

Water Supplies Department New Works Branch Consultants Management Division 6/F Sha Tin Government Offices 1 Sheung Wo Che Road Sha Tin New Territories

Attention: Mr W K Lau/ Mr H L Lai

Your reference:

Our reference: HKWSD202/50/108004

Date: 19 May 2022

**BY EMAIL & POST** 

(email: simon\_wk\_lau@wsd.gov.hk/

jack\_hl\_lai@wsd.gov.hk)

**Dear Sirs** 

Agreement No. CE 5/2019 (EP) Independent Environmental Checker for First Stage of Tseung Kwan O Desalination Plant – Investigation Verification of Monthly EM&A Report No.26 (April 2022)

We refer to emails of 11, 13 and 17 May 2022 attaching Monthly EM&A Report No.26 (April 2022) for the captioned project prepared by the ET.

We have no further comments and hereby verify the captioned report in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/A and Further Environmental Permit no. FEP-01/503/2015/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

Louis Kwan

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#### Contract No. 13/WSD/17

## Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

# Monthly EM&A Report No.26 (Period from 1 April to 30 April 2022)

#### Document No.

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| Date:     | 17/05/2022                | 17/05/2022                 |

#### Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.26



#### **REVISION HISTORY**

| Rev. | DESCRIPTION OF MODIFICATION              | DATE        |
|------|--|-------------|
| A    | First Issue for Comments                 | 11 May 2022 |
| В    | Revised according to IEC and SOR comment | 17 May 2022 |

#### Contract No. 13/WSD/17

### Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.26



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#### **EXECUTIVE SUMMARY**

#### INTRODUCTION

- A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP 01/503/2015/A) for the construction and operation of the Contract.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Contract.
- A3. This is the 26th Monthly EM&A Report, prepared by ASCL, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during the reporting period from 1 April 2022 to 30 April 2022.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

#### SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

- A5. Key activities carried out in this reporting period for the Contract included the followings:
  - Land Survey;
  - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
  - Construction of manholes no.2, no.3 and no.4 adjacent to ActiDAFF;
  - Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation;
  - Construction of underground utility adjacent to 132kV Substation;
  - Construction of solar panel supports at roof of ActiDAFF;
  - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
  - Construction of sludge thickener, Post Treatment Building (PTB);
  - Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;
  - Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
  - Manhole construction and GRP pipe installation;
  - Construction of 1/F to 2/F walls and columns of Administration Building;
  - Construction of footings F5 and F6 of inspection corridor;
  - Construction of parapet of Chemical Building;



- Construction of common wall of Combined Shaft;
- Outfall Shaft Dewatering;
- Intake shaft Retrieval of DN 2500 TBM under water;
- Intake tunnel Demobilize the pipe jacking system and grouting works commence;
- Construction of combined shaft and pump room;
- Slope works Scaffolding erection for rock mapping and tree survey;
- Open Channel Trench Excavation and structure installation;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works Reverse Osmosis (RO) Building Fire services installation;
- E&M works CO2 Tank area installation of silos; and
- E&M works Chiller Building Installation of chillers
- A6. The major environmental impacts brought by the above construction works include:
  - Construction dust and noise generation from marine construction works, excavation works, construction works, rock cutting works and pipe piling driving works
  - Waste generation from the construction activities
  - Impact on water quality from marine construction works and inland construction works
- A7. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above construction works include:
  - Dust suppression by regular wetting and water spraying for construction works;
  - Reduction of noise from equipment and machinery on-site and regular inspection to machinery and plants/vehicles on-site to ensure proper functioning;
  - Sorting and storage of general refuse and construction waste; and
  - Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge.

#### SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise monitoring was conducted during the reporting period since there are no Contract -related construction activities undertaken within a radius of 300m from the monitoring locations. No exceedance of the Action Level was recorded during the reporting period.
- A9. The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.



- A10. Thirty-five (35) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Twenty-three (23) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level.
- A11. Details of the exceedance are presented in **Appendix 0**.
- A12. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 7, 9, 16, 23, 26, 28 and 30 April 2022 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix 0**.
- A13. It was concluded that all exceedances recorded in the reporting month were unrelated to the Contract.
- A14. In this reporting period, 44 times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- A15. Joint site inspections of the construction work by ET and IEC were carried out on 6, 12, 19 and 29 April 2022 to audit the mitigation measures implementation status. Observations and recommendations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

#### **COMPLAINT HANDLING AND PROSECUTION**

- A16. No environmental complaint was received during the reporting period.
- A17. Neither notification of summons nor prosecution was received for the Contract.

#### **REPORTING CHANGE**

A18. There was no change to be reported that may affect the on-going EM&A programme.

#### **SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES**

- A19. Key activities anticipated in the next reporting period for the Contract will include the followings:
  - Land Survey;
  - Construction of solar panel supports at roof of ActiDAFF;
  - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
  - Construction of sludge thickener, Post Treatment Building (PTB);
  - Construction of On-Site Chlorine Generation Building (OSCG Bldg);
  - Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
  - Manhole construction and Glass Reinforced Plastic (GRP) pipe installation;



- Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
- Construction of 1/F to 2/F walls and columns of Administration Building;
- Construction of reinforced concrete (RC) support of Inspection Corridor;
- Construction of structural wall and Roof of Chemical Building;
- Construction of Common Wall of Combined Shaft;
- Outfall Shaft Idling and water pumping;
- Intake shaft TBM retrieval and excavation:
- Construction of structural wall of Combined Shaft and Pump House;
- Intake tunnel Chemical pipe installation;
- Outfall Tunnel Demobilize the pipe jacking system and grouting;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works RO- Fire services installation;
- E&M works CO2 tank area installation of Silos; and
- E&M works Chiller Building installation of chillers;
- A20. The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation from pipe jacking works, excavation and construction works;
  - Waste generation from construction activities; and
  - Impact on water quality from marine construction works and inland construction works.
- A21. The key environmental mitigation measures for the Contract in the coming reporting period associated with the above construction works will include:
  - Dust suppression by regular wetting and water spraying for construction works;
  - Reduction of noise from equipment and machinery on-site;
  - Sorting and storage of general refuse and construction waste; and
  - Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge.



#### 1. BASIC CONTRACT INFORMATION

#### **BACKGROUND**

- 1.1. The Acciona Agua, S.A. Trading, Jardine Engineering Corporation, Limited and China State Construction Engineering (Hong Kong) Limited as AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (DPTKO) under Contract No. 13/WSD/17 (the Contract).
- 1.2. Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Contract; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.
- 1.3. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-01/503/2015) and Variation of Environmental Permit (No. EP-01/503/2015/A) to Water Supplies Department (WSD); and granted the Further Environmental Permit (No. FEP-01/503/2015/A) to AJCJV for the Contract.

#### THE REPORTING SCOPE

1.4. This is the 26<sup>th</sup> Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme during the reporting period from 1 April to 30 April 2022.

#### **CONTRACT ORGANIZATION**

1.5. The Contract Organization structure for Construction Phase is presented in **Figure 1.1**.

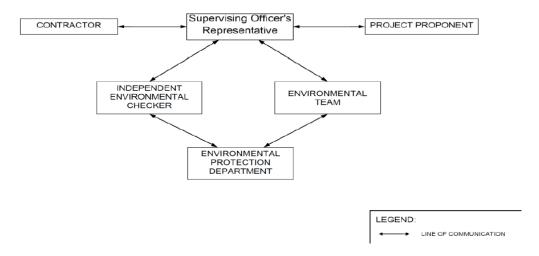


Figure 1.1 Contract Organization Chart



1.6. Contact details of the key personnel are presented in **Table 1.1** below:

**Table 1.1** Contact Details of Key Personnel

| Party  | Position                                      | Name             | Telephone no. |
|--|---|------------------|---------------|
| Contract Proponent (Water Supplies Department)   | SE/CM2  | Benny Lam        | 2634-3573     |
| Supervising Officer  | Project Manager                               | Christina Ko     | 2608-7302     |
| (Binnies Hong Kong Limited)  | Chief Resident<br>Engineer                    | Roger Wu         | 6343-1002     |
| The Jardine Engineering Corporation,   | Project Manager                               | Stephen<br>Yeung | 2807-4665     |
| Limited, China State Construction<br>Engineering (Hong Kong) Limited and<br>Acciona Agua, S.A. Trading | Environmental<br>Monitoring<br>Manager        | Brian Kam        | 9456-9541     |
| Acuity Sustainability Consulting Limited   | Environmental<br>Team Leader                  | Jacky Leung      | 2698-6833     |
| ANewR Consulting Limited   | Independent<br>Environmental<br>Checker (IEC) | Louis Kwan       | 2618-2831     |

#### **SUMMARY OF CONSTRUCTION WORKS**

- 1.7. Details of the major construction activities undertaken in this reporting period are shown as below. The construction programme is presented in **Appendix A**.
- 1.8. Key activities carried out in this reporting period for the Contract included the followings:
  - Land Survey;
  - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
  - Construction of manholes no.2, no.3 and no.4 adjacent to ActiDAFF;
  - Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation:
  - Construction of underground utility adjacent to 132kV Substation;
  - Construction of solar panel supports at roof of ActiDAFF;
  - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
  - Construction of sludge thickener, Post Treatment Building (PTB);
  - Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;



- Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
- Manhole construction and GRP pipe installation;
- Construction of 1/F to 2/F walls and columns of Administration Building;
- Construction of footings F5 and F6 of inspection corridor;
- Construction of parapet of Chemical Building;
- Construction of common wall of Combined Shaft;
- Outfall Shaft Dewatering;
- Intake shaft Retrieval of DN 2500 TBM under water;
- Intake tunnel Demobilize the pipe jacking system and grouting works commence;
- Construction of combined shaft and pump room;
- Slope works Scaffolding erection for rock mapping and tree survey;
- Open Channel Trench Excavation and structure installation;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works Reverse Osmosis (RO) Building Fire services installation;
- E&M works CO2 Tank area installation of silos; and
- E&M works Chiller Building Installation of chillers
- 1.9. A summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

Table 1.2 Summary of the Status of Valid Environmental Licence, Notification, Permit and Documentations

| Permit/ Licenses/<br>Notification  | Reference           | Validity Period         |
|--|---------------------|-------------------------|
| Environmental Permit   | FEP - 01/503/2015/A | Throughout the Contract |
| Notification of Construction<br>Works under the Air Pollution<br>Control (Construction Dust)<br>Regulation (Form NA) | Ref. No.: 451539    | Throughout the Contract |
| Billing Account for Disposal of Construction Waste   | 7036276             | Throughout the Contract |
| Chemical Waste Producer<br>Registration  | 5213-839-A2987-01   | Throughout the Contract |
| Wastewater Discharge Licence (Land and Marine works)   | WT00035775-2020     | 23/08/2021 - 31/07/2025 |
| Construction Noise Permit (24 hrs) – CNP for general works, TBM at Combined Shaft and marine works                   | GW-RE1041-21        | 01/11/2021 - 30/04/2022 |
| Construction Noise Permit for general works, TBM at  | GW-RE0337-22        | 01/05/2022-31/10/2022   |



| Permit/ Licenses/<br>Notification | Reference | Validity Period         |
|-----------------------------------|-----------|-------------------------|
| combined shaft and marine works   |           |                         |
| Vessel CHITs for fill disposal    | 7039300   | 20/01/2022 - 20/04/2022 |

1.10. The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the EM&A Manual

| Parameters                           | Status   |
|--------------------------------------|--|
| Water Quality                        |  |
| Baseline Monitoring under EM&A       | The baseline water quality monitoring was          |
| Manual                               | conducted between 12 May 2020 to 6 Jun 2020        |
| Impact Monitoring                    | On-going   |
| Noise                                |  |
| Baseline Monitoring                  | The baseline noise monitoring result has been      |
|                                      | reported in Baseline Monitoring Report and         |
|                                      | submitted to EPD under EP Condition 3.4            |
| Impact Monitoring                    | On-going   |
| Waste Management                     |  |
| Mitigation Measures in Waste         | On-going   |
| Management Plan                      |  |
| Landfill Gas                         |  |
| Regular Monitoring when              | In this reporting period, 44 times of landfill gas |
| Construction Works are within the    | monitoring was conducted at Wan Po Road            |
| 250m Consultation Zone               | (Ch1+360 – Ch1+513).                               |
| Environmental Audit                  |  |
| Site Inspection covering Measures of | On-going   |
| Air Quality, Noise Impact, Water     |  |
| Quality, Waste, Ecological Quality,  |  |
| Fisheries, Landscape and Visual      |  |

- 1.11. Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.12. The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Contract during the reporting period is provided in **Appendix C**.



#### 2. Noise

#### MONITORING REQUIREMENTS

- 2.1. To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 Creative Secondary School, (ii) NSR24 PLK Laws Foundation College, and (iii) NSR31 School of Continuing and Professional Studies CUHK respectively.
- 2.2. In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring will be conducted once per week in the form of 30-minutes measurements  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.
- 2.3. Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are contract-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 2.4. No impact monitoring for noise impact was conducted in the reporting month due to the overly distant monitoring station from the works location, where they were farther than 1 km from the closest monitoring station NSR4 to the works location.
- 2.5. Impact noise monitoring will be conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works would follow stipulations of the valid Construction Noise Permits if works had to be conducted during restricted hours or public holidays.
- 2.6. Construction noise level were measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq 30min was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

| Time               | Duration  | Interval   | Parameters  |
|--------------------|---|--|---|
| Daytime: 0700-1900 | Day time:<br>0700-1900<br>(during normal<br>weekdays) | Continuously in $L_{eq~5min}/L_{eq~30min}$ (average of 6 consecutive $L_{eq~5min}$ ) | $\begin{array}{c} L_{eq~30min} \\ L_{10~30min} ~\&~ L_{90~30min} \end{array}$ |



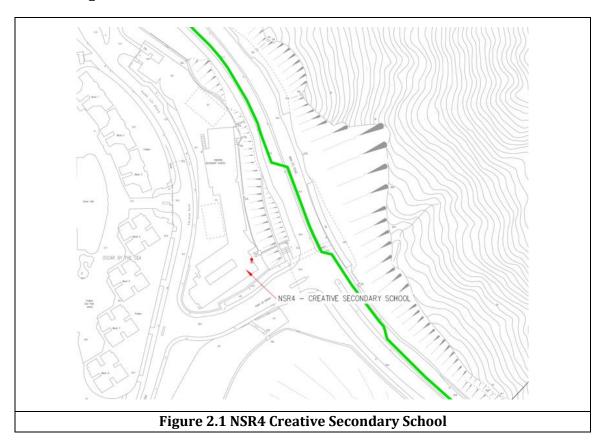
#### **MONITORING LOCATIONS**

- 2.7. The monitoring locations were normally made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.
- 2.8. According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

**Table 2.2 Noise Sensitive Receivers** 

| NSR ID | Noise Sensitive Receivers                               | Monitoring Location                | Position        |
|--------|---|------------------------------------|-----------------|
| NSR 4  | Creative Secondary School                               | Roof Floor                         | 1 m from facade |
| NSR 24 | PLK Laws Foundation College                             | Pedestrian Road on<br>Ground Floor | Free-field      |
| NSR 31 | School of Continuing and<br>Professional Studies - CUHK | Roof Floor                         | 1 m from facade |

2.9. Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.





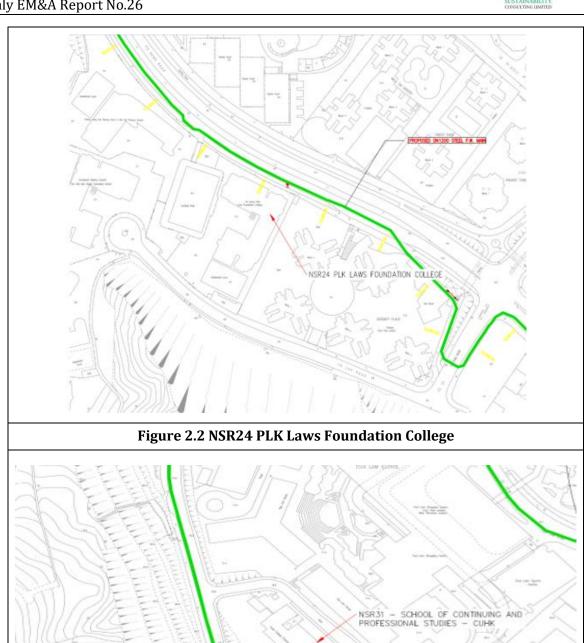


Figure 2.3 NSR31 School of Continuing and Professional Studies - CUHK



#### **IMPACT MONITORING METHODOLOGY**

- 2.10. Integrated sound level meter was used for the noise monitoring. The meter was in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements was accepted as valid only if the calibration levels before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used to be shown at **Appendix F** are intentionally left blank since no impact monitoring equipment was used in the reporting month.
- 2.11. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

#### **ACTION AND LIMIT LEVELS**

2.12. The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.3**.

Table 2.3 Action and Limit Levels for Noise per EM&A Manual

| Time Period                     | Action  | Limit (dB(A)) |
|---------------------------------|---|---------------|
| 0700-1900 on normal<br>weekdays | When one documented complaint is received from any one of the noise sensitive receivers | ` ,           |

Note: Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively.

2.13. If exceedances were found during noise monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix E**.



#### MONITORING RESULTS AND OBSERVATIONS

2.14. Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out when there are Contract-related construction activities undertaken within a radius of 300m from the monitoring stations. No monitoring station was located within a radius of 300m of the Contract site as shown in **Figure 2.4**, no impact monitoring for noise impact was conducted in the reporting period.

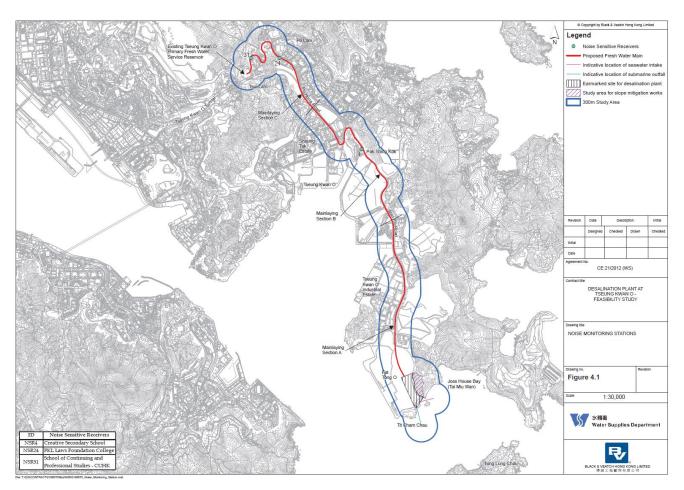


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

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#### 3. WATER QUALITY

- 3.1. In accordance with the recommendations of the EIA, water quality monitoring is required during dredging for the submarine pipelines and, during operation phase. In addition, baseline water quality monitoring will be required prior to the commencement of marine construction activities. The following Section provides details of the water quality monitoring to be undertaken by the Environmental Team (ET) to verify the distance of sediment and brine plume dispersion and to identify whether the potential exists for any indirect impacts to occur to ecological sensitive receivers. The water quality monitoring programme will be carried out to allow any deteriorating water quality to be readily detected and timely action taken to rectify the situation. The status and locations of water quality sensitive receivers and the marine works location may change after issuing this Document. If required, the ET in consultation with IEC will propose updated monitoring locations and seek approval from EPD.
- 3.2. Water quality monitoring for the Contract can be divided into the following stages:
  - Dredging activities during construction phase;
  - · Discharge of effluent from main disinfection during construction phase;
  - · Operation phase first year upon commissioning; and,
  - · Continuous monitoring of effluent quality.

#### **WATER QUALITY PARAMETERS**

3.3. The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact monitoring are listed in **Table 3.1**.

Table 3.1 Parameters measured in the Impact Marine Water Quality Monitoring

| Parameters                          | Unit | Abbreviation |  |  |
|-------------------------------------|------|--------------|--|--|
| In-situ measurements                |      |              |  |  |
| Dissolved oxygen                    | mg/L | DO           |  |  |
| Temperature                         | оС   | -            |  |  |
| рН                                  | -    | -            |  |  |
| Turbidity                           | NTU  | -            |  |  |
| Salinity                            | 0/00 | -            |  |  |
| Total Residual Chlorine NOTE1       | mg/L | TRC          |  |  |
| Laboratory measurements             |      |              |  |  |
| Suspended Solids                    | mg/L | SS           |  |  |
| Iron-Soluble                        | mg/L | Fe           |  |  |
| Anti-scalant as Reactive Phosphorus | mg/L | PO4 as P-    |  |  |

NOTE 1: Monitoring of Total Residual Chlorine will be conducted when cleaning and sterilization of the new freshwater main is carried out.



3.4. In addition to the water quality parameters, other relevant data were also being measured and recorded in Water Quality Monitoring Logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal stage, current direction and velocity, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

#### MONITORING EQUIPMENT

3.5. For water quality monitoring, the following equipment will be used:

**Dissolved Oxygen and Temperature Measuring Equipment** - The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and was operable from a DC power source. It was capable of measuring: dissolved oxygen levels in the range of 0 - 20 mg/L and 0 - 200% saturation; and a temperature of 0 - 45 degrees Celsius. It has a membrane electrode with automatic temperature compensation complete with a cable of not less than 35 m in length. Sufficient stocks of spare electrodes and cables were available for replacement where necessary (e.g. YSI model 59 DO meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

**Turbidity Measurement Equipment** - The instrument was a portable, weatherproof turbidity-measuring unit complete with cable, sensor and comprehensive operation manuals. The equipment was operated from a DC power source, it has a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and complete with a cable with at least 35 m in length (for example Hach 2100P or an approved similar instrument).

**Salinity Measurement Instrument** - A portable salinometer capable of measuring salinity in the range of 0 - 40 ppt was provided for measuring salinity of the water at each monitoring location.

**Water Depth Gauge** – A portable, battery-operated echo sounder (for example Seafarer 700 or a similar approved instrument) was used for the determination of water depth at each designated monitoring station. This unit will preferably be affixed to the bottom of the work boat if the same vessel is to be used throughout the monitoring programme. The echo sounder was suitably calibrated.

**Positioning Device** – A Global Positioning System (GPS) was used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, was suitably calibrated at appropriate checkpoint (e.g. Quarry Bay Survey Nail) to verify that the monitoring station is at the correct position before the water quality monitoring commence.



**Water Sampling Equipment** - A water sampler, consisting of a PVC or glass cylinder of not less than two litres, which can be effectively sealed with cups at both ends, was used (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). The water sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

**Total Residual Chlorine for Discharge of Sterilization Water** - Total residual chlorine (TRC) shall be measured in-situ using a handheld colorimeter with its testing toolkits.

#### **SAMPLING / TESTING PROTOCOLS**

- 3.6. All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.
- 3.7. On-site calibration of field equipment was follow the "Guide to On-Site Test Methods for the Analysis of Waters", BS 1427: 2009. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

#### LABORATORY MEASUREMENT AND ANALYSIS

- 3.8. All laboratory works were carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample was collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples were transferred to a HOKLAS accredited laboratory for immediate processing. The determination work was start within the next working day after collection of the water samples. The laboratory measurements were provided to the client within 5 working days of the sampling event. Analytical methodology and sample preservation of other parameters were based on the latest edition of Standard Methods for the Examination of Waste and Wastewater published by APHA, AWWA and WPCF and methods by USEPA, or suitable method in accordance with requirements of HOKLAS or another internationally accredited scheme. The submitted information was including pre-treatment procedures, instrument use, Quality Assurance/Quality Control (QA/QC) details (such as blank, spike recovery, number of duplicate samples per-batch etc), detection limits and accuracy. The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme.
- 3.9. Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 3.2**.



Table 3.2 Laboratory measurements, standard methods and corresponding detection limits of marine water quality monitoring

| mints of marine water quanty monitoring |                            |                    |                    |           |  |  |
|---|----------------------------|--------------------|--------------------|-----------|--|--|
| Parameters                              | Standard Methods           | Detection<br>Limit | Reporting<br>Limit | Precision |  |  |
| Dissolved oxygen (mg/L)                 | Instrumental, CTD          | 0.1                | -                  | ±25%      |  |  |
| Temperature (oC)                        | Instrumental, CTD          | 0.1                | -                  | ±25%      |  |  |
| рН                                      | Instrumental, CTD          | 0.1                | -                  | ±25%      |  |  |
| Turbidity (NTU)                         | Instrumental, CTD          | 0.1                | -                  | ±25%      |  |  |
| Salinity (0/00)                         | Instrumental, CTD          | 0.1                | -                  | ±25%      |  |  |
| Suspended Solids (mg/L)                 | APHA 17th Ed 2540D         | 1.0                | 2.0                | ±17%      |  |  |
| Total Residual Chlorine (mg/L)          | APHA 21st Ed 4500 –<br>ClG | 0.1                | 0.2                | ±10%      |  |  |
| Iron-soluble                            | USEPA 6010C                | 0.2                | 0.2                | ±25%      |  |  |
| Anti-scalant as Reactive phosphorus     | APHA 4500P: B&F            | 0.01               | 0.01               | ±25%      |  |  |

3.10. If exceedances were found during water monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix G**.

#### **MONITORING LOCATION**

3.11. The Impact water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 3.3** below. A schedule for water quality monitoring was prepared by the ET and approved by IEC and EPD prior to the commencement of the monitoring.

Table 3.3 Location of Impact Water Quality Monitoring Stations

| Station | Easting | Northing | Description                                     |
|---------|---------|----------|---|
| CE      | 843550  | 815243   | Upstream control station at ebb tide            |
| CF      | 846843  | 810193   | Upstream control station at flood tide          |
| WSR1    | 846864  | 812014   | Ecological sensitive receiver at Tung Lung Chau |
| WSR2    | 847645  | 812993   | Fisheries sensitive receiver at Tung Lung Chau  |
| WSR3    | 848023  | 813262   | Ecological sensitive receiver at Tung Lung Chau |
| WSR4    | 847886  | 814154   | Ecological sensitive receiver at Tai Miu Wan    |
| WSR16   | 845039  | 815287   | Ecological sensitive receiver at Fat Tong Chau  |
| WSR33   | 847159  | 814488   | Ecological sensitive receiver at Tai Miu Wan    |
| WSR36   | 846878  | 814081   | Ecological sensitive receiver at Kwun Tsai      |



| WSR37 | 846655 | 813810 | Ecological sensitive receiver at Tit Cham Chau        |
|-------|--------|--------|---|
| NF1   | 846542 | 813614 | Edge of mixing zone, ~ 200m west of outfall diffuser  |
| NF2   | 846942 | 813614 | Edge of mixing zone, ~ 200m east of outfall diffuser  |
| NF3   | 846742 | 813414 | Edge of mixing zone, ~ 200m south of outfall diffuser |

3.12. WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung Chau Fish Culture Zone; WSR16 and WSR36 are sited near the coral assemblages along the coastlines of Fat Tong Chau and Kwun Tsai respectively; WSR 4 and WSR33 are sited near the Coastal Protection Area and coral assemblages in waters of Tai Miu Wan; WSR37 is sited near the fisheries resource including spawning and nursery grounds at the coastal water of Tit Cham Chau.



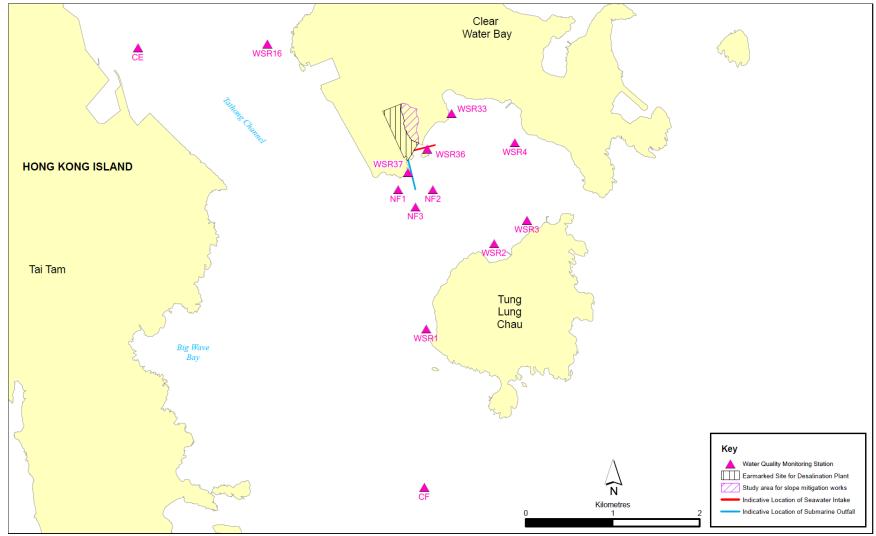


Figure 3.1 Impact water quality monitoring locations under EM&A Manual



#### **SAMPLING FREQUENCY**

- 3.13. During periods when there are dredging works, impact monitoring was undertaken at the monitoring stations as shown in **Figure 3.1** and **Table 3.3** three days per week during the construction phase after the commencement of marine construction works and dredging activities. Monitoring at each station was undertaken at both mid-ebb and mid-flood tides on the same day. The tidal range selected for the impact monitoring was at least 0.5 m for both flood and ebb tides as far as practicable. The interval between two sets of monitoring was not less than 36 hours. The monitoring frequency would be increased in the case of exceedances of Action/Limit Levels if considered necessary by ET. Monitoring frequency would be maintained as far as practicable.
- 3.14. The monitoring location/position, time, water depth, water temperature, salinity, weather conditions, sea conditions, tidal stage, special phenomena and work underway at the marine works site were recorded.

#### SAMPLING DEPTHS & REPLICATION

3.15. For Impact monitoring, each station was sampled and measurements/ water samples was taken at three depths, 1 m below the sea surface, mid-depth and 1 m above the seabed. For stations that are less than 3 m in depth, only the mid depth sample was taken. For stations that are less than 6 m in depth, only the surface and seabed sample were taken. For in situ measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station. All water quality monitoring results were summarized in **Appendix L**.

#### **ACTION AND LIMIT LEVELS**

3.16. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in **Table 3.4**.

#### MONITORING PROGRAMME

- 3.17. The ET of the Contract had conducted the baseline water monitoring between 12 May 2020 to 6 Jun 2020 at the thirteen designated monitoring stations and the six designated monitoring at waters near TKO in accordance with the EM&A Manual and Contract Specification respectively. The baseline monitoring results was presented in Baseline Water Quality Monitoring Report separately.
- 3.18. The commencement of marine construction and dredging activities for the Contract have been conducted in March and April 2021 respectively.



#### Table 3.4 Derived Action and Limit Levels for Water Quality

| Parameters               | Action  | Limit                                  |  |  |
|--------------------------|---|--|--|--|
| <b>Construction Phas</b> | e Impact Monitoring                               |  |  |  |
| DO in mg/L               | Surface and Middle                                | Surface and Middle                     |  |  |
|                          | 7.30 mg L <sup>-1</sup>                           | 4 mg L <sup>-1</sup>                   |  |  |
|                          | <u>Bottom</u>                                     | <u>Bottom</u>                          |  |  |
|                          | 7.31 mg L <sup>-1</sup>                           | 2 mg L <sup>-1</sup>                   |  |  |
|                          | Tung Lung Chau Fish Culture Zone                  | Tung Lung Chau Fish Culture Zone       |  |  |
|                          | 5.1 mgL <sup>-1</sup> or level at control station | 5.0 mgL-1 or level at control station  |  |  |
|                          | (whichever the lower)                             | (whichever the lower)                  |  |  |
| SS in mg/L               | 5.00 mg L-1 or 20% exceedance of                  | 6.00 mg L-1 or 30% exceedance of value |  |  |
| (Depth-averaged)         | value at any impact station                       | at any impact station compared with    |  |  |
|                          | compared with corresponding data                  | corresponding data from control        |  |  |
|                          | from control station                              | station                                |  |  |
| Turbidity in NTU         | 2.41 NTU or 20% exceedance of                     | f 2.84 NTU or 30% exceedance of value  |  |  |
| (Depth-averaged)         | value at any impact station                       | at any impact station compared with    |  |  |
|                          | compared with corresponding data                  | corresponding data from control        |  |  |
|                          | from control station                              | station                                |  |  |
| First-year Operati       | on Phase Monitoring <sup>iv</sup>                 |  |  |  |
| DO in mg/L               | Surface and Middle                                | Surface and Middle                     |  |  |
|                          | 7.30 mg L <sup>-1</sup>                           | 4 mg L <sup>-1</sup>                   |  |  |
|                          | <u>Bottom</u>                                     | <u>Bottom</u>                          |  |  |
|                          | 7.31 mg L <sup>-1</sup>                           | 2 mg L-1                               |  |  |
|                          | Tung Lung Chau Fish Culture Zone                  | Tung Lung Chau Fish Culture Zone       |  |  |
|                          | 5.1 mgL <sup>-1</sup> or level at control station | 5.0 mgL-1 or level at control station  |  |  |
|                          | (whichever the lower)                             | (whichever the lower)                  |  |  |
| SS in mg/L               | 5.00 mg L <sup>-1</sup> or 20% exceedance of      | 6.00 mg L-1 or 30% exceedance of value |  |  |
| (Depth-averaged)         | valueat any impact station                        | at any impact station compared with    |  |  |
|                          | compared with corresponding data                  | corresponding data from control        |  |  |
|                          | from control station                              | station                                |  |  |
|                          |   |  |  |  |

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| Turbidity in NTU | 2.41 NTU or 20% exceedance of    | 2.84 NTU or 30% exceedance of value  |
|------------------|----------------------------------|--------------------------------------|
| (Depth-averaged) | value at any impact station      | at any impact station compared with  |
|                  | compared with corresponding data | corresponding data from control      |
|                  | from control station             | station                              |
| Salinity in PSU  | 34.28 PSU or 9% exceedance of    | 34.60 PSU or 10% exceedance of value |
| (Depth-averaged) | value at any impact station      | at any impact station compared with  |
|                  | compared with corresponding data | corresponding data from control      |
|                  | from control station             | station                              |
| Iron in mg/L     | 0.3 mgL <sup>-1</sup>            | 0.3 mgL <sup>-1</sup>                |
| (Depth-averaged) |                                  |                                      |

#### Notes:

- i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- iii. For Turbidity, SS, iron and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the
- iv. For the Action and Limit Levels adopted during First-year Operation Phase Monitoring, further review would be made according to the EM&A Manual during Operation Phase.

#### MONITORING RESULTS AND OBSERVATIONS

- 3.19. General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 April 2022.
- 3.20. Thirty-five (35) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Twenty-three (23) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix 0**.
- 3.21. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 7, 9, 16, 23, 26, 28 and 30 April 2022 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix 0**.
- 3.22. Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature in this reporting, are summarized in **Table 3.5** and **Table 3.6**, and detailed results are presented in **Appendix L**.

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3.23. Algal Bloom and red tide were observed on 11 April 2022 at CEDD pier & adjacent coastline by the Contractor. According to Agriculture, Fisheries and Conservation Department (AFCD) previous red tide occurrences record, fourteen red tides have been sighted in Hong Kong in the period 08/04/2022 – 14/04/2022, including Shek O Beach, Big Wave Bay Beach. The red tides were formed by *Noctiluca scintillans* and *Scrippsiella trochoidea* are non-toxic and are commonly found in Hong Kong waters. ET will closely monitor the water quality and the implementation of water mitigation measure, to ensure no adverse impact to water quality and ecology.

AFCD Previous Red Tide Occurrences Record:

https://www.afcd.gov.hk/english/fisheries/hkredtide/update/redtide\_prev\_record.html



Table 3.5 Summary of Impact Water Quality Monitoring Results (Mid-Flood)

|       |      |          |                     |                         | Parameter | rs        |               |           |
|-------|------|----------|---------------------|-------------------------|-----------|-----------|---------------|-----------|
| Locat | ions | Salinity | Dissolved Ox        | Dissolved Oxygen (mg/L) |           | Turbidity | Suspended     |           |
|       |      | (ppt)    | Surface &<br>Middle | Bottom                  | рН        | (NTU)     | Solids (mg/L) | Temp.(°C) |
|       | Avg. | 31.7     | 9.0                 | 9.1                     | 8.1       | 3.2       | 3.6           | 23.1      |
| CE    | Min. | 28.9     | 7.2                 | 8.6                     | 7.9       | 2.4       | 2.5           | 19.8      |
|       | Max. | 34.1     | 9.7                 | 9.6                     | 8.4       | 3.9       | 8.0           | 28.0      |
|       | Avg. | 31.8     | 9.0                 | 9.1                     | 8.2       | 4.1       | 3.8           | 23.4      |
| CF    | Min. | 28.6     | 7.7                 | 8.6                     | 8.0       | 3.1       | 2.5           | 20.1      |
|       | Max. | 34.1     | 9.6                 | 9.6                     | 8.4       | 4.9       | 9.0           | 27.7      |
|       | Avg. | 31.7     | 9.1                 | 9.2                     | 8.2       | 2.6       | 4.3           | 23.3      |
| WSR1  | Min. | 29.0     | 7.4                 | 8.3                     | 8.0       | 1.6       | 2.5           | 20.3      |
|       | Max. | 33.7     | 10.1                | 10.1                    | 8.3       | 3.6       | 10.0          | 27.9      |
|       | Avg. | 31.7     | 9.1                 | 9.1                     | 8.2       | 2.2       | 3.6           | 23.2      |
| WSR2  | Min. | 28.9     | 7.4                 | 7.7                     | 7.8       | 1.8       | 2.5           | 20.3      |
|       | Max. | 33.8     | 10.0                | 10.0                    | 8.4       | 2.5       | 6.0           | 28.3      |
|       | Avg. | 31.9     | 9.1                 | 9.1                     | 8.1       | 2.6       | 3.9           | 23.3      |
| WSR3  | Min. | 29.0     | 7.8                 | 7.6                     | 7.9       | 1.7       | 2.5           | 20.3      |
|       | Max. | 33.7     | 9.9                 | 9.9                     | 8.4       | 3.6       | 10.0          | 27.8      |
|       | Avg. | 31.7     | 9.0                 | 9.0                     | 8.2       | 2.6       | 3.6           | 23.2      |
| WSR4  | Min. | 29.4     | 7.2                 | 7.3                     | 7.9       | 1.5       | 2.5           | 19.8      |
|       | Max. | 33.9     | 10.0                | 9.9                     | 8.3       | 3.8       | 7.0           | 28.2      |
|       | Avg. | 31.8     | 9.1                 | 9.1                     | 8.2       | 2.6       | 3.9           | 23.4      |
| WSR16 | Min. | 29.3     | 7.1                 | 7.6                     | 8.0       | 1.4       | 2.5           | 20.0      |
|       | Max. | 33.9     | 9.9                 | 9.8                     | 8.4       | 3.9       | 16.0          | 28.1      |
|       | Avg. | 31.8     | 9.0                 | 9.0                     | 8.1       | 2.5       | 4.8           | 23.3      |
| WSR33 | Min. | 28.8     | 7.1                 | 7.1                     | 7.9       | 1.3       | 2.5           | 20.2      |
|       | Max. | 33.8     | 9.8                 | 9.8                     | 8.3       | 3.4       | 24.0          | 28.1      |
|       | Avg. | 31.9     | 9.0                 | 8.9                     | 8.1       | 2.5       | 4.8           | 23.3      |
| WSR36 | Min. | 29.3     | 8.0                 | 7.2                     | 7.9       | 1.7       | 2.5           | 20.2      |
|       | Max. | 34.1     | 9.9                 | 10.0                    | 8.3       | 3.4       | 19.0          | 28.4      |
|       | Avg. | 31.8     | 9.1                 | 9.1                     | 8.2       | 2.5       | 4.1           | 23.3      |
| WSR37 | Min. | 29.1     | 8.4                 | 8.4                     | 8.0       | 1.8       | 2.5           | 20.1      |
|       | Max. | 33.9     | 10.1                | 10.2                    | 8.4       | 3.5       | 18.0          | 27.7      |

#### Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

ii. Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing.



