019 / Construction of works at the TKO-Lam Tin tunnel | Resident of Hong Nga Court | Noise | Noise nuisance suspected from the construction works involving chiseling noise in night time. | Y | | Closed |
| 304 | 8-Feb-19 | 8th February 2019 / Construction of Road P2 and Associated Works | Resident of Ocean Shore | Noise | Noise nuisance suspected from marine works near Ocean Shores in the day time | Y | There were two construction activities in the site including dredging and trimming in day time on 8 Feb 2019. Details should be referred to CIR-N49. | Closed |
| 303 | 2-Feb-19 | 27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel | Resident of Ping Tin Estate | Noise | Noise nuisance suspected from the construction works involving chiseling noise during day time, evening time and night time. | Y | Project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer; and Engineer should monitor the plant and machine to ensure construction activities are in compliance | Closed |
| 302 | 2-Feb-19 | 27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel | Resident of Hong Pak Court | Noise | Noise nuisance suspected from the construction works involving chiseling noise during day time | Y | | Closed |
| 301 | 31 Jan 2019 | 27th - 31th January 2019 / Construction of Lam Tin Interchange | Management Section of Hong Nga Court | Noise | Noise nuisance suspected from the | Y | See Investigation/ Mitigation Action on Complaint no.290. Details should be referred to CIR-N45. | Closed |
| 300 | 30 Jan 2019 | 30th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central | Resident of Park Central | Noise | Beeping Noise nuisance suspected from the construction works involving mobile crane | Y | See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47. | Closed |
| 299 | 30 Jan 2019 | 27th - 29th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central | Resident of Park Central | Noise | Beeping Noise nuisance suspected from the construction works involving mobile crane and also suspected from elevation platform | Y | See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47. | Closed |

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| 298 | 30 Jan 2019 | Not specific / Near Po Shun Road | Resident of Park Central | Noise & Air Quality | The dust generation and noise nuisance from the construction site near Po Shun Road | Y | There were several construction activities in the site including the removal of steel mould & scaffolding of bridge deck, erection of scaffolding for staircase and construction of Pour 1 of main deck (GL4-5) during time of complaint. Details should be referred to CIR-C25. | Closed |
| 297 | 30 Jan 2019 | 27 th - 30th January 2019 / Construction works at TKO-Lam Tin tunnel | Resident of Hong Nga Court | Noise | Noise nuisance suspected from the construction involving chiselling works | Y | See Investigation/ Mitigation Action on Complaint no.290. Details should be referred to CIR-N45. | Closed |
| 296 | 29 Jan 2019 | 27th - 29th January 2019 / Construction Site of Footbridge near Tiu Keng Leng Sport Centre. | Resident of Park Central | Noise | Beeping Noise nuisance suspected from the mobile crane at the Footbridge near Park Central Block 6 | Y | Project-related. The following recommendations were made to further enhance the mitigation measures: To arrange a signalman instead of mobile crane reversing signal for minimize the beeping noise disturbance; Frequent checking and repair the operating PME; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good condition. | Closed |
| 295 | 29 Jan 2019 | 29th January 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Complaint about the noise nuisance from the steel cable wire for anchoring between barge and pier | Y | There was a salvage works for the sunken barge (CS306) in a whole day on 27 Jan, 12 am to 3 pm on 28 Jan and 11:40 am on 29 Jan 2019. Details should be referred to CIR-N46. | Closed |
| 294 | 29 Jan 2019 | 29th January 2019 / Construction of Road P2 | Resident in O King Road | Air Quality | Complaint about the dark smoke and odour nuisances from barge. | Y | The sulphur content percentage of the adopted diesel fuel was lower than 0.05% which is compiled with the Hong Kong Air Pollution Control (Marine Light Diesel) Regulation, therefore the odour problem should be minimised. Smoke filtering tanks were adopted on deck level of derrick barges to reduce emission of dark smoke and exhaust smell. The situation has improved after the filter has been replaced. Details should be referred to CIR-A12. | Closed |
| 293 (EPD-K15/RE/00003 291-19) | 29 Jan 2019 | 29th January 2019 / Construction of Lam Tin Interchange | Cha Kwo Ling Tsuen | Noise & Air Quality | Complained about construction noise & dust (Day & Night time) | Y | See investigation / Mitigation Action for complaint no. 270. Details should be referred to CIR-C29. | Closed |
| 292 | 29 Jan 2019 | 29th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from breaking work. | Y | Project-related. The following recommendations were made to further enhance the mitigation measures: To arrange a signalman instead of mobile crane reversing signal for minimize the beeping noise disturbance; | Closed |
| 291 | 29 Jan 2019 | 29th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Pak Court | Noise | Complained about the construction noise from breaking work. | Y | Frequent checking and repair the operating PME; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; | Closed |
| 290 | 29 Jan 2019 | 29th January 2019 / Construction of Lam Tin Interchange | District Council | Noise | Complained about the construction noise from Tunnel Works | Y | To continue to strictly follow the requirements in the approved CNMP; To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good | Closed |
| 289 (EPD-N08/RE/00000 859-19) | 24 Jan 2019 | Early December 2018 - 24-Jan-2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from Tunnel Works | Y | See Investigation/ Mitigation Action on Complaint no.288. Details should be referred to CIR-N44. | Closed |
| 288 | 18 Jan 2019 | 18th January 2019 (Non-specific)/ Construction of Road P2 | Public | Noise | Complained about the construction noise from Tunnel Works | Y | No major construction works at the concerned night time. There was only salvage operation carried out in 11 pm to 12 pm on 17 Jan 2019. No violation of CNP nor Noise Control Ordinance is found in this regard. Details should be referred to CIR-N44. | Closed |

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| 287 | 17 Jan 2019 | 17th January 2019 / Construction of Lam Tin Interchange | Resident of Yung Lai House | Noise | Complained about the construction noise from Kam Tin Interchange. | Y | Project-related. The following recommendations are made to further enhance the mitigation measures: To regularly check and review the noise control activities that are being carried out on site to ensure compliance with statutory requirement. Machines may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. To provide training for the workers to prevent unnecessary noise disturbance. To provide cantilever barrier to screen the construction noise from the NSRs | Closed |
| 286 | 17 Jan 2019 | 17th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | High frequency machine noise nuisance involving air compressor from the construction site near the Park Central in day time | N | See Investigation/ Mitigation Action on Complaint no. 285. The concerned air compressor has been removed on 16 th Jan 2019. Details should be referred to CIR-N41. | Closed |
| 285 | 17 Jan 2019 | 17th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the construction noise from an air blower/fan with generator near Tiu Keng Leng Sport Centre and Park Central. | N | The concerned air compressor was removed from the construction site since 16 January 2019 afternoon, but the high frequency noise nuisance complaints were received on 17 January 2019. According to the CM8(A) noise monitoring record by environmental team, the other noise source from construction site are beeping noise of the reverse alarm system of the plant. Therefore, the high frequency noise nuisance is considered project related after 16 January 2019. Details should be referred to CIR-N41. | Closed |
| 284 | 16 Jan 2019 | 16th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central. | N | See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41. | Closed |
| 283 | 15 Jan 2019 | 15th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central. | N | See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41. | Closed |
| 282 | 15 Jan 2019 | 15th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central. | N | See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41. | Closed |
| 281 | 15 Jan 2019 | 15th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time. | N | See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41. | Closed |
| 280 | 14 Jan 2019 | 14th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time. | N | See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41. | Closed |