Table 3.6 Summary of Impact Water Quality Monitoring Results (Mid-Ebb)

|        |      |          |                     |              | Paramete | rs        |               |           |
|--------|------|----------|---------------------|--------------|----------|-----------|---------------|-----------|
| Locati | ions | Salinity | Dissolved Ox        | xygen (mg/L) |          | Turbidity | Suspended     |           |
|        |      | (ppt)    | Surface &<br>Middle | Bottom       | рН       | (NTU)     | Solids (mg/L) | Temp.(°C) |
|        | Avg. | 32.0     | 9.2                 | 9.2          | 8.1      | 3.9       | 3.5           | 23.2      |
| CE     | Min. | 29.0     | 8.5                 | 8.4          | 8.0      | 3.3       | 2.5           | 20.3      |
|        | Max. | 33.5     | 10.0                | 9.9          | 8.4      | 4.7       | 7.0           | 27.8      |
|        | Avg. | 32.2     | 9.3                 | 9.3          | 8.2      | 3.3       | 4.1           | 23.3      |
| CF     | Min. | 29.3     | 8.3                 | 8.4          | 8.0      | 2.7       | 2.5           | 20.2      |
|        | Max. | 33.8     | 10.2                | 10.2         | 8.3      | 4.6       | 11.0          | 28.0      |
|        | Avg. | 32.0     | 9.3                 | 9.3          | 8.2      | 2.5       | 4.2           | 23.3      |
| WSR1   | Min. | 28.8     | 8.4                 | 8.4          | 7.9      | 1.8       | 2.5           | 20.2      |
|        | Max. | 33.9     | 10.1                | 9.9          | 8.4      | 3.7       | 12.0          | 28.0      |
|        | Avg. | 32.2     | 9.1                 | 9.1          | 8.2      | 2.3       | 4.5           | 23.2      |
| WSR2   | Min. | 29.7     | 8.3                 | 8.4          | 7.9      | 1.6       | 2.5           | 19.8      |
|        | Max. | 33.9     | 10.1                | 10.0         | 8.4      | 3.4       | 18.0          | 27.5      |
|        | Avg. | 32.0     | 9.3                 | 9.3          | 8.2      | 2.5       | 4.7           | 23.3      |
| WSR3   | Min. | 29.3     | 8.3                 | 8.4          | 7.9      | 1.6       | 2.5           | 20.2      |
|        | Max. | 33.8     | 9.8                 | 9.8          | 8.5      | 3.5       | 23.0          | 27.9      |
|        | Avg. | 32.1     | 9.0                 | 9.0          | 8.2      | 2.7       | 4.2           | 23.3      |
| WSR4   | Min. | 29.2     | 8.2                 | 8.3          | 7.9      | 2.0       | 2.5           | 20.0      |
|        | Max. | 33.6     | 9.7                 | 9.6          | 8.5      | 3.8       | 9.0           | 28.2      |
|        | Avg. | 31.9     | 9.4                 | 9.4          | 8.2      | 2.6       | 4.1           | 23.3      |
| WSR16  | Min. | 29.0     | 8.5                 | 8.5          | 8.0      | 1.8       | 2.5           | 19.9      |
|        | Max. | 33.5     | 10.0                | 10.1         | 8.5      | 3.4       | 8.0           | 27.5      |
|        | Avg. | 32.0     | 9.2                 | 9.2          | 8.2      | 2.7       | 4.1           | 23.2      |
| WSR33  | Min. | 29.8     | 8.2                 | 8.3          | 7.9      | 1.8       | 2.5           | 20.0      |
|        | Max. | 34.2     | 9.9                 | 9.8          | 8.5      | 3.8       | 10.0          | 27.5      |
|        | Avg. | 32.1     | 9.2                 | 9.2          | 8.2      | 2.6       | 3.8           | 23.3      |
| WSR36  | Min. | 29.1     | 8.1                 | 8.2          | 7.9      | 1.3       | 2.5           | 20.0      |
|        | Max. | 34.0     | 9.7                 | 9.6          | 8.5      | 3.8       | 8.0           | 27.8      |
|        | Avg. | 32.1     | 9.0                 | 9.0          | 8.2      | 2.5       | 4.1           | 23.2      |
| WSR37  | Min. | 29.5     | 8.2                 | 8.2          | 8.0      | 1.3       | 2.5           | 20.0      |
|        | Max. | 34.2     | 9.9                 | 9.8          | 8.4      | 3.4       | 13.0          | 27.5      |

#### Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

ii. Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing.



#### 4. WASTE

4.1. The waste generated from this Contract includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the Contract are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Contract, the quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.

Table 4.1 Quantities of Waste Generated from the Contract during April 2022

|                    | Actu                           | Actual Quantities of Inert C&D Materials Generated Monthly |                              |                                |                               |                  |             | Actual Quantities of C&D Wastes Generated Monthly |                        |                   |                                   |
|--------------------|--------------------------------|--|------------------------------|--------------------------------|-------------------------------|------------------|-------------|---|------------------------|-------------------|-----------------------------------|
| Reporting<br>Month | Total<br>Quantity<br>Generated | Hard Rock<br>and Large<br>Broken<br>Concrete               | Reused in<br>the<br>Contract | Reused in<br>other<br>Projects | Disposed<br>as Public<br>Fill | Imported<br>Fill | Metals      | Paper /<br>cardboard<br>packaging                 | Plastics<br>(see Note) | Chemical<br>Waste | Others, e.g.<br>general<br>refuse |
|                    | (in ,000kg)                    | (in ,000kg)  | (in ,000kg)                  | (in ,000kg)                    | (in ,000kg)                   | (in ,000kg)      | (in ,000kg) | (in ,000kg)                                       | (in ,000kg)            | (in ,000kg)       | (in ,000kg)                       |
| April 2022*        | 29.050                         | 0.000  | 0.000                        | 0.000                          | 29.050                        | 0.000            | 0.001       | 0.165   | 0.004                  | 0.000             | 113.780                           |

Notes: (1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



#### 5. LANDFILL GAS MONITORING

#### MONITORING REQUIREMENT

5.1. In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter fresh water mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

#### MONITORING LOCATION

- 5.2. Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed for excavations at 1m depth or more within the consultation Zone.
- 5.3. During construction of works within the consultation zones, excavations of 1m depth or more was monitored:
  - 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 through the working day whilst workers are in the excavation.
- 5.4. For excavations between 300mm and 1m deep, measurements were carried out:
  - Directly after the excavation has been completed; and
  - Periodically whilst the excavation remains open.

#### **MONITORING PROGRAMME**

5.5. Since part of the desalination plant (Wan Po Road and MIC compound/Basketball Court) and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone in this contract (Figure 5.1), landfill gas monitoring would be required for Wan Po Road and MIC compound/Basketball Court (Figure 5.2) if excavations were conducted at more than 300mm deep. Although SENT Landfill Extension has commenced operation since November 2021, no excavation works were conducted at MIC compound/Basketball Court. Hence no landfill gas monitoring would be scheduled for MIC compound/Basketball Court at the current stage.

#### **MONITORING LOCATION**

5.6. The area required to be monitored for landfill gas in the reporting period is shown in **Figure** 5.2.



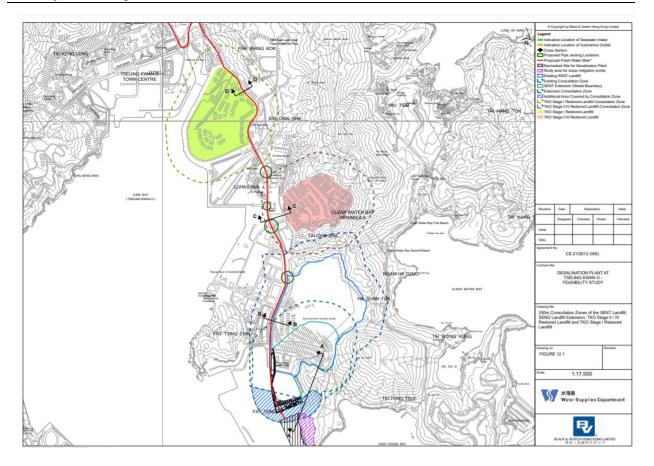


Figure 5.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area

#### **MONITORING PARAMETERS**

- 5.7. LFG monitoring was carried out to identify any migration between the landfill and the Contract and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Contract area.
- 5.8. The following parameters were monitored:
  - Methane
  - Oxygen
  - Carbon Dioxide
  - Barometric Pressure
- 5.9. Action and Limit Level are provided in **Table 5.1**.



Table 5.1 Action and Limit Level for Landfill Gas Monitoring Equipment

| Parameters           | Action Level | Limit Level |
|----------------------|--------------|-------------|
| Oxygen (O2)          | <19% 02      | <19% 02     |
| Methane (CH4)        | >10% LEL     | >20% LEL    |
| Carbon Dioxide (CO2) | >0.5% CO2    | >1.5% CO2   |

#### **MONITORING EQUIPMENT**

- 5.10. Landfill Gas monitoring was carried out using intrinsically-safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:
  - Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
  - Capable of continuous barometric pressure and gas pressure measurements;
  - Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
  - Having low battery, fault and over range indication incorporated;
  - Capable of storing monitoring data, and shall be capable of being downloaded directly;
  - Measure in the following ranges:

| methane             | 0-100% LOWER EXPLOSION LIMIT (LEL) AND 0-100% V/V; |
|---------------------|--|
| oxygen              | 0-25% v/v;   |
| carbon dioxide      | 0-5% v/v; and                                      |
| barometric pressure | mBar (absolute)                                    |

• alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

| methane             | >10% LEL;       |
|---------------------|-----------------|
| oxygen              | <19%            |
| carbon dioxide      | >0.5% by volume |
| barometric pressure | mBar (absolute) |



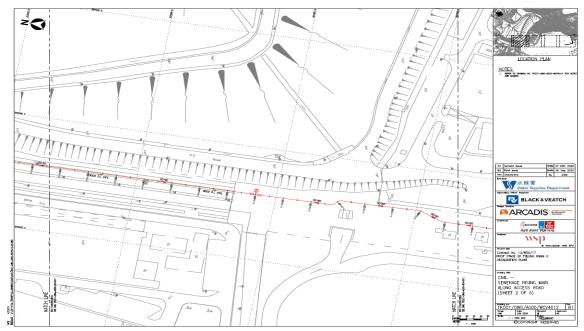


Figure 5.2 Location Map for Landfill Gas Monitoring at Wan Po Road

#### MONITORING RESULTS AND OBSERVATIONS

5.11. In this reporting period, 44 times of landfill gas monitoring was conducted during excavations at 1m depth or more within the consultation zone and whenever workers entered the excavation on the day at Wan Po Road (Ch1+360 – Ch1+513). No exceedance of action and limit levels for methane, oxygen and carbon dioxide was recorded. Detail of landfill gas monitoring results are presented in **Appendix L** 



### 6. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

6.1. The Environmental Complaint Handling Procedure is shown in below **Figure 6.1**:

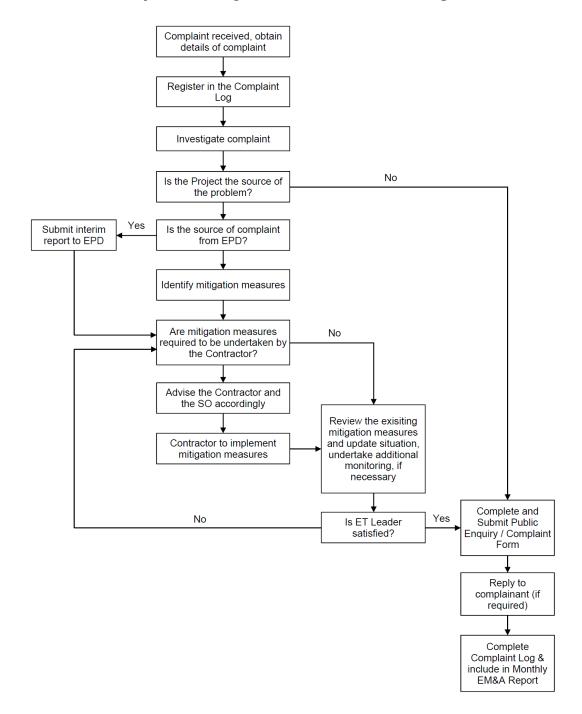


Figure 6.1 Environmental Complaint Handling Procedures



- 6.2. No noise monitoring was conducted during the reporting period since there are no Contract-related construction activities undertaken within a radius of 300m from the monitoring locations.
- 6.3. General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 April 2022.
- 6.4. Thirty-five (35) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Twenty-three (23) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix 0**.
- 6.5. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 7, 9, 16, 23, 26, 28 and 30 April 2022 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix 0**.
- 6.6. In this reporting period, 44times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- 6.7. Moreover, oil stains were observed near the Outfall Shaft on 23 & 29 April 2022 by Supervising Officer's Representative (SOR) and the Contractor. No marine construction activity was carried out. ET will keep closely monitoring the performance of Contractor, implementation of water quality mitigation measure and other contamination issue around the Project site, to ensure the EM&A requirement is properly implemented.
- 6.8. No environmental complaint was received in the reporting period.
- 6.9. No notification of summons and prosecution was received in the reporting period.
- 6.10. Statistics on complaints and regulatory compliance are summarized in **Appendix J**.



#### 7. EM&A SITE INSPECTION

7.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 6, 12, 19 and 29 April 2022 at the site portions listed in **Table 7.1** below.

**Table 7.1** Summaries of Site Inspection Record

| Date          | Inspected Site Portion | Time          |
|---------------|------------------------|---------------|
| 6 April 2022  | TKO 137                | 14:00 - 15:00 |
| 12 April 2022 | TKO 137                | 14:30 - 16:30 |
| 19 April 2022 | TKO 137                | 14:30 - 16:00 |
| 29 April 2022 | TKO 137                | 09:00 - 11:00 |

- 7.2. Joint site inspections with IEC were carried out on 6, 12, 19 and 29 April 2022.
- 7.3. Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.2**.

**Table 7.2 Site Observations** 

| Date          |   |      |  |  |
|---------------|---|------|--|--|
| 6 April 2022  | Nil.  |      |  |  |
| 12 April 2022 | No major observations were recorded on the reporting day. |      |  |  |
| 19 April 2022 | No major observations were recorded on the                |      |  |  |
| 29 April 2022 | No major observations were recorded on the reporting day. | Nil. |  |  |

7.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**. Site inspection proforma of the reporting period is provided in **Appendix I**.



#### 8. FUTURE KEY ISSUES

- 8.1. Works to be undertaken in the next reporting month are:
  - Land Survey;
  - Construction of solar panel supports at roof of ActiDAFF;
  - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
  - Construction of sludge thickener, Post Treatment Building (PTB);
  - Construction of On-Site Chlorine Generation Building (OSCG Bldg);
  - Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
  - Manhole construction and Glass Reinforced Plastic (GRP) pipe installation;
  - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
  - Construction of 1/F to 2/F walls and columns of Administration Building;
  - Construction of reinforced concrete (RC) support of Inspection Corridor;
  - Construction of structural wall and Roof of Chemical Building;
  - Construction of Common Wall of Combined Shaft;
  - Outfall Shaft Idling and water pumping;
  - Intake shaft TBM retrieval and excavation;
  - Construction of structural wall of Combined Shaft and Pump House;
  - Intake tunnel Chemical pipe installation;
  - Outfall Tunnel Demobilize the pipe jacking system and grouting;
  - E&M works ActiDAFF scaffolding, installation of E&M piping;
  - E&M works RO- Fire services installation;
  - E&M works CO<sub>2</sub> tank area installation of Silos; and
  - E&M works Chiller Building installation of chillers;
- 8.2. The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation from pipe jacking works, excavation and construction works:
  - Waste generation from construction activities
  - Impact on water quality from marine construction works and inland construction works
- 8.3. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
  - Dust suppression by regular wetting and water spraying for construction works

#### Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.26



- Reduction of noise from equipment and machinery on-site by regular checking of onsite plant/vehicle to ensure proper functioning
- Sorting and storage of general refuse and construction waste
- Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge



#### 9. CONCLUSIONS AND RECOMMENDATIONS

- 9.1. This is the 26<sup>th</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April to 30 April 2022, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/A.
- 9.2. No noise monitoring was conducted in the reporting period due to the over distant monitoring station from the works location, in which construction activities were not undertaken within a radius of 300m from the monitoring locations.
- 9.3. The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.
- 9.4. Thirty-five (35) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Twenty-three (23) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix 0**.
- 9.5. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 7, 9, 16, 23, 26, 28 and 30 April 2022 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix 0**.
- 9.6. It was concluded that all exceedances recorded in the reporting month were unrelated to the project.
- 9.7. In this reporting period, 44 times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- 9.8. Moreover, oil stains were observed near the Outfall Shaft on 23 & 29 April 2022 by Supervising Officer's Representative (SOR) and the Contractor. No marine construction activity was carried out. ET will keep closely monitoring the performance of Contractor, implementation of water quality mitigation measure and other contamination issue around the Project site, to ensure the EM&A requirement is properly implemented.
- 9.9. Weekly environmental site inspection was conducted during the reporting period. No major deficiency was observed during site inspection. The environmental performance of the project was therefore considered satisfactory.
- 9.10. According to the environmental site inspections performed in the reporting month, the Contractor is reminded to pay attention on maintaining proper materials storage, site hygiene and dust suppression mitigation measures.
- 9.11. No environmental complaint was received in the reporting period.

#### Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.26

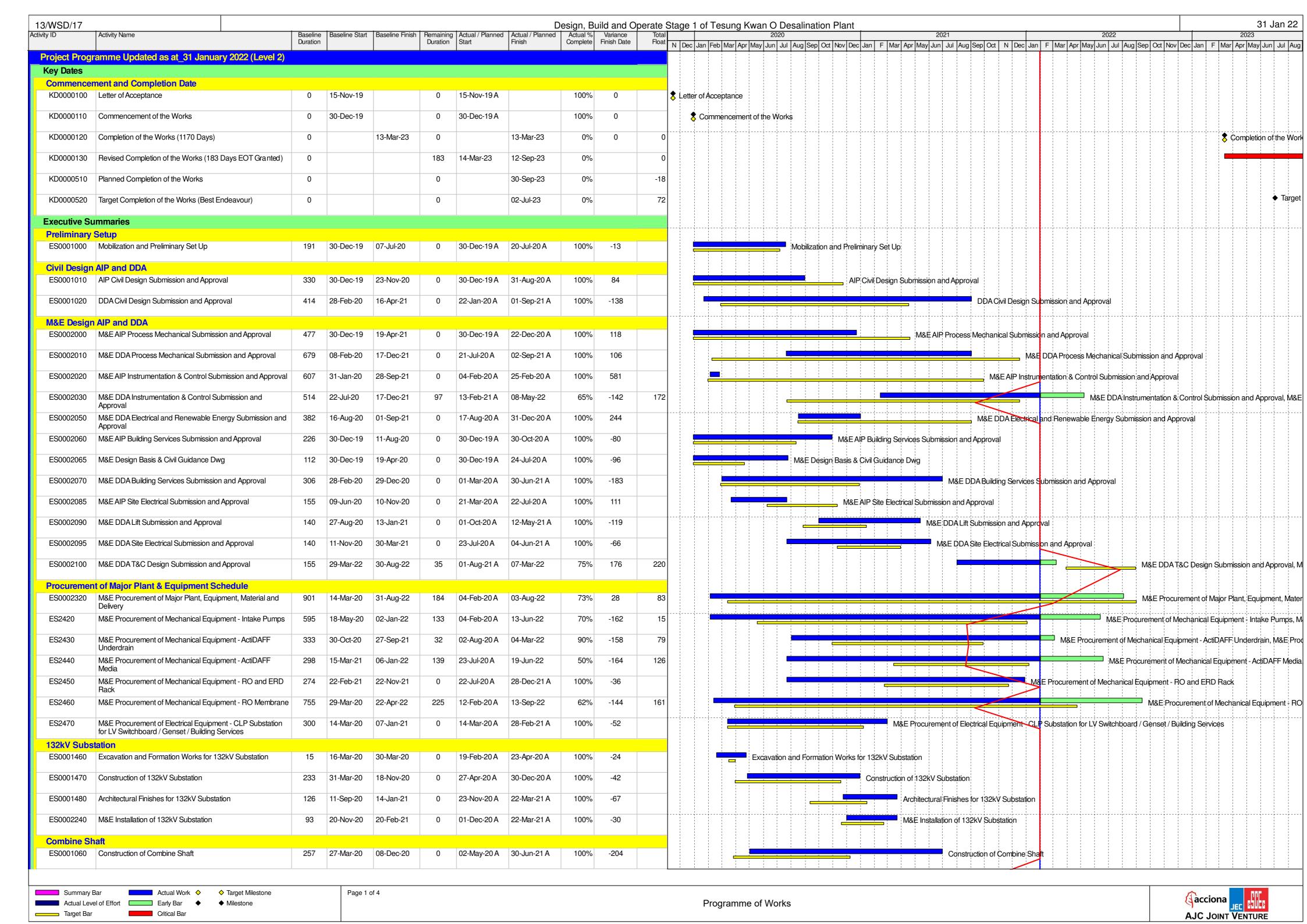


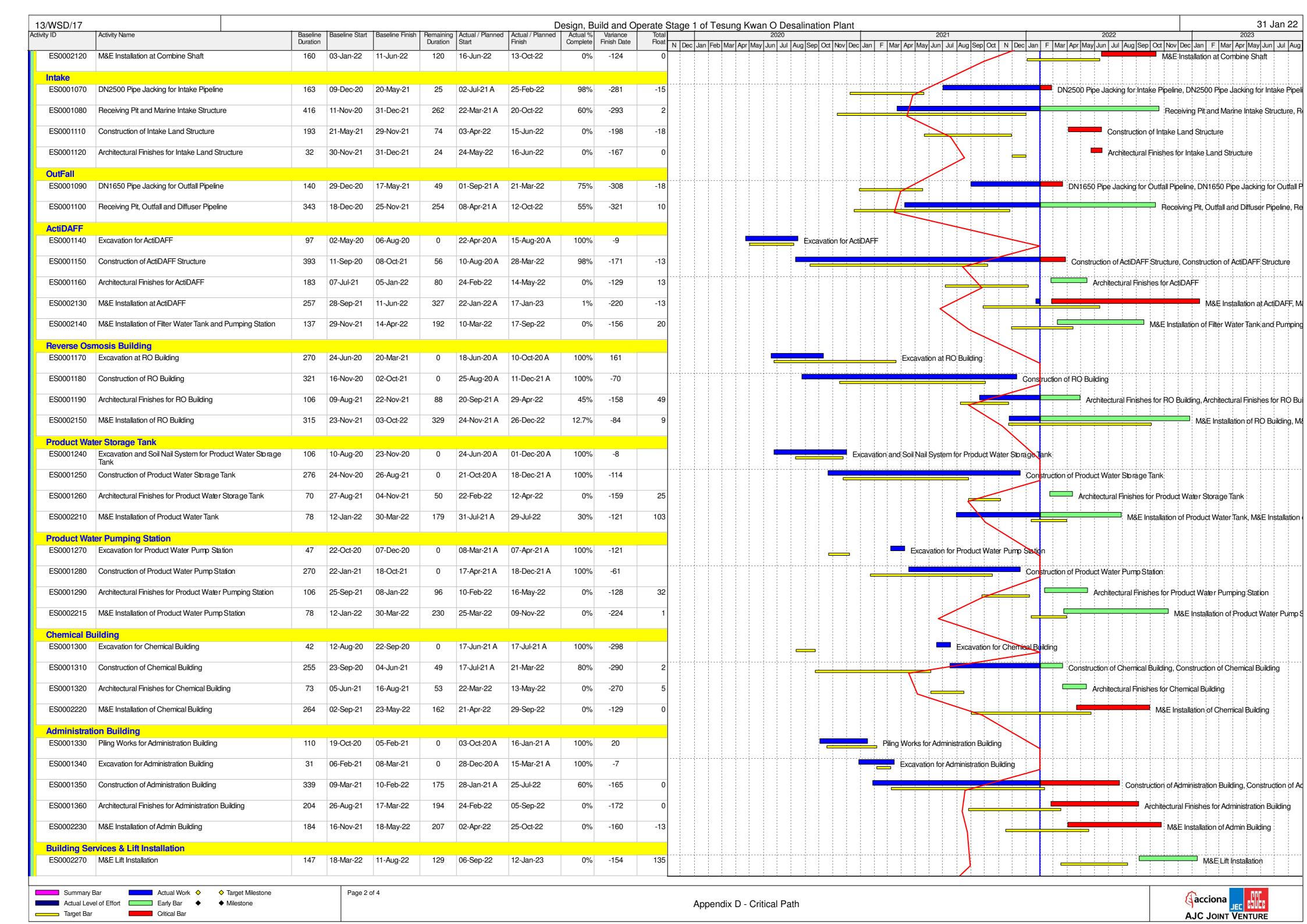
- 9.12. No notification of summons or prosecution was received since commencement of the Contract.
- 9.13. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

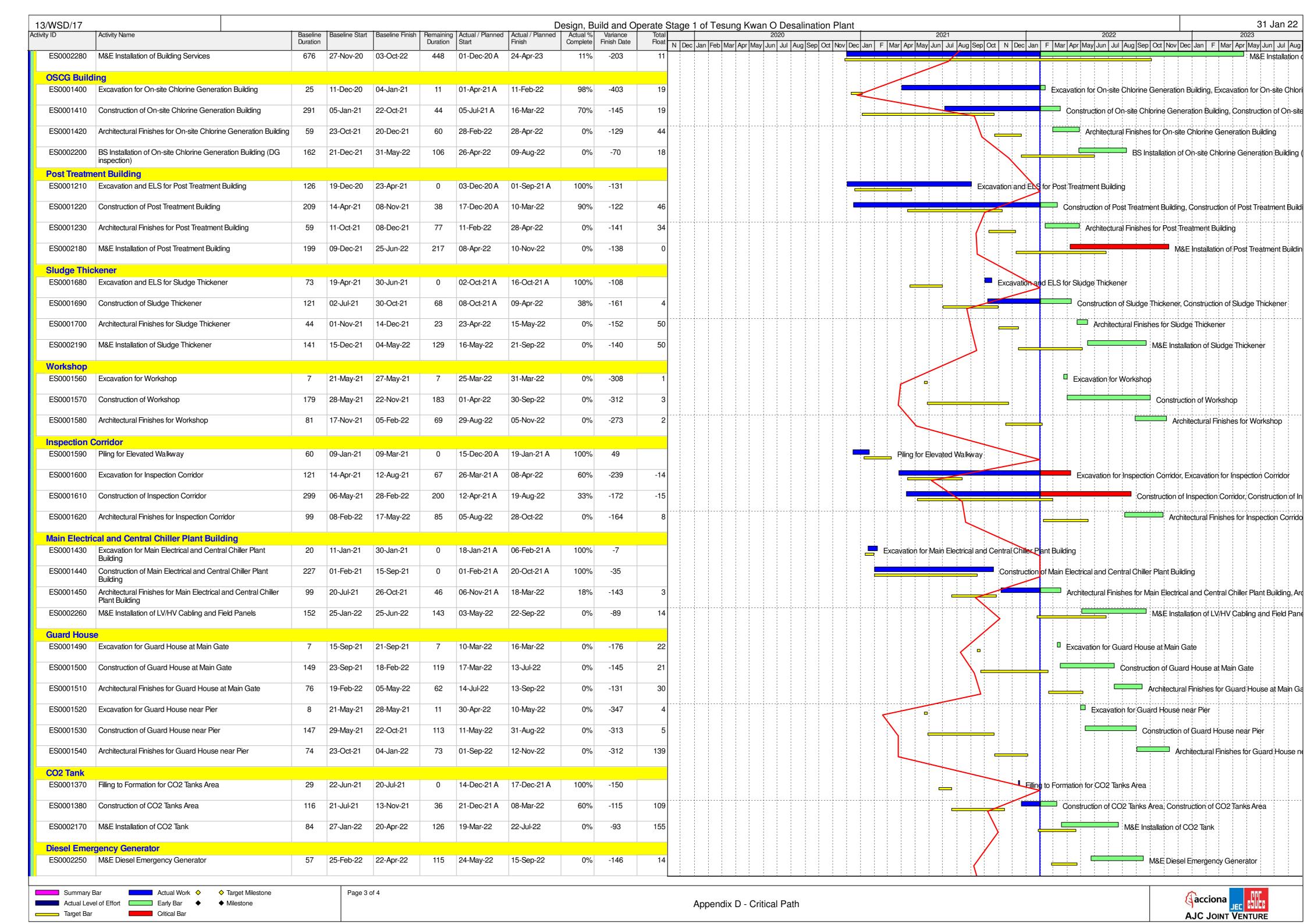


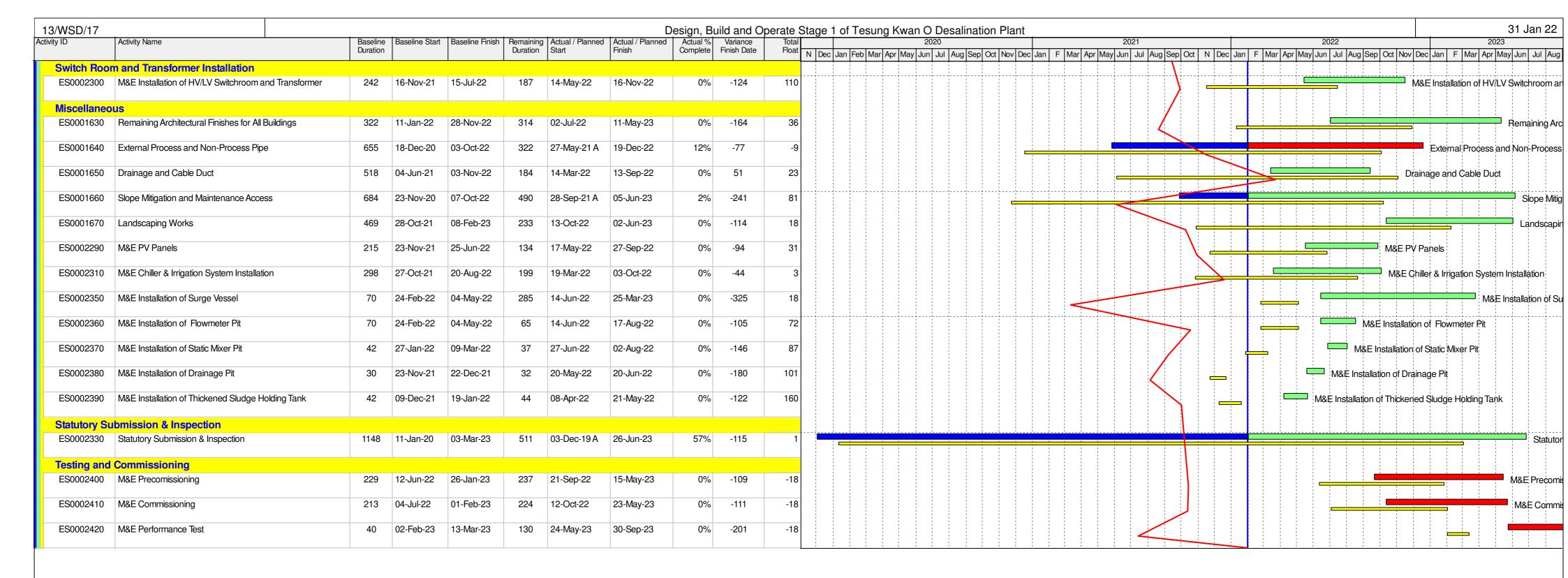
# Appendix A

Master Programme







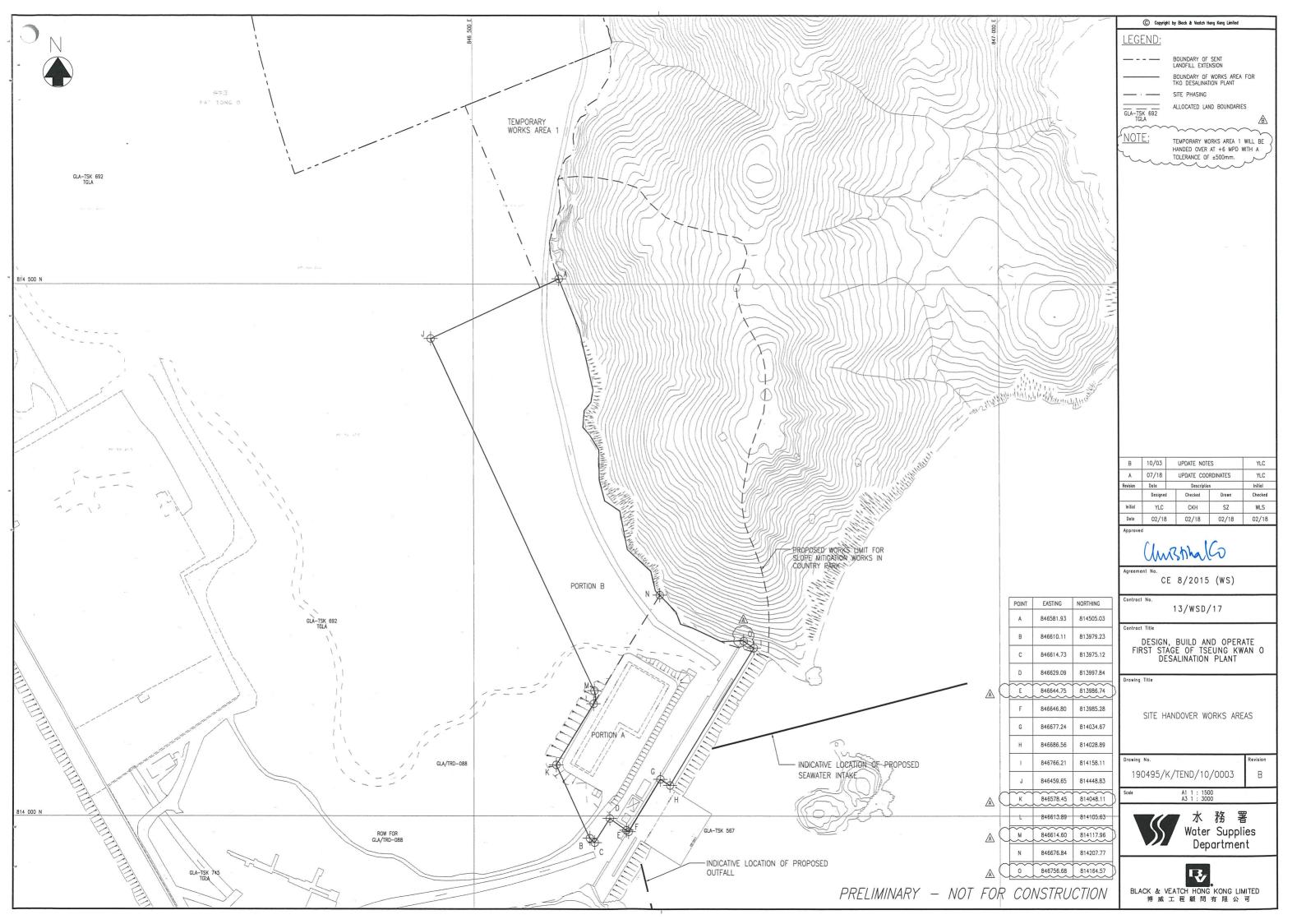






# Appendix B

# Overview of Desalination Plant in Tseung Kwan O



# BUILDINGS IN FIRST STAGE

| DUILDII | BUILDINGS IN FIRST STAGE  |                                |                    |  |  |  |  |  |  |  |  |  |
|---------|---|--------------------------------|--------------------|--|--|--|--|--|--|--|--|--|
| CODE    | NAME OF BUILDING  | TOTAL G.F.A. (m <sup>2</sup> ) | SITE COVERAGE (m²) |  |  |  |  |  |  |  |  |  |
| В       | COMBINE SHAFT   | 759.876                        | 759.876            |  |  |  |  |  |  |  |  |  |
| С       | ACTIDAFF  | 10027,547                      | 5455,346           |  |  |  |  |  |  |  |  |  |
| G       | REVERSE OSMOSIS BUILDING AND ELECTRICAL<br>BUILDING                 | 4511,455                       | 5367,935           |  |  |  |  |  |  |  |  |  |
| н       | CO2 TANKS AREA  | -                              | -                  |  |  |  |  |  |  |  |  |  |
| J       | PRODUCT WATER STORAGE TANK, PUMP STATION<br>AND ELECTRICAL BUILDING | 1974.610                       | 2933.980           |  |  |  |  |  |  |  |  |  |
| к       | SLUDGE TREATMENT BUILDING, TANK AND PUMP<br>ROOM                    | 2531,044                       | 1228,361           |  |  |  |  |  |  |  |  |  |
| М       | ADMINISTRATION BUILDING & ELECTRICAL BUILDING C                     | 2459,713                       | 1114,062           |  |  |  |  |  |  |  |  |  |
| N       | MAIN ELECTRICAL AND CENTRAL CHILLER PLANT<br>BUILDING               | -                              | 459,893            |  |  |  |  |  |  |  |  |  |
| R1      | ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A                | 657.992                        | 825.776            |  |  |  |  |  |  |  |  |  |
| S       | 132 kV SUBSTATION   | -                              | 943.560            |  |  |  |  |  |  |  |  |  |
| Т       | IRRIGATION WATER TANK AND PUMP ROOM                                 | •                              | 156.148            |  |  |  |  |  |  |  |  |  |
| R2      | CHEMICAL BUILDING   | 813.056                        | 813.056            |  |  |  |  |  |  |  |  |  |
| ٧       | VISITOR GALLERY   | 1330.410                       | 1330.410           |  |  |  |  |  |  |  |  |  |
| X1      | GUARD HOUSE AND FS CONTROL ROOM                                     | 39.585                         | 39.585             |  |  |  |  |  |  |  |  |  |
| X2      | GUARD HOUSE   | 22.035                         | 22.035             |  |  |  |  |  |  |  |  |  |
| Υ       | R+D OUTDOOR   |                                | -                  |  |  |  |  |  |  |  |  |  |
| z       | WASTE WATER TREATMENT PLANT   | 48.000                         | 48.000             |  |  |  |  |  |  |  |  |  |
|         | TOTAL =   | 25175,323                      | 21498.023          |  |  |  |  |  |  |  |  |  |

#### LEGEND / ABBREVIATION

H/L WINDOW HIGH LEVEL WINDOW METAL LOUVRES CAT LADDER

ACCESSIBLE UNISEX TOILET

PROPOSED FINISH FLOOR LEVEL IN METER ABOVE P.D. STRUCTURAL FLOOR LEVEL IN METER ABOVE P.D. MECHANNICAL VENTILATION & ARTIFICIAL LIGHTING

4.5kg CO<sup>2</sup> FIRE EXTINGUISHER

HOSE REEL

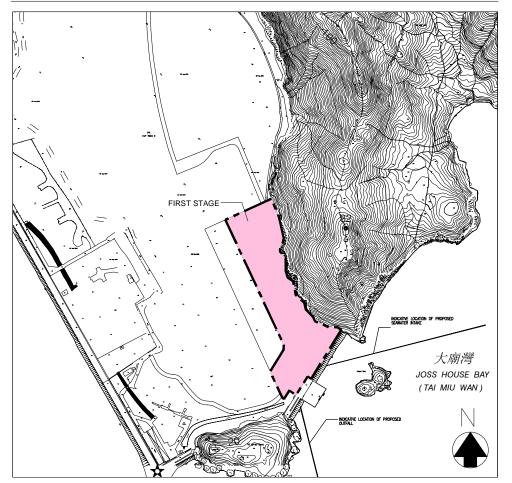
FIREMAN'S LIFT LIFT FOR THE BARRIER FREE ACCESS