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| 279 | 14 Jan 2019 | 14th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | High frequency machine noise nuisance involving air compressor from the construction site near Tiu Keng Leng Sport Centre in day time Saturday and Holiday (Sunday). | N | See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41. | Closed |
| 278 | 12 Jan 2019 | 12th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | High frequency machine noise nuisance involving air compressor from the construction site between Tiu Keng Leng Sport Centre and Park Central in day time | Y | See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41. | Closed |
| 277 | 12 Jan 2019 | 12th January 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the noise from breaking activities. | N | See investigation/ Mitigation Action on Complaint no. 264. Details should be referred to N39. | Closed |
| 276 | 11 - 12 January 2019 | 11th - 12th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. Details can be referred to CIR-N40. | Closed |
| 275 | 11 Jan 2019 | 11th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the construction noise from a crane near footbridge between Tiu Keng Leng Sport Centre and Park Central | Y | See Investigation/ Mitigation Action on Complaint no. 272. | Closed |
| 274 (EPD-N08/RE/00001 234-19) | 11 Jan 2019 | 11th January 2019 / Construction of Road D4 | Public | Noise | Complaint about the high frequency machine noise nuisance from the construction site of footbridge between Tiu Keng Leng Sport Centre and park Central. | Y | No high-frequency noise was detected near the complaint location, however, the noise similar to description was detected within the renovation works inside Park Central. Details should be referred to complaint no. 272 and CIR-N41. | Closed |
| 273 | 10 Jan 2019 | 10th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. | Closed |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|-------------------------------|---------------|--------------------------------------------------------|----------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 272 | 8 Jan 2019 | 8th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complaint about the high frequency machine noise nuisance from the construction site near Park Central in day time. | Y | High frequency noise emitted from an air compressor was suspected. Noise barrier was seen erected. Noise barrier using material with higher absorption coefficient such as mineral wool is recommended. Details should be referred to CIR-N41. | Closed |
| 271 | 8 Jan 2019 | 8th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. | Closed |
| 270 (EPD-K15/RE/00000 691-19) | 7 Jan 2019 | 7th January 2019 / Construction of Lam Tin Interchange | Cha Kwo Ling Tsuen | Noise & Air Quality | Complained about construction noise & dust (Day & Night-time) | Y | Regular noise monitoring results for day time and night time show full compliance of the noise criteria. Air quality monitoring result in all stations show that no adverse air quality impact has been brought about to the nearby sensitive receivers during the time of complain. During Site audit, damaged acoustic material on the breaker was observed. Watering was provided at during rock breaking to avoid dust generation. The Contractor was reminded to deploy noise barrier to screen the line-of-sight from sensitive receiver. | Closed |
| 269 | 7 Jan 2019 | 7th January 2019 / Construction of Road D4 | Resident of Park Central | Noise | Complained about the night time construction noise near Park Central. | Y | No noticeable high frequency noise was detected from the air compressor and noise barrier was seen erected in the line-of-sight from the NSR to the Air compressor. Refer to CIR-41 for details. | Closed |
| 268 | 7 Jan 2019 | 7th January 2019 / Construction of Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the construction noise at Lam Tin Interchange. | Y | No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken Silent Mat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver; To continue to strictly follow the requirements in the relevant CNP; To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer; and Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. | Closed |
| 267 | 7 Jan 2019 | 7th January 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from breaking activities. | Y | Refer to Investigation/ Mitigation Action on Complaint no. 264. Details should be referred to N39. | Closed |
| | | 7th January 2019 / | Resident of Ocean | | Complained about the construction | | No exceedances were recorded at the nearest monitoring station, however, the approved location for noise monitoring was located at the podium of Ocean Shores. Due to inaccessibility to private unit, it is not possible to perform monitoring at higher floor. ET will keep approaching Ocean Shore Management Office for impact noise monitoring at higher floor. The recommendations for Contractor is as follows: | |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|------------------|---------------------------------------------------------------------|--------------------------------------|--------|-----------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 266 | 7 Jan 2019 | Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from breaking activities. | Y | <ul style="list-style-type: none"> only well-maintained plant on-site and plant should be serviced regularly during the construction program; Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers; Machines and plants that may be in intermittent use should be shut down between works periods or should be throttled down to minimum. | Closed |
| 265 | 7 Jan 2019 | 7th January 2019 / Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | <p>No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure:</p> <ul style="list-style-type: none"> ☑ Frequent checking and repair the gaps or broken acoustic sheets; ☑ Replace any broken Silent Mat for wrapping the breaker head; ☑ To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; ☑ The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver; ☑ To continue to strictly follow the requirements in the relevant CNP; ☑ To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer; and ☑ Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP. | Closed |
| 264 | 2nd January 2019 | 2nd January 2019 / Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from breaking activities. | Y | No noise limit level exceedance was recorded at the noise monitoring stations near ocean shores. The contractor has applied lubricants to the joint of the excavators to dampen the noise emitted from the PMEs. The contractor is recommended to use noise barriers to screen the PMEs from the NSRs as per the Noise mitigation plan. | Closed |
| 263 (EPD-) | 1st January 2019 | 31st December 2018 / Coastal near TKO cemetery | General Public | Water | Complained concerning oil leakage/ on the sea surface near the sunken barge at C2 site. | N | Oil leakage happened due to the derrick lighter was submerged to the sea within the cofferdam. As the oil leakage was found outside the cofferdam during site inspection, there was a gap in the cofferdam. The oil leakage was cleaned up and the floating oil absorber has been used to surround the cofferdam by Contractor. The Contractor are reminded to 1) regular check if the site vessels and cofferdam are in good-condition; 2) To regular monitor the operation of any activities in the cofferdam area; 3) To implement the proposed site vessels safety and the emergency responses including clearance measures. Details of the investigation should be referred to CIR-W10. | Closed |
| 262 | 30 Dec 2018 | 26 th December 2018/ Construction of Lam Tin Interchange | Resident of Hong Pak Court | Noise | Complained about the construction noise from tunnel works of Lam Tin Interchange. | Y | Refer to investigation for complaint no. 254 | Closed |
| 261 | 26 Dec 2018 | 26 th December 2018/ Construction of Lam Tin Interchange | Management Section of Hong Nga Court | Noise | Complained about the construction noise from tunnel works of Lam Tin Interchange. | Y | Refer to investigation for complaint no. 254 | Closed |
| 260 | 26 Dec 2018 | 26 th December 2018/ Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise of Lam Tin Interchange. | Y | Refer to investigation for complaint no. 254 | Closed |
| 259 | 26 Dec 2018 | 26 th December 2018/ Construction of Lam Tin Interchange | Management Section of Hong Nga Court | Noise | Complained about the construction noise of Lam Tin Interchange. | Y | Refer to investigation for complaint no. 254 | Closed |
| 258 | | | | | | | There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The complaint is considered project related. | |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|---------------|------------------------------------------------------------------------|------------------------------------|-------------|-----------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 258 | 18 Dec 2018 | 18 th December 2018/ Construction of Lam Tin Interchange | Engineering Section of Ocean Shore | Noise | Complained about the construction noise from the marine works. | Y | Mitigation measures: | Closed |
| 258 | | | | | | | Cable wire for anchoring between barge and pier has been replaced by rope between 27 Dec and 2 Jan to reduce noise impact. In addition, other good site practices recommended in the "Implementation Schedule of Proposed Mitigation Measures" of EM&A Manual and the approved CNMP of this Contract had been implemented by the Contractor, including the following: | |
| 258 | | | | | | | • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; | |
| 258 | | | | | | | • Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers; | |
| 258 | | | | | | | • Machines and plants that may be in intermittent use should be shut down between works periods or should be throttled down to minimum. | |
| 258 | | | | | | | | |
| 257 | 18 Dec 2018 | 18 th December 2018/ Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from the marine works. | Y | There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The Contractor has replaced the cable wire for anchoring between barge and pier with ropes between 27 Dec and 2 Jan to reduce noise impact. | Closed |
| 256 | 17 Dec 2018 | 15 th December 2018/ Construction of Road P2 | Resident of Ocean Shore | Noise | Complained about the construction noise from breaking and piling activities | N | No exceedance was recorded in the noise monitoring result. The number of PME operated in LTI was consistent with the proposed Construction Noise mitigation Plan (CNMP) The following recommendations were made for the Contractor to enhance the mitigation measures: • To frequently check and repair operating PME if any loosen or worn parts of the equipment to reduce excessive noise disturbance; • Noise barriers should be designed and erected around the noise sources to block the direct line-of-sight from the NSR as per the CNMP; To ensure all erected noise barriers and sound proofing canvases wrapped on PME are intact and in good condition. | Closed |
| 254 | 16 Dec 2018 | 16 th December 2018/ Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | • The night-time works were only conducted inside the tunnels with valid CNP. The noise nuisances are not considered as air-borne in nature, but ground-borne noise. 2.17 In order to confirm the possible ground-borne nature of the noise nuisances for complaints summarized in this report, CEDD has engaged the environmental team to conduct ad hoc ground-borne noise monitoring with the coordination of the Engineer. The findings will be provided in a separate report for the ad hoc monitoring. | Closed |
| 253 | 15 Dec 2018 | 15 th December 2018/ Construction of Lam Tin Interchange | Resident of Hong Nga Court | Noise | Complained about the construction noise from Tunnel Works | Y | Refer to the investigation for complaint no. 254 | Closed |
| 252 | 30 Nov 2018 | 30 th November 2018/ Construction of Road D4 | Resident of Park Central | Noise & Air | Complained about the construction noise and dust resuspension in Road D4. | Y | The number of PMEs operated on site and on-time percentage from 19 to 30 November complied with the CNMP, thus, no violation was identified. Based on the noise and air monitoring results in November 2018, no Limit Level Exceedance was recorded. Mitigation Measures • A more effective acoustic barrier was erected between the drill rig and Park Central. • Frequent water spraying along the Po Yap Road for eight times a day, Stockpile are covered with impervious material to avoid dust resuspension | Closed |
| 251 | | 27 th November 2018/ | | | | | The complaint lodged on 25 th November 2018 is considered as non-project related, as no works was conducted on that day. | |

| Complaint No. | Received Date | Date/Location of Complaint | Complainant | Nature | Details of Complaint | Noise Action Level Exceedance | Investigation/ Mitigation Action | Status |
|---------------|---------------|---------------------------------------------------------------|----------------------------|--------|----------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 251 | 28 Nov 2018 | 27 th November 2018/ Construction of TKO portal | Public | Noise | Complained about the construction noise from the marine works. | Y | The complaint on 27th November 2018 is considered project related. The contractor is reminded to 1) frequently check and repair operating PME if any loosen or worn parts of the equipment to reduce excessive noise disturbance; 2) Ensure no further use of PA system for marine works. | Closed |
| 251 | | | | | | | | |
| 250 | 26 Nov 2018 | 26 th November 2018/ Public sea in TKO | Resident of Ocean Shore | Noise | Complained about the noise nuisance from the operation of derrick barge on Sunday. | Y | Refer to the investigation for complaint no. 251 | Closed |
| 249 | 25 Nov 2018 | 20 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the noise nuisance from the Excavators in LTI on Sunday morning. | Y | Refer to the investigation for complaint no. 251 | Closed |
| 248 | 20 Nov 2018 | 20 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the noise nuisance during transfer of material in evening time at LTI | Y | Regular noise monitoring results for restricted and non-restricted hours show full compliance of the noise criteria (night-time noise exceedance is considered non-project related). The contractor is reminded to adopt cantilever noise barriers at Lam Tin Interchange to screen noise effectively by screening the line-of-sight from sensitive receivers | Closed |
| 247 | 20 Nov 2018 | 19 th November 2018/ Lam Tin Interchange | Public | Noise | Complained about the noise nuisance from rock dropping during evening time | Y | Refer to the investigation for complaint no. 248 | Closed |
| 246 | 19 Nov 2018 | 19 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the noise nuisance from dump truck in evening time | Y | Refer to the investigation for complaint no. 248 | Closed |
| 245 | 8 Nov 2018 | 8 th November 2018/ Lam Tin Interchange | Public | Noise | Complained about construction noise during night time from LTI | Y | Refer to the investigation for complaint no. 248 | Closed |
| 243 | 8 Nov 2018 | 8 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the construction noise during evening time from LTI. | Y | Refer to the investigation for complaint no. 248 | Closed |
| 242 | 7 Nov 2018 | 7 th November 2018/ Lam Tin Interchange | Public | Noise | Complained about the construction noise and dust nuisance. | Y | Refer to the investigation for complaint no. 248 | Closed |
| 241 | 6 Nov 2018 | 6 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the noise nuisance from LTI during evening time | Y | Refer to the investigation for complaint no. 248 | Closed |
| 240 | 6 Nov 2018 | 6 th November 2018/ Lam Tin Interchange | Resident of Yau Lai Estate | Noise | Complained about the noise nuisance from LTI during evening time | Y | Refer to the investigation for complaint no. 248 | Closed |