PIPE DUCT

#### PLOT RATIO & SITE COVERAGE CALCULATION:

TOTAL G.F.A. TOTAL SITE COVERAGE

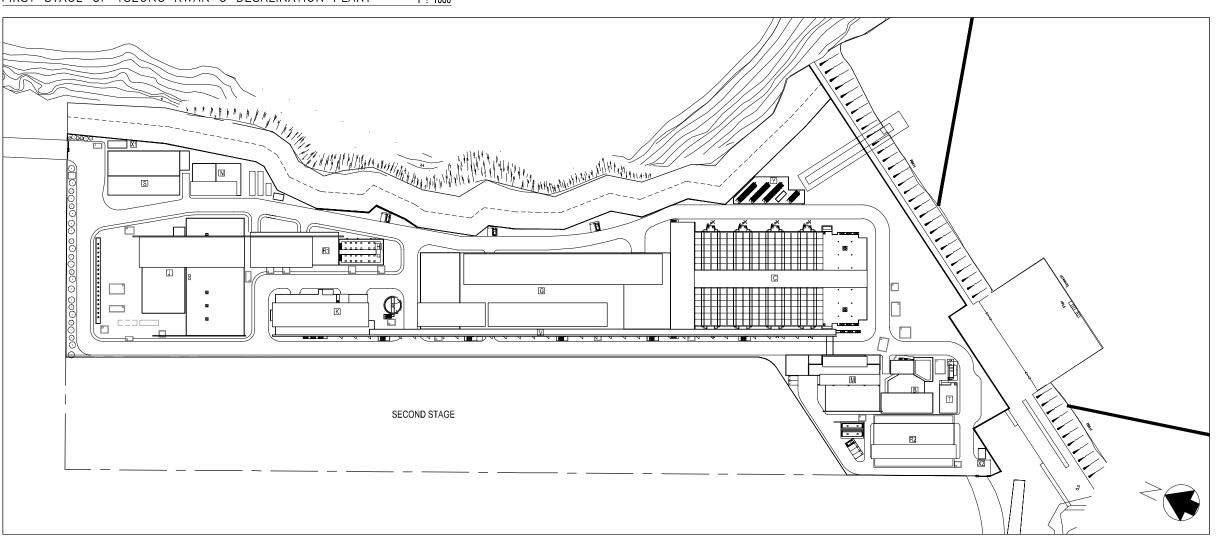
SITE COVERAGE



1 : 5000

SITE LOCATION PLAN

### FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT





TKO/AJC/W/A000/AR/001

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# Appendix C

Summary of Implementation Status of Environmental Mitigation



| EIA         | Recommended Environmental Protection Measures/<br>Mitigation Measures  | Objectives of the recommended measures                        |                      | Imple<br>Stage |          | ation | Implementation | Relevant Legislation & Guidelines            |
|-------------|--|---|----------------------|----------------|----------|-------|----------------|--|
| Reference   |  | & main concerns to address                                    | Implementation Agent | D              | С        | 0     | status         |  |
| Air Quality | y  |   |                      |                |          |       |                |  |
| S4.8.1      | Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.  | Land site/ During Construction                                | Contractor(s)        |                | <b>✓</b> |       | Implemented    | Air Pollution Control<br>(Construction Dust) |
| S4.8.1      | Impervious sheet will be provided for skip hoist for material transport.   | Land site/ During<br>Construction, particularly<br>dry season | Contractor(s)        |                | <b>√</b> |       | NA             |  |
| S4.8.1      | The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.                                       | Land site/ During Construction                                | Contractor(s)        |                | <b>✓</b> |       | Implemented    |  |
| S4.8.1      | All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.   | Land site/ During Construction                                | Contractor(s)        |                | <b>√</b> |       | Implemented    |  |
| S4.8.1      | Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.  | Land site/ During Construction                                | Contractor(s)        |                | <b>√</b> |       | Implemented    |  |
| S4.8.1      | During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.  | Land site/ During Construction                                | Contractor(s)        |                | 1        |       | Implemented    |  |
| S4.8.1      | Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable. | Land site/ During Construction                                | Contractor(s)        |                | <b>√</b> |       | Implemented    |  |
| S4.8.1      | Road sections between vehicle-wash areas and vehicular entrance will be paved.   | Land site/ During Construction                                | Contractor(s)        |                | <b>√</b> |       | Implemented    |  |
| S4.8.1      | Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.  | Land site/ During construction                                | Contractor(s)        | <b>V</b>       | <b>√</b> |       | N/A            |  |
| S4.8.1      | Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.  | Land site/ During construction                                | Contractor(s)        |                | <b>√</b> |       | Implemented    |  |



|           | Recommended Environmental Protection Measures/<br>Mitigation Measures   | Objectives of the recommended measures & main concerns to address | Implementation Agent   | Implementation<br>Stage |          |   | Implementation | Relevant Legislation & Guidelines   |
|-----------|---|---|--|-------------------------|----------|---|----------------|---|
| Reference |   |   | imprementation rigent  | D                       | С        | 0 | status         |   |
| S4.8.1    | Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.   | Land site/ During construction                                    | Contractor(s)  |                         | <b>√</b> |   | Implemented    |   |
| S4.8.1    | Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.   | Land site/ During construction                                    | Contractor(s)  |                         | ✓        |   | N/A            |   |
| S4.8.1    | All exposed areas will be kept wet always to minimise dust emission.  | Land site/ During construction                                    | Contractor(s)  |                         | ✓        |   | Implemented    |   |
| S4.8.1    | Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.  | Land site/ During<br>construction/ During<br>Operation            | Contractor(s)  |                         | <b>✓</b> | • | Implemented    | Environment, Transport<br>and Works Bureau<br>Technical Circular (ETWB-<br>TC(W)) No 19/2005 on<br>Environmental<br>Management on<br>Construction Sites |
| S4.8.1    | The engine of the construction equipment during idling will be switched off.  | Land site/ During construction                                    | Contractor(s)  |                         | ✓        |   | Implemented    |   |
| S4.8.1    | Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. | ·   | Contractor(s)  |                         | <b>√</b> |   | N/A            |   |
| S4.8.1    | Regular maintenance of construction equipment deployed onsite will be conducted to prevent black smoke emission.  | Land site/ During construction                                    | Contractor(s)  |                         | ✓        |   | Implemented    |   |
| S4.10     | To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.  | Land site/ During construction                                    | Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC) |                         | ✓        |   | Implemented    |   |



| EIA       | Recommended Environmental Protection Measures/   | Objectives of the recommended measures & | Implementation Agent | Imple<br>Stage | menta    | tion | Implementation status | Relevant Legislation<br>& Guidelines  |
|-----------|--|--|----------------------|----------------|----------|------|-----------------------|---|
| Reference | Mitigation Measures  | main concerns to address                 |                      | D              | С        | 0    |                       | & Guidennes   |
| Noise     |  | 1  | T                    |                |          |      | T - ,                 | T   |
| S5.7      | Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.  | All area/ During construction            | Contractor(s)        |                | •        |      | Implemented           | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.  | Noise control/ During construction       | Contractor(s)        |                | ✓        |      | N/A                   | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Mobile plant, if any, will be sited as far away from NSRs as possible.   | Noise control/ During construction       | Contractor(s)        |                | <b>✓</b> |      | N/A                   | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum.   | Noise control/ During construction       | Contractor(s)        |                | <b>*</b> |      | Implemented           | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.   | Noise control/ During construction       | Contractor(s)        |                | <b>√</b> |      | N/A                   | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.  | Noise control/ During construction       | Contractor(s)        |                | ✓        |      | N/A                   | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Use of Quite Powered Mechanical Equipment (QPME).  | Noise control/ During construction       | Contractor(s)        |                | ✓        |      | Implemented           | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m <sup>-2</sup> and have no o or gappeningss. | Noise control/ During construction       | Contractor(s)        |                | <b>√</b> |      | N/A                   | A Practical Guide for the<br>Reduction of Noise from<br>Construction Works,   |
| S5.7      | The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.   | Noise control/ During construction       | Contractor(s)        |                | ✓        |      | N/A                   | A Practical Guide for<br>the Reduction of<br>Noise from<br>Construction Works |



| EIA<br>Reference | Recommended Environmental Protection Measures/<br>Mitigation Measures  | Objectives of the recommended measures &   | Implementation Agent   | _        |             |   | Implementation status | Relevant Legislation<br>& Guidelines  |
|------------------|--|--|--|----------|-------------|---|-----------------------|---|
|                  | 3  | main concerns to address   |  | D        | С           | 0 |                       |   |
| S5.7             | Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.  | Noise control/ During construction   | Contractor(s)  | <b>√</b> | <b>&gt;</b> |   | Implemented           | A Practical Guide for<br>the Reduction of<br>Noise from<br>Construction Works |
| S5.7             | PMEs will not be used at the works areas near educational institutions with residual impact (ie the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.  | Noise control / During construction  | Contractor(s)  |          | ✓           |   | N/A                   | A Practical Guide for<br>the Reduction of<br>Noise from<br>Construction Works |
| S5.7             | Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators.  Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m-2 may be used for screening the noise from operation of the saw/groover, concrete.   | Noise control/ Pre-<br>construction/ During<br>construction                        | Contractor(s)  | <b>✓</b> | <b>&gt;</b> |   | N/A                   |   |
| S5.9             | Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.  | Noise control/ Pre-<br>construction/ During<br>construction                        | Contractor(s)  | <b>✓</b> | <b>√</b>    |   | N/A                   |   |
| S5.9             | In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (eg summer holiday, Easter holiday or Christmas holiday, etc) as far as practicable. Scheduling the construction work for the four schools. | Noise control/ Pre-<br>construction/ During<br>construction                        | Contractor(s)  | <b>√</b> | <b>&gt;</b> |   | N/A                   |   |
| S5.10            | A noise monitoring programme shall be implemented for the construction phase.  | Designated monitoring stations as defined in EM&A Manual/During construction phase | Environmental Team<br>(ET)   |          | <b>√</b>    |   | N/A                   |   |
| S5.10            | The effectiveness of on-site control measures could also be evaluated through the regular site audits.   | All facilities/ During construction  | Contractor(s)/<br>Environmental Team<br>(ET) & Independent<br>Environmental<br>Checker (IEC) |          | <b>√</b>    |   | Implemented           | -   |



| EIA Reference | Recommended Environmental Protection<br>Measures/ Mitigation Measures  | Objectives of the recommended measures & main concerns to address | Implementation | Imple:<br>Stage | mentat   | ion | Implementation status | Relevant Legislation &<br>Guidelines |
|---------------|--|---|----------------|-----------------|----------|-----|-----------------------|--------------------------------------|
|               |  |   | Agent          | D               | С        | 0   |                       | Guidennes                            |
| Water Quality |  |   |                |                 |          |     |                       |                                      |
| S6.9          | Dredged marine sediment will be disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO).   | construction  | Contractor(s)  |                 | <b>~</b> |     | Implemented           | Dumping at Sea Ordinance<br>(DASO)   |
| S6.9          | Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport.  | Marine Dredging/ During construction                              | Contractor(s)  |                 | <b>*</b> |     | Implemented           | -                                    |
| S6.9          | Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.  |   | Contractor(s)  |                 | <b>√</b> |     | Implemented           | -                                    |
| S6.9          | After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.  |   | Contractor(s)  |                 | <b>✓</b> |     | Implemented           | -                                    |
| S6.9          | All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.  |   | Contractor(s)  |                 | <b>√</b> |     | Implemented           | -                                    |
| S6.9          | All vessels must have a clean ballast system.  | Marine Dredging/ During construction                              | Contractor(s)  |                 | <b>√</b> |     | Implemented           | -                                    |
| S6.9          | No discharge of sewage/grey wastewater should be allowed. Waste water from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system. | construction  | Contractor(s)  |                 | <b>✓</b> |     | Implemented           | -                                    |
| S6.9          | No soil waste is allowed to be disposed overboard.   | Marine Dredging/ During construction                              | Contractor(s)  |                 | ✓        |     | N/A                   | -                                    |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures   | measures & main concerns to Agent                  |               | Implen<br>Stage |          | ion | Implementation status | Relevant Legislation &<br>Guidelines          |
|---------------|--|--|---------------|-----------------|----------|-----|-----------------------|---|
| S6.9          | Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis | address  Land site & drainage/ During construction | Contractor(s) | D               | C<br>✓   | 0   | Implemented           | ProPECC PN 1/94 TM<br>Standard under the WPCO |
| S6.9          | and maintained to confirm proper and efficient  Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.  | Land site & drainage/ During construction          | Contractor(s) |                 | ✓        |     | Implemented           | -   |
| S6.9          | Appropriate surface drainage will be designed and provided where necessary.  | Land site & drainage/ During construction          | Contractor(s) |                 | ✓        |     | Implemented           | -   |
| S6.9          | The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.   | Land site & drainage/ During construction          | Contractor(s) | <b>✓</b>        | ✓        |     | Implemented           | ProPECC PN 1/94                               |
| S6.9          | Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.   | Land site & drainage/ During construction          | Contractor(s) |                 | ✓        |     | N/A                   | -   |
| S6.9          | Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.  | Land site & drainage/ During construction          | Contractor(s) |                 | ✓        |     | Implemented           | -   |
| S6.9          | The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.   | Land site & drainage/ During construction          | Contractor(s) |                 | ✓        |     | N/A                   | -   |
| S6.9          | Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.   | Land site & drainage/ During construction          | Contractor(s) |                 | <b>√</b> |     | Implemented           | -   |



| EIA Reference  | Recommended Environmental Protection<br>Measures/ Mitigation Measures  | meachrec & main concerne in                         | implementation   | Impler<br>Stage | nentat   | ion      | Implementation status | Relevant Legislation &<br>Guidelines   |
|----------------|--|---|--|-----------------|----------|----------|-----------------------|--|
|                |  |   | Agent  | D               | С        | 0        | =                     | Guidelines   |
| S6.9 and S6.12 | The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer. |   | Contractor(s)  |                 | <b>√</b> | <b>✓</b> | N/A                   | Technical Memorandum for<br>Effluents Discharged into<br>Drainage and Sewerage<br>Systems Inland and Coastal<br>Waters |
| S6.9           | The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.   | Sterilization of water mains prior to commissioning | Contractor(s)  |                 | <b>✓</b> | <b>*</b> | N/A                   | Technical Memorandum for<br>Effluents Discharged into<br>Drainage and Sewerage<br>Systems Inland and Coastal<br>Waters |
| S6.9           | Site drainage should be well maintained and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.   | operation   | Contractor(s)  |                 | <b>✓</b> | <b>√</b> | Implemented           | -  |
| S6.12          | Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.   |   | Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC) |                 | ✓        |          | Implemented           | -  |



| EIA Reference | Recommended Environmental Protection Measures/<br>Mitigation Measures  | Objectives of the recommended measures &           | Implementation<br>Agent | Impler<br>Stage | nentati  | on       | Implementation<br>Status     | Relevant Legislation &<br>Guidelines  |
|---------------|--|--|-------------------------|-----------------|----------|----------|------------------------------|---|
|               |  | main concerns to address                           | Agent                   | D               | С        | 0        |                              | Guidelines  |
| Waste Manager |  |  |                         | 1               |          |          |                              |   |
| S8.5          | Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.   | Contract mobilisation/<br>During construction      | Contractor(s)           |                 | <b>✓</b> |          | Implemented                  | -   |
| S8.5          | Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.   | Contract mobilisation/<br>During construction      | Contractor(s)           |                 | ✓        |          | Implemented                  | -   |
| S8.5          | Provision of sufficient waste disposal points and regular collection for disposal.   | All area/ During construction/<br>During operation | Contractor(s)           |                 | <b>✓</b> | <b>✓</b> | Implemented, reminder issued | DEVB TC(W) No. 8/2010,<br>Enhanced Specification for<br>Site Cleanliness and<br>Tidiness.   |
| S8.5          | Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.   | All area/ During construction                      | Contractor(s)           |                 | <b>✓</b> |          | Implemented                  | DEVB TC(W) No. 8/2010,<br>Enhanced Specification<br>for Site Cleanliness and<br>Tidiness.   |
| S8.5          | A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation. | All area/ During construction                      | Contractor(s)           |                 | •        |          | Implemented                  | ETWB TC(W) No. 19/2005,<br>Environmental<br>Management on<br>Construction Sites   |
| S8.5          | Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.   | All area/ During construction                      | Contractor(s)           |                 | •        |          | Implemented                  | Chapters 2 & 3 Code of<br>Practice on the Packaging,<br>Labelling & Storage of<br>Chemical Wastes published<br>under the Waste Disposal<br>Ordinance (Cap 354),<br>Section 35 |
| S8.5          | Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.   | Land site/ During construction                     | Contractor(s)           |                 | ✓        |          | Implemented                  | Waste Disposal<br>Ordinance (Cap 354)   |



| EIA Reference | Recommended Environmental Protection Measures/<br>Mitigation Measures   | Objectives of the recommended measures &               | Implementation        | Implen<br>Stage | nentati  | on | Implementation<br>Status      | Relevant Legislation &<br>Guidelines   |
|---------------|---|--|-----------------------|-----------------|----------|----|-------------------------------|--|
|               | Mitigation Measures   | main concerns to address                               | Agent                 | D               | С        | 0  |                               | Guidelines   |
| \$8.5         | A recording system for the amount of wastes generated/<br>recycled and disposal sites. The trip-ticket system will<br>be included as one of the contractual requirements and<br>implemented by the contractor(s).   | Land site/ During construction                         | Contractor(s)         |                 | <b>√</b> |    | Implemented                   | DEVB TC(W) No. 6/2010,<br>Trip Ticket System for<br>Disposal of Construction &<br>Demolition Materials |
| S8.5          | Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.   | Land site/ During<br>construction/ During<br>operation | Contractor(s)         |                 | <b>√</b> |    | Implemented                   | WBTC 32/92, The Use of<br>Tropical Hard Wood on<br>Construction Site                                   |
| S8.5          | Encourage collection of aluminium cans and waste paper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.  | Land site/ During construction                         | Contractor(s)         |                 | <b>√</b> |    | Implemented                   | ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock                |
| S8.5          | Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.  | Land site/ During construction                         | Contractor(s)         |                 | <b>\</b> |    | N/A                           | -  |
| S8.5          | Use of reusable non-timber formwork to reduce the amount of C&D materials.  | All areas/ During construction                         | Contractor(s)         |                 | <b>√</b> |    | Implemented                   | WBTC 32/92, The Use of<br>Tropical Hard Wood on<br>Construction Site                                   |
| S8.5          | Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.   | All areas/ During construction                         | Contractor(s)         |                 | ✓        |    | Implemented                   | DEVB TC(W) No. 6/2010,<br>Trip Ticket System for<br>Disposal of Construction &<br>Demolition Materials |
| S8.5          | Proper storage and site practices to reduce the potential for damage or contamination of construction materials.  | All areas/ During construction                         | Contractor(s)         |                 | ✓        |    | Implemented, reminder issued. | -  |
| S8.5          | Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.  | All areas/ During construction                         | Contractor(s)         |                 | ✓        |    | Implemented                   | -  |
| S8.5          | A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method. | Marine works/ During construction                      | Contractor(s)         |                 | <b>√</b> |    | N/A                           | ETWB TC(W) No. 34/2002<br>and Dumping at Sea<br>Ordinance (DASO)                                       |
| S8.5          | The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No.</i> 34/2002 will be incorporated in the Specification of the Contract Documents.  | Marine works/ During construction                      | WSD/<br>Contractor(s) |                 | ✓        |    | Implemented                   | ETWB TC(W) No. 34/2002<br>and Dumping at Sea<br>Ordinance (DASO)                                       |
| S8.5          | The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the   | Contract mobilisation/ During construction             | Contractor(s)         |                 | <b>√</b> |    | Implemented                   | Cap 354N Waste Disposal (Charges for Disposal of   |



| EIA Reference | Recommended Environmental Protection Measures/<br>Mitigation Measures   | Objectives of the recommended measures &                      | Implementation   | Implen<br>Stage | nentati  | on       | Implementation<br>Status | Relevant Legislation &<br>Guidelines   |
|---------------|---|---|--|-----------------|----------|----------|--------------------------|--|
|               |   | main concerns to address                                      | Agent  | D               | С        | 0        |                          |  |
|               | payment of disposal charges.  |   |  |                 |          |          |                          | Construction Waste) Regulation   |
| S8.5          | A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping. | Contract mobilisation/<br>During construction                 | Contractor(s)  |                 | <b>~</b> |          | Implemented              | DEVB TC(W) No. 6/2010,<br>Trip Ticket System for<br>Disposal of Construction<br>& Demolition Materials                       |
| S8.5          | The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.  | All area/ During construction                                 | Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC) |                 | <b>√</b> |          | Implemented              | ETWB TC(W) No. 19/2005,<br>Environmental<br>Management on<br>Construction Sites  |
| S8.5          | A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase. | All area/ During construction                                 | Contractor(s)  |                 | <b>✓</b> |          | Implemented              | Annex 5 and Annex 6<br>of Appendix G of<br>ETWB TC(W) No.<br>19/2005   |
| S8.5          | Inert C&D materials (public fill) will be reused within the Project as far as practicable.  | All area/ During construction                                 | Contractor(s)  |                 | <b>√</b> |          | Implemented              | -  |
| S8.5          | Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.   | All area/ During construction                                 | Contractor(s)  |                 | <b>√</b> |          | Implemented              | -  |
| S8.5          | Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.  | All area/ During construction                                 | Contractor(s)  |                 | ✓        |          | Implemented              | -  |
| S8.5          | To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.   | All area/ During construction                                 | Contractor(s)  |                 | <b>✓</b> |          | Implemented              | Air Pollution Control<br>(Construction Dust)<br>Regulation (Cap 311R);<br>WPCO (Cap 358)                                     |
| \$8.5         | Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.   | Land site/ During<br>Construction, particularly<br>dry season | Contractor(s)  |                 | ✓        |          | Implemented              | Air Pollution Control<br>(Construction Dust)<br>Regulation (Cap 311R)  |
| S8.5          | Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.   | All area/ During construction/<br>During operation            | Contractor(s)/<br>WSD  |                 | <b>√</b> | <b>√</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of |



| EIA Reference |   | Objectives of the recommended measures &              | Implementation        | Imple:<br>Stage | mentat   | ion      | Implementation<br>Status | Relevant Legislation &<br>Guidelines  |
|---------------|---|---|-----------------------|-----------------|----------|----------|--------------------------|---|
|               | Mitigation Measures   | main concerns to address                              | Agent                 | D               | С        | 0        |                          | Guidennes   |
|               |   |   |                       |                 |          |          |                          | Chemical Wastes   |
| S8.5          | Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.  | All area/ During<br>construction/ During<br>operation | Contractor(s)/<br>WSD |                 | •        | <b>~</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.  | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>*</b> | <b>✓</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Storage areas for chemical waste shall be enclosed on at least 3 sides.   | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>*</b> | <b>*</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>*</b> | <b>√</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Storage areas for chemical waste shall have adequate ventilation.   | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>√</b> | <b>√</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).  | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>✓</b> | <b>√</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.  | All area/ During construction/<br>During operation    | Contractor(s)/<br>WSD |                 | <b>✓</b> | <b>✓</b> | Implemented              | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of   |



| EIA Reference | Recommended Environmental Protection Measures/<br>Mitigation Measures   | Objectives of the recommended measures &           | Implementation        | Implementation<br>Stage |          | ion      | Implementation<br>Status      | Relevant Legislation &<br>Guidelines  |
|---------------|---|--|-----------------------|-------------------------|----------|----------|-------------------------------|---|
|               | Midgadon Measures   | main concerns to address                           | Agent                 | D                       | C        | 0        |                               | Guidelines  |
|               |   |  |                       |                         |          |          |                               | Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes  |
| S8.5          | General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.  | All area/ During construction/<br>During operation | Contractor(s)/<br>WSD |                         | •        | <b>√</b> | Implemented, reminder issued. | Waste Disposal (Chemical<br>Waste) (General)<br>Regulation; Code of<br>Practice on the Packaging,<br>Handling and Storage of<br>Chemical Wastes |
| S8.5          | Adequate number of waste containers will be provided to avoid over-spillage of waste.   | All area/ During construction/<br>During operation | Contractor(s)/<br>WSD |                         | <b>✓</b> | <b>✓</b> | Implemented                   | DEVB TC(W) No. 8/2010<br>Enhanced Specification for<br>Site Cleanliness and<br>Tidiness.  |
| S8.5          | A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.   | All area/ During construction/<br>During operation | Contractor(s)/<br>WSD |                         | <b>*</b> | <b>✓</b> | Implemented                   | -   |
| S8.5          | Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site.  Materials recovered will be sold for recycling. | All area/ During construction/<br>During operation | Contractor(s)/<br>WSD |                         | <b>✓</b> | <b>✓</b> | Implemented                   | -   |
| S8.5          | To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.   | All area/ During construction                      | Contractor(s)         |                         | <b>✓</b> |          | Implemented                   | -   |
| S8.5          | The burning of refuse on construction sites is prohibited by law.   | All area/ During construction                      | Contractor(s)         |                         | <b>1</b> |          | Implemented                   | Air Pollution Control<br>Ordinance (Cap 311)  |
| S8.7          | To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.   | All facilities/ During construction                | ET/IEC                |                         | <b>✓</b> |          | Implemented                   | -   |



|                | Recommended Environmental Protection Measures/<br>Mitigation Measures  | Objectives of the recommended measures &  | Implementation<br>Agent | Stage    | nentat   |   | Implementation<br>Status | Relevant Legislation &<br>Guidelines |
|----------------|--|---|-------------------------|----------|----------|---|--------------------------|--------------------------------------|
|                |  | main concerns to address  | rigent                  | D        | С        | 0 |                          | duidennes                            |
| 20.=           | Ecology  |   |                         | 1 /      |          | 1 | DT / A                   |                                      |
| S9.7           | For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation | Slope mitigation works<br>area/ During detailed<br>design/ During<br>construction | Contractor(s)           | •        |          |   | N/A                      | -                                    |
|                | plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.  |   |                         |          |          |   |                          |                                      |
| S9.7           | Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.   | Slope mitigation works area/ During construction                                  | Contractor(s)           |          | ✓        |   | N/A                      |                                      |
| S9.7           | The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>insitu</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.                             | Slope mitigation works<br>area/ During detailed<br>design/ During<br>construction | Contractor(s)           | <b>✓</b> | <b>√</b> |   | N/A                      | -                                    |
| S9.7 and 9.10  | At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.                          | Slope mitigation works<br>area/ During detailed<br>design/ During<br>construction | Contractor(s)           | <b>√</b> |          |   | Implemented              | -                                    |
| S9.7           | Temporary fencing will be installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.  | Slope mitigation works<br>area/ During construction                               | Contractor(s)           |          | ✓        |   | N/A                      | -                                    |
| S9.7 and S9.10 | A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the  | Slope mitigation works area/ During construction                                  | Contractor(s)           |          | <b>√</b> |   | N/A                      | -                                    |



|      | Recommended Environmental Protection Measures/<br>Mitigation Measures   | Objectives of the recommended measures &            | Implementation<br>Agent                      | Impler<br>Stage | nentat   | ion | Implementation<br>Status | Relevant Legislation &<br>Guidelines |
|------|---|---|--|-----------------|----------|-----|--------------------------|--------------------------------------|
|      |   | main concerns to address                            | Agent  | D               | С        | 0   |                          | Guidennes                            |
|      | proposed alignment of the flexible barriers will be prepared to protect the species.  |   |  |                 |          |     |                          |                                      |
| S9.7 | Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.   | Slope mitigation works<br>area/ During construction | Contractor(s)                                |                 | <b>✓</b> |     | N/A                      | -                                    |
| S9.7 | The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.   | Slope mitigation works area/ During construction    | Contractor(s)                                |                 | <b>√</b> |     | N/A                      | -                                    |
| S9.7 | Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.  | All area/ During construction                       | Contractor(s)                                |                 | <b>✓</b> |     | Implemented              | -                                    |
| S9.7 | Regularly check the work site boundaries to ensure that they are not breached and that damage does not occur to surrounding areas.  | All area/ During construction                       | Contractor(s)/<br>Environmental<br>Team (ET) |                 | <b>√</b> |     | Implemented.             | -                                    |
| S9.7 | Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.  | All area/ During construction                       | Contractor(s)                                |                 | <b>✓</b> |     | Implemented              | -                                    |
| S9.7 | Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area. | All area/ During construction                       | Contractor(s)                                |                 | <b>√</b> |     | N/A                      | -                                    |
| S9.7 | Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.  | All area/ During construction                       | Contractor(s)                                |                 | ✓        |     | N/A                      | -                                    |



|                | Recommended Environmental Protection Measures/ Mitigation  | Objectives of the recommended   | Implementation        |          |          | ation    | Implementation<br>Status | Relevant Legislation &                      |
|----------------|--|---|-----------------------|----------|----------|----------|--------------------------|---|
| EIA Reference  | Measures   | measures & main<br>concerns to address                                    | Agent                 | D        | С        | 0        |                          | Guidelines                                  |
|                | Landscape & Visual   |   |                       |          |          |          |                          |   |
| S11.10 & 11.11 | The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)  | All area/ Detailed<br>design/ During<br>construction/ During<br>operation | WSD/<br>Contractor(s) | <b>✓</b> | <b>✓</b> | <b>~</b> | Implemented              | -   |
| S11.10 & 11.11 | At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)   | All area/ Detailed design/ During construction/ During operation          | WSD/<br>Contractor(s) | <b>V</b> | ✓        | <b>V</b> | Implemented              | -   |
| S11.10 & 11.11 | Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (ie without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; - screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape. (MM3) | All area/ Detailed design/ During construction/ During operation          | WSD/<br>Contractor(s) | •        | •        | <b>~</b> | Implemented              | -   |
| S11.10 & 11.11 | All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)   | All area/ Detailed<br>design/ During<br>construction/ During<br>operation | WSD/<br>Contractor(s) | <b>✓</b> | <b>✓</b> | <b>*</b> | Implemented              | ETWB TCW No. 3/2006 -<br>Tree Preservation. |
| S11.10 & 11.11 | No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments.  A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)   | All area/ Detailed<br>design/ During<br>construction/ During<br>operation | WSD/<br>Contractor(s) | <b>✓</b> | <b>√</b> | <b>✓</b> | Implemented              | DEVB TC(W) No. 10/2013                      |
| S11.10 & 11.11 | Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be   | All area/ Detailed design/ During construction/ During operation          | WSD/<br>Contractor(s) | ✓        | ✓        | <b>~</b> | N/A                      |   |



|                | Recommended Environmental Protection Measures/ Mitigation  | Objectives of the recommended Implementation Sta                          |                       | Implementation<br>Stage |          |          | _           | Relevant Legislation & |
|----------------|--|---|-----------------------|-------------------------|----------|----------|-------------|------------------------|
| EIA Reference  | Measures   | measures & main<br>concerns to address                                    | Agent                 | D                       | С        | 0        |             | Guidelines             |
|                | necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation.  (MM6)  |   |                       |                         |          |          |             |                        |
| S11.10 & 11.11 | Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for installation. (MM7) | All area/ Detailed<br>design/ During<br>construction/ During<br>operation | WSD/<br>Contractor(s) | <b>√</b>                | <b>*</b> | <b>√</b> | Implemented |                        |
| S11.10 & 11.11 | All night-time lighting will be reduced to a practical minimum both in terms of number of level and will be hooded and directional. (MM8) units and lux level and will be hooded and directional. (MM8)  | All area/ Detailed<br>design/ During<br>construction/ During<br>operation | WSD/<br>Contractor(s) | <b>V</b>                | ✓        | ✓        | Implemented | -                      |



|               | Recommended Environmental Protection Measures/ Mitigation   | Objectives of the recommended                                    | Implementation |          | menta    | ation    | Implementation<br>Status | Relevant Legislation & |
|---------------|---|--|----------------|----------|----------|----------|--------------------------|------------------------|
| EIA Reference | Measures  | measures & main<br>concerns to address                           | Agent          | D        | С        | 0        |                          | Guidelines             |
|               | Landfill Gas Hazard   |  |                |          |          |          |                          |                        |
| S12.7         | During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>*</b> | <b>✓</b> | <b>\</b> | Implemented              | -                      |
| S12.7         | During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 metre.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>*</b> | <b>✓</b> | <b>V</b> | Implemented              |                        |
| S12.7         | The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance.  Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations. | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>✓</b> | •        | <b>√</b> | Implemented              |                        |
| S12.7         | Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>√</b> | •        | <b>√</b> | Implemented              |                        |
| S12.7         | All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>✓</b> | <b>√</b> | <b>V</b> | Implemented              |                        |
| S12.7         | Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>√</b> | <b>√</b> | <b>√</b> | Implemented              |                        |
| S12.7         | Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.  | All area/ Detailed design/ During construction/ During operation | Contractor(s)  | <b>✓</b> | <b>√</b> | <b>√</b> | Implemented              |                        |



|               | Recommended Environmental Protection Measures/ Mitigation   | Objectives of the recommended   | Implementation |          | nenta    | ation    | Implementation<br>Status | Relevant Legislation & |
|---------------|---|---|----------------|----------|----------|----------|--------------------------|------------------------|
| EIA Reference | Measures  | measures & main<br>concerns to address                                    | Agent          | D        | С        | 0        |                          | Guidelines             |
| S12.7         | Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.   | All area/ Detailed design/ During construction/ During operation          | Contractor(s)  | <b>√</b> | <b>✓</b> | 1        | Implemented              |                        |
| S12.7         | Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement. | All area/ During construction/ During operation                           | Contractor(s)  | <b>✓</b> | •        | <b>✓</b> | Implemented              |                        |
| S12.7         | Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.  | All area/ Detailed<br>design/ During<br>construction/<br>During operation | Contractor(s)  | <b>✓</b> | 1        | <b>√</b> | N/A                      |                        |
| S12.7         | It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.   | All area/ Detailed<br>design/ During<br>construction/<br>During operation | Contractor(s)  | <b>✓</b> | 1        | •        | N/A                      |                        |
| S12.7         | The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.                                     | All area/ Detailed<br>design/ During<br>construction/<br>During operation | Contractor(s)  | <b>✓</b> | •        |          | Implemented              |                        |
| S12.7         | All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.   | All area/ Detailed<br>design/ During<br>construction/<br>During operation | Contractor(s)  | <b>✓</b> | <b>✓</b> | <b>✓</b> | Implemented              |                        |



# Appendix D

Impact Monitoring Schedule of the Reporting Month

| Apr-22 |       |  |   |  |  |  |  |  |  |  |
|--------|-------|--|---|--|--|--|--|--|--|--|
|        | Mon   | Tue  | •   | Fri Sat  |  |  |  |  |  |  |
|        | 17701 | Tue Tue  |   | 1 2  |  |  |  |  |  |  |
|        |       |  |   | Impact Water Quality monitoring for CE-CF, WSR1, WSR2, WSR3, WSR4, WSR WSR3, WSR4, WSR3, WSR4, W |  |  |  |  |  |  |
|        |       |  |   | Monitoring Time:<br>Mid-ebt: 11:24-1454<br>Mid-flood: 16:12-19:00  |  |  |  |  |  |  |
|        | 4     | 5 6  | 7   | ,  |  |  |  |  |  |  |
|        |       | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR16, WSR33, WSR46, WSR37, Tidal Period:  Ebb Tida: 11:35-17:58 Flood Tide: 05:00-11:35 Menitoring Time; Mid-ebb: 13:00-16:30 Mid-flood: 08:00-11:15  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR46, WSR37 Taidal Period.  Ebb Tide: 12:00-19:54 Flood Tide: 05:00-12:00 Monitoring Times. Mid-ebb: 14:12:17:42 Mid-Bood: 08:00-11:30                               | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR8, WSR3, WSR3 |  |  |  |  |  |  |
|        | 11    | 12 13  | 14  | 15 16  |  |  |  |  |  |  |
|        |       | CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR56, WSR37  Tidal Period; Ebb Title: 1990-01-200 Flood Tide: 12-00-17-31  Meniotring Time; Mid-ebb: 0990-11-51  Mid-flood: 13:00-16:30   | CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR36, WSR37  Tidal Period:  Elsb Tide 08/39-13-23  Plood Tide: 13-23-19-47  Monitoring Time:  Mid-ebb: 09-10-12-26  Mid-lbood: 14:50-18-20  | CE, CF, WSR1, WSR2, WSR3, WSR3, WSR3, WSR37  Tidal Period: Ebb Tide (901-21-50) Flood Tide: 15-00-21-41  Monitoring Time: Mid-ebb (102-11-35) Mid-flood: 15-20-18-50   |  |  |  |  |  |  |
|        | 18    | 19 20  | 21  | 22 23  |  |  |  |  |  |  |
|        |       | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR3, WS | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 Tidal Period:  Ebb Tide: 12:00-19:00 Flood Tide: 04:58-12:00 Monitoring Time: Mid-ebb: 13:45-17:15 Mid-flood: 08:00-11:30                                | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR1 WSR3, WSR3, WSR3, WSR3 Tidal Period: Bib Tide: 1400-2200 Flood Tide: 07:00-14:00 Monitoring Time: Msi-ebb: 16:15:19:00 Mid-flood: 08:45-12:15   |  |  |  |  |  |  |
|        | 25    | 26 27  | 28  | 29 30  |  |  |  |  |  |  |
|        |       | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR4, WSR4, WSR4, WSR4, WSR46, WSR37, WSR33, WSR36, WSR37 <u>Ital Period.</u> EB 7ide 07:594-11-29  Flood Tule: 11:29-18:00 <u>Monitoring Time</u> ,  Mid-tbootl: 25-99-16:29  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, STAID Period:  Ebb Take (0833-13-31)  Flood Take: 13-31-20.00  Monitoring Time:  Mid-ebb: 09:17-12-27  Mid-flood: 150-01-83.0 | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR3, WSR4, WSR3, WSR3 |  |  |  |  |  |  |



# Appendix E

Event/Action Plan for Noise Exceedance



### **Event and Action Plan for Construction Noise Monitoring**

| Event        | Action   |   |   |  |  |  |  |  |
|--------------|--|---|---|--|--|--|--|--|
|              | ET   | IEC   | ER  | Contractor   |  |  |  |  |
| Action Level | <ol> <li>Carry out investigation to identify the source and cause of the complaint/ exceedance(s)</li> <li>Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC</li> <li>Discuss with the Contractor and IEC for remedial measures require</li> <li>If the complaint is related to the Project, conduct additional monitoring for checking mitigatio effectiveness and report the findings and results to the IEC, ER and the Contractor</li> </ol>  | 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> <li>Confirm receipt of Notification of<br/>Exceedance in writing</li> <li>Require Contractor to propose<br/>remedial measures for the analyse<br/>noise problem</li> <li>Ensure remedial measures are<br/>properly implemented</li> </ol>      | Submit noise mitigation proposals, if required, to the IEC and ER     Implement noise mitigation d proposals.  |  |  |  |  |
| imit Level   | 1. Notify IEC, ER, EPD and Contractor 2. Identify the source(s) of impact by reviewing all the relevant monitori data and the corresponding construction activities. Exceedance should also be confirmed by immediate verification in the field far as practical.  3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implement inform IEC, ER and EPD the cause actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EP ER informed of the results 8. If exceedance stops, cease additional monitoring. | Contractor on the potential remedial actions 2. Review Contractor's remedial actions to assure their effectiveness and advise the ER &ET accordingly 3. Supervise the implementation of the remedial measures  ted. & | exceedance in writing 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented 5. If exceedance continuous, consider what portion of the work is | 1. Take immediate action to avoid further exceedance 2. Identify practicable measures to minimize the noise impact. Submit proposals for remedial actions to ER within three working days of notification 3. Implement the agreed proposals 4. Resubmit proposal if problem still not under control 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated |  |  |  |  |



# Appendix F

Noise Monitoring Equipment Calibration Certificate (BLANK)



# (BLANK)



# Appendix G

Event/Action Plan for Water Quality Exceedance



| Event   |  | Act  | tion  |  |
|---|--|--|---|--|
|   | ET   | IEC  | SO  | Contractor   |
| Action level<br>being exceeded<br>by one<br>sampling day                              | Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. (The above actions should be taken within 1 working day after the exceedance is identified)  | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)                                 | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)  | Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)                                 |
| Action level<br>being exceeded<br>by more than<br>one<br>consecutive<br>sampling days | Identify source(s) of impact; 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; Repeat measurement on next working day of exceedance. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) | Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days) |



| Event   |  | Act  | tion   |  |
|---|--|--|--|--|
|   | ET   | IEC  | SO   | Contractor   |
| Limit level<br>being exceeded<br>by one<br>sampling day | Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with Contractor, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented measures. (The above actions should be taken within 1 working day after the exceedance is identified) | Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) |



| Event  | Action  |   |  |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|--|
|  | ET  | IEC   | SO   | Contractor   |  |  |  |  |  |
| Limit level<br>being exceeded<br>by more than<br>one<br>consecutive<br>sampling days | Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods. Discuss mitigation measures with IEC, SO and Contractor. Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented 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. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) | Inform the SO and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures; As directed by the SOR, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days) |  |  |  |  |  |



# Appendix H

Waste Flow Table

### Contract No. 13/WSD/17

### Environmental Management Plan for Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Appendix F - Monthly Summary Waste Flow Table

Name of Department: WSD Contract No.: 13/WSD/17

### Monthly Summary Waste Flow Table for 2022 (year)

|           |                             | Actual Quan                               | itities of Inert C&I      | O Materials Genera          | ted Monthly                |               |              | Actual Quantities          | of C&D Wastes (       | Generated Monthly |                                |
|-----------|-----------------------------|---|---------------------------|-----------------------------|----------------------------|---------------|--------------|----------------------------|-----------------------|-------------------|--------------------------------|
| Month     | Total Quantity<br>Generated | Hard Rock and<br>Large Broken<br>Concrete | Reused in the<br>Contract | Reused in other<br>Projects | Disposed as<br>Public Fill | Imported Fill | Metals       | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste    | Others, e.g.<br>general refuse |
|           | (in '000kg)                 | (in '000kg)                               | (in '000kg)               | (in '000kg)                 | (in '000kg)                | (in '000kg)   | (in '000 kg) | (in '000kg)                | (in '000kg)           | (in '000kg)       | (in '000kg)                    |
| Jan       | 233.850                     | 0.000                                     | 0.000                     | 0.000                       | 233.850                    | 0.000         | 0.000        | 0.069                      | 0.005                 | 0.000             | 109.020                        |
| Feb       | 175.850                     | 0.000                                     | 0.000                     | 0.000                       | 175.850                    | 0.000         | 0.000        | 0.000                      | 0.000                 | 0.296             | 94.830                         |
| Mar       | 68.790                      | 0.000                                     | 0.000                     | 0.000                       | 68.790                     | 0.000         | 0.000        | 0.000                      | 0.000                 | 0.000             | 54.140                         |
| Apr       | 29.050                      | 0.000                                     | 0.000                     | 0.000                       | 29.050                     | 0.000         | 0.001        | 0.165                      | 0.004                 | 0.000             | 113.780                        |
| May       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Jun       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Sub-total | 507.540                     | 0.000                                     | 0.000                     | 0.000                       | 507.540                    | 0.000         | 0.001        | 0.234                      | 0.008                 | 0.296             | 371.770                        |
| Jul       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Aug       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Sep       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Oct       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Nov       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Dec       |                             |   |                           |                             |                            |               |              |                            |                       |                   |                                |
| Total     | 507.540                     | 0.000                                     | 0.000                     | 0.000                       | 507.540                    | 0.000         | 0.001        | 0.234                      | 0.008                 | 0.296             | 371.770                        |

Notes:

- (1) The performance targets are given in Section 1.69 of Specification B
- (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

<sup>\*</sup> The data will be reviewed in next month.