Appendix O - Cumulative Log for Complaints, Notifications of Summons and Successful Prosecutions
Table L2 - Summary of Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel

| Reporting Month/Year | Number of Complaints in Reporting Month | Number of Summons in Reporting Month | Number of Prosecutions in Reporting Month |
|----------------------|-----------------------------------------|--------------------------------------|-------------------------------------------|
| 2016 | 11 | 0 | 0 |
| 2017 | 99 | 1 | 0 |
| 2018 | 150 | 0 | 1 |
| 2019 | 156 | 0 | 0 |
| 2020 | 88 | 0 | 0 |
| Jan-21 | 12 | 0 | 0 |
| Feb-21 | 3 | 0 | 0 |
| Mar-21 | 14 | 0 | 0 |
| Apr-21 | 16 | 0 | 0 |
| May-21 | 4 | 0 | 0 |
| Jun-21 | 3 | 0 | 0 |
| Jul-21 | 3 | 0 | 0 |
| Aug-21 | 3 | 0 | 0 |
| Sep-21 | 6 | 0 | 0 |
| Oct-21 | 3 | 0 | 0 |
| Total | 562 | 1 | 1 |

Table O3 - Cumulative Log for Notifications of Summons

| Contract No. | Log Ref. | Date/Location | Subject | Status | Total no. Received in this Reporting Month | Total no. Received since project commencement |
|--------------|---------------|----------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|
| NE/2015/01 | -- | -- | -- | -- | -- | -- |
| NE/2015/02 | KTS24138/2017 | 25 June 2017/ Marine construction site at Junk Bay | Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400 | The Summon was issued on 22 Dec 2017 First hearing on 29/3/2018 | Noise nuisance during nighttime (C1 - Apr 2021) | 1 |
| NE/2015/03 | -- | -- | -- | -- | -- | -- |
| NE/2017/01 | -- | -- | -- | -- | -- | -- |
| NE/2017/02 | -- | -- | -- | -- | -- | -- |
| NE/2017/06 | -- | -- | -- | -- | -- | -- |
| NE/2017/07 | -- | -- | -- | -- | -- | -- |

Table O4 - Cumulative Log for Successful Prosecutions

| Contract No. | Log Ref. | Date/Location | Subject | Status | Total no. Received in this reporting month | Total no. Received since project commencement |
|--------------|---------------|----------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|
| NE/2015/01 | -- | -- | -- | -- | -- | -- |
| NE/2015/02 | KTS24138/2017 | 25 June 2017/ Marine construction site at Junk Bay | Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400 | Successful prosecution to the subcontractor on 27 June 2018 | 1 | 1 |
| NE/2015/03 | -- | -- | -- | -- | -- | -- |
| NE/2017/01 | -- | -- | -- | -- | -- | -- |
| NE/2017/02 | -- | -- | -- | -- | -- | -- |
| NE/2017/06 | -- | -- | -- | -- | -- | -- |
| NE/2017/07 | -- | -- | -- | -- | -- | -- |

**APPENDIX M
SUMMARY TABLE FOR MAJOR SITE
ACTIVITIES UNDERTAKEN IN THE
REPORTING QUARTER**

Appendix M - Summary Table for Major Site Activities undertaken in the Reporting Quarter

| Contract | Site Area | Site Activities | | |
|--------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | August 2021 | September 2021 | October 2021 |
| NE/2015/01 – Tseung Kwan O - Lam Tin Tunnel - Main Tunnel and Associated Works | Lam Tin Interchange | 1) EHC2 U-Trough 2) Site Formation – Area 1G1, Area 1G2, Area 2 & Area 5 3) Site Formation – Slope stabilization & Retaining Wall 4) Administration Building, West Ventilation Building & Bridge Construction 5) Emergency Stormwater Storage Tank and Stormwater Pumping Station 6) S01_2, EHC1&4 Construction 7) CKLR Underground Utilities 8) Landscape Deck 9) LTI Drainage | 1) EHC2 U-Trough 2) Site Formation – Area 1G1, Area 1G2, Area 2 & Area 5 3) Site Formation – Slope stabilization & Retaining Wall 4) Administration Building, West Ventilation Building & Bridge Construction 5) Emergency Stormwater Storage Tank and Stormwater Pumping Station 6) S01_2, EHC1&4 Construction 7) CKLR Underground Utilities 8) Landscape Deck 9) LTI Drainage | 1) EHC2 U-Trough 2) Site Formation – Area 1G1, Area 1G2, Area 2 & Area 5 3) Site Formation – Slope stabilization & Retaining Wall 4) Administration Building, West Ventilation Building & Bridge Construction 5) Emergency Stormwater Storage Tank and Stormwater Pumping Station 6) S01_2, EHC1&4 Construction 7) CKLR Underground Utilities 8) Underpass S01 9) Landscape Deck 10) LTI Drainage |
| | Main Tunnel | 1) S02_2 Excavation & Lining 2) Main Tunnel Lining Works | 1) S02_2 Excavation & Lining 2) Main Tunnel Lining Works | 1) S02_2 Excavation & Lining 2) Main Tunnel Lining Works |
| | TKO Interchange | 1) Bridge Construction 2) East Ventilation Building | 1) Bridge Construction 2) East Ventilation Building | 1) Bridge Construction 2) East Ventilation Building 3) Underground Utilities / Drainage Works |
| NE/2015/02 – Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works | General | 1) Sloping Seawall Construction 2) Construction of U-through 3) Construction of Underpass 4) Construction of Seawall Coping 5) Construction of Road P2 and SR2 | | |

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NE/2015/03 – Tsueng Kwan O – Lam Tin Tunnel – Northern Footbridge | General | The construction works under the contract had been completed in December 2019. The EM&A works were terminated in late April 2020. | | |
| NE/2017/01 – Tseung Kwan O – Lam Tin Tunnel – Tseung Kwan O Interchange and Associated Works | General | 1) Construction of Profile barrier 2) Grouting Works 3) Installation of Traffic Sign Gantry 4) Installation of Parapet Skin | 1) Construction of Profile barrier 2) Grouting Works 3) Installation of Traffic Sign Gantry 4) Installation of Parapet Skin | 1) Construction of Profile barrier 2) Grouting Works 3) Installation of Traffic Sign Gantry 4) Installation of Parapet Skin 5) Installation of Road Drainage and Drain Pipe |
| NE/2017/02 – Tseung Kwan O – Lam Tin Tunnel – Road P2/D4 and Associated Works | General | 1) Inspection pit excavation and utility diversion works 2) Construction of drainage and watermain 3) Asphalt Paving 4) Pier, Staircase and Lift Shaft Construction 5) Road Works | | |
| NE/2017/06 – Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System(TCSS) and Associated Works | General | 1) System Integration Test 2) Installation in Admin Building 3) Goods arrival & storage on site 4) Installation works inside Tunnel | 1) Goods arrival & storage on site 2) Installation in Admin Building 3) Installation works inside Tunnel | 1) Goods arrival & storage on site 2) Installation in Admin Building 3) Installation works inside Tunnel |
| NE/2017/07 - Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works | General | 1) Predrilling Work at Portion I had completed with 31 out of 35 numbers 2) Piling work at Portion I had completed with 21 out of 35 numbers 3) Precast Shell Installation with 16 out of 16 numbers had completed at portion II 4) 1st Stage Concrete for pile caps with 16 out | 1) Precast shell fabrication with 17 out of 17 numbers had completed for Portion I 2) Precast Segment Fabrication with 75 out of 236 numbers 3) Predrilling Work at Portion I had completed with 35 out of 35 numbers. 4) Piling work at Portion I had completed with | 1) Precast shell fabrication with 17 out of 17 numbers had completed for Portion I 2) Precast Segment Fabrication with 75 out of 236 numbers. 3) Predrilling Work at Portion I had completed with 35 out of 35 numbers. 4) Piling work at Portion I had completed |

| | | | |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>of 16 numbers had completed at Portion II</p> <p>5) Precast Pier Installation with 10 out of 10 numbers had completed at portion II</p> <p>6) 2nd Stage Concrete for pile caps is 14 out of 14 numbers had completed at Portion II</p> <p>7) Precast Box Girder Installation with 18 out of 18 numbers had completed at Portion II Fabrication of arch rib panels steel</p> <p>8) E&M Work and External Work at Portion V Plant Room Building are In-progress SE 4-5 to SE 6-7</p> <p>9) Fabrication of deck segment panels (S420M/ML) steel completed</p> <p>10) 1st, 2nd, 3rd and 4th round deck segment assembly completed</p> <p>11) Fabrication of arch rib panels (S690QL) steel completed.</p> <p>12) 1st, 2nd, 3rd and 4th round arch rib segment assembly</p> <p>13) Loadout, transportation and floating-in of steel bridge side span</p> | <p>21 out of 35 numbers.</p> <p>5) Precast Shell Installation with 2 out of 17 numbers had completed at portion II</p> <p>6) 2nd Stage Concrete for pile caps is 14 out of 14 numbers had completed at Portion II</p> <p>7) Precast Box Girder Installation with 18 out of 18 numbers had completed at Portion II</p> <p>8) Fabrication of deck segment panel steel completed</p> <p>9) E&M Work and External Work at Portion V Plant Room Building are In-progress SE 4-5 to SE 6-7</p> <p>10) 1st, 2nd, 3rd and 4th round deck segment assembly completed</p> <p>11) Fabrication of arch rib panels (S690QL) steel completed.</p> <p>12) 1st, 2nd, 3rd and 4th round arch rib segment assembly</p> <p>13) Loadout, transportation and floating-in of steel bridge side span</p> | <p>with 21 out of 35 numbers.</p> <p>5) Precast Shell Installation with 2 out of 17 numbers had completed at portion II</p> <p>6) 2nd Stage Concrete for pile caps is 14 out of 14 numbers had completed at Portion II</p> <p>7) Precast Box Girder Installation with 18 out of 18 numbers had completed at Portion II</p> <p>8) Fabrication of deck segment panel steel completed</p> <p>9) E&M Work and External Work at Portion V Plant Room Building are In-progress SE 4-5 to SE 6-7</p> <p>10) 1st, 2nd, 3rd and 4th round deck segment assembly completed</p> <p>11) Fabrication of arch rib panels (S690QL) steel completed.</p> <p>12) 1st, 2nd, 3rd and 4th round arch rib segment assembly</p> <p>13) Loadout, transportation and floating-in of steel bridge side span</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