# Appendix I

# Site Inspection Proforma



# Acuity Sustainability Consulting Limited

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### Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspec    | tion Date: _ | 6-4-2022 Inspected by: ET: Jack Jewa   | so: Mr.  | Derek Jew wsD: |                |
|-----------|--------------|--|----------|----------------|----------------|
| Inspec    | tion Time:_  | 14200 -15200 Contractor: MQ- 11800my 18the   | IEC: /// | Jours Killon   | •              |
| Weat      | her          |  |          |                |                |
| Condition |              | Sunny Tine Overcast Drizzle Rain   | Storm    | Hazy           |                |
| Temp      | erature      | C Humidity High Moderate   | Low      |                | w 1            |
| Wind      |              | Calm Jight Breeze Strong   |          |                |                |
|           |              |  |          |                |                |
| ltem      | EIA ref.     |  | N/A      | Yes No         | Photo/Remarks  |
| No.       |              | Const  |          |                | £ .            |
| 0.00      |              | General  |          |                |                |
| 0.01      |              | Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?  | Ш        |                |                |
| 0.02      | -            | Is ET Leader's log-book kept readily available for inspections?  |          |                |                |
|           |              |  | Ш        |                |                |
| 1.00      |              | Construction Dust  |          |                |                |
| 1         | \$4.8.1      | Are dusty materials, such as excavated materials, building debris and construction   | П        |                |                |
|           |              | materials, and exposed earth surface properly covered to prevent dust emission?  |          |                |                |
| 1.02      | S4.8.1       | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to  |          | /              |                |
|           |              | dusty construction works for dust suppression?   | П        |                |                |
|           |              | *  |          |                | <b>8</b> *** 1 |
| 1.03      | S4.8.1       | Are fumes or smoke emitting plants or construction activities shielded by a screen?  |          |                | 1              |
|           |              |  |          |                |                |
|           |              |  |          |                |                |
| 1.04      | \$4.8.1      | Are wheel-washing facilities with high-pressure water jets provided at all site exits?   |          |                |                |
| 1.05      | \$4.8.1      | Is wheel-washing provided to all vehicles leaving the site?  |          |                |                |
|           |              | The state of the s |          |                |                |
| 1.06      | S4.8.1       | Are road section near the site exit free from dusty material?  |          |                |                |
| 1.55      |              |  |          |                |                |
| 1.07      | S4.8.1       | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?   |          |                |                |
| 1.08      | \$4.8.1      | Are water spraying provided immediately prior to any loading or transfer of dusty  | —        |                |                |
|           |              | materials?   |          |                |                |
| 1.09      | \$4.8.1      | Are covers provided to all dump trucks carrying dusty materials when entering and  |          | п п            |                |
|           |              | leaving the site?  |          |                |                |
| 1.10      | S4.8.1       | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of  |          | ПП             |                |
|           |              | boulders, poles, pillars sprayed with water to maintain the entire surface wet?  |          |                |                |
| 1.11      | S4.8.1       | Is exposed earth properly treated within six months after the last construction activity   |          |                |                |
| 1 12      | \$4.8.1      | on site?   |          |                | -              |
| 1.12      | 54.8.1       | Does the operation of plants on site free form dark smoke emission?  |          |                |                |
|           |              |  |          |                |                |
|           |              |  |          |                |                |

| Item<br>No. | EIA ref. |   | N/A | Yes | No | Photo/Remarks |
|-------------|----------|---|-----|-----|----|---------------|
| 1.13        | S4.8.1   | Are vehicles travelling at speed not exceeding 15km/hr within the site?   | V   |     |    |               |
| 1.14        | S4.8.1   | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?                      |     |     |    |               |
|             |          | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?                    |     |     |    |               |
|             |          | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?     |     |     |    |               |
| 1.17        | S4.8.1   | Is open burning prohibited?   |     |     |    |               |
| 2.00        |          | Construction Noise (Airborne)   |     |     |    |               |
| 2.01        | S5.7     | Are quiet plants adopted on site?   |     |     |    |               |
| 2.02        | S5.7     | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?                     |     |     |    |               |
| 2.03        | S5.7     | Are plants throttled down or turned off when not in use?  |     | V   |    |               |
| 2.04        | S5.7     | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?                     |     |     |    |               |
| 2.05        | S5.7     | Are moveable barriers provided to screen NSRs from plant or noisy operations?                                     |     |     |    |               |
|             | S5.7     | Are silencers, mufflers and enclosures provided to plants?  |     |     |    |               |
| 2.07        |          | Are the hoods, cover panels and inspection hatches of PMEs closed during operation?                               |     |     |    |               |
| 2.08        | S5.7     | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?       |     | V   |    |               |
| 2.09        | S5.7     | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? |     | V   |    |               |
| 2.10        | S5.7     | Are valid noise emission label(s) affixed to all hand-held breakers operating on site?                            | /   |     |    |               |
| 2.11        |          | Are valid noise emission label(s) affixed to all air compressors operating on site?                               |     |     |    |               |
| 2.12        |          | Are all construction noise permit(s) applied for percussive piling work?  |     |     |    |               |
| 2.13        | S5.7     | Are construction noise permit(s) applied for general construction works during restricted hours?                  |     |     |    |               |
| 2.14        | S5.7     | Are valid construction noise permit(s) displayed at all vehicular exits?  |     | V   |    |               |
| 3.00        |          | Water Quality   |     |     |    |               |
|             | S6.9     | Is effluent discharge license obtained for wastewater discharge from site?  |     |     |    |               |
| 3.02        | S6.9     | Is effluent discharged according to the effluent discharge license?   |     |     |    |               |
| 3.03        | S6.9     | ls wastewater discharge from site properly treated prior to discharge?  |     |     |    |               |



| [tem | EIA ref. |  | N/A    | Yes    | No     | Photo/Remarks |
|------|----------|--|--------|--------|--------|---------------|
| No.  |          |  |        |        |        |               |
| 3.04 | S6.9     | Are perimeter channels provided to intercept storm runoff from outside the site?         |        |        |        |               |
| 3.05 | S6.9     | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to |        |        |        |               |
|      |          | remove sand/silt particles from runoff?  | Ш.     |        |        |               |
| 3.06 | S6.9     | Is surface runoff diverted to sedimentation facilities?                                  |        | V      |        |               |
| 3.07 | S6.9     | Is the drainage system properly maintained?  |        | V      |        |               |
| 3.08 | S6.9     | Are construction works carefully programmed to minimize soil excavation works            |        |        |        |               |
|      |          | during rainy seasons?  | Ш      | 1      | Ш      |               |
| 3.09 | \$6.9    | Are exposed soil surface protected by paving as soon as possible to reduce the           |        |        | П      |               |
|      |          | potential of soil erosion?   | Ш      |        |        |               |
| 3.10 | S6.9     | Are temporary access roads protected by crushed gravel?                                  |        | V      |        |               |
| 3.11 | S6.9     | Are exposed slope surface properly protected?  | $\Box$ |        | П      | ,             |
|      |          |  | Ш      |        | ш      |               |
| 3.12 | S6.9     | Is trench excavation avoided in the wet season as far as practicable, or if necessary,   |        |        | П      |               |
|      |          | backfilled in short sections after excavation?   | Ш      |        | Ш      |               |
| 3.13 | S6.9     | Are open stockpiles of construction materials on site covered by tarpaulin or similar    |        |        | П      |               |
|      |          | fabric during construction?  |        |        | Ш      |               |
| 3.14 | S6.9     | Is runoff from wheel-washing facilities avoided?   |        |        |        |               |
| 3.15 | S6.9     | Is oil leakage or spillage prevented?  |        | V      |        |               |
| 3.16 | S6.9     | Are there any measures to prevent the release of oil and grease into the storm           |        |        | $\Box$ |               |
|      |          | drainage system?   | Ш      |        | Ш      |               |
| 3.17 | S6.9     | Are the oil interceptors/ grease traps properly maintained?                              |        |        |        |               |
| 3.18 | S6.9     | Are debris and rubbish generated on site collected, handled and disposed of properly     |        |        | П      |               |
|      |          | to avoid them entering the streams?  |        |        |        |               |
| 3.19 | \$6.9    | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas,   |        |        | $\Box$ |               |
|      |          | within bunds of capacity equal to 110% of the storage capacity of the largest tank?      |        | لها    | Ш      |               |
| 3.20 | S6.9     | Are tanks, containers, storage area bunded and the locations locked as far as possible   |        |        |        |               |
|      |          | from the sensitive watercourse and stormwater drains?                                    |        | 1      |        |               |
| 3.21 | S6.9     | Are sufficient chemical toilets provided on site to handle sewage from construction      |        | 口力     | $\Box$ |               |
|      |          | work force?  |        |        | Ш      |               |
| 3.22 | S6.9     | Are sewage disposal and toilet maintenance of the portable chemical toilets provided     |        |        |        |               |
|      |          | by the licensed contractors?   |        | $\vee$ | Ш      |               |
| 3.23 | S6.9     | Is concrete washing water properly collected and treated prior to discharge?             |        |        |        |               |
| 3.24 | S6.9     | Is suitable type of silt curtains deployed during dredging to reduce the elevation of    |        |        |        |               |
|      |          | suspended solids to nearby sensitive receivers?  |        |        | Ш      |               |
| 3.25 | S6.9     | Is closed grab dredger used to reduce the potential leakage of sediments?                |        |        | П      |               |



| tem  | EIA ref. | ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts   | N/A          | Yes | No | Photo/Remarks |
|------|----------|--|--------------|-----|----|---------------|
| 10.  |          |  |              |     |    |               |
| 3.26 | S6.9     | Is closed grab dredger of 3 to 6 m <sup>3</sup> used for dredging at seawater intake?  | V            |     |    |               |
| 3.27 | S6.9     | Is specific work staff assigned the responsibility for monitoring the number of grab dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m <sup>3</sup> closed grab, 10-11 grab per hour for 6m <sup>3</sup> closed grab?   |              |     |    |               |
| 3.28 | S6.9     | Is the grab operated in slow and controlled manner such that the impact to seabed by the grab when being lowered could be minimized? Is the operator ensured the grab be properly closed before lifting the grab?  |              |     |    |               |
| 3.29 | S6.9     | Is the maximum allowed dredging rate at the seawater intake limited to 750 m <sup>3</sup> /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m <sup>3</sup> /day?  |              |     |    |               |
| 3.30 | S6.9     | Is dredged marine sediment disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO)?  | V            |     |    |               |
| 3.31 | S6.9     | Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?  | V            |     |    |               |
| 3.32 | S6.9     | Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action?   | $\checkmark$ |     |    |               |
| .33  | S6.9     | Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?   |              |     |    | -             |
| 3.34 | S6.9     | Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?   |              |     |    |               |
| 3.35 | S6.9     | When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?  |              |     |    |               |
| 3.36 | S6.9     | Is dredger maintained adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?  |              | V   |    |               |
| 3.37 | S6.9     | Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly? |              | V   |    |               |
| 3.38 | S6.9     | Are all vessels have a clean ballast system?   |              | V   |    |               |
| 3.39 | S6.9     | Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?  |              |     |    |               |
| 3.40 | S6.9     | Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?   | V            |     |    |               |
| 3.41 | S6.9     | Is any soil waste disposed overboard?  |              |     |    |               |



| Item | EIA ref. |   | N/A | Yes             | No          | Photo/Remarks                          |
|------|----------|---|-----|-----------------|-------------|--|
| No.  |          |   |     |                 |             |  |
| 4.00 |          | Waste Management  |     |                 |             |  |
| 4.01 | S8.5     | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at        |     |                 |             |  |
|      |          | public filling facilities and landfills?  |     |                 |             |  |
| 100  | 00.5     |   |     |                 |             |  |
| 4.02 | 58.5     | Is a recording system implemented to record the amount of wastes generated, recycled and      |     |                 | . $\square$ |  |
|      |          | disposed of?  |     |                 |             |  |
| 4.03 | S8.5     | IS the Contractor registered as a chemical waste producer?                                    |     |                 |             |  |
|      |          |   |     |                 |             |  |
| 4.04 | S8.5     | Are chemical waste separated from other waste and collected by a licensed chemical waste      |     |                 |             |  |
|      |          | collector?  |     |                 | <u> </u>    |  |
| 4.05 | S8.5     | Are trip tickets for chemical waste disposal available for inspection?                        |     |                 |             |  |
|      |          |   |     |                 | Ш           |  |
| 4.06 | S8.5     | Is chemical waste reused and recycled on site as far as practicable?                          |     |                 |             |  |
|      |          |   | ш   |                 | ш           |  |
| 4.07 | S8.5     | Are all containers for chemical waste properly labelled?                                      |     |                 |             |  |
|      |          |   |     |                 | Ш           |  |
| 4.08 | S8.5     | ls chemical waste storage area used solely for storage of chemical waste and properly         |     |                 | $\Box$      |  |
|      |          | labelled?   |     |                 |             | •                                      |
| 4.09 | S8.5     | Are incompatible chemical wastes stored in different areas?                                   |     |                 | П           |  |
|      |          |   |     |                 |             |  |
| 4.10 | S8.5     | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?    |     |                 |             | * **** · · · · · · · · · · · · · · · · |
|      |          |   | Ш   |                 |             |  |
| 4.11 | S8.5     | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of         |     |                 |             |  |
|      |          | the largest container or of 20% by volume of the chemical waste stored in that area,          |     | $\checkmark$    |             |  |
|      |          | whichever is the greatest, provide?   |     |                 |             |  |
| 4.12 | S8.5     | Are a routine cleaning and maintenance programme implemented for drainage systems,            |     |                 |             |  |
|      |          | sump pits, and oil interceptors?  | Ш   |                 |             |  |
| 4.13 | S8.5     | Are sufficient general refuse disposal/collection points provided on site?                    |     |                 |             |  |
|      |          |   |     |                 | Ш           | -                                      |
| 4.14 | S8.5     | Is general refuse disposed of properly and regularly?   |     |                 |             | 0 / (                                  |
|      |          |   |     |                 |             | Kemmder                                |
| 4.15 | S8.5     | Are appropriate measures adopted to minimize windblown litter and dust during                 |     |                 |             |  |
|      |          | transportation of waste?  |     |                 |             |  |
| 4.16 | S8.5     | Are individual collectors for aluminum cans, plastic bottles and packaging material and       |     |                 |             |  |
|      |          | office paper provided to encourage waste segregation?   |     | لبلا            |             |  |
| 4.17 | S8.5     | Are C&D wastes sorted on site?  |     |                 |             |  |
|      |          |   |     | V               |             |  |
| 4.18 | S8.5     | Are C&D waste disposed of properly?   |     |                 |             |  |
|      |          |   |     |                 |             |  |
| 4.19 | S8.5     | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of            |     |                 |             |  |
|      |          | waste?  | V   |                 | Ш           |  |
| 4.20 | \$8.5    | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | -   | <del>-/</del> 1 |             |  |
|      |          | ,   |     | $\checkmark$    |             |  |
|      | 1        |   |     | -               |             |  |



|             | Tora c   | - Design, build and operate 1 list stage of 1s  | Carie Marc    | III O DE.       | Jamiatic | 711 Flatte    |
|-------------|----------|---|---------------|-----------------|----------|---------------|
| Item<br>No. | EIA ref. |   | N/A           | Yes             | No       | Photo/Remarks |
|             |          |   |               |                 |          |               |
| 4.21        | S8.5     | Are the construction materials stored properly to minimize the potential for damage or          |               |                 | П        |               |
|             |          | contamination?  |               |                 |          |               |
| 4.22        | S8.5     | ls a dumping license obtained to deliver public fill to public filling areas?                   |               | V               |          |               |
| 5.00        |          | Landscape and Visual  |               |                 |          | ~             |
| 5.01        | \$11.10  | Are Is site hoarding provided?  |               |                 |          |               |
| 1           | & 11.11  | ,   | ./            |                 |          |               |
| 5.02        | S11.10 & | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?        |               |                 |          |               |
|             | 11.11    |   |               |                 |          |               |
| 5.03        | S11.10 & | Is construction light oriented away from the sensitive receivers?                               |               |                 |          |               |
|             | 11.11    |   |               |                 |          |               |
| 5.04        | S11.10   | Is grass hydroseeding provided to slopes as soon as the completion of works?                    |               |                 |          |               |
|             | & 11.11  |   |               |                 |          |               |
| 5.05        | S11.10 & | Are damages to trees outside site boundary due construction works avoided?                      |               |                 | =        |               |
|             | 11.11    | ,   |               |                 |          |               |
| 5.06        | S11.10 & | ls excavation works carried out manually instead of machinery operation within 2.5m             |               |                 |          |               |
|             |          | vicinity of any preserved trees?  |               |                 |          |               |
| 5.07        |          | Are the retained and transplanted tree(s) properly protected and in good conditions?            |               |                 |          |               |
|             | 11.11    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |               |                 |          |               |
| 5.08        | S11.10 & | Are surgery works carried out for damaged trees?  |               |                 |          |               |
|             | 11.11    |   |               |                 | $\sqcup$ | -             |
| 6.00        |          | Ecology   |               |                 |          |               |
| 6.01        | S9.7     | Is site runoff properly treated to prevent any silly runoff?                                    |               |                 |          |               |
|             |          |   |               | $\checkmark$    |          |               |
| 6.02        | S9.7     | Are silt trap installed and well-maintained?  |               |                 |          |               |
|             |          |   |               |                 |          |               |
| 6.03        | S9.7     | Are stockpiles properly covered to avoid generating silty runoff?                               | F             |                 |          |               |
|             |          |   |               |                 |          |               |
| 6.04        | S9.7     | Are construction works restricted to works area which are clearly defined?                      |               |                 |          |               |
|             |          |   |               |                 |          |               |
| 6.05        | S9.7     | For slope mitigation works within the Clear Water Bay Country Park, are tree felling and        | $\overline{}$ | <del>-/</del> 1 |          |               |
|             |          | damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and |               |                 |          |               |
|             |          | rock dowels adjusted during detailed design, and a setback distance from existing trees is      |               |                 |          |               |
|             |          | recommended to be maintained as far as practical?   |               | *               |          |               |
| 6.06        |          | Are pruning of tree canopies along the alignment of the flexible barriers limited to a          |               |                 | П        |               |
|             |          | minimum?  | Ш             |                 | Ш        |               |
| 6.07        |          | Are the alignment of flexible barriers optimized to preserve all species of conservation        |               | M               |          |               |
|             |          | interest and minimize the impact to the existing vegetation as far as practicable? Are the      | Ш             | _               |          | -             |
|             |          | alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these          |               |                 |          |               |
| 6.08        |          | individuals?  |               | /               |          |               |
| 0.00        |          | At the detailed design stage prior to the commencement of the slope mitigation works, is        |               | 1               |          |               |
|             |          | vegetation survey carried out at the slope mitigation areas within the Clear Water Bay          |               | V               | ш        |               |



| Item              | EIA ref. | ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts   | N/A  | Yes       | No | Photo/Remarks |
|-------------------|----------|--|------|-----------|----|---------------|
| No.               | LITTICE. |  | IN/A | 165       | NO | Photo/Remarks |
|                   |          | Country Park to assess the condition and identify the location of each individual of<br>Marsdenia lachnostoma and other flora species of conservation interest that may be directly<br>affected by the construction works?   |      | 3         |    |               |
| 6.09              | S9.7     | Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations? |      |           |    |               |
| 6.10              | S9.7     | Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or<br>other flora species of conservation interest, if found) adjacent to the proposed alignment of<br>the flexible barriers prepared to protect the species?   |      |           |    |               |
| 6.11              | S9.7     | Is any induction training provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance?   |      |           |    |               |
| 6.12              | S9.7     | ls the resident site supervisory staff closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity?  |      |           |    |               |
| 6.13              | S9.7     | Are fences erected along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas?   |      |           |    |               |
| 6.14              | S9.7     | Is regular check of the work site boundaries performed to ensure that they are not breached and that damage does not occur to surrounding areas?   |      |           |    |               |
| 6.15              | S9.7     | Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?  |      | V         |    |               |
| 6.16              | S9.7     | Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?  |      | V         | П  |               |
| 6.15              | S9.7     | Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding<br>and planting of climbers and native shrub seedlings where practical upon completion of the<br>slope mitigation works?  |      |           |    |               |
| <b>.00</b><br>.01 | S12.7    | Landfill Gas Hazard  Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?   |      |           |    |               |
| .02               | S12.7    | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?   |      | 1         |    |               |
| .03               | S12.7    | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?  |      | $\sqrt{}$ |    |               |
| .04               | S12.7    | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?  |      |           |    |               |
| .05               | S12.7    | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?  |      |           |    |               |
|                   |          |  |      |           |    |               |



|      | TOTA C   |  |               | -  |    |               |
|------|----------|--|---------------|--|----|---------------|
| Item | EIA ref. |  | N/A           | Yes  | No | Photo/Remarks |
| No.  |          |  |               |  |    |               |
| 7.06 | S12.7    | is the monitoring of landfill gas being undertaken in all excavations, manholes,       |               | /  | /  |               |
|      | 1        | chambers and any confined spaces?  |               |  |    |               |
|      |          |  | '''           |  |    |               |
| 7.07 | S12.7    | Are the monitoring frequency and areas being specified by the safety officers or       | <b></b>       |  |    |               |
|      |          | appropriately qualified person? Are the all measurements being recorded and            |               | <del>-/</del>  |    |               |
|      |          | documented?  |               | 5  |    |               |
| 7.08 | S12.7    |  |               |  |    |               |
| 7.00 | 512.7    | Is the drilling proceeded with adequate care and precautions against the potential     |               |  |    |               |
|      |          | hazards?   |               |  |    |               |
|      |          |  | 77-2-29110079 | SANCE OF THE SANCE |    |               |
| 7.09 | S12.7    | is the method statement covering all normal and emergency procedures provided by       |               | /  |    |               |
|      |          | the drilling contractor prior to the commencement of the site works?                   |               |  |    |               |
|      |          |  |               |  |    | •             |
| 7.10 | S12.7    | Are the below ground services entries being sealed to prevent gas entry? Are the       | . ,           | -  |    |               |
|      |          | grilled metal covers being used for below grade cable trenches?                        |               |  |    |               |
|      |          |  |               |  |    |               |
| 7.11 | S12.7    | Is each manhole or utility pit monitored with two measurements (at mid-depth and       |               |  |    |               |
|      |          | base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at    |               |  |    |               |
|      |          | each manhole or utility pit?   |               |  |    | •             |
| 7.12 | S12.7    |  |               |  |    | 1             |
| 7.12 | 512.7    | Are the warning signs of the hazards of landfill gas and its possible presence on site |               |  |    |               |
|      |          | posted in prominent places?  |               |  |    |               |
|      |          | ·  |               |  |    |               |
| 8.00 |          | Overall  |               |  |    |               |
| 8.01 |          | Is the EM&A properly implemented in general?   |               | 1  |    |               |
|      | 1        |  |               | -  |    | •             |



| Remark / Follow up of Obser             | vation(s) and Non-complian  | nce(s) of Last Weekly Site I         | nspection:           |                         |      |
|---|-----------------------------|--------------------------------------|----------------------|-------------------------|------|
| Reminder: 1.) General 1                 | building and to             | penove NOCT                          | e ness near          | the                     |      |
| Acti Doll                               | building and to             | le Post Trecta                       | sent Building.       |                         |      |
|   |                             |                                      |                      |                         |      |
| je.                                     | E                           | E                                    |                      | ou <sub>j</sub>         |      |
|   |                             |                                      |                      |                         |      |
|   |                             |                                      |                      |                         |      |
|   |                             |                                      |                      |                         |      |
|   |                             |                                      |                      |                         | (30) |
|   |                             |                                      |                      |                         |      |
| 3                                       |                             |                                      |                      |                         |      |
| Signatures:                             |                             |                                      |                      |                         |      |
| ET<br>Representative                    | Contractor's Representative | Supervising Officer's Representative | IEC's Representative | WSD's<br>Representative |      |
|   | 27                          | $\bigvee$                            | XA.                  |                         |      |
| (Name: )                                | (Name: Titley Tsmy)         | (Name: Desex Low)                    | (Name: Louis)        | (Name:                  | )    |
| *** *********************************** |                             |                                      | From                 |                         |      |



# Acuity Sustainability Consulting Limited

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# Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

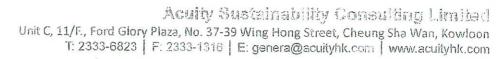
### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspec    | ction Date: _ | 12 84 (2022 Inspected by: ET: Jacky Journ  | so: Mr.    | Raymond      | Kok wsd:   |                |
|-----------|---------------|--|------------|--------------|------------|----------------|
| _         | ction Time:_  | 00130 - 10:30 X 14230 - 16230 Contractor. MS 7: Unay 78029   | IEC: Z-17. | LOUIS KIL    | <u>jan</u> |                |
| Weat      |               |  |            |              |            |                |
| Cond      | illion        | Sunny Pine Overcast Drizzle Rain   | Storm      | Ha           | nzy        |                |
| Temp      | perature      | 2 C Humidity High Moderate   | Low        |              |            | *              |
| Wind      |               | Calm Light Breeze Strong   |            |              |            |                |
| ltem      | EIA ref.      |  | N/A        | Yes          | No         | Photo/Remarks  |
| No.       |               |  | N/A        |              | NO         | Filoto/Remarks |
| 0.00      |               | General  |            |              |            |                |
| 0.01      |               | Is the current Environmental Permit displayed conspicuously at all vehicle site  |            | J            |            |                |
|           |               | entrances/exits for public's information at any time?  |            | hard-mad     | -          |                |
| 0.02      |               | Is ET Leader's log-book kept readily available for inspections?  | П          |              |            |                |
| 4.00      |               | Caretan dia Part   |            |              |            |                |
| 1.00      | \$4.8.1       | Construction Dust  Are dusty materials, such as excavated materials, building debris and construction  |            | <del>-</del> |            |                |
|           |               | materials, and exposed earth surface properly covered to prevent dust emission?  |            |              |            |                |
| 1.02      | \$4.8.1       | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to  |            |              |            | •              |
|           |               | dusty construction works for dust suppression?   |            | $\Box$       |            |                |
|           |               | , * *  | Ш          |              | Ш          | -              |
| 1.03      | S4.8.1        | Are fumes or smoke emitting plants or construction activities shielded by a screen?  |            |              |            | v:             |
|           |               | _  | 17         |              |            |                |
|           |               |  |            |              |            |                |
| 1.04      | S4.8.1        | Are wheel-washing facilities with high-pressure water jets provided at all site exits?   |            |              | П          |                |
| 1.05      | \$4.8.1       | Is wheel-washing provided to all vehicles leaving the site?  |            |              | <u> </u>   |                |
|           |               |  |            | $\checkmark$ |            |                |
| 1.06      | S4.8.1        | Are road section near the site exit free from dusty material?  |            |              |            |                |
| 1.07      | S4.8.1        | Annual main bard and district the state of t |            |              | <u> Ш</u>  |                |
| 1.07      | 1             | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?   |            |              |            |                |
| 1.08      |               | Are water spraying provided immediately prior to any loading or transfer of dusty  |            |              |            |                |
|           |               | materials?   |            |              |            |                |
| 1.09      | S4.8.1        | Are covers provided to all dump trucks carrying dusty materials when entering and  |            | П            | $\Box$     |                |
| 1.10      |               | leaving the site?  |            | <u> Ш</u>    | <u> Ш</u>  |                |
| 1.10      |               | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?  |            |              |            |                |
| 1.11      |               | Is exposed earth properly treated within six months after the last construction activity   |            |              |            |                |
| water \$1 |               | on site?   |            |              |            |                |
| 1.12      | S4.8.1        | Does the operation of plants on site free form dark smoke emission?  |            |              |            |                |
|           |               |  |            | V            |            |                |
|           |               |  |            |              |            |                |

|      | Cont     | ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts                                 | seung Kwa    |        |    |   |
|------|----------|--|--------------|--------|----|---|
| tem  | EIA ref. |  | N/A          | Yes    | No | Photo/Remarks                           |
| No.  |          |  |              |        |    |   |
| 1.13 | S4.8.1   | Are vehicles travelling at speed not exceeding 15km/hr within the site?                        |              |        |    |   |
| 1.14 | \$4.8.1  | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top                | П            |        |    | *************************************** |
|      |          | and 3 sides?   |              |        |    |   |
| 1.15 | S4.8.1   | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | $\sqrt{}$    |        |    | •                                       |
| 1 16 | \$4.8.1  | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas            | -            |        |    |   |
| 1.10 | 54.6.1   | accessible by the public?  | $\checkmark$ |        |    |   |
| 1.17 | \$4.8.1  | Is open burning prohibited?  | П            |        | П  |   |
| 2.00 |          | Construction Noise (Airborne)  |              |        |    | ·                                       |
| 2.01 | S5.7     | Are quiet plants adopted on site?  |              |        |    |   |
| 2.02 | S5.7     | Are the PMEs operating on site well-maintained to minimize the generation of                   |              |        |    |   |
|      |          | excessive niose?   |              |        |    |   |
|      |          |  |              |        |    |   |
| 2.03 | \$5.7    | Are plants throttled down or turned off when not in use?                                       |              |        |    |   |
| 2.04 | S5.7     | Are the plants known to emit noise strongly in one direction oriented to face away             |              |        | П  |   |
|      |          | from NSRs?   | <u></u>      |        |    |   |
| 2.05 | S5.7     | Are moveable barriers provided to screen NSRs from plant or noisy operations?                  |              | $\Box$ |    | _                                       |
|      |          |  | $\vee$       |        | Ш  |   |
| 2.06 | S5.7     | Are silencers, mufflers and enclosures provided to plants?                                     |              |        |    |   |
| 2.07 | S5.7     | Are the hoods, cover panels and inspection hatches of PMEs closed during operation?            |              |        |    |   |
| 2.08 | \$5.7    | Are purposely-built site hoarding construction with appropriate materials provided             |              |        |    | 0.53                                    |
|      |          | along the site boundary?   |              |        | Ш  |   |
| 2.09 | \$5.7    | Are noisy operation properly scheduled to minimize exposure and cumulative impacts             | s 🖂          |        | П  |   |
|      |          | to nearby sensitive receivers?   |              |        | Ш  | -                                       |
| 2.10 | S5.7     | Are valid noise emission label(s) affixed to all hand-held breakers operating on site?         | J            |        |    |   |
| 2.11 | \$5.7    | Are valid noise emission label(s) affixed to all air compressors operating on site?            |              |        |    |   |
| 2.12 | S5.7     | Are all construction noise permit(s) applied for percussive piling work?                       |              | П      | П  |   |
| 2.13 | S5.7     | Are construction noise permit(s) applied for general construction works during                 | 1=           |        | 一  |   |
|      |          | restricted hours?  |              | V      | Ш  |   |
| 2.14 | S5.7     | Are valid construction noise permit(s) displayed at all vehicular exits?                       |              | V      |    |   |
| 3.00 |          | Water Quality  | 1            |        |    |   |
| 3.01 |          | Is effluent discharge license obtained for wastewater discharge from site?                     |              | 1      |    |   |
| 3.02 | \$6.9    | Is effluent discharged according to the effluent discharge license?                            | 一            |        | 同  |   |
| 3.02 | \$ \$6.9 | Is wastewater discharge from site properly treated prior to discharge?                         | +블           |        |    |   |
| 3.03 | 50.9     | us wastewater discharge from site property treated prior to discharge?                         |              |        |    |   |
|      |          |  |              |        |    |   |