APPENDIX N
EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

| EVENT | ACTION | | | |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| Action level being exceeded by one sampling | <ol style="list-style-type: none"> 1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. | <ol style="list-style-type: none"> 1. Notify Contractor. | <ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate. |
| Action level being exceeded by two or more consecutive sampling | <ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. | <ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. |

| EVENT | ACTION | | | |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| | 8. If exceedance stops, cease additional monitoring. | | | |
| Limit level being exceeded by one sampling | <ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor, IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. |
| Limit level being exceeded by two or more consecutive sampling | <ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; | <ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; |

| EVENT | ACTION | | | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| | 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. | 3. Supervise the implementation of remedial measures. | 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

Event and Action Plan for Construction Noise

| EVENT | ACTION | | | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| Action Level | <ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. | <ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals. |
| Limit Level | <ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

| EVENT | ACTION | | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|------------|
| | ET | IEC | ER | CONTRACTOR |
| | <p>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p> | | | |

Event and Action Plan for Marine Water Quality

| Event | Action | | | |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| Action level being exceeded by one sampling day at water sensitive receiver(s) | <ul style="list-style-type: none"> • Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate; • If exceedance is found to be caused by the reclamation activities, repeat <i>in-situ</i> measurement to confirm findings; • Inform IEC and contractor; • Check monitoring data, all plant, equipment and Contractor's working methods; • If exceedance occurs at WSD salt water intake, inform WSD; • Discuss mitigation measures with IEC and Contractor; • Repeat measurement on next day of exceedance. | <ul style="list-style-type: none"> • Discuss with ET and Contractor on the mitigation measures; • Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly; • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Discuss with IEC on the proposed mitigation measures; • Make agreement on the mitigation proposal. | <ul style="list-style-type: none"> • Inform the ER and confirm notification of the non-compliance in writing; • Rectify unacceptable practice; • Check all plant and equipment; • Amend working methods if appropriate; • Discuss with ET and IEC and propose mitigation measures to IEC and ER; • Implement the agree mitigation measures. |
| Action level being exceeded by two or more consecutive | <ul style="list-style-type: none"> • Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate; | <ul style="list-style-type: none"> • Discuss with ET and Contractor on the mitigation measures; | <ul style="list-style-type: none"> • Discuss with IEC on the proposed mitigation measures; • Make agreement on the mitigation proposal; | <ul style="list-style-type: none"> • Inform the Engineer and confirm notification of the non-compliance in writing; • Rectify unacceptable practice; |

| Event | Action | | | |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| sampling days at water sensitive receiver(s) | <ul style="list-style-type: none"> • If exceedance is found to be caused by the reclamation activities, repeat in-situ measurement to confirm findings; • Inform IEC and contractor; • Check monitoring data, all plant, equipment and Contractor's working methods; • Discuss mitigation measures with IEC and Contractor; • Ensure mitigation measures are implemented; • Prepare to increase the monitoring frequency to daily; • If exceedance occurs at WSD salt water intake, inform WSD; • Repeat measurement on next day of exceedance. | <ul style="list-style-type: none"> • Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly; • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Check all plant and equipment and consider changes of working methods; • Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; • Implement the agreed mitigation measures. |
| Limit level being exceeded by one sampling day at water sensitive receiver(s) | <ul style="list-style-type: none"> • Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate; | <ul style="list-style-type: none"> • Discuss with ET and Contractor on the mitigation measures; • Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly; | <ul style="list-style-type: none"> • Discuss with IEC, ET and Contractor on the proposed mitigation measures; • Request Contractor to critically review the working methods; | <ul style="list-style-type: none"> • Inform the ER and confirm notification of the non-compliance in writing; • Rectify unacceptable practice; |

| Event | Action | | | |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| | <ul style="list-style-type: none"> • If exceedance is found to be caused by the reclamation activities, repeat <i>in-situ</i> measurement to confirm findings; • Inform IEC, contractor, AFCD and EPD • Check monitoring data, all plant, equipment and Contractor's working methods; • Discuss mitigation measures with IEC, ER and Contractor; • Ensure mitigation measures are implemented; • Increase the monitoring frequency to daily until no exceedance of Limit level; • If exceedance occurs at WSD salt water intake, inform WSD. | <ul style="list-style-type: none"> • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Make agreement on the mitigation measures to be implemented; • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Check all plant and equipment and consider changes of working methods; • Discuss with ET, IEC and ER and submit proposal of mitigation measures to IEC and ER within 3 working days of notification; • Implement the agreed mitigation measures. |
| Limit level being exceeded by two or more consecutive sampling days at | <ul style="list-style-type: none"> • Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate; | <ul style="list-style-type: none"> • Discuss with ET and Contractor on the mitigation measures; • Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly; | <ul style="list-style-type: none"> • Discuss with IC(E), ET and Contractor on the proposed mitigation measures; • Request Contractor to critically review the working methods; | <ul style="list-style-type: none"> • Inform the ER and confirm notification of the non-compliance in writing; • Rectify unacceptable practice; |

| Event | Action | | | |
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| | ET | IEC | ER | CONTRACTOR |
| water sensitive receiver(s) | <ul style="list-style-type: none"> • If exceedance is found to be caused by the reclamation activities, repeat in-situ measurement to confirm findings; • Inform IC(E), AFCD, contractor and EPD; • Check monitoring data, all plant, equipment and Contractor's working methods; • Discuss mitigation measures with IC(E), ER and Contractor; • Ensure mitigation measures are implemented; • Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days; • If exceedance occurs at WSD salt water intake, inform WSD. | <ul style="list-style-type: none"> • Assess the effectiveness of the implemented mitigation measures. | <ul style="list-style-type: none"> • Make agreement on the mitigation measures to be implemented; • Assess the effectiveness of the implemented mitigation measures; • Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. | <ul style="list-style-type: none"> • Check all plant and equipment and consider changes of working methods; • Discuss with ET, IC(E) and ER and submit proposal of mitigation measures to IC(E) and ER within 3 working days of notification; • Implement the agreed mitigation measures; • As directed by the Engineer, to slow down or to stop all or part of the construction activities. |

Limit Levels and Action Plan for Landfill Gas

| Parameter | Limit Level | Action |
|----------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oxygen | <19% | <ul style="list-style-type: none"> • Ventilate to restore oxygen to >19% |
| | <18% | <ul style="list-style-type: none"> • Stop works • Evacuate personnel/prohibit entry • Increase ventilation to restore oxygen to >19% |
| Methane | >10% LEL (i.e. > 0.5% by volume) | <ul style="list-style-type: none"> • Prohibit hot works • Ventilate to restore methane to <10% LEL |
| | >20% LEL (i.e. > 1% by volume) | <ul style="list-style-type: none"> • Stop works • Evacuate personnel / prohibit entry • Increase ventilation to restore methane to <10% LEL |
| Carbon Dioxide | >0.5% | <ul style="list-style-type: none"> • Ventilate to restore carbon dioxide to < 0.5% |
| | >1.5% | <ul style="list-style-type: none"> • Stop works • Evacuate personnel / prohibit entry • Increase ventilation to restore carbon dioxide to < 0.5% |

Event and Action Plan for Coral Post-Translocation Monitoring

| Event | Action | | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET Leader | IEC | ER | Contractor |
| Action Level Exceedance | 1. Check monitoring data; 2. Inform the IEC, ER and Contractor of the findings; 3. Increase the monitoring to at least once a month to confirm findings; 4. Propose mitigation measures for consideration | 1. Discuss monitoring with the ET and the Contractor; 2. Review proposals for additional Monitoring and any other measures submitted by the Contractor and advise the ER accordingly. | 1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented. | 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER; 3. Implement the agreed measures. |
| Limit Level Exceedance | Undertake Steps 1-4 as in the Action Level Exceedance. If further exceedance of Limit Level, suspend construction works until an effective solution is identified. | 1. Discuss monitoring with the ET and the Contractor; 2. Review proposals for additional Monitoring and any other measures submitted by the Contractor and advise the ER accordingly. | 1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented. | 1. Inform the ER and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER; 3. Implement the agreed measures. |

Mitigation Measures for Vibration Monitoring

| Level | Contingency Action |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alert Level | <ul style="list-style-type: none"> ● The Engineer shall be informed immediately. ● The Contractor shall submit an investigation report to describe works being undertaken. To review the instrument responses and to study the cause of undue response. ● The Contractor shall review and increase the instrumentation monitoring and reporting frequency, if applicable. ● The Contractor shall submit a detailed plan of action describing the measures to be taken should the concerned instrument reach the action level to the Engineer for approval. |
| Alarm Level | <ul style="list-style-type: none"> ● The Engineer shall be informed immediately. ● The active construction works may require to be suspended subject to the Engineer's review of monitoring data. ● The Contractor shall immediately implement the measures as defined in the detailed plan of action to prevent further ground movement and groundwater drawdown etc. ● The Contractor shall prepare a detailed investigation report to study the cause of the exceedance ● The Contractor shall propose a contingency plan for the Engineer's approval in the event that alarm value is reached or exceeded ● The Contractor shall develop an emergency plan for the Engineer's approval in the event the applied contingency measures cannot control the situation. ● The Contractor shall meet the Engineer to discuss the instrument response and review the effectiveness of the implemented measures. ● The Contractor shall carry out design review of the works |

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Action Level | <ul style="list-style-type: none">● Consideration shall be given to suspend all active construction works and the Engineer shall be informed immediately● The Contractor shall immediately implement the measures defined in the contingency plan● The Contractor shall implement the measures defined in the emergency plan in the event that the applied contingency measures are found inadequate● The Contractor shall provide a complete report to examine the construction method and review the response of the instruments with full history of the monitoring data and construction activities and necessary design update● To resume the suspended activities, the Contractor shall demonstrate to the Engineer's satisfaction that it is safe to do so with approval from the Engineer. |
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APPENDIX O
ECOLOGICAL MONITORING

App O – Ecological Monitoring

Reporting Period: Starting from December 2017

The post-translocation coral monitoring survey were completed in November 2017.