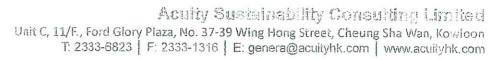
|            | COIICI   | act no. 13/443D/17 Design, Duna and Operate There age of the   | 8   |              |                   |               |
|------------|----------|--|-----|--------------|-------------------|---------------|
| tem<br>Io. | EIA ref. |  | N/A | Yes          | No                | Photo/Remarks |
| 3.04       | S6.9     | Are perimeter channels provided to intercept storm runoff from outside the site?   |     | $\sqrt{}$    |                   | be .          |
| 3.05       | S6.9     | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to   |     | 1            |                   |               |
|            |          | remove sand/silt particles from runoff?  |     | $\checkmark$ | Ш                 |               |
| 3.06       | S6.9     | Is surface runoff diverted to sedimentation facilities?  |     |              |                   |               |
| 3.07       | S6.9     | Is the drainage system properly maintained?  |     |              |                   |               |
| 3.08       | S6.9     | Are construction works carefully programmed to minimize soil excavation works  |     | <b>M</b>     | 一                 |               |
|            |          | during rainy seasons?  |     | V            | Ш                 |               |
| 3.09       |          | Are exposed soil surface protected by paving as soon as possible to reduce the   |     |              | $\overline{\Box}$ |               |
| 0.00       |          | potential of soil erosion?   |     |              |                   |               |
| 0.40       |          |  |     |              |                   |               |
| 3.10       | 86.9     | Are temporary access roads protected by crushed gravel?  |     |              | Ш                 |               |
| 3.11       | S6.9     | Are exposed slope surface properly protected?  |     |              |                   | •             |
| 3.12       | \$6.0    | Is trench excavation avoided in the wet season as far as practicable, or if necessary,   |     |              |                   |               |
| J. 12      | 50.5     | backfilled in short sections after excavation?   | V   |              |                   |               |
| 0.40       | 260      | Are open stockpiles of construction materials on site covered by tarpaulin or similar  |     |              |                   |               |
| 3.13       | \$6.9    | No. 100 and 10 |     |              |                   |               |
|            |          | fabric during construction?  |     |              |                   |               |
| 3.14       | S6.9     | Is runoff from wheel-washing facilities avoided?   |     |              |                   | -             |
| 3.15       | S6.9     | ls oil leakage or spillage prevented?  |     | V            |                   | -             |
| 3.16       | S6.9     | Are there any measures to prevent the release of oil and grease into the storm   |     |              |                   |               |
|            |          | drainage system?   |     |              | Ш                 |               |
| 3.17       | S6.9     | Are the oil interceptors/ grease traps properly maintained?  | V   |              |                   |               |
| 2 10       | \$6.9    | Are debris and rubbish generated on site collected, handled and disposed of properly   |     |              |                   |               |
| 3.10       | 30.9     | to avoid them entering the streams?  |     |              | Ш                 |               |
| 3.19       | S6.9     | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas,   |     |              |                   |               |
|            |          | within bunds of capacity equal to 110% of the storage capacity of the largest tank?  |     |              |                   |               |
| 3.20       | \$6.9    | Are tanks, containers, storage area bunded and the locations locked as far as possible   |     |              | П                 |               |
|            |          | from the sensitive watercourse and stormwater drains?  |     | V            | Ш                 |               |
| 3.21       | \$6.9    | Are sufficient chemical toilets provided on site to handle sewage from construction  |     |              |                   |               |
|            |          | work force?  |     |              |                   |               |
| 3.22       | \$6.9    | Are sewage disposal and toilet maintenance of the portable chemical toilets provided   | 1   |              |                   |               |
|            |          | by the licensed contractors?   |     | V            |                   |               |
| 3.23       | S6.9     | Is concrete washing water properly collected and treated prior to discharge?   |     |              |                   |               |
| 3 24       | \$6.9    | Is suitable type of silt curtains deployed during dredging to reduce the elevation of  | 1   |              |                   |               |
| 3.24       | 30.9     | suspended solids to nearby sensitive receivers?  | 1   | Ш            |                   |               |
| 2.00       | 060      | Is closed grab dredger used to reduce the potential leakage of sediments?  | 1   |              |                   |               |
| 3.25       | \$6.9    | is crosed grad dredger used to reduce the potential reawage of southerns.  | 1/  |              |                   |               |



|             | Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant |  |     |        |    |               |  |  |
|-------------|--|--|-----|--------|----|---------------|--|--|
| Item<br>No. | EIA ref.   |  | N/A | Yes    | No | Photo/Remarks |  |  |
| 140.        |  |  |     |        |    |               |  |  |
| 3.26        | S6.9   | Is closed grab dredger of 3 to 6 m <sup>3</sup> used for dredging at seawater intake?          |     |        |    |               |  |  |
| 0.07        |  |  |     | Ш      |    |               |  |  |
| 3.27        | \$6.9  | Is specific work staff assigned the responsibility for monitoring the number of grab           |     |        |    |               |  |  |
|             |  | dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m³ closed             |     |        |    |               |  |  |
|             |  | grab, 10-11 grab per hour for 6m <sup>3</sup> closed grab?                                     |     |        |    |               |  |  |
| 3.28        | S6.9   | Is the grab operated in slow and controlled manner such that the impact to seabed by           | . 7 | $\Box$ |    |               |  |  |
|             |  | the grab when being lowered could be minimized? Is the operator ensured the grab be            |     |        |    |               |  |  |
|             |  | properly closed before lifting the grab?   |     |        |    |               |  |  |
| 3.29        | S6.9   | Is the maximum allowed dredging rate at the seawater intake limited to 750 m <sup>3</sup> /day |     | $\Box$ |    |               |  |  |
|             |  | while the maximum allowed dredging rate at the submarine outfall is 3,500 m³/day?              |     |        |    |               |  |  |
| 3.30        | S6.9   | Is dredged marine sediment disposed of in a gazetted marine disposal area in                   |     |        |    |               |  |  |
|             |  | accordance with marine dumping permit conditions of the Dumping at Sea Ordinance               |     |        | Ш  |               |  |  |
|             |  | (DASO)?  |     |        |    |               |  |  |
| 3.31        | \$6.9  | Are disposal vessels fitted with tight bottom seals in order to prevent leakage of             |     |        |    |               |  |  |
|             |  | material during transport?   | 1/  |        |    |               |  |  |
| 3.32        | S6.9   | Are barges filled to a level which ensures that material does not spill over during            |     |        |    | VIII.         |  |  |
|             |  | transport to the disposal site and that adequate freeboard is maintained to ensure that        | 1   |        |    |               |  |  |
|             |  | the decks are not washed by wave action?   |     |        |    |               |  |  |
| .33         | S6.9   | Are excess materials cleaned from decks and exposed fittings before the vessel is              |     |        |    |               |  |  |
|             |  | moved from the dredging area after dredging?   |     |        |    | -             |  |  |
| .34         | \$6.9  | Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,             |     |        |    |               |  |  |
|             |  | litter or other objectionable matter to be present in the water within and adjacent            |     | 1      |    |               |  |  |
|             |  | to the dredging site?  |     |        |    |               |  |  |
| .35         | \$6.9  | When the dredged material has been unloaded at the disposal areas, is any material             |     |        |    |               |  |  |
| -           |  | accumulated on the deck or other exposed parts of the vessel removed and placed in             | 1   |        |    |               |  |  |
|             | 75   | the hold or a hopper?  |     |        |    |               |  |  |
| .36         | \$6.9  | Is dredger maintained adequate clearance between vessels and the seabed at all states          |     |        |    |               |  |  |
|             |  | of the tide and reduce operations speed to ensure that excessive turbidity is not              |     |        | Ш  |               |  |  |
|             |  | generated by turbulence from vessel movement or propeller wash?                                |     |        |    |               |  |  |
| .37         | 56.9   | Is the contractor shall regularly inspect the silt curtains and check that they are            |     |        |    |               |  |  |
|             |  | moored and marked to avoid danger to marine traffic? Is regular inspection on the              |     |        |    |               |  |  |
|             |  | integrity of the silt curtain carried out by the contractor and any damage to the silt         |     |        |    |               |  |  |
|             |  | curtain shall be repaired by the contractor promptly?  |     |        |    |               |  |  |
| .38         | 56.9   | Are all vessels have a clean ballast system?   |     |        |    |               |  |  |
|             |  |  |     | V      | Ш  |               |  |  |
| 39          | 66.9   | Are all vessels well maintained and inspected before use to limit any potential                |     |        |    |               |  |  |
|             |  | discharges to the marine environment?  |     | V      |    |               |  |  |
| 40          | 66.9   | Is any discharge of sewage/grey wastewater? Is wastewater from potentially                     |     |        |    |               |  |  |
|             |  | contaminated area on working vessels should be minimized and collected?                        | V   |        |    |               |  |  |
| 41 5        |  | Is any soil waste disposed overboard?  |     |        |    |               |  |  |
|             |  |  |     |        |    |               |  |  |
|             |  |  | -   |        |    |               |  |  |
|             |  |  |     |        |    |               |  |  |
|             |  |  |     |        |    |               |  |  |



| Item | EIA ref. |   | N/A          | Yes     | No | Photo/Remarks |
|------|----------|---|--------------|---------|----|---------------|
| No.  |          |   |              |         |    |               |
| 4.00 |          | Waste Management  |              | ***     |    |               |
| 4.01 | S8.5     | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at        |              |         |    |               |
|      |          | public filling facilities and landfills?  |              |         |    |               |
|      |          |   |              |         |    |               |
| 4.02 | S8.5     | Is a recording system implemented to record the amount of wastes generated, recycled and      |              | 1./     |    |               |
|      |          | disposed of?  |              |         |    |               |
| 4.03 | S8.5     | IS the Contractor registered as a chemical waste producer?                                    |              |         |    |               |
|      |          |   | Ш            |         |    |               |
| 4.04 | S8.5     | Are chemical waste separated from other waste and collected by a licensed chemical waste      |              | . 7     |    |               |
|      |          | collector?  |              |         |    |               |
| 4.05 | S8.5     | Are trip tickets for chemical waste disposal available for inspection?                        |              |         |    |               |
|      |          |   |              |         | Ш  |               |
| 4.06 | S8.5     | Is chemical waste reused and recycled on site as far as practicable?                          |              |         |    |               |
|      |          |   |              | 1/      |    |               |
| 4.07 | S8.5     | Are all containers for chemical waste properly labelled?                                      |              |         |    |               |
|      |          |   |              | +/      |    |               |
| 4.08 | S8.5     | Is chemical waste storage area used solely for storage of chemical waste and properly         |              |         | П  |               |
|      |          | labelled?   |              | V       |    |               |
| 4.09 | S8.5     | Are incompatible chemical wastes stored in different areas?                                   |              |         |    |               |
|      |          |   |              |         |    |               |
| 4.10 | S8.5     | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?    |              |         |    |               |
|      |          | ,   |              |         |    |               |
| 4.11 | S8.5     | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of         |              | <u></u> |    |               |
|      | 00.0     | the largest container or of 20% by volume of the chemical waste stored in that area,          |              |         |    |               |
|      |          | whichever is the greatest, provide?   |              |         |    |               |
| 4.12 | S8.5     | Are a routine cleaning and maintenance programme implemented for drainage systems,            |              | П       |    |               |
|      |          | sump pits, and oil interceptors?  |              |         |    |               |
| 4.13 | S8.5     | Are sufficient general refuse disposal/collection points provided on site?                    | F            |         |    |               |
|      |          |   | Ш            | /       |    |               |
| 4.14 | S8.5     | Is general refuse disposed of properly and regularly?   |              |         |    | 0 1 1         |
|      |          |   |              |         |    | Reminder      |
| 4.15 | S8.5     | Are appropriate measures adopted to minimize windblown litter and dust during                 |              |         |    | <del></del>   |
|      |          | transportation of waste?  |              | 1/      |    |               |
| 4.16 | 58.5     | Are individual collectors for aluminum cans, plastic bottles and packaging material and       |              |         |    |               |
| "    | 00.5     | office paper provided to encourage waste segregation?   |              | V       | Ш  |               |
| 4.17 | 005      | Are C&D wastes sorted on site?  |              |         | _  | -             |
| 3.17 | 36.3     | Are Cold wastes sorted on site?   |              | V       |    |               |
| 4.18 | 005      | Ara C&D wasta dispased of preparate?  | <del> </del> |         |    |               |
| 4.10 | 36.3     | Are C&D waste disposed of properly?   |              | V       |    |               |
| 1.15 | 00.5     |   |              |         |    |               |
| 4.19 | S8.5     | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of            |              |         |    |               |
|      |          | waste?  |              |         |    |               |
| 4.20 | S8.5     | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? |              | 1       |    |               |
|      | l        |   |              |         |    |               |



| Item | EIA ref.  | The state of the s | Curig Hill | 0 00     | Julillatic | on that       |
|------|-----------|--|------------|----------|------------|---------------|
| No.  |           |  | N/A        | Yes      | No         | Photo/Remarks |
| 140. | 4         |  |            |          |            |               |
| _    |           |  |            |          |            |               |
| 4.21 | S8.5      | Are the construction materials stored properly to minimize the potential for damage or   |            |          |            |               |
|      |           | contamination?   | Ш          | $\vee$   |            | -             |
| 4.22 | S8.5      | Is a dumping license obtained to deliver public fill to public filling areas?  |            | 1        |            |               |
| 1    |           |  |            |          |            |               |
| 5.00 |           | Landscape and Visual   |            |          |            |               |
|      | \$11.10   |  |            |          |            |               |
| 3.01 |           | Are Is site hoarding provided?   |            |          |            |               |
|      | & 11.11   |  | V          |          |            |               |
| 5.02 |           | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?   |            |          |            |               |
|      | 11.11     |  |            |          |            |               |
| 5.03 | S11.10 &  | Is construction light oriented away from the sensitive receivers?  |            |          |            |               |
| 1    | 11.11     |  | 1          |          |            |               |
| 5.04 | S11.10    | Is grass hydroseeding provided to slopes as soon as the completion of works?   |            |          |            |               |
|      | & 11.11   | S and state of works:  |            |          |            |               |
| 5.05 | \$11.10.8 | Ass downsors to the second sec |            |          | <u> </u>   | -             |
| 3.03 | 11.11     | Are damages to trees outside site boundary due construction works avoided?   |            |          |            |               |
|      |           |  |            |          | Ш          | -             |
| 5.06 |           | Is excavation works carried out manually instead of machinery operation within 2.5m  |            |          |            |               |
|      | 11.11     | vicinity of any preserved trees?   |            |          |            |               |
| 5.07 | S11.10 &  | Are the retained and transplanted tree(s) properly protected and in good conditions?   | <u> </u>   |          |            |               |
|      | 11.11     | 2  |            |          |            |               |
| 5.08 | S11.10 &  | Are surgery works carried out for damaged trees?   |            |          |            |               |
|      | 11.11     | ,  | 1          |          |            |               |
| 6.00 |           | Ecology  |            |          |            |               |
| 6.01 |           |  |            |          |            |               |
| 0.01 | 37.7      | Is site runoff properly treated to prevent any silly runoff?   |            | <b>/</b> |            |               |
|      |           |  |            |          | Ш          |               |
| 6.02 | S9.7      | Are silt trap installed and well-maintained?   |            | [7]      |            |               |
|      |           |  | Ш          |          |            | •             |
| 6.03 | S9.7      | Are stockpiles properly covered to avoid generating silty runoff?  |            |          |            |               |
|      |           |  | \/         |          |            |               |
| 6.04 | \$9.7     | Are construction works restricted to works area which are clearly defined?   |            |          |            |               |
|      |           | to note and mineral defined?   |            | 1/       |            |               |
| 6.05 | S9.7      | For slone mitigation works within the Class W. D. C.   |            |          |            |               |
| 0.00 |           | For slope mitigation works within the Clear Water Bay Country Park, are tree felling and   |            |          |            | ***           |
|      |           | damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and  | V          | $\Box$   | Ш          |               |
|      |           | rock dowels adjusted during detailed design, and a setback distance from existing trees is   |            |          |            |               |
| 0.00 |           | recommended to be maintained as far as practical?  |            | 0        |            | www.          |
| 6.06 |           | Are pruning of tree canopies along the alignment of the flexible barriers limited to a   |            |          |            |               |
|      |           | minimum?   |            |          |            |               |
| 6.07 | S9.7      | Are the alignment of flexible barriers optimized to preserve all species of conservation   |            |          |            |               |
|      |           | interest and minimize the impact to the existing vegetation as far as practicable? Are the   | $\sqrt{}$  |          |            |               |
|      |           | alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these  |            | 35       | 0          |               |
|      |           | individuals?   |            |          |            |               |
| 6.08 | S9.7      | At the detailed design stage prior to the commencement of the slope mitigation works, is   |            |          |            |               |
|      |           | vegetation survey carried out at the slope mitigation areas within the Clear Water Bay   |            | 1        |            |               |
|      |           |  |            | -        |            |               |



| Item | EIA ref. |  | N/A | Yes          | No       | Photo/Remarks                         |
|------|----------|--|-----|--------------|----------|---------------------------------------|
| No.  |          |  |     |              |          |                                       |
|      | 1        | Country Park to assess the condition and identify the location of each individual of   |     |              |          |                                       |
|      |          | Marsdenia lachnostoma and other flora species of conservation interest that may be directly  |     |              |          |                                       |
|      |          | affected by the construction works?  |     |              |          |                                       |
| 6.09 | S9.7     | Is temporary fencing installed to fence off the concerned species either in groups of  |     |              |          |                                       |
|      |          | individually within the works area and in the close proximity to prevent from being  |     |              |          |                                       |
|      |          | damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations? |     |              |          |                                       |
| 6.10 | \$9.7    | Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or  |     |              |          |                                       |
|      |          | other flora species of conservation interest, if found) adjacent to the proposed alignment of  |     | 1            |          |                                       |
|      |          | the flexible barriers prepared to protect the species?   |     | -0-          |          |                                       |
| 6.11 | S9.7     | Is any induction training provided to all site personnel in order to brief them on this flora of   |     |              |          |                                       |
|      |          | conservation interest including the locations and their importance?  |     | 1/           | Ш        |                                       |
| 6.12 | S9.7     | Is the resident site supervisory staff closely monitor the conditions of concerned   |     |              |          |                                       |
|      |          | individuals during construction of flexible barriers in the close proximity?   |     |              | Ш        |                                       |
| 6.13 | S9.7     | Are fences erected along the boundary of the works area before the commencement of   | T   | 1            | $\Box$   |                                       |
|      |          | works to prevent vehicle movements and encroachment of personnel onto adjacent areas?  |     | V            | Ш        | -                                     |
| 6.14 | S9.7     | Is regular check of the work site boundaries performed to ensure that they are not breached  |     |              |          |                                       |
|      |          | and that damage does not occur to surrounding areas?   |     |              | Ш        |                                       |
| 6.15 | S9.7     | Is any damage and disturbance avoided, particularly those caused by filling and illegal  |     |              |          |                                       |
|      |          | dumping, to the surrounding habitats through proper management of waste disposal?  |     | V            | <u>Ш</u> |                                       |
| 6.16 | S9.7     | Are temporarily affected areas reinstated, particularly the habitats of plantation and   |     |              | П        |                                       |
|      |          | shrubland-grassland immediately after completion of construction works, through on-site  |     | <u></u>      | <u> </u> |                                       |
| 6.15 | 907      | tree/shrub planting?  Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding   |     |              |          | · · · · · · · · · · · · · · · · · · · |
| 0.15 | D9./     | and planting of climbers and native shrub seedlings where practical upon completion of the   |     |              |          |                                       |
|      |          | slope mitigation works?  |     |              |          |                                       |
| 7.00 |          | Landfill Gas Hazard  |     |              |          |                                       |
| 7.01 | S12.7    | Are the safety procedures implemented to minimise the risks of fires and explosions,   |     |              |          |                                       |
|      |          | asphyxiation of works and toxicity effects during all works?   |     | لكيا         | لـــا    | 4                                     |
| 7.02 | S12.7    | Are the gas detection equipment and precautions being used during trenching and  |     |              |          | 3.30                                  |
|      |          | excavation as well as creation of confined spaces?   |     |              |          |                                       |
|      |          |  |     |              | ш        |                                       |
| 7.03 | S12.7    | Are the training with regard to the awareness of potential hazards of working in   |     | · · ·        |          |                                       |
|      |          | confined spaces provided from the Contractor to the workers?   |     |              |          |                                       |
|      |          | ,  |     | نست          |          |                                       |
| 7.04 | S12.7    | Are the safety officers trained with regard to landfill gas and leachate related hazards   |     | ,            |          |                                       |
|      |          | and presented on the site throughout the works undertaken below grade?   |     |              |          |                                       |
|      |          | *  |     |              |          |                                       |
| 7.05 | S12.7    | Are the all personnel working on site and all visitor made aware of the possibility of   |     |              |          |                                       |
|      |          | ignition of gas, the possible presence of contaminated water and the need to avoid   |     |              |          | 122                                   |
|      |          | physical contact?  |     | brenting and |          |                                       |
|      |          |  |     |              |          |                                       |
|      |          |  |     |              |          |                                       |
|      |          |  |     |              |          |                                       |



| Item | EIA ref. |   | N/A | Yes | No | Photo/Remarks |
|------|----------|---|-----|-----|----|---------------|
| No.  |          |   |     |     |    |               |
| 7.06 | \$12.7   | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?  |     |     |    |               |
| 7.07 | S12.7    | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?                          |     |     |    |               |
| 7.08 | S12.7    | Is the drilling proceeded with adequate care and precautions against the potential hazards?   |     |     |    |               |
| 7.09 | S12.7    | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?   |     |     |    |               |
| 7.10 | S12.7    | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?  |     |     |    |               |
| 7.11 | S12.7    | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? |     |     |    |               |
| 7.12 | S12.7    | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?  |     |     |    |               |
| 8.00 |          | Overall   |     | /   |    |               |
| 8.01 |          | Is the EM&A properly implemented in general?  |     |     |    |               |



| Remark / Follow up of Observ | ration(s) and Non-complian     | ice(s) of Last Weekly Site In        | spection:                               |                         |
|------------------------------|--------------------------------|--------------------------------------|---|-------------------------|
| Reminden (1) Remove gom      |                                |                                      |   | ot DetiDATT.            |
|                              |                                |                                      |   |                         |
| ·                            | 3                              | 9                                    |   |                         |
| es.                          |                                |                                      |   |                         |
|                              |                                |                                      |   | ,                       |
|                              |                                |                                      |   |                         |
| Signatures:                  |                                |                                      |   |                         |
| ET<br>Representative         | Contractor's<br>Representative | Supervising Officer's Representative | IEC's<br>Representative                 | WSD's<br>Representative |
| (Mame: Stukk HMAKH)          | (Name: Titley Tsy)             | (Name: Rosmand                       | (Name: Louis)                           | (Name: )                |
|                              |                                | lou                                  | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                         |



### Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

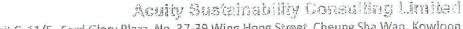
### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspect     | ion Date: | 19/4/2022 Inspected by: ET: Jacky Leuna Contractor, Ms. William Today                    | so: Mr. R  | symonel in Kw | kok wso:          |                |
|-------------|-----------|--|------------|---------------|-------------------|----------------|
| Inspect     | ion Time: | 14.50 - 16.00  |            |               |                   |                |
| Weath       | er        |  |            |               |                   |                |
| Condi       | tion      | Sunny Fine Dvercast Drizzle Rain   | Storm      | Haz           | y                 |                |
|             | erature   | Do C Humidity L High Moderate L  | Low        |               |                   | *              |
| Wind        |           | Calm Jight Breeze Strong   |            |               |                   |                |
|             | CIA C     |  | N/A        | Yes           | No                | Photo/Remarks  |
| ltem        | EIA ref.  |  | N/A        | 165           | 140               | T HOTO/Remarks |
| No.         |           |  |            |               |                   |                |
| 0.00        |           | General  |            | $\overline{}$ |                   |                |
| 0.01        |           | Is the current Environmental Permit displayed conspicuously at all vehicle site          |            |               |                   |                |
|             |           | entrances/exits for public's information at any time?                                    |            |               |                   |                |
| 0.02        |           | Is ET Leader's log-book kept readily available for inspections?                          |            |               | $\overline{\Box}$ |                |
|             |           |  |            | $\checkmark$  |                   |                |
|             |           |  | ,          |               |                   |                |
| 1.90        |           | Construction Dust  |            | $\overline{}$ |                   |                |
| 1.01        | 1         | Are dusty materials, such as excavated materials, building debris and construction       |            |               |                   |                |
|             |           | materials, and exposed earth surface properly covered to prevent dust emission?          |            | -0-           |                   |                |
| 1.02        | S4.8.1    | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to        |            | /             |                   |                |
|             |           | dusty construction works for dust suppression?   |            |               |                   |                |
|             |           | · ·  |            | $\vee$        | Ш                 |                |
|             |           |  |            |               |                   |                |
| 1.03        | S4.8.1    | Are fumes or smoke emitting plants or construction activities shielded by a screen?      | -          | _             |                   |                |
|             |           |  | $  \vee  $ |               |                   |                |
|             |           |  |            |               | parameter 1       |                |
| 1.04        | \$4.8.1   | Are wheel-washing facilities with high-pressure water jets provided at all site exits?   |            |               |                   |                |
|             |           |  |            | $\checkmark$  |                   | P              |
| 1.05        | \$4.8.1   | Is wheel-washing provided to all vehicles leaving the site?                              |            |               |                   |                |
|             |           | <u> </u>   |            | $\bigvee$     |                   |                |
| 1.06        | \$4.8.1   | Are road section near the site exit free from dusty material?                            |            | <u> </u>      | $\overline{}$     |                |
|             | 54.6.1    | and road socion near the site out need from easily material.                             |            |               |                   |                |
| 1.07        | S4.8.1    | Are all main haul roads inside the site paved or sprayed with water to minimize dust     |            |               | $\overline{}$     |                |
|             |           | emission during vehicle movement?  |            | Ш             |                   |                |
| 1.00        | 6401      | J  |            |               |                   |                |
| 1.08        | S4.8.1    | Are water spraying provided immediately prior to any loading or transfer of dusty        |            |               |                   |                |
|             |           | materials?   |            |               |                   |                |
| 1.09        | S4.8.1    | Are covers provided to all dump trucks carrying dusty materials when entering and        | 1.7        |               |                   |                |
|             |           | leaving the site?  |            | Ш.            |                   |                |
| 1.10        | S4.8.1    | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of    |            |               |                   |                |
|             | 1         | boulders, poles, pillars sprayed with water to maintain the entire surface wet?          |            |               | $\Box$            |                |
| 1.11        | \$4.8.1   | is exposed earth properly treated within six months after the last construction activity |            | $\Box$        | $\overline{\Box}$ | ****           |
| onvoide (5) |           | on site?   |            |               |                   |                |
| 1.12        | \$4.8.1   | Does the operation of plants on site free form dark smoke emission?                      | -          | -             |                   |                |
| 2           | 77.0.1    | 2000 the operation of plants on site free form dark shows emission.                      |            | 0             |                   |                |
|             |           |  |            |               |                   |                |
| _           |           | A  |            |               |                   |                |

|      |          | ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts  | -   | in O De | salinati | on Plant      |
|------|----------|---|-----|---------|----------|---------------|
| No.  | EIA ref. |   | N/A | Yes     | No       | Photo/Remarks |
| 1.13 | S4.8.1   | Are vehicles travelling at speed not exceeding 15km/hr within the site?   |     | Ø       |          | •             |
| 1.14 | S4.8.1   | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?                      |     |         |          |               |
| 1.15 | S4.8.1   | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?                    | 1   |         |          |               |
| .16  | S4.8.1   | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?     | V   |         |          |               |
| .17  | S4.8.1   | Is open burning prohibited?   |     | V       |          |               |
| 2.00 |          | Construction Noise (Airborne)   |     |         | ******   |               |
| 2.01 |          | Are quiet plants adopted on site?   |     |         |          |               |
| 2.02 | 85.7     | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?                     |     |         |          |               |
| 2.03 |          | Are plants throttled down or turned off when not in use?  |     |         |          |               |
| 2.04 | S5.7     | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?                     |     |         |          |               |
| 2.05 | S5.7     | Are moveable barriers provided to screen NSRs from plant or noisy operations?                                     |     |         |          |               |
| 2.06 |          | Are silencers, mufflers and enclosures provided to plants?  |     |         |          |               |
| 2.07 |          | Are the hoods, cover panels and inspection hatches of PMEs closed during operation?                               |     |         |          |               |
| 2.08 | S5.7     | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?       |     |         |          |               |
| 2.09 | S5.7     | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? |     | V       |          |               |
| 2.10 |          | Are valid noise emission label(s) affixed to all hand-held breakers operating on site?                            | V   |         |          |               |
| 2.11 |          | Are valid noise emission label(s) affixed to all air compressors operating on site?                               |     |         |          |               |
| 2.12 |          | Are all construction noise permit(s) applied for percussive piling work?  |     |         |          |               |
| 2.13 |          | Are construction noise permit(s) applied for general construction works during restricted hours?                  |     |         |          |               |
| 2.14 | S5.7     | Are valid construction noise permit(s) displayed at all vehicular exits?  |     | V       |          |               |
| 3.00 | S6.9     | Water Quality  Is effluent discharge license obtained for wastewater discharge from site?                         |     |         | П        |               |
| 3.02 | S6.9     | Is effluent discharged according to the effluent discharge license?   | 一一  |         | 님        |               |
| 3.03 | S6.9     | Is wastewater discharge from site properly treated prior to discharge?  | 一一  |         | 一        |               |



| Itor        | FIA      | Tact No. 15/WSD/17 Design, Build and Operate First Stage of To   | seung Kw | an O De         | salinati |               |
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| Item<br>No. | EIA ref. |  | N/A      | Yes             | No       | Photo/Remarks |
| 3.04        | S6.9     | Are perimeter channels provided to intercept storm runoff from outside the site?   |          | V               |          |               |
| 3.05        | S6.9     | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to   |          |                 | 一一       |               |
|             |          | remove sand/silt particles from runoff?  |          |                 | Ш        |               |
| 3.06        | \$6.9    | Is surface runoff diverted to sedimentation facilities?  |          |                 |          |               |
| 3.07        | \$6.9    | Is the drainage system properly maintained?  |          |                 | П        |               |
| 3.08        | \$6.9    | Are construction works carefully programmed to minimize soil excavation works  |          |                 |          | -             |
|             |          | during rainy seasons?  |          |                 |          |               |
| 3.09        | \$6.9    | Are exposed soil surface protected by paving as soon as possible to reduce the   |          |                 |          |               |
|             |          | potential of soil erosion?   |          | V               |          |               |
| 3.10        | S6.9     | Are temporary access roads protected by crushed gravel?  |          |                 |          |               |
| 0.44        |          |  | Ш        |                 |          |               |
| 3.11        | S6.9     | Are exposed slope surface properly protected?  |          |                 |          | ,             |
| 3.12        | S6.9     | Is trench excavation avoided in the wet season as far as practicable, or if necessary,   |          |                 |          |               |
|             | =        | backfilled in short sections after excavation?   |          |                 |          |               |
| 3.13        | S6.9     | Are open stockpiles of construction materials on site covered by tarpaulin or similar  |          |                 |          |               |
|             |          | fabric during construction?  |          |                 |          |               |
| 3.14        | S6.9     | ls runoff from wheel-washing facilities avoided?   |          | V               |          |               |
| 3.15        | S6.9     | is oil leakage or spillage prevented?  |          |                 |          | Reminder      |
| 3.16        |          | Are there any measures to prevent the release of oil and grease into the storm drainage system?  |          | $\sqrt{}$       |          |               |
| .17         |          | Are the oil interceptors/ grease traps properly maintained?  | V        |                 |          |               |
| .18         |          | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?   |          |                 |          | Reminder >    |
| .19         | 1        | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? |          | V               |          |               |
| .20         | \$6.9    | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?                               | П        |                 | П        |               |
| .21         |          | Are sufficient chemical toilets provided on site to handle sewage from construction  |          | <del></del>     | ᆜ        |               |
|             | 1        | work force?  |          |                 |          |               |
| .22         | 66.9     | Are sewage disposal and toilet maintenance of the portable chemical toilets provided   |          | <del>-/</del> 1 |          |               |
|             | į.       | by the licensed contractors?   |          | V               |          |               |
| .23         |          | s concrete washing water properly collected and treated prior to discharge?  |          |                 |          |               |
| .24         |          | s suitable type of silt curtains deployed during dredging to reduce the elevation of   | 7        |                 |          |               |
| 25          |          | suspended solids to nearby sensitive receivers?  | ليكا     | Ш               | Ш        |               |
| .25         | 56.9 I   | s closed grab dredger used to reduce the potential leakage of sediments?   |          |                 |          |               |



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Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Photo/Remarks Item Nο Is closed grab dredger of 3 to 6 m<sup>3</sup> used for dredging at seawater intake? 3.26 S6.9 Is specific work staff assigned the responsibility for monitoring the number of grab 3.27 \$6.9 dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m3 closed grab, 10-11 grab per hour for 6m3 closed grab? Is the grab operated in slow and controlled manner such that the impact to seabed by 3.28 \$6.9 the grab when being lowered could be minimized? Is the operator ensured the grab be properly closed before lifting the grab? Is the maximum allowed dredging rate at the seawater intake limited to 750 m<sup>3</sup>/day 3.29 \$6.9 while the maximum allowed dredging rate at the submarine outfall is 3,500 m³/day? Is dredged marine sediment disposed of in a gazetted marine disposal area in 3.30 \$6.9 accordance with marine dumping permit conditions of the Dumping at Sea Ordinance 3.31 S6.9 Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport? 3.32 S6.9 Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action? Are excess materials cleaned from decks and exposed fittings before the vessel is 3.33 S6.9 moved from the dredging area after dredging? Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, 3.34 \$6.9 litter or other objectionable matter to be present in the water within and adjacent to the dredging site? When the dredged material has been unloaded at the disposal areas, is any material 3.35 \$6.9 accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper? 3.36 \$6.9 Is dredger maintained adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash? 3.37 \$6.9 is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly? 3.38 \$6.9 Are all vessels have a clean ballast system? 3.39 \$6.9 Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment? Is any discharge of sewage/grey wastewater? Is wastewater from potentially 3.40 \$6.9 contaminated area on working vessels should be minimized and collected? 3.41 \$6.9 Is any soil waste disposed overboard?



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|-------------|----------|---|-----------|----------------------|----------|---------------|
| item<br>No. | EIA ref. |   | N/A       | Yes                  | No       | Photo/Remarks |
| 4.00        |          | Waste Management  |           |                      |          |               |
| 4.01        | 585      | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at  |           |                      |          |               |
|             | 36.3     |   |           |                      |          |               |
| 1           | j        | public filling facilities and landfills?  |           | V                    |          |               |
|             |          |   |           |                      |          |               |
| 4.02        | S8.5     | Is a recording system implemented to record the amount of wastes generated, recycled and  |           | 7                    |          |               |
|             |          | disposed of?  |           | 1//                  |          |               |
| 100         | 22.5     | •   |           |                      |          |               |
| 4.03        | 58.5     | IS the Contractor registered as a chemical waste producer?  |           |                      |          |               |
|             |          |   |           | V                    |          |               |
| 4.04        | \$8.5    | Are chemical waste separated from other waste and collected by a licensed chemical waste  |           | -                    |          |               |
| •           | 50.5     |   |           |                      |          |               |
|             | l        | collector?  |           |                      |          |               |
| 4.05        | S8.5     | Are trip tickets for chemical waste disposal available for inspection?  |           |                      |          |               |
|             |          | •   |           | 1. /                 |          |               |
|             |          |   |           |                      | ш        | -             |
| 4.06        | S8.5     | Is chemical waste reused and recycled on site as far as practicable?  |           |                      |          |               |
|             |          |   |           | $ \vee $             |          |               |
| 10=         |          |   |           |                      |          |               |
| 4.07        | S8.5     | Are all containers for chemical waste properly labelled?  |           |                      |          |               |
|             |          |   |           |                      |          |               |
| 4.08        | 00.5     | Is showing worth others are used salely for the second salely for |           |                      |          |               |
| 4.00        | 30.3     | Is chemical waste storage area used solely for storage of chemical waste and properly   |           | . /                  |          | 1             |
|             |          | labelled?   |           | $\cup$               |          |               |
| 4.09        | C 2 5    | Are incompatible chemical wastes stored in different areas?   |           |                      |          |               |
| 4.00        | 50.5     | Are incompanie chemical wastes stored in different areas?   |           | .7                   |          |               |
|             |          |   |           | V                    |          |               |
| 4.10        | S8.5     | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?  |           |                      |          |               |
|             |          |   |           | 1/                   |          |               |
|             |          |   |           |                      |          |               |
| 4.11        | S8.5     | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of   |           |                      |          |               |
|             |          | the largest container or of 20% by volume of the chemical waste stored in that area,  |           | V                    |          |               |
|             |          | whichever is the greatest, provide?   |           | 1. To Carlo S. 1992. |          |               |
|             |          |   |           |                      |          |               |
| 4.12        | S8.5     | Are a routine cleaning and maintenance programme implemented for drainage systems,  |           |                      |          |               |
|             |          | sump pits, and oil interceptors?  |           |                      |          |               |
| 4.13        | 58.5     | Are sufficient general refuse disposal/collection points provided on site?  |           |                      |          |               |
| 7.10        | 50.5     | wite sufficient general feruse disposarcoffection points provided on site?  |           |                      |          |               |
|             |          |   |           |                      |          |               |
| 4.14        | S8.5     | Is general refuse disposed of properly and regularly?   |           |                      |          | 2 1           |
|             |          |   | 1 1       | 1/                   |          | Reminder)     |
|             |          |   |           |                      |          | 7979          |
| 4.15        | S8.5     | Are appropriate measures adopted to minimize windblown litter and dust during   |           |                      |          |               |
|             |          | transportation of waste?  |           | LA                   |          |               |
| 4.40        |          |   |           |                      |          |               |
| 4.16        |          | Are individual collectors for aluminum cans, plastic bottles and packaging material and   |           |                      |          |               |
|             |          | office paper provided to encourage waste segregation?   |           |                      | Ш        |               |
| 4.17        | S8.5     | Are C&D wastes sorted on site?  |           |                      |          |               |
|             |          | The Cost Musics sorted on site:   |           |                      |          |               |
|             |          |   |           | V                    |          |               |
| 4.18        | S8.5     | Are C&D waste disposed of properly?   |           |                      |          |               |
|             |          |   |           | $\vee$               |          |               |
|             |          |   |           | I                    |          |               |
| 4.19        | S8.5     | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of  |           |                      |          |               |
|             |          | waste?  | V         |                      |          |               |
| 4.20        | C8 5     | Are public fill and C&D   |           | <del></del>          |          |               |
| 7.20        | U.0.J    | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?   |           |                      |          |               |
|             |          |   |           | لكذا                 |          |               |
|             |          |   |           |                      |          |               |



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| ltem<br>No. | EIA ref.          |  | N/A          | Yes       | No     | Photo/Remarks |
|             | 1                 |  |              |           |        |               |
| 4.21        | S8.5              | Are the construction materials stored properly to minimize the potential for damage or contamination?  |              |           |        |               |
| 4.22        | S8.5              | ls a dumping license obtained to deliver public fill to public filling areas?  |              |           |        |               |
| 5.00        |                   | Landscape and Visual   |              |           |        |               |
| 5.01        |                   | Are Is site hoarding provided?   |              |           |        |               |
|             | & 11.11           |  |              | Ц         | Ш      |               |
| 5.02        | S11.10 &          | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?   |              |           |        |               |
| 5.03        | S11.10 &          | Is construction light oriented away from the sensitive receivers?  | V            |           |        |               |
| 5.04        | S11.10<br>& 11.11 | Is grass hydroseeding provided to slopes as soon as the completion of works?   |              | $\square$ |        |               |
|             | S11.10 &<br>11.11 | Are damages to trees outside site boundary due construction works avoided?   |              |           |        |               |
| 5.06        | S11.10 &          | Is excavation works carried out manually instead of machinery operation within 2.5m  |              |           |        |               |
|             | 11.11             | vicinity of any preserved trees?   | $\checkmark$ | Ш         |        |               |
|             | S11.10 &          | Are the retained and transplanted tree(s) properly protected and in good conditions?   |              | V         |        |               |
| 5.08        | S11.10 &          | Are surgery works carried out for damaged trees?   |              |           |        |               |
|             | 11.11             | and the same of th |              |           |        |               |
| 6.00        |                   | Ecology  |              |           |        |               |
| 6.01        | S9.7              | is site runoff properly treated to prevent any silly runoff?   |              |           |        |               |
| 6.02        |                   | Are silt trap installed and well-maintained?   |              |           |        |               |
| 6.03        |                   | Are stockpiles properly covered to avoid generating silty runoff?  |              |           |        |               |
| 6.04        |                   | Are construction works restricted to works area which are clearly defined?   |              |           |        |               |
| 6.05        |                   | For slope mitigation works within the Clear Water Bay Country Park, are tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical?  |              |           |        |               |
| 6.06        | \$9.7             | Are pruning of tree canopies along the alignment of the flexible barriers limited to a   |              |           |        |               |
|             |                   | minimum?   | V            |           |        |               |
| 6.07        |                   | Are the alignment of flexible barriers optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable? Are the alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these individuals?  | 11.          |           |        |               |
| 6.08        | S9.7              | At the detailed design stage prior to the commencement of the slope mitigation works, is   |              |           |        |               |
|             |                   | vegetation survey carried out at the slope mitigation areas within the Clear Water Bay   |              |           |        |               |



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| Item<br>No.  | EIA ICI. |  | N/A               | Yes | No | Photo/Remarks  |
|              |          | Country Park to assess the condition and identify the location of each individual of Marsdenia lachnostoma and other flora species of conservation interest that may be directly affected by the construction works?   | ,                 |     |    |  |
| 6.09         | S9.7     | Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations? |                   |     |    |  |
| 6.10         | S9.7     | Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or<br>other flora species of conservation interest, if found) adjacent to the proposed alignment of<br>the flexible barriers prepared to protect the species?   |                   |     |    |  |
| 6.11         | S9.7     | Is any induction training provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance?   |                   |     |    |  |
| 6.12         | S9.7     | Is the resident site supervisory staff closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity?  |                   |     |    |  |
| 6.13         | S9.7     | Are fences erected along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas?   |                   |     |    |  |
| 6.14         | S9.7     | Is regular check of the work site boundaries performed to ensure that they are not breached and that damage does not occur to surrounding areas?   |                   | V   |    |  |
| 6.15         | S9.7     | Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?  |                   | V   |    |  |
| 6.16         | S9.7     | Are temporarily affected areas reinstated, particularly the habitats of plantation and<br>shrubland-grassland immediately after completion of construction works, through on-site<br>tree/shrub planting?  |                   | Ø   |    |  |
| 6.15         | S9.7     | Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding<br>and planting of climbers and native shrub seedlings where practical upon completion of the<br>slope mitigation works?  |                   |     |    |  |
| 7.00<br>7.01 | S12.7    | Landfill Gas Hazard  Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?   |                   |     |    |  |
| 7.02         | S12.7    | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?   |                   | V   |    |  |
| 7.03         | S12.7    | Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?  |                   |     |    |  |
| 7.04         | S12.7    | Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?  |                   |     |    | ***************************************  |
| 7.05         | S12.7    | Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?  |                   | Ø   |    |  |
|              |          |  |                   |     |    |  |



| Item | EIA ref. |   | N/A | Yes                      | No | Photo/Remarks                         |
|------|----------|---|-----|--------------------------|----|---------------------------------------|
| No.  |          |   |     |                          |    |                                       |
| 7.06 | \$12.7   | is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?  |     |                          |    |                                       |
| 7.07 | S12.7    | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?                          |     |                          |    |                                       |
| 7.08 | S12.7    | is the drilling proceeded with adequate care and precautions against the potential hazards?   |     | $\overline{\mathcal{L}}$ |    |                                       |
| 7.09 | S12.7    | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?   |     | $\square$                |    | -                                     |
| 7.10 | S12.7    | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?  |     |                          |    |                                       |
| 7.11 | S12.7    | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? |     | V                        |    |                                       |
| 7.12 | S12.7    | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?  |     |                          |    |                                       |
| 8.00 |          | Overall   |     | 7                        |    | · · · · · · · · · · · · · · · · · · · |
| 8.01 |          | Is the EM&A properly implemented in general?  |     |                          |    |                                       |



| Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: |                       |                       |                |                |  |  |  |  |  |
|--|-----------------------|-----------------------|----------------|----------------|--|--|--|--|--|
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|  |                       |                       |                |                |  |  |  |  |  |
| Signatures:  |                       |                       |                |                |  |  |  |  |  |
|  |                       |                       |                |                |  |  |  |  |  |
| ET   | Contractor's          | Supervising Officer's | IEC's          | WSD's          |  |  |  |  |  |
| Representative   | Representative        | Representative        | Representative | Representative |  |  |  |  |  |
|  | $\bigcirc . \bigcirc$ |                       | XXX            |                |  |  |  |  |  |
| (Nome:   | Olomos Tillo To       | Oleman of G           | (Name: Mys)    | Olama:         |  |  |  |  |  |
| HULL HUNGARO   | (Name: Tillany Tsay)  | (Name:                | (Name: NAM)    | (Name:         |  |  |  |  |  |
|  |                       | 2                     | man            |                |  |  |  |  |  |
|  |                       | lok                   | ,              |                |  |  |  |  |  |



## Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspection Time: Grand Time: Contractor: MS. Grand Time: IEC: MY. Louis Kuran  Weather Condition Sunny Fine Overcast Drizzle Rain Storm Hazy  Temperature M. C Humidity High Moderate Low  Wind Calm Light Breeze Strong  Item EIA ref. No. Photo/Remarks  |
|--|
| Condition Sunny Fine Overcast Drizzle Rain Storm Hazy  Temperature 1 C Humidity High Moderate Low  Wind Calm Light Breeze Strong  Item EIA ref. N/A Yes No Photo/Remarks   |
| Temperature  |
| Wind Calm Light Breeze Strong  [tem EIA ref. N/A Yes No Photo/Remarks  |
| Item EIA ref. N/A Yes No Photo/Remarks   |
| The state of the s |
| The state of the s |
| No.  |
| [000]  |
| 0.00 General  0.01 Is the current Environmental Permit displayed conspicuously at all vehicle site   |
| 0.01 Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?   |
| 0.02 Is ET Leader's log-book kept readily available for inspections?   |
| as B1 Leader's log-book kept leading available for inspections?  |
| 1.00 Construction Dust   |
| 1.01 S4.8.1 Are dusty materials, such as excavated materials, building debris and construction   |
| materials, and exposed earth surface properly covered to prevent dust emission?  |
| 1.02 S4.8.1 Are screenings, enclosures, water spraying or vacuum cleaning devices provided to  |
| dusty construction works for dust suppression?   |
|  |
| 1.03 S4.8.1 Are fumes or smoke emitting plants or construction activities shielded by a screen?  |
|  |
|  |
| 1.04 S4.8.1 Are wheel-washing facilities with high-pressure water jets provided at all site exits?   |
| 4.05 C4.0.1 (Cardeal work) and day the distribution of a size?   |
| 1.05 S4.8.1 Is wheel-washing provided to all vehicles leaving the site?  |
| 1.06 S4.8.1 Are road section near the site exit free from dusty material?  |
|  |
| 1.07 S4.8.1 Are all main haul roads inside the site paved or sprayed with water to minimize dust   |
| emission during vehicle movement?  |
| 1.08 S4.8.1 Are water spraying provided immediately prior to any loading or transfer of dusty  |
| materials?   |
| 1.09 \$4.8.1 Are covers provided to all dump trucks carrying dusty materials when entering and   |
| leaving the site?  |
| 1.10 S4.8.1 Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of  |
| boulders, poles, pillars sprayed with water to maintain the entire surface wet?  |
| 1.11 S4.8.1 Is exposed earth properly treated within six months after the last construction activity on site?  |
| 1.12 S4.8.1 Does the operation of plants on site free form dark smoke emission?  |
|  |
|  |

|             | COTIC    | actio. 13/ W3D/17 Design, build and Operate First Stage of is   | icuite mass | iii o pe | oaimia Liv | JII Plaist    |
|-------------|----------|---|-------------|----------|------------|---------------|
| Item<br>No. | EIA ref. |   | N/A         | Yes      | No         | Photo/Remarks |
| 1.13        | S4.8.1   | Are vehicles travelling at speed not exceeding 15km/hr within the site?   |             |          |            |               |
| 1.14        | S4.8.1   | Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?                      |             |          |            |               |
| 1.15        | S4.8.1   | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?                    |             |          |            |               |
| 1.16        |          | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?     | V           |          |            |               |
| 1.17        | S4.8.1   | ls open burning prohibited?   |             | V        |            |               |
| 2.00        |          | Construction Noise (Airborne)   |             |          |            |               |
| 2.01        | S5.7     | Are quiet plants adopted on site?   |             |          |            |               |
| 2.02        | S5.7     | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?                     |             | 7        |            |               |
| 2.03        | S5.7     | Are plants throttled down or turned off when not in use?  |             | V        |            |               |
| 2.04        |          | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?                     |             |          |            |               |
| 2.05        | S5.7     | Are moveable barriers provided to screen NSRs from plant or noisy operations?                                     | V           |          |            |               |
|             |          | Are silencers, mufflers and enclosures provided to plants?  | Z           |          |            |               |
| 2.07        |          | Are the hoods, cover panels and inspection hatches of PMEs closed during operation?                               |             | V        |            |               |
| 2.08        |          | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?       |             |          |            |               |
| 2.09        | S5.7     | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? |             |          |            |               |
| 2.10        | S5.7     | Are valid noise emission label(s) affixed to all hand-held breakers operating on site?                            | V           |          |            |               |
|             |          | Are valid noise emission label(s) affixed to all air compressors operating on site?                               |             |          |            |               |
| 2.12        |          | Are all construction noise permit(s) applied for percussive piling work?  | V           |          |            |               |
| 2.13        |          | Are construction noise permit(s) applied for general construction works during restricted hours?                  |             | V        |            |               |
|             | S5.7     | Are valid construction noise permit(s) displayed at all vehicular exits?  |             | V        |            |               |
| 3.00        |          | Water Quality   |             |          |            |               |
|             |          | Is effluent discharge license obtained for wastewater discharge from site?  |             | V        |            |               |
| 3.02        |          | Is effluent discharged according to the effluent discharge license?   |             | V        |            |               |
| 3.03        | S6.9     | Is wastewater discharge from site properly treated prior to discharge?  |             | V        |            |               |



| [tem | EIA ref. |  | N/A                    | Yes               | No                | Photo/Remarks |
|------|----------|--|------------------------|-------------------|-------------------|---------------|
| No.  |          |  | \$ \$100 may 120 miles |                   |                   |               |
|      | S6.9     | Are perimeter channels provided to intercept storm runoff from outside the site?   |                        |                   |                   | Dr.           |
| 3.05 | \$6.9    | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to   |                        | 17                |                   |               |
|      |          | remove sand/silt particles from runoff?  | Ш                      |                   | Ш                 |               |
| 3.06 | S6.9     | Is surface runoff diverted to sedimentation facilities?  | П                      |                   |                   |               |
| 3.07 | \$6.9    | is the drainage system properly maintained?  |                        | $\bigcup$         |                   |               |
| 3.08 | S6.9     | Are construction works carefully programmed to minimize soil excavation works during rainy seasons?  |                        | $\sqrt{}$         |                   |               |
| 3.09 | \$6.9    | Are exposed soil surface protected by paving as soon as possible to reduce the   | <del>—</del>           |                   |                   |               |
|      |          | potential of soil erosion?   | Ш                      | V                 | Ш                 |               |
| 3.10 | S6.9     | Are temporary access roads protected by crushed gravel?  |                        | V                 |                   |               |
| 3.11 | S6.9     | Are exposed slope surface properly protected?  |                        |                   |                   |               |
| 3.12 | S6.9     | Is trench excavation avoided in the wet season as far as practicable, or if necessary,   |                        | $\overline{\Box}$ | П                 |               |
|      |          | backfilled in short sections after excavation?   |                        | Ш                 | Ш                 |               |
| 3.13 | S6.9     | Are open stockpiles of construction materials on site covered by tarpaulin or similar  | 1./1                   |                   | П                 |               |
|      |          | fabric during construction?  | V                      |                   |                   |               |
| 3.14 | S6.9     | ls runoff from wheel-washing facilities avoided?   |                        |                   | П                 |               |
| 3.15 | S6.9     | Is oil leakage or spillage prevented?  |                        | V                 |                   |               |
| 3.16 |          | Are there any measures to prevent the release of oil and grease into the storm drainage system?  |                        | /                 |                   |               |
| 3.17 | S6.9     | Are the oil interceptors/ grease traps properly maintained?  | V                      |                   |                   |               |
| 3.18 |          | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?   |                        | V                 |                   | P             |
| 3.19 |          | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? |                        | V                 |                   |               |
| 3.20 |          | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?                               |                        |                   |                   |               |
| 3.21 |          | Are sufficient chemical toilets provided on site to handle sewage from construction  |                        |                   | $\overline{\Box}$ |               |
|      |          | work force?  | Ш                      |                   | Ш                 |               |
| 3.22 |          | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?  |                        |                   |                   |               |
| 3.23 | S6.9     | Is concrete washing water properly collected and treated prior to discharge?   |                        |                   |                   |               |
| 3.24 |          | Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?                                      |                        |                   |                   |               |
| 3.25 | S6.9     | Is closed grab dredger used to reduce the potential leakage of sediments?  |                        |                   |                   |               |



|      |          | act no. 13/WSD/17 Design, Build and Operate First Stage of Ts                                  |          |           |          | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM |
|------|----------|--|----------|-----------|----------|--|
| Item | EIA ref. |  | N/A      | Yes       | No       | Photo/Remarks  |
| No.  |          |  |          |           |          |  |
| 3.26 | S6.9     | Is closed grab dredger of 3 to 6 m <sup>3</sup> used for dredging at seawater intake?          |          |           |          |  |
|      |          | 4  |          | Ш         |          |  |
| 3.27 | S6.9     | Is specific work staff assigned the responsibility for monitoring the number of grab           |          |           |          |  |
|      |          | dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m³ closed             |          |           | Ш        |  |
|      |          | grab, 10-11 grab per hour for 6m3 closed grab?   |          |           |          |  |
| 3.28 | S6.9     | Is the grab operated in slow and controlled manner such that the impact to seabed by           |          | П         |          |  |
|      |          | the grab when being lowered could be minimized? Is the operator ensured the grab be            |          |           |          |  |
|      |          | properly closed before lifting the grab?   |          |           |          |  |
| 3.29 | S6.9     | Is the maximum allowed dredging rate at the seawater intake limited to 750 m <sup>3</sup> /day |          |           |          |  |
|      |          | while the maximum allowed dredging rate at the submarine outfall is 3,500 m <sup>3</sup> /day? |          |           | Ш        |  |
| 3.30 | \$6.9    | Is dredged marine sediment disposed of in a gazetted marine disposal area in                   |          |           |          |  |
| 0.00 | 00.5     | accordance with marine dumping permit conditions of the Dumping at Sea Ordinance               |          |           |          |  |
|      |          | (DASO)?  |          |           |          |  |
| 2 21 | 0.00     |  |          |           |          |  |
| 3.31 | 30.9     | Are disposal vessels fitted with tight bottom seals in order to prevent leakage of             | 1/       |           |          |  |
| 0.00 | 2/2      | material during transport?   |          |           |          |  |
| 3.32 | S6.9     | Are barges filled to a level which ensures that material does not spill over during            |          |           |          |  |
|      |          | transport to the disposal site and that adequate freeboard is maintained to ensure that        |          |           |          |  |
|      |          | the decks are not washed by wave action?   | ,        |           |          |  |
| 3.33 | S6.9     | Are excess materials cleaned from decks and exposed fittings before the vessel is              |          |           |          |  |
|      |          | moved from the dredging area after dredging?   |          | Ш         | ш        | -  |
| 3.34 | S6.9     | Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,             |          |           |          |  |
|      |          | litter or other objectionable matter to be present in the water within and adjacent            |          | V         |          |  |
|      |          | to the dredging site?  |          |           |          |  |
| 3.35 | S6.9     | When the dredged material has been unloaded at the disposal areas, is any material             |          |           |          |  |
|      |          | accumulated on the deck or other exposed parts of the vessel removed and placed in             |          | Ш         |          |  |
|      | 95       | the hold or a hopper?  |          |           |          |  |
| 3.36 | \$6.9    | Is dredger maintained adequate clearance between vessels and the seabed at all states          | <u> </u> |           |          |  |
|      |          | of the tide and reduce operations speed to ensure that excessive turbidity is not              | V        |           |          |  |
| 3    |          | generated by turbulence from vessel movement or propeller wash?                                |          |           |          |  |
| 3.37 | \$6.9    | Is the contractor shall regularly inspect the silt curtains and check that they are            |          |           |          |  |
|      |          | moored and marked to avoid danger to marine traffic? Is regular inspection on the              |          | $\sqrt{}$ |          |  |
|      |          | integrity of the silt curtain carried out by the contractor and any damage to the silt         |          |           |          |  |
|      |          | curtain shall be repaired by the contractor promptly?  |          |           |          |  |
| 3 38 | \$6.9    |  |          |           |          |  |
| 3.30 | 30.9     | Are all vessels have a clean ballast system?   |          |           |          |  |
| 2.00 | 060      |  |          |           |          |  |
| 3.39 | S6.9     | Are all vessels well maintained and inspected before use to limit any potential                | 1        |           |          |  |
|      |          | discharges to the marine environment?  |          |           | <u> </u> |  |
| 3.40 | S6.9     | Is any discharge of sewage/grey wastewater? Is wastewater from potentially                     |          |           | П        |  |
|      |          | contaminated area on working vessels should be minimized and collected?                        |          | ш         | ш        |  |
| 3.41 | \$6.9    | Is any soil waste disposed overboard?  |          | П         |          |  |
|      |          |  |          | Ш         | Ш        |  |
|      |          |  |          |           |          |  |
|      |          |  | 1        |           |          |  |
|      |          | · · · · · · · · · · · · · · · · · · ·  | 1        |           |          |  |



| Item | EIA ref. |  | 1 37/4   |              |    | Oli Flatic    |
|------|----------|--|----------|--------------|----|---------------|
| No.  |          |  | N/A      | Yes          | No | Photo/Remarks |
| 4.00 |          | Waste Management   |          |              |    |               |
| 4.01 | S8.5     | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at   |          |              |    |               |
|      | 1        |  |          |              |    |               |
| 1    |          | public filling facilities and landfills?   |          |              |    |               |
| 4.02 | S8.5     | is a recording system implemented to record the amount of wastes generated, recycled and   |          |              |    |               |
|      |          |  |          |              |    |               |
|      |          | disposed of?   |          |              | Ш  |               |
| 4.03 | S8.5     | IS the Contractor registered as a chemical waste producer?   |          |              |    |               |
|      |          |  |          |              |    |               |
| 4.04 | S8.5     | Are chemical waste separated from other waste and collected by a licensed chemical waste   |          |              |    |               |
|      |          | collector?   |          |              |    |               |
| 105  |          |  |          |              | Ш  |               |
| 4.05 | S8.5     | Are trip tickets for chemical waste disposal available for inspection?   |          |              |    |               |
|      |          |  |          | V            |    |               |
| 4.06 | S8.5     | Is chemical waste reused and recycled on site as far as practicable?   |          |              |    |               |
|      |          |  |          |              |    |               |
| 107  | \$8.5    | Annall and in the same of the  |          | الك          |    |               |
| 4.07 | 58.5     | Are all containers for chemical waste properly labelled?   |          |              |    |               |
|      |          |  |          | V            |    |               |
| 4.08 | S8.5     | Is chemical waste storage area used solely for storage of chemical waste and properly  |          | <u> </u>     |    |               |
|      |          | labelled?  |          | 0/           |    |               |
| 400  | 00.5     |  |          |              | ш  |               |
| 4.09 | 58.5     | Are incompatible chemical wastes stored in different areas?  |          |              |    |               |
|      |          |  |          | $\checkmark$ |    |               |
| 4.10 | S8.5     | Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?   |          | <del></del>  |    |               |
|      |          | •  |          | 1/           |    |               |
| 4.11 | S8 5     | is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of  |          |              |    |               |
|      |          |  |          |              |    |               |
|      |          | the largest container or of 20% by volume of the chemical waste stored in that area,   |          |              |    |               |
|      |          | whichever is the greatest, provide?  |          |              |    |               |
| 4.12 | 1 1      | Are a routine cleaning and maintenance programme implemented for drainage systems,   |          |              |    |               |
|      |          | sump pits, and oil interceptors?   |          |              |    |               |
| 4.13 | S8.5     | Are sufficient general refuse disposal/collection points provided on site?   |          |              |    |               |
|      |          | Constitution of the consti |          | 10/          |    |               |
| 444  | 00.5     |  |          |              |    |               |
| 4.14 | 58.5     | is general refuse disposed of properly and regularly?  |          |              |    | 0 1           |
|      |          |  |          |              |    | Reminder 2    |
| 4.15 | S8.5     | Are appropriate measures adopted to minimize windblown litter and dust during  |          |              |    |               |
|      |          | ransportation of waste?  |          | 1. 1         |    |               |
| 4.16 |          |  |          |              |    |               |
| 7.10 |          | Are individual collectors for aluminum cans, plastic bottles and packaging material and  |          |              |    |               |
|      |          | office paper provided to encourage waste segregation?  | Ш        | V            | Ш  |               |
| 4.17 | S8.5     | Are C&D wastes sorted on site?   |          |              |    |               |
|      |          | in the second se |          |              |    |               |
| 4.18 | \$8.5    | Are C&D waste disposed of properly?  |          |              |    |               |
|      |          | and disposed of property.  |          | $\Box$       |    |               |
| 115  | 20.5     |  |          |              |    |               |
| 4.19 |          | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of   |          |              |    |               |
|      | <u> </u> | vaste?   |          |              |    |               |
| 4.20 | \$8.5    | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?  |          |              |    |               |
|      |          | P. P   |          | ./           |    |               |
|      |          |  | <u> </u> | اعدا         |    |               |



| ltem | EIA ref.   |  | N/A   | Yes           | No | Photo/Remarks  |
|------|--|--|-------|---------------|----|--|
| No.  |  |  |       |               |    |  |
|      |  |  |       |               |    |  |
| 4.21 | \$8.5  | Are the construction materials stored properly to minimize the potential for damage or   |       |               | T  | **************************************   |
|      |  | contamination?   |       |               |    |  |
| 4.22 | S8 5   | Is a dumping license obtained to deliver public fill to public filling areas?  |       | <u>r /ı</u>   |    |  |
|      | 00.0   | a a comping needed votation to position to passion in the passion  |       | $\vee$        |    |  |
|      |  |  |       |               |    |  |
| 5.00 |  | Landscape and Visual   |       |               |    |  |
| 5.01 | S11.10   | Are Is site hoarding provided?   |       |               |    |  |
|      | & 11.11  |  |       |               | Ш  |  |
| 5.02 | S11.10 &   | Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?   |       |               |    |  |
|      | 11.11  |  | Ш     | $\vee$        | Щ  | •  |
| 5.03 | S11.10 &   | Is construction light oriented away from the sensitive receivers?  | [7]   |               |    |  |
|      | 11.11  |  | V     |               |    |  |
| 5.04 | SI1.10   | Is grass hydroseeding provided to slopes as soon as the completion of works?   |       | <u>r</u>      |    |  |
|      | & 11.11  |  |       | V             |    | \$10.00 miles  |
| 5.05 | S11.10 &   | Are damages to trees outside site boundary due construction works avoided?   |       |               |    |  |
|      | 11.11  | and annually the contract of t |       | $\bigvee$     |    |  |
| 5.06 |  | Is excavation works carried out manually instead of machinery operation within 2.5m  |       |               |    |  |
| 5.00 |  | vicinity of any preserved trees?   |       |               |    |  |
| - 07 |  |  |       |               |    |  |
|      |  | Are the retained and transplanted tree(s) properly protected and in good conditions?   |       | . 1           |    |  |
|      | 11.11  |  |       |               |    |  |
|      | Contract of the Contract of th | Are surgery works carried out for damaged trees?   |       |               |    |  |
| -    | 11.11  |  | V     | ш             |    |  |
| 6.00 |  | Ecology  |       |               |    |  |
| 6.01 | S9.7   | is site runoff properly treated to prevent any silly runoff?   |       |               |    |  |
|      |  |  |       | 4             |    |  |
| 6.02 | S9.7   | Are silt trap installed and well-maintained?   |       | <del>/1</del> |    |  |
|      |  |  |       |               |    |  |
| 6.03 | \$9.7  | Are stockpiles properly covered to avoid generating silty runoff?  | -     |               |    |  |
|      |  |  |       |               |    | The state of the s |
| 6.04 | 59.7   | Are construction works restricted to works area which are clearly defined?   |       |               |    |  |
| 0.0. | P  | The constitution wone restricted to works and which are vicinity defined.  |       |               |    |  |
| G OF | 00.7   | Endowski da Laidi da Cla Wat Da Conta Dalama ta Giliana  |       |               |    |  |
| 6.05 | 39.7   | For slope mitigation works within the Clear Water Bay Country Park, are tree felling and   | 1/    |               |    |  |
|      |  | damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and  |       |               |    | <u> </u>   |
| 1    |  | rock dowels adjusted during detailed design, and a setback distance from existing trees is   |       |               |    |  |
| 0.00 | 00.7   | recommended to be maintained as far as practical?  |       |               |    |  |
| 6.06 | S9.7   | Are pruning of tree canopies along the alignment of the flexible barriers limited to a   |       |               |    |  |
|      |  | minimum?   |       |               |    |  |
| 6.07 | S9.7   | Are the alignment of flexible barriers optimized to preserve all species of conservation   | 1 / 1 |               |    |  |
| l    |  | interest and minimize the impact to the existing vegetation as far as practicable? Are the   | 1     |               |    |  |
|      |  | alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these  |       |               |    |  |
|      |  | individuals?   |       |               |    |  |
| 6.08 | \$9.7  | At the detailed design stage prior to the commencement of the slope mitigation works, i  | 1 1 1 |               |    |  |
|      |  | vegetation survey carried out at the slope mitigation areas within the Clear Water Bay   |       |               | Ш  |  |
| -    |  |  |       |               |    |  |



| Item         | EIA ref. |  | N/A            | Yes         | No       | Photo/Remarks |
|--------------|----------|--|----------------|-------------|----------|---------------|
| No.          |          |  |                |             |          |               |
|              |          | Country Park to assess the condition and identify the location of each individual of   |                |             |          |               |
|              |          | Marsdenia lacknostoma and other flora species of conservation interest that may be directly  |                | *           |          |               |
|              | <u></u>  | affected by the construction works?  |                |             |          |               |
| 6.09         | S9.7     | Is temporary fencing installed to fence off the concerned species either in groups of  |                | 1.71        |          |               |
|              |          | individually within the works area and in the close proximity to prevent from being  | 1.00-001000000 |             | Ш        |               |
| 1            |          | damaged and disturbed during construction? Is a sign identifying the site attached to the  |                |             |          |               |
| 6.10         | 00.7     | fence and flagging tape shall be attached to the individuals to visualize their locations?   |                |             |          |               |
| 6.10         | 59.7     | Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or  |                |             |          |               |
| İ            |          | other flora species of conservation interest, if found) adjacent to the proposed alignment of<br>the flexible barriers prepared to protect the species?  |                |             |          |               |
| 6.11         | 50.7     | Is any induction training provided to all site personnel in order to brief them on this flora of   |                | -           |          |               |
| 0.11         | 37.7     | conservation interest including the locations and their importance?  |                |             |          |               |
| 6.12         | 20.7     |  |                |             |          |               |
| 0.12         | 39.7     | Is the resident site supervisory staff closely monitor the conditions of concerned<br>individuals during construction of flexible barriers in the close proximity?   |                |             |          |               |
| 0.42         | 00.7     |  |                |             |          |               |
| 6.13         | 59.7     | Are fences erected along the boundary of the works area before the commencement of   |                |             |          |               |
| 244          | 20.5     | works to prevent vehicle movements and encroachment of personnel onto adjacent areas?  |                |             |          |               |
| 6.14         | 59.7     | Is regular check of the work site boundaries performed to ensure that they are not breached  |                | V           |          |               |
|              |          | and that damage does not occur to surrounding areas?   |                |             |          |               |
| 6.15         | S9.7     | Is any damage and disturbance avoided, particularly those caused by filling and illegal  |                |             |          |               |
|              |          | dumping, to the surrounding habitats through proper management of waste disposal?  |                | <u> </u>    |          |               |
| 6.16         | S9.7     | Are temporarily affected areas reinstated, particularly the habitats of plantation and   |                | 17          | 7.1      |               |
|              |          | shrubland-grassland immediately after completion of construction works, through on-site<br>tree/shrub planting?  |                |             |          |               |
| 6.15         | \$0.7    | Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding   |                |             |          |               |
| 0.10         |          | and planting of climbers and native shrub seedlings where practical upon completion of the   |                |             |          |               |
|              |          | slope mitigation works?  | ~              |             | <u> </u> |               |
| 7.00         |          | Landfill Gas Hazard  |                |             |          |               |
| 100 2000 200 | S12.7    | Are the safety procedures implemented to minimise the risks of fires and explosions,   |                |             |          |               |
|              |          | asphyxiation of works and toxicity effects during all works?   |                |             |          |               |
| 7.02         | S12.7    | Are the gas detection equipment and precautions being used during trenching and  |                |             |          |               |
| 7.02         | 012.7    | excavation as well as creation of confined spaces?   |                |             |          | l             |
|              |          | ondaration as won as creation of contined spaces:  |                |             |          |               |
| 7.02         | 0127     | And the territory sixty and the second sixty and th |                |             |          |               |
| 7.03         | S12.7    | Are the training with regard to the awareness of potential hazards of working in   |                |             |          |               |
|              |          | confined spaces provided from the Contractor to the workers?   |                |             |          |               |
|              |          | · · · · · · · · · · · · · · · · · · ·  |                |             |          |               |
| 7.04         | 1        | Are the safety officers trained with regard to landfill gas and leachate related hazards   |                |             |          |               |
|              |          | and presented on the site throughout the works undertaken below grade?   |                |             |          |               |
|              | 216 -    |  |                |             |          |               |
| 7.05         | S12.7    | Are the all personnel working on site and all visitor made aware of the possibility of   |                | <del></del> |          |               |
|              |          | ignition of gas, the possible presence of contaminated water and the need to avoid   |                |             |          |               |
|              |          | physical contact?  |                |             |          |               |
|              |          |  |                |             |          |               |
|              |          |  |                |             |          |               |
|              |          |  |                |             |          |               |

| Item                  | EIA ref. | 137 W3D/17 Design, Build and Operate 1 ist Stage of is  | N/A    | Yes          | No | Photo/Remarks    |
|-----------------------|----------|---|--------|--------------|----|------------------|
| No.                   |          |   |        |              |    |                  |
| 7.06                  | \$12.7   | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?  |        |              |    |                  |
| 7.07                  | \$12.7   | Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?                          |        |              |    | <b>Marketing</b> |
| 7.08                  | S12.7    | Is the drilling proceeded with adequate care and precautions against the potential hazards?   | $\int$ |              |    |                  |
| 7.09                  | S12.7    | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?   |        |              |    |                  |
| 7.10                  | S12.7    | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?  |        |              |    |                  |
| 7.11                  | S12.7    | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? |        |              |    |                  |
| 7.12                  | S12.7    | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?  |        | J            |    |                  |
| 8. <b>0</b> 0<br>8.01 |          | Overall Table 1   |        |              |    |                  |
| 0.01                  |          | Is the EM&A properly implemented in general?  |        | $\checkmark$ |    | •                |



| Remark / Follow up of Obse | Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: |   |                                    |   |  |  |  |  |
|----------------------------|--|---|------------------------------------|---|--|--|--|--|
| 0 /                        |  | nce(s) of Last Weekly Site Ir                 | * .                                | chess)                                    |  |  |  |  |
| Signatures:                |  |   |                                    |   |  |  |  |  |
| ET Representative (Name: ) | Contractor's Representative  (Name: Rang Sn (CO)   | Supervising Officer's Representative (Name: ) | IEC's Representative  (Name: Lowy) | WSD's Representative (Name:   P Get Count |  |  |  |  |
|                            |  | Dlen  | Kevan                              |   |  |  |  |  |



Appendix J
Complaint Log



## Statistical Summary of Environmental Complaints

| Reporting Period  | Environmental Complaint Statistics |            |                  |  |
|-------------------|------------------------------------|------------|------------------|--|
|                   | Frequency                          | Cumulative | Complaint Nature |  |
| 1 – 30 April 2022 | 0                                  | 0          | N/A              |  |

### Statistical Summary of Environmental Summons

| Reporting Period  | Environmental Summons Statistics |            |         |  |  |
|-------------------|----------------------------------|------------|---------|--|--|
|                   | Frequency                        | Cumulative | Details |  |  |
| 1 – 30 April 2022 | 0                                | 0          | N/A     |  |  |

### Statistical Summary of Environmental Prosecution

| Reporting Period  | Environmental Prosecution Statistics |            |         |  |
|-------------------|--------------------------------------|------------|---------|--|
|                   | Frequency                            | Cumulative | Details |  |
| 1 – 30 April 2022 | 0                                    | 0          | N/A     |  |



## Appendix K

Impact Monitoring Schedule of Next Reporting Month

# Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Tentative Water Quality Monitoring Schedule

|   |     |  | May-22   |     |   |
|---|-----|--|--|-----|---|
| n | Mon | Tue  | Wed Thu  | Fri | Sat   |
|   | 2   | 3  | 4 5  | 6   | 7   |
|   |     | Impact Water Quality monitoring for<br>CE, CF, WSR1, WSR2, WSR3, WSR16, WSR33,<br>WSR36, WSR37<br>Tidal Period:  | Impact Water Quality monitoring for<br>CE, CF, WSR1, WSR2, WSR3, WSR16, WSR36<br>WSR36, WSR37<br>Tidal Periods   | 3,  | Impact Water Quality monitoring for<br>CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSF<br>WSR36, WSR37<br>Tidal Period:  |
|   |     | Ebb Tide: 10:27-17:00<br>Flood Tide: 03:35-10:27<br><u>Monitoring Time:</u><br>Mid-ebb: 11:58-15:28  | Ebb Tide: 10:00-18:40<br>Flood Tide: 03:42-10:00<br><u>Monitoring Time:</u><br>Mid-ebb: 12:35-16:05  |     | Ebb Tide: 10:55-20:50<br>Flood Tide: 05:00-10:55<br><u>Monitoring Time:</u><br>Mid-ebb: 14:07-17:37   |
|   |     | Mid-flood: 08:00-10:06   | Mid-flood: 08:00-09:41   |     | Mid-flood: 08:00-10:37  |
|   | 9   | 10   | 11 12  | 13  | 14  |
|   |     | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR3 | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3, WSR3, WSR3, WSR3, WSR3, WSR3, WSR3, Tidal Periodi Ebb Tide: 07.27-12:11 Flood Tide: 12:11-18:16 Monitoring Time: Mid-ebb 08:00-41:34 Mid-flood: 13:28-16:58 | 3,  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3 WSR36, WSR36 WSR37 Tidal Period: Ebb Tide: 08:00-13:57 Flood Tide: 13:57-20:38 Monitoring Time: Mid-ebb:00-13:12-43 Mid-flood:15:32-19:00     |
|   | 16  | 17   | 18 19  | 20  | 21  |
|   |     | Impact Water Quality monitoring for CE, CF, WRI, WSR2, WSR3, WSR4, WSR3, TR, WSR3, WSR4, WSR3, W | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33   WSR36, WSR37   Tidal Period: Ebb Tide: 11:05-18:00   Flood Tide: 05:53-11:05   Monitoring Time: Mid-ebb: 12:47-46:17   Mid-flood: 08:00-10:43             | 3.  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3 (WSR36, WSR37 Tidal Period.  Ebb Tide: 13:00-20:30 Filood Tide: 05:00-13:00 Monitoring Time: Mid-ebb Tide: 13:00-20:30 Mid-flood: 08:00-10:45 |
|   | 23  | 24   | 25 26  | 27  | 28  |
|   |     | Impact Water Quality monitoring for CE, CF, WSR1, WSR2 WSR3, WSR4, WSR16, WSR37  WSR36, WSR37  Tidal Period: Ebb Tide: 16:34-23:21 Flood Tide: 0:945-16:34  Monitoring Time: Mid-@bb: 16:54-19:00 Mid-flood:11:24-14:54  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR36  WSR36, WSR37  Tidal Period: Ebb Tide: 07:09-12:31  FFlood Tide: 12:31-18:54  Monitoring Time:  Mid-shb: 08:10-1140  Mid-flood: 13:57-17:27                 | 3.  | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR37  WSR36, WSR37  Tidal Period: Ebb Tide: 09:10-14:14  Flood Tide: 14:14-21:00  Monitoring Time: Mid-ebb: 09:27-12:57 Mid-flood: 15:52-19:00    |
|   | 30  | 31   |  |     |   |
|   |     | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR37, WSR36, WSR37, Tidal Periodi.  Ebb Tide: 09:24-16:23 Flood Tide: 16:23-23-13 Monitoring Time: Mid-ebb: 11:08-14:38 Mid: Rood: 16:43-19:00   |  |     |   |



## Appendix L

# Water Quality and Landfill Gas Monitoring Data

| Location | Date     | Weather | Sea Condition | Tidal     | Water Level | Depth (m) | Time  | DO (mg/L) | рН   | Sal (ppt) | Temp (oC) | Turbidty (NTU) | SS (mg/L) |
|----------|----------|---------|---------------|-----------|-------------|-----------|-------|-----------|------|-----------|-----------|----------------|-----------|
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 18:49 | 9.04      | 7.98 | 33.33     | 19.83     | 3.05           | 2.5       |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 18:49 | 9.07      | 7.98 | 33.22     | 19.86     | 3.26           | 3         |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 11.5      | 18:48 | 9.14      | 7.97 | 33.18     | 19.82     | 3.45           | 3         |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 11.5      | 18:48 | 9.16      | 8.02 | 33.29     | 19.84     | 3.68           | 3         |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 22        | 18:47 | 9.16      | 8.06 | 33.34     | 19.91     | 3.55           | 3         |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 22        | 18:47 | 9.02      | 8.04 | 33.22     | 19.84     | 3.41           | 4         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:14 | 8.58      | 8.01 | 33.21     | 20.09     | 3.86           | 3         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:14 | 8.65      | 8.07 | 33.21     | 20.13     | 4.16           | 3         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 9.6       | 16:13 | 8.62      | 8.07 | 33.26     | 20.22     | 3.96           | 3         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 9.6       | 16:13 | 8.69      | 8.02 | 33.20     | 20.05     | 4.02           | 3         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 18.2      | 16:12 | 8.7       | 8.05 | 33.33     | 20.20     | 3.75           | 2.5       |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 18.2      | 16:12 | 8.59      | 8.01 | 33.26     | 20.12     | 4.05           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:37 | 8.93      | 8.25 | 33.14     | 20.48     | 3.24           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:37 | 9         | 8.2  | 33.29     | 20.32     | 2.97           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4.2       | 16:36 | 8.96      | 8.19 | 33.24     | 20.30     | 2.19           | 2.5       |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4.2       | 16:36 | 9.03      | 8.27 | 33.13     | 20.39     | 2.47           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 7.4       | 16:35 | 9.06      | 8.2  | 33.21     | 20.48     | 2.36           | 2.5       |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 7.4       | 16:35 | 9.01      | 8.2  | 33.16     | 20.40     | 2.69           | 3         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:53 | 8.35      | 8.27 | 33.63     | 20.40     | 1.92           | 2.5       |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 16:53 | 8.39      | 8.28 | 33.59     | 20.29     | 2.18           | 3         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4.65      | 16:52 | 8.41      | 8.27 | 33.72     | 20.36     | 2.38           | 4         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4.65      | 16:52 | 8.33      | 8.3  | 33.76     | 20.33     | 2.19           | 3         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 8.3       | 16:51 | 8.36      | 8.19 | 33.72     | 20.26     | 2.23           | 4         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 8.3       | 16:51 | 8.43      | 8.2  | 33.71     | 20.35     | 2.18           | 3         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:06 | 8.96      | 8.01 | 33.02     | 20.40     | 2.72           | 2.5       |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:06 | 8.88      | 7.97 | 33.05     | 20.39     | 2.75           | 3         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4         | 17:05 | 8.85      | 7.97 | 32.92     | 20.34     | 2.36           | 2.5       |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 4         | 17:05 | 8.98      | 8.01 | 32.90     | 20.28     | 2.11           | 2.5       |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 7         | 17:04 | 8.89      | 7.96 | 33.02     | 20.26     | 2.17           | 2.5       |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 7         | 17:04 | 8.96      | 7.95 | 33.00     | 20.37     | 2              | 3         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:20 | 9.24      | 8.05 | 33.04     | 19.84     | 3.15           | 2.5       |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:20 | 9.26      | 8.15 | 32.94     | 19.75     | 3              | 3         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 3.5       | 17:19 | 9.23      | 8.07 | 33.04     | 19.78     | 2.83           | 2.5       |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 3.5       | 17:19 | 9.16      | 8.01 | 32.96     | 19.81     | 2.61           | 2.5       |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 6         | 17:18 | 9.23      | 8    | 32.94     | 19.80     | 2.5            | 2.5       |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 6         | 17:18 | 9.16      | 8.09 | 33.04     | 19.85     | 2.64           | 2.5       |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 18:25 | 8.41      | 8.14 | 33.00     | 20.03     | 2.67           | 2.5       |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 18:25 | 8.34      | 8.17 | 33.08     | 20.07     | 2.63           | 2.5       |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 8.65      | 18:24 | 8.31      | 8.18 | 32.96     | 20.05     | 2.66           | 2.5       |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 8.65      | 18:24 | 8.42      | 8.13 | 33.02     | 20.13     | 2.33           | 2.5       |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 16.3      | 18:23 | 8.38      | 8.15 | 33.13     | 20.05     | 2.91           | 3         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Bottom      | 16.3      | 18:23 | 8.32      | 8.21 | 32.99     | 20.12     | 2.71           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:34 | 8.36      | 8.07 | 32.83     | 20.53     | 3.13           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Surface     | 1         | 17:34 | 8.48      | 8.05 | 32.93     | 20.52     | 2.65           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 3.75      | 17:33 | 8.38      | 7.91 | 32.90     | 20.48     | 2.67           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Flood | Middle      | 3.75      | 17:33 | 8.38      | 8.07 | 32.99     | 20.49     | 2.29           | 2.5       |

| WSR33 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 6.5   | 17:32 | 8.39  | 8.08 | 32.91   | 20.37 | 2.24 | 2.5 |
|-------|----------|----------|------------|-----------|---------|-------|-------|-------|------|---------|-------|------|-----|
| WSR33 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 6.5   | 17:32 | 8.37  | 7.96 | 32.84   | 20.38 | 2.61 | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Surface | 1     | 17:47 | 8.6   | 8.16 | 33.67   | 20.15 | 2.49 | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Surface | 1     | 17:47 | 8.48  | 8.12 | 33.67   | 20.31 | 2.33 | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Middle  | 3.35  | 17:47 | 8.48  | 8.11 | 33.74   | 20.24 | 2.7  | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Middle  | 3.35  | 17:47 | 8.56  | 8.13 | 33.82   | 20.26 | 2.46 | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 5.7   | 17:46 | 8.55  | 8.15 | 33.65   | 20.18 | 2.51 | 2.5 |
| WSR36 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 5.7   | 17:46 | 8.58  | 8.06 | 33.67   | 20.27 | 2.25 | 2.5 |
| WSR37 | 20220402 | Cloudy   |            | Mid-Flood |         | 1     | 18:02 | 9.32  | 8.25 | 33.68   | 20.27 | 3.51 | 2.5 |
| WSR37 | 20220402 | Cloudy   | Moderate   |           | Surface | 1     | 18:02 | 9.32  | 8.25 | 33.82   | 20.18 | 3.01 | 3   |
|       |          |          | Moderate   | Mid-Flood | Surface |       |       |       |      |         |       |      |     |
| WSR37 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Middle  | 4.45  | 18:01 | 9.21  | 8.21 | 33.74   | 20.13 | 2.8  | 2.5 |
| WSR37 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Middle  | 4.45  | 18:01 | 9.2   | 8.31 | 33.85   | 20.26 | 2.99 | 2.5 |
| WSR37 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 7.9   | 18:00 | 9.32  | 8.16 | 33.69   | 20.25 | 2.69 | 3   |
| WSR37 | 20220402 | Cloudy   | Moderate   | Mid-Flood | Bottom  | 7.9   | 18:00 | 9.18  | 8.27 | 33.87   | 20.26 | 3.09 | 2.5 |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 10:47 | 8.69  | 8.16 | 31.48   | 21.82 | 2.77 | 3   |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 10:47 | 8.7   | 8.27 | 31.45   | 21.72 | 2.78 | 3   |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 11    | 10:46 | 8.73  | 8.16 | 31.41   | 21.81 | 2.98 | 3   |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 11    | 10:46 | 8.72  | 8.25 | 31.34   | 21.74 | 2.65 | 4   |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 21    | 10:45 | 8.76  | 8.25 | 31.33   | 21.73 | 2.46 | 4   |
| CE    | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 21    | 10:45 | 8.7   | 8.19 | 31.41   | 21.77 | 2.39 | 2.5 |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:02  | 8.88  | 8.2  | 31.43   | 22.02 | 3.67 | 3   |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:02  | 8.76  | 8.29 | 31.45   | 21.86 | 3.77 | 4   |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 10.75 | 8:01  | 8.87  | 8.16 | 31.41   | 21.89 | 3.8  | 5   |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 10.75 | 8:01  | 8.87  | 8.29 | 31.33   | 21.97 | 3.94 | 3   |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 20.5  | 8:00  | 8.72  | 8.22 | 31.38   | 21.99 | 3.84 | 4   |
| CF    | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 20.5  | 8:00  | 8.88  | 8.2  | 31.35   | 22.04 | 3.94 | 3   |
| WSR01 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:26  | 8.82  | 8.17 | 31.32   | 21.54 | 2.56 | 4   |
| WSR01 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:26  | 8.88  | 8.27 | 31.29   | 21.69 | 2.47 | 3   |
| WSR01 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 4.7   | 8:25  | 8.88  | 8.25 | 31.43   | 21.71 | 2.31 | 3   |
| WSR01 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 4.7   | 8:25  | 8.71  | 8.2  | 31.39   | 21.71 | 2.27 | 4   |
| WSR01 | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 8.4   | 8:24  | 8.83  | 8.19 | 31.46   | 21.66 | 2.33 | 4   |
|       | 20220405 |          |            |           |         |       |       |       |      |         | 21.71 |      | 5   |
| WSR01 |          | Sunny    | Moderate   | Mid-Flood | Bottom  | 8.4   | 8:24  | 8.86  | 8.25 | 31.47   |       | 2.18 |     |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:44  | 8.8   | 8.19 | 31.3    | 21.87 | 2.1  | 3   |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:44  | 8.69  | 8.16 | 31.35   | 21.84 | 1.98 | 4   |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 4.6   | 8:43  | 8.71  | 8.21 | 31.43   | 21.81 | 2.17 | 4   |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 4.6   | 8:43  | 8.76  | 8.29 | 31.33   | 21.96 | 2.04 | 3   |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 8.2   | 8:42  | 8.85  | 8.26 | 31.33   | 21.81 | 2.28 | 4   |
| WSR02 | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 8.2   | 8:42  | 8.73  | 8.25 | 31.42   | 21.91 | 2.25 | 4   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:59  | 8.86  | 8.2  | 31.35   | 21.4  | 2.7  | 5   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 8:59  | 8.8   | 8.19 | 31.42   | 21.56 | 2.64 | 4   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 3.85  | 8:58  | 8.76  | 8.27 | 31.41   | 21.41 | 2.61 | 3   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 3.85  | 8:58  | 8.69  | 8.19 | 31.47   | 21.56 | 2.35 | 4   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 6.7   | 8:57  | 8.72  | 8.16 | 31.29   | 21.49 | 2.57 | 4   |
| WSR03 | 20220405 | Sunny    | Moderate   | Mid-Flood | Bottom  | 6.7   | 8:57  | 8.81  | 8.21 | 31.43   | 21.37 | 2.34 | 3   |
| WSR04 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 9:15  | 8.73  | 8.19 | 31.35   | 21.69 | 2.83 | 4   |
| WSR04 | 20220405 | Sunny    | Moderate   | Mid-Flood | Surface | 1     | 9:15  | 8.72  | 8.18 | 31.45   | 21.84 | 2.91 | 4   |
| WSR04 | 20220405 | Sunny    | Moderate   | Mid-Flood | Middle  | 3.55  | 9:14  | 8.74  | 8.29 | 31.37   | 21.71 | 2.4  | 2.5 |
|       | _00.00   | - Juniny | 1.10401410 |           |         | 0.00  | ····  | 0., 1 | 0.27 | 0 1.0 / |       |      |     |

| WSR04 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.55  | 9:14  | 8.76 | 8.2  | 31.36 | 21.69 | 2.1  | 3   |
|-------|----------|-------|----------|-----------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR04 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.1   | 9:13  | 8.72 | 8.16 | 31.43 | 21.78 | 2.42 | 6   |
| WSR04 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.1   | 9:13  | 8.78 | 8.26 | 31.46 | 21.77 | 2.21 | 5   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:25 | 8.7  | 8.27 | 31.42 | 22    | 2.78 | 3   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:25 | 8.7  | 8.24 | 31.41 | 21.89 | 2.89 | 4   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 7.65  | 10:24 | 8.78 | 8.26 | 31.29 | 21.99 | 2.68 | 4   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 7.65  | 10:24 | 8.76 | 8.19 | 31.37 | 21.95 | 2.85 | 3   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 14.3  | 10:23 | 8.79 | 8.29 | 31.4  | 21.89 | 2.36 | 4   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 14.3  | 10:23 | 8.78 | 8.23 | 31.34 | 21.86 | 2.49 | 3   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 9:30  | 8.85 | 8.16 | 31.34 | 21.66 | 2.51 | 3   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 9:30  | 8.73 | 8.25 | 31.4  | 21.55 | 2.7  | 4   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.7   | 9:29  | 8.8  | 8.26 | 31.48 | 21.57 | 1.81 | 4   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.7   | 9:29  | 8.78 | 8.26 | 31.39 | 21.65 | 1.93 | 3   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4   | 9:28  | 8.81 | 8.28 | 31.46 | 21.61 | 2.23 | 4   |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4   | 9:28  | 8.86 | 8.27 | 31.47 | 21.65 | 2.04 | 5   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 9:46  | 8.7  | 8.18 | 31.31 | 22.02 | 2.45 | 5   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 9:46  | 8.78 | 8.27 | 31.32 | 21.76 | 2.79 | 4   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.7   | 9:46  | 8.86 | 8.18 | 31.37 | 21.77 | 2.77 | 3   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.7   | 9:46  | 8.74 | 8.25 | 31.44 | 21.7  | 2.49 | 4   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4   | 9:45  | 8.84 | 8.29 | 31.3  | 22.04 | 2.07 | 3   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4   | 9:45  | 8.83 | 8.28 | 31.42 | 21.79 | 2.07 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:02 | 8.69 | 8.19 | 31.48 | 21.72 | 1.88 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:02 | 8.71 | 8.29 | 31.46 | 21.77 | 1.92 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.85  | 10:01 | 8.79 | 8.23 | 31.35 | 21.76 | 1.8  | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Middle  | 3.85  | 10:01 | 8.83 | 8.16 | 31.36 | 21.85 | 2.04 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.7   | 10:00 | 8.85 | 8.18 | 31.35 | 21.87 | 2.05 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Flood | Bottom  | 6.7   | 10:00 | 8.85 | 8.26 | 31.35 | 21.74 | 2.19 | 2.5 |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:45 | 8.7  | 8.37 | 33.11 | 22.31 | 3.22 | 4   |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 10:45 | 8.65 | 8.37 | 33.11 | 22.23 | 3.24 | 3   |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 10.2  | 10:44 | 8.52 | 8.41 | 33.03 | 22.25 | 3.4  | 4   |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 10.2  | 10:44 | 8.71 | 8.39 | 33.04 | 22.28 | 3.55 | 4   |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 19.4  | 10:43 | 8.69 | 8.38 | 33.11 | 22.32 | 3    | 4   |
| CE    | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 19.4  | 10:43 | 8.58 | 8.35 | 33.04 | 22.27 | 3.14 | 3   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:02  | 9.03 | 8.25 | 33.37 | 22.43 | 4.34 | 5   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:02  | 9.11 | 8.21 | 33.36 | 22.49 | 3.95 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 10.45 | 8:01  | 8.92 | 8.24 | 33.27 | 22.54 | 4.54 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 10.45 | 8:01  | 9.11 | 8.26 | 33.26 | 22.43 | 4.75 | 6   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 19.9  | 8:00  | 8.96 | 8.23 | 33.42 | 22.40 | 4.05 | 3   |
| CF    | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 19.9  | 8:00  | 9.11 | 8.24 | 33.26 | 22.46 | 3.94 | 4   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:26  | 9.1  | 8.34 | 33.15 | 22.42 | 2.11 | 5   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:26  | 9.1  | 8.32 | 33.30 | 22.37 | 2.18 | 3   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 4.45  | 8:25  | 9.06 | 8.33 | 33.14 | 22.42 | 2.69 | 4   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Middle  | 4.45  | 8:25  | 9.2  | 8.34 | 33.21 | 22.25 | 2.49 | 5   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 7.9   | 8:24  | 9.14 | 8.31 | 33.26 | 22.27 | 2.2  | 3   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Flood | Bottom  | 7.9   | 8:24  | 9.15 | 8.32 | 33.12 | 22.46 | 1.9  | 4   |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:43  | 9.02 | 8.11 | 32.64 | 22.98 | 2.18 | 5   |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Flood | Surface | 1     | 8:43  | 9.09 | 8.16 | 32.60 | 22.94 | 2.32 | 5   |
|       |          |       |          |           |         |       |       |      |      |       |       |      |     |

| WSR02 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4.6   | 8:42  | 9.14 | 8.16 | 32.53 | 22.89 | 2.01 | 4      |
|-------|----------|-------|----------------------|-----------|---------|-------|-------|------|------|-------|-------|------|--------|
| WSR02 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4.6   | 8:42  | 9.01 | 8.12 | 32.65 | 22.81 | 2.17 | 3      |
| WSR02 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 8.2   | 8:41  | 9.21 | 8.11 | 32.59 | 22.97 | 2.22 | 4      |
| WSR02 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 8.2   | 8:41  | 9.03 | 8.18 | 32.61 | 22.99 | 2.28 | 5      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 8:57  | 8.84 | 8.42 | 33.21 | 22.28 | 2.71 | 3      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 8:57  | 8.94 | 8.34 | 33.36 | 22.31 | 3.11 | 4      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4     | 8:56  | 8.92 | 8.36 | 33.24 | 22.37 | 2.24 | 5      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4     | 8:56  | 8.77 | 8.36 | 33.36 | 22.38 | 2.02 | 6      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 7     | 8:55  | 8.82 | 8.36 | 33.33 | 22.40 | 2.41 | 5      |
| WSR03 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 7     | 8:55  | 8.79 | 8.39 | 33.32 | 22.47 | 2.55 | 5      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 9:11  | 9.01 | 8.29 | 32.72 | 22.33 | 2.5  | 6      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 9:11  | 8.96 | 8.32 | 32.63 | 22.25 | 2.88 | 7      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 3.75  | 9:10  | 8.97 | 8.32 | 32.72 | 22.42 | 2.34 | 3      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 3.75  | 9:10  | 8.9  | 8.28 | 32.63 | 22.28 | 2.14 | 3      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 6.5   | 9:09  | 9.03 | 8.31 | 32.61 | 22.34 | 2.02 | 5      |
| WSR04 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 6.5   | 9:09  | 8.86 | 8.26 | 32.60 | 22.39 | 1.9  | 6      |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 10:20 | 9.56 | 8.34 | 33.33 | 22.62 | 2.51 | 4      |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 10:20 | 9.55 | 8.42 | 33.41 | 22.62 | 2.42 | 5      |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 7.85  | 10:20 | 9.55 | 8.34 | 33.32 | 22.67 | 2.42 | 16     |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 7.85  | 10:19 | 9.53 | 8.41 | 33.33 | 22.72 | 2.59 | 15     |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 14.7  | 10:18 | 9.53 | 8.41 | 33.40 | 22.72 | 1.93 | 4      |
| WSR16 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 14.7  | 10:18 | 9.44 | 8.41 | 33.38 | 22.67 | 2.31 | 4      |
| WSR33 | 20220407 | Sunny |                      | Mid-Flood | Surface | 14.7  | 9:26  | 9.28 | 8.16 | 32.72 | 22.80 | 2.14 | 4      |
| WSR33 | 20220407 | Sunny | Moderate<br>Moderate | Mid-Flood | Surface | 1     | 9:26  | 9.26 | 8.15 | 32.74 | 22.85 | 2.46 | 3      |
| WSR33 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 3.65  | 9:25  | 9.26 | 8.23 | 32.74 | 22.84 | 2.40 | 4      |
| WSR33 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 3.65  | 9:25  | 9.28 | 8.2  | 32.86 | 22.79 | 2.3  | 4      |
| WSR33 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 6.3   | 9:24  | 9.41 | 8.23 | 32.82 | 22.81 | 2.49 | 3      |
| WSR33 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 6.3   | 9:24  | 9.21 | 8.16 | 32.71 | 22.85 | 2.49 | 4      |
| WSR36 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 9:24  | 8.83 | 8.23 | 32.60 | 23.01 | 2.43 | 4      |
| WSR36 | 20220407 | Sunny |                      | Mid-Flood | Surface | 1     | 9:39  | 8.87 | 8.21 | 32.62 | 22.80 | 2.56 | 4      |
| WSR36 | 20220407 |       | Moderate             | Mid-Flood | Middle  | 3.8   | 9:39  | 8.75 | 8.23 | 32.70 | 22.82 | 2.15 | 5      |
|       | 20220407 | Sunny | Moderate             |           |         |       |       |      |      |       | 22.85 | 2.34 | 6      |
| WSR36 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 3.8   | 9:39  | 8.93 | 8.25 | 32.72 |       |      |        |
| WSR36 |          | Sunny | Moderate             | Mid-Flood | Bottom  | 6.6   | 9:38  | 8.75 | 8.22 | 32.72 | 22.95 | 1.69 | 5<br>5 |
| WSR36 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 6.6   | 9:38  | 8.73 | 8.26 | 32.64 | 22.98 | 1.72 |        |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 9:56  | 8.6  | 8.43 | 32.74 | 22.42 | 1.91 | 6      |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Surface | 1 1   | 9:56  | 8.54 | 8.37 | 32.80 | 22.44 | 2.11 | 7      |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4.1   | 9:55  | 8.58 | 8.4  | 32.72 | 22.43 | 2.35 | 6      |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Middle  | 4.1   | 9:55  | 8.63 | 8.43 | 32.79 | 22.40 | 2.46 | 6      |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 7.2   | 9:54  | 8.6  | 8.42 | 32.87 | 22.41 | 2.33 | 8      |
| WSR37 | 20220407 | Sunny | Moderate             | Mid-Flood | Bottom  | 7.2   | 9:54  | 8.66 | 8.41 | 32.86 | 22.54 | 2.02 | 6      |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 10:44 | 9.21 | 7.92 | 30.36 | 20.57 | 3.87 | 3      |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 10:44 | 8.2  | 8.01 | 29.91 | 20.61 | 3.59 | 2.5    |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Middle  | 10.25 | 10:43 | 7.89 | 8.09 | 29.42 | 20.39 | 3.41 | 2.5    |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Middle  | 10.25 | 10:43 | 7.18 | 8.15 | 30.33 | 20.59 | 3.53 | 2.5    |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Bottom  | 19.5  | 10:42 | 9.23 | 8.09 | 30.15 | 20.55 | 3.37 | 4      |
| CE    | 20220409 | Sunny | Moderate             | Mid-Flood | Bottom  | 19.5  | 10:42 | 9.03 | 8.19 | 29.50 | 20.38 | 3.32 | 2.5    |
| CF    | 20220409 | Sunny | Moderate             | Mid-Flood | Surface | 1     | 8:02  | 7.67 | 8.12 | 29.98 | 20.81 | 4.65 | 3      |

| CF    | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 8:02  | 9.19 | 8.05 | 29.60 | 20.73 | 4.39 | 2.5 |
|-------|----------|-------|----------|-----------|---------|------|-------|------|------|-------|-------|------|-----|
| CF    | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 9.65 | 8:01  | 7.83 | 8    | 29.83 | 20.69 | 4.82 | 3   |
| CF    | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 9.65 | 8:01  | 8.68 | 8.04 | 29.84 | 20.81 | 4.75 | 2.5 |
| CF    | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 18.3 | 8:00  | 9.22 | 8.2  | 29.32 | 20.82 | 4.23 | 3   |
| CF    | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 18.3 | 8:00  | 9.17 | 8.07 | 29.55 | 20.80 | 4.66 | 3   |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 8:26  | 8.89 | 7.95 | 30.20 | 20.49 | 2.9  | 2.5 |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 8:26  | 7.38 | 8.21 | 29.83 | 20.52 | 2.82 | 2.5 |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 4.6  | 8:25  | 9.24 | 8.03 | 29.60 | 20.52 | 2.92 | 3   |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 4.6  | 8:25  | 7.96 | 8.19 | 30.12 | 20.62 | 2.51 | 2.5 |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 8.2  | 8:24  | 8.82 | 8.08 | 29.47 | 20.41 | 2.48 | 3   |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 8.2  | 8:24  | 8.72 | 8.12 | 30.18 | 20.40 | 2.91 | 3   |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 8:47  | 9.03 | 7.91 | 29.81 | 20.30 | 2.4  | 2.5 |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 8:47  | 8.05 | 8.03 | 30.01 | 20.36 | 2.25 | 3   |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 4.9  | 8:46  | 8.32 | 7.97 | 29.91 | 20.41 | 2.21 | 4   |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 4.9  | 8:46  | 7.44 | 8.05 | 29.39 | 20.27 | 1.97 | 3   |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 8.8  | 8:45  | 7.65 | 8.1  | 30.12 | 20.35 | 2.3  | 3   |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 8.8  | 8:45  | 8.38 | 8.04 | 30.29 | 20.38 | 2.03 | 5   |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:02  | 8.39 | 8.13 | 30.38 | 20.77 | 3.62 | 3   |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:02  | 9.16 | 8.19 | 29.68 | 20.80 | 3.36 | 2.5 |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.9  | 9:01  | 8.13 | 8.08 | 30.37 | 20.83 | 2.86 | 3   |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.9  | 9:01  | 7.82 | 8.14 | 29.51 | 20.91 | 3.42 | 2.5 |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.8  | 9:00  | 8.6  | 8.01 | 29.87 | 20.71 | 2.9  | 3   |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.8  | 9:00  | 7.57 | 7.94 | 30.37 | 20.79 | 2.48 | 3   |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:16  | 8.45 | 8.22 | 29.40 | 20.78 | 2.46 | 2.5 |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:16  | 8.89 | 8.23 | 30.13 | 20.72 | 2.86 | 3   |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.8  | 9:15  | 8.24 | 8.2  | 30.06 | 20.73 | 2.9  | 2.5 |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.8  | 9:15  | 7.2  | 7.93 | 29.69 | 20.76 | 2.93 | 2.5 |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.6  | 9:14  | 7.32 | 8.12 | 29.81 | 20.72 | 2.77 | 4   |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.6  | 9:14  | 8.27 | 8.13 | 29.75 | 20.71 | 2.82 | 5   |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 10:21 | 7.12 | 8.05 | 30.35 | 20.68 | 2.78 | 4   |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 10:21 | 9.22 | 8.04 | 29.88 | 20.47 | 3.19 | 6   |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 8.45 | 10:20 | 8.23 | 8.13 | 30.22 | 20.43 | 2.99 | 2.5 |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 8.45 | 10:20 | 8.98 | 8.16 | 29.33 | 20.57 | 2.53 | 2.5 |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 15.9 | 10:19 | 8.08 | 8.09 | 29.70 | 20.46 | 2.26 | 3   |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 15.9 | 10:19 | 7.55 | 8.23 | 29.45 | 20.60 | 2.41 | 2.5 |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:30  | 7.67 | 8.04 | 30.10 | 20.33 | 2.92 | 2.5 |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:30  | 7.45 | 8.07 | 30.32 | 20.27 | 2.71 | 2.5 |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.7  | 9:29  | 7.83 | 8.14 | 30.16 | 20.40 | 2.58 | 3   |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.7  | 9:29  | 7.13 | 8.21 | 30.34 | 20.34 | 2.59 | 2.5 |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4  | 9:28  | 7.84 | 8.05 | 30.13 | 20.19 | 1.91 | 2.5 |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4  | 9:28  | 7.14 | 8.03 | 30.29 | 20.19 | 1.89 | 2.5 |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:44  | 7.95 | 7.96 | 30.33 | 20.83 | 3.2  | 3   |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Surface | 1    | 9:44  | 8.61 | 8.13 | 29.30 | 20.70 | 2.86 | 2.5 |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.7  | 9:44  | 8.31 | 8.18 | 29.61 | 20.77 | 3.08 | 2.5 |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Middle  | 3.7  | 9:44  | 8.11 | 8.11 | 30.24 | 20.79 | 3.09 | 3   |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4  | 9:43  | 8.49 | 8.02 | 30.08 | 20.76 | 2.63 | 2.5 |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Flood | Bottom  | 6.4  | 9:43  | 7.24 | 8.01 | 29.46 | 20.64 | 2.26 | 4   |
|       |          |       |          |           |         |      |       |      |      |       |       |      |     |

| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 9:59  | 8.56 | 8.2  | 31.53 | 20.27 | 3.24 | 3   |
|----------------|----------|----------------|----------------------|------------------------|--------------------|-------|-------|------|------|-------|-------|------|-----|
| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 9:59  | 8.97 | 8.12 | 31.92 | 20.45 | 2.83 | 3   |
| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.9   | 9:58  | 9.14 | 8.17 | 31.58 | 20.22 | 2.92 | 2.5 |
| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.9   | 9:58  | 9.58 | 8.15 | 31.42 | 20.24 | 2.94 | 3   |
| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.8   | 9:57  | 9.09 | 8.01 | 31.49 | 20.45 | 2.75 | 5   |
| WSR37          | 20220409 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.8   | 9:57  | 8.38 | 8.2  | 31.52 | 20.34 | 2.91 | 3   |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 15:49 | 9.07 | 8.03 | 28.97 | 21.39 | 3.32 | 2.5 |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 15:49 | 9.13 | 7.95 | 28.95 | 21.50 | 2.97 | 3   |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 11.55 | 15:48 | 9.17 | 7.89 | 28.91 | 21.49 | 3.25 | 3   |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 11.55 | 15:48 | 9.16 | 8    | 28.91 | 21.41 | 3.67 | 3   |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 22.1  | 15:47 | 9.18 | 7.92 | 28.94 | 21.45 | 3.26 | 3   |
| CE             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 22.1  | 15:47 | 9.09 | 7.96 | 28.93 | 21.51 | 3.64 | 4   |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 13:08 | 9.47 | 7.96 | 29.57 | 21.74 | 4.03 | 3   |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 13:08 | 9.58 | 8.13 | 29.70 | 21.70 | 4.14 | 3   |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 10.5  | 13:07 | 9.5  | 8.08 | 29.61 | 21.72 | 4.39 | 3   |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 10.5  | 13:07 | 9.63 | 8.11 | 29.65 | 21.66 | 3.9  | 3   |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 20    | 13:06 | 9.57 | 8.07 | 29.63 | 21.62 | 4.36 | 2.5 |
| CF             | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 20    | 13:06 | 9.44 | 8.13 | 29.68 | 21.63 | 4.37 | 3   |
| WSR01          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 13:32 | 9.73 | 8.06 | 29.28 | 21.38 | 2.79 | 3   |
| WSR01          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 13:32 | 9.73 | 8.11 | 29.21 | 21.35 | 3.04 | 3   |
| WSR01          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 4.3   | 13:31 | 9.73 | 7.99 | 29.25 | 21.37 | 2.84 | 2.5 |
| WSR01          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 4.3   | 13:31 | 9.72 | 7.99 | 29.26 | 21.32 | 2.92 | 3   |
| WSR01          | 20220412 |                |                      |                        |                    | 7.6   | 13:30 | 9.72 | 8.05 | 29.29 | 21.40 | 2.68 | 2.5 |
| WSR01          | 20220412 | Sunny<br>Sunny | Moderate             | Mid-Flood<br>Mid-Flood | Bottom             | 7.6   | 13:30 | 9.71 | 8.06 | 29.29 | 21.40 | 2.08 | 3   |
| WSR01<br>WSR02 | 20220412 |                | Moderate             |                        | Bottom             | 1     | 13:50 | 9.71 | 7.83 | 29.28 | 21.37 | 2.31 | 2.5 |
| WSR02          | 20220412 | Sunny<br>Sunny | Moderate<br>Moderate | Mid-Flood<br>Mid-Flood | Surface<br>Surface | 1     | 13:50 | 8.87 | 7.03 | 29.82 | 21.25 | 2.41 | 3   |
|                |          |                |                      |                        |                    |       |       |      |      |       | 21.23 |      |     |
| WSR02          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 4.7   | 13:49 | 9.02 | 7.85 | 29.85 |       | 2.13 | 4   |
| WSR02          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 4.7   | 13:49 | 9.04 | 7.97 | 29.90 | 21.33 | 1.98 | 3   |
| WSR02          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 8.4   | 13:48 | 9.06 | 7.94 | 29.87 | 21.23 | 2.23 | 4   |
| WSR02          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 8.4   | 13:48 | 9    | 7.9  | 29.81 | 21.29 | 1.88 | 3   |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 14:04 | 9.86 | 8.07 | 29.16 | 21.82 | 2.45 | 2.5 |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 14:04 | 9.81 | 8.03 | 29.06 | 21.79 | 2.6  | 3   |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.75  | 14:03 | 9.82 | 8.11 | 29.08 | 21.90 | 2.8  | 2.5 |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.75  | 14:03 | 9.93 | 8.13 | 29.13 | 21.77 | 3    | 2.5 |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.5   | 14:02 | 9.94 | 8.14 | 29.04 | 21.82 | 2.1  | 2.5 |
| WSR03          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.5   | 14:02 | 9.77 | 8.03 | 29.04 | 21.78 | 2.08 | 3   |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 14:18 | 9.92 | 8.16 | 29.53 | 21.78 | 2.69 | 2.5 |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 14:18 | 9.95 | 8.11 | 29.57 | 21.69 | 2.94 | 3   |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.7   | 14:17 | 9.95 | 8.07 | 29.47 | 21.73 | 2.53 | 2.5 |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 3.7   | 14:17 | 9.89 | 8.11 | 29.51 | 21.72 | 2.81 | 2.5 |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.4   | 14:16 | 9.81 | 8.19 | 29.47 | 21.65 | 2.71 | 2.5 |
| WSR04          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 6.4   | 14:16 | 9.92 | 8.06 | 29.49 | 21.77 | 2.49 | 2.5 |
| WSR16          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 15:25 | 9.28 | 8.12 | 29.89 | 21.73 | 3.47 | 2.5 |
| WSR16          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Surface            | 1     | 15:25 | 9.21 | 8.11 | 29.98 | 21.72 | 3.48 | 2.5 |
| WSR16          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 8.05  | 15:24 | 9.22 | 8.2  | 29.99 | 21.67 | 2.84 | 2.5 |
| WSR16          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Middle             | 8.05  | 15:24 | 9.23 | 8.07 | 29.95 | 21.67 | 2.89 | 2.5 |
| WSR16          | 20220412 | Sunny          | Moderate             | Mid-Flood              | Bottom             | 15.1  | 15:23 | 9.25 | 8.21 | 29.87 | 21.71 | 2.69 | 3   |
|                |          |                |                      |                        |                    |       |       |      |      |       |       |      |     |

| WSR16 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 15.1  | 15:23 | 9.21 | 8.08 | 29.95 | 21.67 | 3.09 | 2.5 |
|-------|----------|----------|----------|-----------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:32 | 8.9  | 7.98 | 28.89 | 21.34 | 3.4  | 2.5 |
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:32 | 8.86 | 7.89 | 28.76 | 21.28 | 3.2  | 2.5 |
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 3.6   | 14:31 | 8.83 | 7.95 | 28.90 | 21.21 | 2.88 | 2.5 |
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 3.6   | 14:31 | 8.81 | 7.88 | 28.80 | 21.30 | 3.12 | 2.5 |
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 6.2   | 14:30 | 8.85 | 7.85 | 28.82 | 21.33 | 2.69 | 2.5 |
| WSR33 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 6.2   | 14:30 | 8.98 | 7.98 | 28.86 | 21.32 | 2.71 | 2.5 |
| WSR36 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:46 | 9.44 | 8.03 | 29.83 | 21.49 | 3.22 | 2.5 |
| WSR36 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:46 | 9.38 | 8.12 | 29.73 | 21.49 | 3.36 | 2.5 |
| WSR36 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 3.75  | 14:46 | 9.34 | 8.04 | 29.74 | 21.49 | 3.18 | 2.5 |
| WSR36 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 3.75  | 14:46 | 9.33 | 7.97 | 29.77 | 21.49 | 3.14 | 2.5 |
| WSR36 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 6.5   | 14:45 | 9.45 | 7.97 | 29.71 | 21.51 | 2.96 | 2.5 |
| WSR36 | 20220412 |          |          |           |         | 6.5   | 14:45 | 9.35 | 8.02 | 29.71 | 21.41 | 2.76 | 2.5 |
|       |          | Sunny    | Moderate | Mid-Flood | Bottom  |       |       |      |      |       |       |      | 2.5 |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:02 | 9.15 | 8.11 | 29.14 | 21.27 | 2.8  |     |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:02 | 8.99 | 8.16 | 29.11 | 21.32 | 3.14 | 3   |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 4     | 15:01 | 9.01 | 8.07 | 29.11 | 21.24 | 2.56 | 2.5 |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Middle  | 4     | 15:01 | 8.99 | 8.16 | 29.17 | 21.35 | 2.84 | 2.5 |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 7     | 15:00 | 9.21 | 8.18 | 29.09 | 21.36 | 2.14 | 3   |
| WSR37 | 20220412 | Sunny    | Moderate | Mid-Flood | Bottom  | 7     | 15:00 | 9.11 | 8.21 | 29.17 | 21.29 | 1.94 | 2.5 |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 17:34 | 9.09 | 8.29 | 33.31 | 23.32 | 3.23 | 3   |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 17:34 | 9.08 | 8.3  | 33.25 | 23.27 | 3.14 | 3   |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 10.25 | 17:33 | 8.97 | 8.38 | 33.32 | 23.27 | 3.1  | 2.5 |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 10.25 | 17:33 | 9.09 | 8.31 | 33.24 | 23.30 | 2.98 | 2.5 |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 19.5  | 17:32 | 8.98 | 8.32 | 33.22 | 23.39 | 3.52 | 2.5 |
| CE    | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 19.5  | 17:32 | 9.02 | 8.35 | 33.26 | 23.28 | 3.76 | 3   |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:52 | 8.84 | 8.42 | 33.71 | 23.82 | 4.5  | 3   |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 14:52 | 8.7  | 8.36 | 33.67 | 23.86 | 4.63 | 2.5 |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 10.9  | 14:51 | 8.68 | 8.34 | 33.72 | 23.89 | 3.85 | 2.5 |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 10.9  | 14:51 | 8.72 | 8.35 | 33.65 | 23.89 | 3.75 | 4   |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 20.8  | 14:50 | 8.74 | 8.34 | 33.74 | 23.94 | 4.09 | 3   |
| CF    | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 20.8  | 14:50 | 8.73 | 8.33 | 33.65 | 23.83 | 4.05 | 4   |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:16 | 9.3  | 8.22 | 33.27 | 23.87 | 3.29 | 2.5 |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:16 | 9.37 | 8.19 | 33.40 | 23.77 | 3.49 | 3   |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.65  | 15:15 | 9.25 | 8.2  | 33.36 | 23.76 | 2.88 | 3   |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.65  | 15:15 | 9.19 | 8.15 | 33.43 | 23.76 | 2.97 | 4   |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 8.3   | 15:14 | 9.33 | 8.2  | 33.34 | 23.73 | 3.14 | 2.5 |
| WSR01 | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 8.3   | 15:14 | 9.19 | 8.15 | 33.30 | 23.75 | 3.18 | 3   |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:34 | 9.16 | 8.14 | 33.10 | 23.90 | 2.36 | 4   |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:34 | 9.12 | 8.11 | 32.98 | 23.87 | 2.25 | 5   |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.5   | 15:33 | 9.25 | 8.18 | 32.93 | 23.93 | 2.16 | 2.5 |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.5   | 15:33 | 9.24 | 8.16 | 32.92 | 23.99 | 2.27 | 2.5 |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 8     | 15:32 | 9.23 | 8.14 | 33.10 | 23.96 | 2.06 | 4   |
| WSR02 | 20220414 | Sunny    | Moderate | Mid-Flood | Bottom  | 8     | 15:32 | 9.06 | 8.18 | 32.97 | 23.97 | 2.4  | 4   |
| WSR03 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:48 | 9.25 | 8.28 | 33.61 | 24.11 | 3.37 | 2.5 |
| WSR03 | 20220414 | Sunny    | Moderate | Mid-Flood | Surface | 1     | 15:48 | 9.26 | 8.32 | 33.56 | 24.05 | 3.24 | 2.5 |
| WSR03 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.05  | 15:47 | 9.11 | 8.29 | 33.69 | 23.95 | 2.76 | 5   |
| WSR03 | 20220414 | Sunny    | Moderate | Mid-Flood | Middle  | 4.05  | 15:47 | 9.09 | 8.33 | 33.52 | 23.98 | 2.88 | 2.5 |
|       |          | <i>j</i> |          |           |         |       |       |      | 0.00 |       |       |      |     |

| WSR03 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 7.1   | 15:46 | 9.28 | 8.36 | 33.56 | 23.99 | 2.31 | 3   |
|-------|----------|----------------|----------------------|------------------------|------------------|-------|-------|------|------|-------|-------|------|-----|
| WSR03 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 7.1   | 15:46 | 9.14 | 8.29 | 33.63 | 24.06 | 2.29 | 2.5 |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:02 | 8.92 | 8.21 | 32.83 | 23.83 | 3.13 | 3   |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:02 | 8.82 | 8.23 | 32.91 | 23.84 | 3.59 | 4   |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 3.4   | 16:01 | 9.02 | 8.16 | 32.95 | 23.92 | 2.97 | 3   |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 3.4   | 16:01 | 8.85 | 8.22 | 32.81 | 23.86 | 2.73 | 2.5 |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 5.8   | 16:00 | 9.03 | 8.2  | 32.82 | 23.96 | 3.09 | 3   |
| WSR04 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 5.8   | 16:00 | 8.96 | 8.25 | 32.85 | 24.00 | 3.34 | 2.5 |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 17:10 | 9.27 | 8.36 | 32.54 | 24.07 | 3.56 | 3   |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 17:10 | 9.35 | 8.3  | 32.65 | 23.97 | 3.12 | 3   |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 8.4   | 17:09 | 9.4  | 8.33 | 32.63 | 24.00 | 3.14 | 4   |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 8.4   | 17:09 | 9.23 | 8.31 | 32.61 | 24.00 | 2.86 | 3   |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 15.8  | 17:08 | 9.4  | 8.35 | 32.59 | 23.97 | 2.42 | 5   |
| WSR16 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 15.8  | 17:08 | 9.26 | 8.31 | 32.58 | 24.00 | 2.78 | 5   |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:17 | 8.8  | 8.26 | 33.70 | 23.57 | 2.91 | 2.5 |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:17 | 8.8  | 8.29 | 33.54 | 23.63 | 3.07 | 4   |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 3.8   | 16:16 | 8.7  | 8.27 | 33.54 | 23.66 | 2.51 | 2.5 |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 3.8   | 16:16 | 8.84 | 8.3  | 33.67 | 23.64 | 2.88 | 3   |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 6.6   | 16:15 | 8.87 | 8.28 | 33.50 | 23.63 | 2.69 | 4   |
| WSR33 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 6.6   | 16:15 | 8.75 | 8.3  | 33.53 | 23.69 | 2.36 | 6   |
| WSR36 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:30 | 8.65 | 8.33 | 33.07 | 23.80 | 2.87 | 4   |
| WSR36 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:30 | 8.56 | 8.3  | 33.03 | 23.78 | 3.03 | 4   |
| WSR36 | 20220414 |                |                      |                        | Middle           | 3.4   | 16:30 | 8.7  | 8.3  | 32.93 | 23.83 | 2.46 | 4   |
| WSR36 | 20220414 | Sunny          | Moderate             | Mid-Flood<br>Mid-Flood | Middle           | 3.4   | 16:30 | 8.55 | 8.26 | 33.03 | 23.69 | 2.24 | 4   |
| WSR36 | 20220414 | Sunny          | Moderate             |                        |                  | 5.8   | 16:30 | 8.48 | 8.29 | 32.97 | 23.74 | 2.71 | 5   |
| WSR36 | 20220414 | Sunny<br>Sunny | Moderate<br>Moderate | Mid-Flood<br>Mid-Flood | Bottom<br>Bottom | 5.8   | 16:29 | 8.5  | 8.34 | 32.97 | 23.67 | 2.48 | 5   |
|       |          |                |                      |                        |                  |       |       |      |      |       |       |      |     |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:47 | 8.62 | 8.36 | 32.65 | 24.08 | 3.42 | 3   |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Surface          | 1     | 16:47 | 8.6  | 8.33 | 32.59 | 24.11 | 2.86 | 3   |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 4.4   | 16:46 | 8.44 | 8.41 | 32.72 | 24.00 | 3.03 | 5   |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Middle           | 4.4   | 16:46 | 8.61 | 8.4  | 32.72 | 24.00 | 2.98 | 5   |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 7.8   | 16:45 | 8.61 | 8.4  | 32.51 | 23.97 | 2.73 | 3   |
| WSR37 | 20220414 | Sunny          | Moderate             | Mid-Flood              | Bottom           | 7.8   | 16:45 | 8.62 | 8.35 | 32.67 | 23.97 | 2.98 | 2.5 |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 18:02 | 8.87 | 7.98 | 32.53 | 22.34 | 3.36 | 5   |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 18:02 | 9.02 | 8.05 | 32.61 | 22.18 | 3.02 | 4   |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Middle           | 10.15 | 18:01 | 9.1  | 7.98 | 32.84 | 22.27 | 3.4  | 8   |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Middle           | 10.15 | 18:01 | 8.97 | 8.07 | 32.55 | 22.35 | 3.38 | 5   |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Bottom           | 19.3  | 18:00 | 8.85 | 8.08 | 32.71 | 22.21 | 3.47 | 5   |
| CE    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Bottom           | 19.3  | 18:00 | 9.08 | 7.97 | 32.81 | 22.35 | 3.19 | 3   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 15:22 | 9.01 | 8.09 | 32.48 | 22.44 | 3.72 | 7   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 15:22 | 9.1  | 8.02 | 32.40 | 22.43 | 3.64 | 4   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Middle           | 10.4  | 15:21 | 9.06 | 8    | 32.35 | 22.59 | 4.08 | 6   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Middle           | 10.4  | 15:21 | 9.17 | 8.15 | 32.47 | 22.58 | 3.92 | 3   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Bottom           | 19.8  | 15:20 | 8.96 | 8.16 | 32.24 | 22.53 | 4.61 | 6   |
| CF    | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Bottom           | 19.8  | 15:20 | 9.03 | 8.08 | 32.31 | 22.59 | 3.95 | 3   |
| WSR01 | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 15:44 | 9.15 | 8.06 | 33.13 | 22.34 | 2.34 | 8   |
| WSR01 | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Surface          | 1     | 15:44 | 9.06 | 7.97 | 33.01 | 22.19 | 1.99 | 4   |
| WSR01 | 20220416 | Cloudy         | Moderate             | Mid-Flood              | Middle           | 4.4   | 15:43 | 9.25 | 8.02 | 33.24 | 22.29 | 2.39 | 5   |
|       |          |                |                      |                        |                  |       |       |      |      |       |       |      |     |

| WSR01 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 4.4    | 15:43 | 9.21 | 7.99 | 33.28 | 22.24 | 2.13 | 4   |
|-------|----------|--------|----------|-----------|---------|--------|-------|------|------|-------|-------|------|-----|
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.8    | 15:42 | 9.06 | 8.11 | 33.00 | 22.34 | 2.03 | 6   |
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.8    | 15:42 | 9.22 | 8.12 | 33.03 | 22.33 | 2.3  | 6   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:03 | 9.25 | 8.17 | 32.27 | 22.41 | 2.33 | 2.5 |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:03 | 9.25 | 8.33 | 32.15 | 22.29 | 2.24 | 2.5 |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 4.7    | 16:02 | 9.45 | 8.3  | 31.97 | 22.46 | 2.2  | 6   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 4.7    | 16:02 | 9.25 | 8.21 | 32.06 | 22.48 | 2.48 | 4   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 8.4    | 16:01 | 9.28 | 8.3  | 32.04 | 22.36 | 2.04 | 4   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 8.4    | 16:01 | 9.32 | 8.2  | 32.04 | 22.44 | 2.13 | 5   |
|       |          |        |          |           |         |        |       |      |      |       | 22.44 |      | 3   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1<br>1 | 16:18 | 9.42 | 8.1  | 32.80 |       | 2.88 | 4   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface |        | 16:18 | 9.35 | 8.13 | 32.78 | 22.57 | 2.61 |     |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 4.05   | 16:17 | 9.48 | 8.12 | 32.76 | 22.44 | 2.39 | 3   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 4.05   | 16:17 | 9.2  | 8.18 | 32.71 | 22.51 | 2.71 | 2.5 |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.1    | 16:16 | 9.22 | 8.13 | 32.79 | 22.54 | 1.99 | 2.5 |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.1    | 16:16 | 9.24 | 8.08 | 32.76 | 22.48 | 2.27 | 2.5 |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:32 | 9.75 | 8.07 | 32.14 | 22.24 | 2.71 | 4   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:32 | 9.91 | 8.11 | 32.03 | 22.16 | 2.68 | 6   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.35   | 16:31 | 9.7  | 7.97 | 31.85 | 22.24 | 2.64 | 2.5 |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.35   | 16:31 | 9.79 | 8.1  | 32.18 | 22.11 | 2.43 | 3   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.7    | 16:30 | 9.75 | 8.08 | 32.13 | 22.25 | 2.09 | 4   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.7    | 16:30 | 9.6  | 8.02 | 31.85 | 22.27 | 2    | 5   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:38 | 9.64 | 8.06 | 32.73 | 22.33 | 2.82 | 7   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:38 | 9.64 | 8.1  | 32.64 | 22.25 | 2.73 | 5   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 7.6    | 17:37 | 9.81 | 8.08 | 32.58 | 22.40 | 2.66 | 5   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 7.6    | 17:37 | 9.92 | 8.09 | 32.54 | 22.32 | 2.75 | 8   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 14.2   | 17:36 | 9.82 | 8.05 | 32.57 | 22.31 | 1.8  | 3   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 14.2   | 17:36 | 9.83 | 8.17 | 32.39 | 22.24 | 2    | 2.5 |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:47 | 9.36 | 8.13 | 33.04 | 22.16 | 3.35 | 4   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 16:47 | 9.35 | 8.12 | 33.19 | 22.14 | 3.09 | 4   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85   | 16:46 | 9.36 | 8.11 | 33.11 | 22.07 | 2.85 | 4   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85   | 16:46 | 9.37 | 8.14 | 33.00 | 22.22 | 2.47 | 3   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7    | 16:45 | 9.59 | 8.2  | 33.12 | 22.16 | 2.7  | 5   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7    | 16:45 | 9.4  | 8.19 | 33.10 | 22.22 | 3.06 | 4   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:01 | 9.83 | 8.31 | 32.67 | 22.54 | 2.15 | 2.5 |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:01 | 9.88 | 8.3  | 33.01 | 22.60 | 1.93 | 3   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.4    | 17:01 | 9.74 | 8.26 | 32.68 | 22.58 | 2.26 | 5   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.4    | 17:01 | 9.73 | 8.16 | 32.81 | 22.42 | 2.35 | 4   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.8    | 17:00 | 9.95 | 8.16 | 32.84 | 22.60 | 1.87 | 6   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.8    | 17:00 | 9.83 | 8.15 | 32.97 | 22.43 | 2.16 | 6   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:17 | 9.34 | 8.29 | 32.42 | 22.21 | 2.18 | 4   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 17:17 | 9.16 | 8.24 | 32.12 | 22.03 | 2.31 | 2.5 |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 17:16 | 9.13 | 8.22 | 32.17 | 22.24 | 2.34 | 2.5 |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 17:16 | 9.15 | 8.3  | 32.30 | 22.05 | 2.14 | 2.5 |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 17:15 | 9.13 | 8.22 | 32.17 | 22.18 | 1.88 | 3   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 17:15 | 9.11 | 8.21 | 32.34 | 22.16 | 1.84 | 4   |
| CE    | 20220410 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:26 | 9.11 | 8.21 | 28.91 | 22.17 | 3.08 | 2.5 |
| CE    |          |        |          |           |         | 1      |       | 9.23 |      |       |       |      | 3   |
| CE    | 20220419 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:26 | 9.38 | 8.29 | 29.11 | 22.28 | 3.01 | 3   |

| CE    | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 11.15   | 10:25 | 9.31  | 8.31 | 29.06 | 22.34 | 3.14 | 2.5 |
|-------|----------|--------|----------|------------|---------|---------|-------|-------|------|-------|-------|------|-----|
| CE    | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 11.15   | 10:25 | 9.34  | 8.24 | 28.93 | 22.26 | 2.9  | 3   |
| CE    | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 21.3    | 10:24 | 9.33  | 8.24 | 29.05 | 22.3  | 3.21 | 3   |
| CE    | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 21.3    | 10:24 | 9.27  | 8.2  | 29.17 | 22.2  | 3.66 | 4   |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:02  | 9.45  | 8.05 | 28.78 | 21.9  | 3.44 | 2.5 |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:02  | 9.37  | 8.04 | 28.77 | 21.91 | 3.74 | 2.5 |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 10.3    | 8:01  | 9.21  | 8.01 | 28.74 | 22    | 3.68 | 4   |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 10.3    | 8:01  | 9.38  | 7.99 | 28.65 | 21.99 | 3.93 | 3   |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 19.6    | 8:00  | 9.22  | 8.07 | 28.56 | 21.95 | 4.08 | 2.5 |
| CF    | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 19.6    | 8:00  | 9.27  | 7.96 | 28.69 | 22    | 4.27 | 2.5 |
|       | 20220419 | Cloudy | Moderate | Mid-Flood  |         | 19.0    |       | 9.27  |      |       | 22.1  | 2.76 |     |
| WSR01 | 20220419 |        |          |            | Surface |         | 8:24  |       | 8.18 | 29.05 | 22.12 | 2.76 | 3   |
| WSR01 |          | Cloudy | Moderate | Mid-Flood  | Surface | 1 1 1 5 | 8:24  | 10.03 | 8.14 | 29.18 |       |      | 3   |
| WSR01 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 4.15    | 8:23  | 9.89  | 8.14 | 29.25 | 22.18 | 2.52 | 3   |
| WSR01 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 4.15    | 8:23  | 10.11 | 8.14 | 29.08 | 22.18 | 2.52 | 3   |
| WSR01 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 7.3     | 8:22  | 10.12 | 8.21 | 29.27 | 22.27 | 2.18 | 3   |
| WSR01 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 7.3     | 8:22  | 10.13 | 8.12 | 29.03 | 22.1  | 2.34 | 4   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:42  | 9.91  | 8.18 | 29.09 | 21.45 | 2.46 | 4   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:42  | 9.98  | 8.13 | 29.03 | 21.45 | 2.24 | 3   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 4.65    | 8:41  | 9.92  | 8.17 | 28.88 | 21.49 | 2.2  | 3   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 4.65    | 8:41  | 10.04 | 8.24 | 29.1  | 21.5  | 2.33 | 3   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 8.3     | 8:40  | 10    | 8.19 | 29.06 | 21.37 | 2.33 | 3   |
| WSR02 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 8.3     | 8:40  | 10    | 8.15 | 29.04 | 21.48 | 2.44 | 5   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:55  | 9.47  | 8    | 29.59 | 21.9  | 2.39 | 4   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 8:55  | 9.55  | 8.08 | 29.4  | 21.85 | 2.26 | 4   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.95    | 8:54  | 9.56  | 8.02 | 29.39 | 21.79 | 2.34 | 3   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.95    | 8:54  | 9.45  | 8.08 | 29.58 | 21.89 | 2.34 | 4   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.9     | 8:53  | 9.46  | 7.98 | 29.6  | 21.81 | 2.12 | 3   |
| WSR03 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.9     | 8:53  | 9.49  | 8.04 | 29.61 | 21.82 | 2.23 | 3   |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 9:08  | 9.11  | 8.19 | 29.78 | 21.46 | 2.49 | 2.5 |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 9:08  | 9.2   | 8.2  | 29.85 | 21.37 | 2.68 | 4   |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.8     | 9:07  | 9.18  | 8.28 | 29.68 | 21.35 | 2.33 | 3   |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.8     | 9:07  | 9.18  | 8.29 | 29.85 | 21.37 | 2.64 | 3   |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.6     | 9:06  | 9.19  | 8.26 | 29.77 | 21.48 | 2.18 | 4   |
| WSR04 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.6     | 9:06  | 9.32  | 8.24 | 29.89 | 21.42 | 2.59 | 5   |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 10:02 | 9.39  | 8.22 | 29.45 | 22.12 | 2.4  | 3   |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 10:02 | 9.43  | 8.14 | 29.35 | 22.31 | 2.37 | 3   |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 8.4     | 10:01 | 9.28  | 8.21 | 29.36 | 22.18 | 2.25 | 2.5 |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 8.4     | 10:01 | 9.3   | 8.23 | 29.47 | 22.26 | 2.17 | 3   |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 15.8    | 10:00 | 9.29  | 8.22 | 29.42 | 22.13 | 1.68 | 3   |
| WSR16 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 15.8    | 10:00 | 9.19  | 8.17 | 29.46 | 22.21 | 1.42 | 6   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 9:20  | 9.61  | 8.22 | 28.95 | 21.52 | 2.75 | 4   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 9:20  | 9.62  | 8.19 | 28.88 | 21.46 | 2.6  | 6   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.75    | 9:19  | 9.68  | 8.11 | 28.99 | 21.49 | 2.51 | 4   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Middle  | 3.75    | 9:19  | 9.64  | 8.14 | 28.75 | 21.58 | 2.5  | 4   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.5     | 9:18  | 9.77  | 8.1  | 28.8  | 21.41 | 1.69 | 5   |
| WSR33 | 20220419 | Cloudy | Moderate | Mid-Flood  | Bottom  | 6.5     | 9:18  | 9.69  | 8.22 | 28.82 | 21.43 | 1.96 | 4   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood  | Surface | 1       | 9:31  | 9.31  | 8.11 | 29.39 | 21.42 | 2.82 | 4   |
| MOUSO | 20220417 | Cioudy | moderate | MIIU-FIUUU | Surface | 1       | 7.31  | 9.31  | 0.11 | 49.37 | 41.44 | 4.04 |     |

| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:31  | 9.21  | 8.06 | 29.25 | 21.6  | 2.91 | 4   |
|-------|----------|--------|----------|--------------|----------|------|-------|-------|------|-------|-------|------|-----|
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.45 | 9:31  | 9.26  | 8.1  | 29.39 | 21.5  | 2.13 | 4   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.45 | 9:31  | 9.38  | 8.05 | 29.32 | 21.51 | 2.23 | 4   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood    | Bottom   | 5.9  | 9:30  | 9.32  | 8.11 | 29.38 | 21.4  | 2.19 | 5   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Flood    | Bottom   | 5.9  | 9:30  | 9.21  | 8.08 | 29.43 | 21.46 | 1.83 | 3   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:43  | 10.03 | 8.09 | 29.14 | 21.88 | 2.52 | 4   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:43  | 10.03 | 8.15 | 29.12 | 21.8  | 2.66 | 7   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.05 | 9:42  | 10.11 | 8.11 | 29.35 | 22.03 | 2.67 | 6   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.05 | 9:42  | 10.06 | 8.09 | 29.32 | 21.83 | 2.94 | 3   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Bottom   | 7.1  | 9:41  | 10.11 | 8.13 | 29.12 | 21.91 | 2.15 | 3   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Flood    | Bottom   | 7.1  | 9:41  | 10.19 | 8.16 | 29.31 | 21.85 | 1.97 | 4   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 10:47 | 9.38  | 8.06 | 33.91 | 23.29 | 3.15 | 6   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 10:47 | 9.59  | 8.08 | 33.92 | 23.1  | 3.1  | 5   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 11.2 | 10:46 | 9.57  | 8.13 | 34    | 23.26 | 3.36 | 6   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 11.2 | 10:46 | 9.6   | 8.14 | 34.04 | 23.19 | 3.28 | 5   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 21.4 | 10:45 | 9.54  | 8.16 | 34.05 | 23.21 | 3.33 | 5   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 21.4 | 10:45 | 9.51  | 8.13 | 33.79 | 23.12 | 3.76 | 5   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:02  | 9.33  | 8.23 | 34.07 | 23.43 | 4.37 | 5   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:02  | 9.2   | 8.22 | 33.97 | 23.42 | 4.49 | 6   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 9.7  | 8:01  | 9.39  | 8.33 | 34.03 | 23.29 | 4.24 | 6   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 9.7  | 8:01  | 9.23  | 8.29 | 34.08 | 23.46 | 4.74 | 5   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 18.4 | 8:00  | 9.22  | 8.22 | 33.95 | 23.37 | 4.35 | 3   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 18.4 | 8:00  | 9.29  | 8.23 | 33.9  | 23.29 | 4.25 | 4   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:26  | 9.57  | 8    | 33.69 | 23.27 | 2.65 | 5   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:26  | 9.49  | 7.99 | 33.64 | 23.36 | 2.67 | 6   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.55 | 8:25  | 9.46  | 8.06 | 33.69 | 23.15 | 2.55 | 5   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.55 | 8:25  | 9.4   | 7.97 | 33.64 | 23.33 | 2.43 | 7   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 8.1  | 8:24  | 9.54  | 8.02 | 33.68 | 23.25 | 2.27 | 5   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 8.1  | 8:24  | 9.52  | 8.02 | 33.63 | 23.16 | 1.99 | 3   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:45  | 9.17  | 8.17 | 33.44 | 22.51 | 2.25 | 2.5 |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 8:45  | 9.13  | 8.13 | 33.42 | 22.48 | 1.92 | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.8  | 8:44  | 9.12  | 8.06 | 33.67 | 22.63 | 2    | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 4.8  | 8:44  | 9.21  | 8.04 | 33.68 | 22.51 | 2.37 | 2.5 |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 8.6  | 8:43  | 9.11  | 8.15 | 33.58 | 22.43 | 2.18 | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 8.6  | 8:43  | 8.99  | 8.11 | 33.41 | 22.44 | 2.11 | 4   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:01  | 9.13  | 8.15 | 33.45 | 22.72 | 2.65 | 5   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:01  | 9.05  | 8.12 | 33.22 | 22.79 | 2.43 | 5   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.8  | 9:00  | 9.14  | 8.15 | 33.22 | 22.86 | 2.04 | 6   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.8  | 9:00  | 9.18  | 8.03 | 33.39 | 22.79 | 1.81 | 4   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 6.6  | 8:59  | 9.16  | 8.13 | 33.42 | 22.66 | 1.95 | 4   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 6.6  | 8:59  | 9.17  | 8.13 | 33.33 | 22.74 | 1.72 | 7   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:15  | 8.95  | 8.15 | 33.84 | 23.2  | 2.66 | 5   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Surface  | 1    | 9:15  | 8.95  | 8.11 | 33.76 | 23.16 | 2.49 | 7   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.7  | 9:14  | 8.86  | 8.25 | 33.78 | 23.21 | 2.11 | 4   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Middle   | 3.7  | 9:14  | 8.94  | 8.16 | 33.76 | 23.15 | 2.13 | 4   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 6.4  | 9:13  | 8.85  | 8.16 | 33.9  | 23.09 | 1.48 | 6   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Flood    | Bottom   | 6.4  | 9:13  | 8.96  | 8.1  | 33.82 | 23.07 | 1.73 | 4   |
| Wonda | 20220721 | Gloudy | Moderate | 1411u-1 100u | DULLUIII | 0.7  | 7.13  | 0.70  | 0.1  | 33.02 | 43.07 | 1.73 | Т   |

| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:24 | 9.07 | 8.18 | 33.46 | 23.31 | 2.67 | 5   |
|-------|----------|--------|----------|-----------|---------|--------|-------|------|------|-------|-------|------|-----|
| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:24 | 9.07 | 8.12 | 33.44 | 23.21 | 2.46 | 5   |
| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 8.6    | 10:23 | 9.12 | 8.18 | 33.37 | 23.27 | 2.64 | 5   |
| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 8.6    | 10:23 | 9.06 | 8.19 | 33.38 | 23.44 | 2.38 | 4   |
| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 16.2   | 10:22 | 9.02 | 8.26 | 33.56 | 23.34 | 2.11 | 3   |
| WSR16 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 16.2   | 10:22 | 9.03 | 8.18 | 33.33 | 23.2  | 2.51 | 3   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:29  | 9.59 | 8.12 | 33.65 | 23.17 | 2.29 | 4   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:29  | 9.61 | 8.1  | 33.74 | 23.23 | 2.53 | 5   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.6    | 9:28  | 9.63 | 8    | 33.67 | 23.25 | 1.78 | 3   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.6    | 9:28  | 9.46 | 8.1  | 33.67 | 23.24 | 1.56 | 4   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.2    | 9:27  | 9.68 | 8.08 | 33.5  | 23.2  | 1.52 | 5   |
| WSR33 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.2    | 9:27  | 9.58 | 8.09 | 33.69 | 23.37 | 1.34 | 6   |
| WSR36 | 20220421 |        |          |           |         | 1      | 9:42  | 9.31 | 7.98 | 34.07 | 22.85 | 2.23 | 3   |
|       |          | Cloudy | Moderate | Mid-Flood | Surface |        |       |      |      |       |       |      | 3   |
| WSR36 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1 2.55 | 9:42  | 9.37 | 8.01 | 34.13 | 22.78 | 2.37 |     |
| WSR36 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.55   | 9:42  | 9.22 | 8.01 | 34.01 | 22.9  | 2.23 | 7   |
| WSR36 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.55   | 9:42  | 9.34 | 8.13 | 34.07 | 22.85 | 1.98 | 5   |
| WSR36 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.1    | 9:41  | 9.24 | 8.12 | 34    | 22.85 | 1.82 | 2.5 |
| WSR36 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.1    | 9:41  | 9.4  | 8    | 34.06 | 22.79 | 1.74 | 2.5 |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:00 | 9.5  | 8.27 | 33.33 | 22.67 | 2.56 | 3   |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:00 | 9.36 | 8.14 | 33.42 | 22.79 | 2.65 | 3   |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 9:59  | 9.36 | 8.14 | 33.3  | 22.69 | 2.13 | 5   |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 9:59  | 9.44 | 8.21 | 33.23 | 22.76 | 2.48 | 5   |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 9:58  | 9.44 | 8.18 | 33.22 | 22.6  | 1.98 | 3   |
| WSR37 | 20220421 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 9:58  | 9.55 | 8.19 | 33.33 | 22.82 | 2.21 | 3   |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 11:17 | 8.93 | 8.18 | 32.92 | 24.91 | 3.14 | 3   |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 11:17 | 8.81 | 8.23 | 32.87 | 24.77 | 3.26 | 2.5 |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 12.2   | 11:16 | 8.76 | 8.24 | 32.97 | 24.77 | 3.68 | 3   |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 12.2   | 11:16 | 8.82 | 8.24 | 32.96 | 24.77 | 3.4  | 5   |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 23.4   | 11:15 | 8.67 | 8.16 | 32.90 | 24.85 | 3.6  | 2.5 |
| CE    | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 23.4   | 11:15 | 8.82 | 8.19 | 33.04 | 24.74 | 3.57 | 3   |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 8:47  | 8.95 | 8.29 | 33.82 | 24.71 | 4.17 | 2.5 |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 8:47  | 9.1  | 8.3  | 33.75 | 24.71 | 4.88 | 3   |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 10.9   | 8:46  | 8.98 | 8.34 | 33.77 | 24.69 | 4.38 | 2.5 |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 10.9   | 8:46  | 9.17 | 8.37 | 33.87 | 24.65 | 4.16 | 3   |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 20.8   | 8:45  | 9.05 | 8.35 | 33.85 | 24.73 | 4.12 | 9   |
| CF    | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 20.8   | 8:45  | 9.23 | 8.35 | 33.76 | 24.63 | 4.16 | 6   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:09  | 8.28 | 8.25 | 33.64 | 24.69 | 2.57 | 9   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:09  | 8.47 | 8.26 | 33.47 | 24.84 | 3.02 | 6   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.15   | 9:08  | 8.45 | 8.21 | 33.70 | 24.72 | 2.91 | 8   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.15   | 9:08  | 8.43 | 8.2  | 33.54 | 24.68 | 2.75 | 5   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.3    | 9:07  | 8.28 | 8.19 | 33.65 | 24.69 | 2.26 | 3   |
| WSR01 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.3    | 9:07  | 8.46 | 8.24 | 33.50 | 24.68 | 2.48 | 3   |
| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:26  | 9.32 | 8.35 | 33.43 | 24.74 | 2.17 | 3   |
| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:26  | 9.41 | 8.33 | 33.30 | 24.63 | 2.48 | 3   |
| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.5    | 9:25  | 9.51 | 8.38 | 33.35 | 24.68 | 2.33 | 6   |
| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.5    | 9:25  | 9.42 | 8.36 | 33.28 | 24.77 | 2.29 | 4   |
| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 8      | 9:24  | 9.23 | 8.38 | 33.44 | 24.63 | 1.81 | 3   |
|       |          |        |          |           |         |        |       |      |      |       |       |      |     |

| WSR02 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 8      | 9:24  | 9.4  | 8.3  | 33.41 | 24.77 | 1.81 | 2.5 |
|-------|----------|--------|----------|-----------|---------|--------|-------|------|------|-------|-------|------|-----|
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:38  | 8.73 | 8.16 | 33.54 | 24.75 | 2.73 | 3   |
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:38  | 8.67 | 8.19 | 33.60 | 24.60 | 3.02 | 4   |
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 9:37  | 8.66 | 8.21 | 33.43 | 24.63 | 3.11 | 2.5 |
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.9    | 9:37  | 8.68 | 8.2  | 33.67 | 24.60 | 2.75 | 3   |
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 9:36  | 8.61 | 8.17 | 33.50 | 24.54 | 2.98 | 10  |
| WSR03 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.8    | 9:36  | 8.55 | 8.21 | 33.52 | 24.64 | 2.53 | 7   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:50  | 8.33 | 8.13 | 33.67 | 24.50 | 2.43 | 4   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 9:50  | 8.47 | 8.19 | 33.79 | 24.57 | 2.54 | 3   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.8    | 9:49  | 8.3  | 8.16 | 33.80 | 24.70 | 2.65 | 3   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.8    | 9:49  | 8.36 | 8.17 | 33.60 | 24.49 | 3.06 | 5   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.6    | 9:48  | 8.32 | 8.2  | 33.86 | 24.57 | 2.36 | 4   |
| WSR04 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.6    | 9:48  | 8.41 | 8.17 | 33.82 | 24.60 | 2.62 | 4   |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:54 | 8.79 | 8.09 | 33.76 | 24.79 | 3.22 | 4   |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:54 | 8.6  | 8.15 | 33.74 | 24.77 | 3.05 | 2.5 |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 8.55   | 10:53 | 8.87 | 8.1  | 33.88 | 24.79 | 2.12 | 2.5 |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 8.55   | 10:53 | 8.62 | 8.13 | 33.77 | 24.80 | 2.36 | 3   |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 16.1   | 10:52 | 8.71 | 8.08 | 33.78 | 24.84 | 2.41 | 4   |
| WSR16 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 16.1   | 10:52 | 8.87 | 8.15 | 33.74 | 24.76 | 2.54 | 3   |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:03 | 8.85 | 8.18 | 33.61 | 24.56 | 2.76 | 3   |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:03 | 8.71 | 8.19 | 33.63 | 24.36 | 2.96 | 3   |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85   | 10:02 | 8.95 | 8.1  | 33.78 | 24.46 | 2.89 | 2.5 |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85   | 10:02 | 8.9  | 8.14 | 33.75 | 24.36 | 3.12 | 2.5 |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7    | 10:01 | 8.99 | 8.19 | 33.60 | 24.43 | 2.37 | 3   |
| WSR33 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7    | 10:01 | 8.83 | 8.15 | 33.65 | 24.54 | 2.29 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:16 | 9.59 | 8.29 | 34.06 | 24.67 | 2.92 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:16 | 9.32 | 8.24 | 33.99 | 24.85 | 2.98 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.7    | 10:16 | 9.54 | 8.27 | 33.83 | 24.64 | 2.53 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 3.7    | 10:16 | 9.44 | 8.2  | 33.84 | 24.85 | 2.51 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.4    | 10:15 | 9.47 | 8.27 | 33.88 | 24.84 | 2.45 | 2.5 |
| WSR36 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.4    | 10:15 | 9.4  | 8.22 | 34.05 | 24.80 | 2.49 | 2.5 |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:32 | 8.53 | 8.21 | 32.84 | 24.98 | 2.51 | 2.5 |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Surface | 1      | 10:32 | 8.72 | 8.26 | 32.85 | 25.07 | 2.85 | 3   |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.2    | 10:31 | 8.68 | 8.22 | 32.83 | 25.04 | 2.51 | 3   |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Middle  | 4.2    | 10:31 | 8.49 | 8.24 | 32.79 | 25.04 | 2.81 | 4   |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.4    | 10:30 | 8.49 | 8.26 | 32.75 | 25.04 | 2.17 | 5   |
| WSR37 | 20220423 | Cloudy | Moderate | Mid-Flood | Bottom  | 7.4    | 10:30 | 8.52 | 8.28 | 32.76 | 25.06 | 2.43 | 3   |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Surface | 1      | 15:40 | 8.85 | 8.09 | 30.37 | 26.56 | 2.87 | 2.5 |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Surface | 1 110  | 15:40 | 8.89 | 8.05 | 30.15 | 26.44 | 2.93 | 3   |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Middle  | 11.9   | 15:39 | 8.84 | 8.03 | 30.15 | 26.43 | 2.69 | 5   |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Middle  | 11.9   | 15:39 | 8.79 | 8    | 30.33 | 26.41 | 2.72 | 4   |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Bottom  | 22.8   | 15:38 | 8.91 | 8.08 | 30.26 | 26.49 | 2.61 | 4   |
| CE    | 20220426 | Sunny  | Moderate | Mid-Flood | Bottom  | 22.8   | 15:38 | 8.81 | 8.11 | 30.12 | 26.47 | 2.9  | 3   |
| CF    | 20220426 | Sunny  | Moderate | Mid-Flood | Surface | 1      | 13:01 | 8.78 | 8.05 | 30.37 | 26.72 | 3.41 | 4   |
| CF    | 20220426 | Sunny  | Moderate | Mid-Flood | Surface | 1 0.65 | 13:01 | 8.9  | 8.14 | 30.30 | 26.59 | 3.43 | 4   |
| CF    | 20220426 | Sunny  | Moderate | Mid-Flood | Middle  | 9.65   | 13:00 | 8.87 | 8.08 | 30.30 | 26.61 | 3.26 | 5   |
| CF    | 20220426 | Sunny  | Moderate | Mid-Flood | Middle  | 9.65   | 13:00 | 8.95 | 8.12 | 30.41 | 26.72 | 3.12 | 5   |

| CF     | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 18.3 | 12:59 | 8.93 | 8.13 | 30.16 | 26.57 | 3.49         | 4   |
|--------|----------|---------|----------|------------------------|---------|------|-------|------|------|-------|-------|--------------|-----|
| CF     | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 18.3 | 12:59 | 8.94 | 8.15 | 30.14 | 26.73 | 3.88         | 4   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:24 | 8.52 | 8.24 | 30.63 | 26.20 | 2.61         | 5   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:24 | 8.52 | 8.26 | 30.47 | 26.16 | 2.67         | 7   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.4  | 13:23 | 8.56 | 8.22 | 30.46 | 26.16 | 3            | 6   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.4  | 13:23 | 8.41 | 8.21 | 30.51 | 26.30 | 2.55         | 7   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 7.8  | 13:22 | 8.41 | 8.18 | 30.52 | 26.11 | 2.63         | 6   |
| WSR01  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 7.8  | 13:22 | 8.38 | 8.27 | 30.49 | 26.23 | 2.65         | 7   |
| WSR02  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:42 | 8.88 | 8.29 | 30.55 | 26.33 | 2.22         | 5   |
| WSR02  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:42 | 9.01 | 8.22 | 30.41 | 26.32 | 2.51         | 5   |
| WSR02  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.8  | 13:41 | 8.84 | 8.28 | 30.29 | 26.32 | 2.21         | 3   |
| WSR02  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.8  | 13:41 | 8.97 | 8.28 | 30.38 | 26.41 | 2.1          | 3   |
| WSR02  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 8.6  | 13:40 | 9.02 | 8.19 | 30.37 | 26.48 | 1.98         | 2.5 |
| WSR02  | 20220426 | Sunny   |          | Mid-Flood<br>Mid-Flood | Bottom  | 8.6  | 13:40 | 8.92 | 8.21 | 30.55 | 26.31 | 1.78         | 3   |
|        |          |         | Moderate |                        |         |      |       |      |      |       |       |              |     |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:56 | 9.09 | 7.99 | 31.18 | 26.39 | 2.86<br>2.93 | 5   |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 13:56 | 9.24 | 8    | 31.17 | 26.38 |              | 4   |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.2  | 13:55 | 9.27 | 8.04 | 31.15 | 26.28 | 2.43         | 3   |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 4.2  | 13:55 | 9.15 | 8.06 | 31.07 | 26.33 | 2.12         | 2.5 |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 7.4  | 13:54 | 9.27 | 8.07 | 31.03 | 26.37 | 1.96         | 3   |
| WSR03  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 7.4  | 13:54 | 9.05 | 8.01 | 31.17 | 26.30 | 2.06         | 4   |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:10 | 9.04 | 8.27 | 30.59 | 26.07 | 2.1          | 2.5 |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:10 | 8.97 | 8.27 | 30.73 | 26.14 | 2.44         | 3   |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.35 | 14:09 | 9.09 | 8.24 | 30.72 | 26.10 | 1.79         | 4   |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.35 | 14:09 | 9.04 | 8.2  | 30.74 | 26.25 | 1.68         | 4   |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 5.7  | 14:08 | 9.2  | 8.23 | 30.66 | 26.12 | 2.26         | 4   |
| WSR04  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 5.7  | 14:08 | 9.08 | 8.3  | 30.78 | 26.20 | 2.18         | 3   |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 15:17 | 9.36 | 8.13 | 30.62 | 26.88 | 2.27         | 4   |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 15:17 | 9.36 | 8.15 | 30.57 | 26.74 | 2.37         | 4   |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 8.45 | 15:16 | 9.35 | 8.14 | 30.58 | 26.89 | 2.44         | 2.5 |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 8.45 | 15:16 | 9.27 | 8.11 | 30.72 | 26.78 | 2.06         | 2.5 |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 15.9 | 15:15 | 9.41 | 8.08 | 30.61 | 26.87 | 2.27         | 6   |
| WSR16  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 15.9 | 15:15 | 9.33 | 8.13 | 30.79 | 26.72 | 1.98         | 6   |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:25 | 8.97 | 8    | 31.04 | 26.96 | 2.3          | 5   |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:25 | 8.95 | 7.98 | 31.09 | 26.94 | 2.32         | 6   |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.5  | 14:24 | 8.85 | 8.01 | 30.96 | 26.93 | 2.29         | 7   |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.5  | 14:24 | 8.89 | 7.97 | 30.83 | 26.94 | 2.08         | 5   |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 6    | 14:23 | 8.89 | 7.96 | 31.13 | 26.94 | 1.82         | 10  |
| WSR33  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 6    | 14:23 | 8.88 | 7.96 | 30.95 | 27.01 | 1.99         | 10  |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:38 | 8.46 | 7.99 | 31.14 | 26.21 | 2.64         | 8   |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:38 | 8.56 | 7.99 | 31.20 | 26.19 | 2.41         | 5   |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.35 | 14:38 | 8.42 | 8.06 | 30.90 | 26.30 | 2.2          | 10  |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Middle  | 3.35 | 14:38 | 8.52 | 8.04 | 31.08 | 26.21 | 2.42         | 12  |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 5.7  | 14:37 | 8.54 | 8.01 | 30.96 | 26.17 | 2.2          | 8   |
| WSR36  | 20220426 | Sunny   | Moderate | Mid-Flood              | Bottom  | 5.7  | 14:37 | 8.35 | 7.96 | 31.14 | 26.17 | 2.35         | 6   |
| WSR37  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:53 | 9.32 | 8.23 | 31.08 | 26.97 | 2.64         | 6   |
| WSR37  | 20220426 | Sunny   | Moderate | Mid-Flood              | Surface | 1    | 14:53 | 9.4  | 8.21 | 31.34 | 26.98 | 2.39         | 6   |
| WSR37  | 20220426 | Sunny   | Moderate | Mid-Flood<br>Mid-Flood | Middle  | 4.35 | 14:52 | 9.35 | 8.18 | 31.12 | 26.93 | 2.17         | 5   |
| VVSRS/ | 20220420 | Juility | Moderate | MIU-FIUUU              | muuie   | 4.33 | 14:34 | 9.33 | 0.10 | 31.14 | 40.73 | 4.1/         | J   |

| WSR37 | 20220426 | Sunny            | Moderate             | Mid-Flood              | Middle            | 4.35  | 14:52 | 9.31 | 8.26 | 31.39 | 26.92 | 1.91 | 8   |
|-------|----------|------------------|----------------------|------------------------|-------------------|-------|-------|------|------|-------|-------|------|-----|
| WSR37 | 20220426 | Sunny            | Moderate             | Mid-Flood              | Bottom            | 7.7   | 14:51 | 9.29 | 8.2  | 31.33 | 26.87 | 1.82 | 8   |
| WSR37 | 20220426 | Sunny            | Moderate             | Mid-Flood              | Bottom            | 7.7   | 14:51 | 9.23 | 8.25 | 31.10 | 26.94 | 1.94 | 6   |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 17:38 | 9.4  | 8.01 | 29.73 | 27.99 | 2.52 | 4   |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 17:38 | 9.34 | 8.12 | 29.88 | 27.90 | 2.76 | 4   |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 10.15 | 17:37 | 9.35 | 8.05 | 29.79 | 27.99 | 2.98 | 6   |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 10.15 | 17:37 | 9.4  | 8.02 | 29.88 | 27.92 | 2.77 | 7   |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 19.3  | 17:36 | 9.34 | 8.06 | 29.84 | 27.91 | 3.62 | 2.5 |
| CE    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 19.3  | 17:36 | 9.37 | 8.04 | 29.74 | 27.91 | 3.18 | 2.5 |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 15:02 | 9.15 | 8.28 | 30.92 | 27.64 | 3.44 | 5   |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 15:02 | 9.2  | 8.31 | 30.78 | 27.62 | 3.99 | 3   |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 10.25 | 15:01 | 9.24 | 8.32 | 30.79 | 27.70 | 3.69 | 4   |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 10.25 | 15:01 | 9.11 | 8.29 | 30.77 | 27.62 | 3.84 | 5   |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 19.5  | 15:00 | 9.1  | 8.33 | 30.86 | 27.61 | 4.03 | 3   |
| CF    | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 19.5  | 15:00 | 9.17 | 8.25 | 30.90 | 27.63 | 4.31 | 4   |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 19.5  | 15:26 | 9.85 | 8.14 | 29.98 | 27.84 | 2.18 | 3   |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 15:26 | 9.8  | 8.12 | 29.90 | 27.80 | 2.03 | 3   |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 4.4   | 15:25 | 9.82 | 8.16 | 29.95 | 27.87 | 2.14 | 5   |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 4.4   | 15:25 | 9.82 | 8.12 | 29.90 | 27.85 | 2.17 | 3   |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 7.8   | 15:24 | 9.89 | 8.2  | 29.89 | 27.85 | 1.59 | 10  |
| WSR01 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 7.8   | 15:24 | 9.88 | 8.2  | 29.93 | 27.87 | 1.63 | 7   |
| WSR02 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 15:43 | 9.48 | 8.17 | 30.40 | 28.28 | 2.28 | 2.5 |
| WSR02 | 20220428 |                  |                      | Mid-Flood              |                   | 1     | 15:43 | 9.55 | 8.2  | 30.46 | 28.20 | 2.05 | 2.5 |
| WSR02 | 20220428 | Cloudy<br>Cloudy | Moderate             | Mid-Flood              | Surface<br>Middle | 4.85  | 15:43 | 9.58 | 8.21 | 30.46 | 28.25 | 2.17 | 4   |
| WSR02 | 20220428 | Cloudy           | Moderate             |                        | Middle            | 4.85  | 15:42 | 9.38 | 8.21 | 30.49 | 28.25 | 2.39 | 4   |
| WSR02 | 20220428 | Cloudy           | Moderate<br>Moderate | Mid-Flood<br>Mid-Flood | Bottom            | 8.7   | 15:42 | 9.44 | 8.16 | 30.37 | 28.21 | 2.08 | 4   |
|       |          |                  |                      |                        |                   |       |       |      |      |       |       |      |     |
| WSR02 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 8.7   | 15:41 | 9.61 | 8.19 | 30.38 | 28.28 | 1.92 | 4   |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 15:56 | 9.42 | 8.13 | 30.59 | 27.77 | 3.03 | 4   |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1 2.7 | 15:56 | 9.48 | 8.08 | 30.65 | 27.75 | 3.03 | 5   |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 3.7   | 15:55 | 9.59 | 8.11 | 30.63 | 27.76 | 2.48 | 4   |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 3.7   | 15:55 | 9.52 | 8.19 | 30.58 | 27.79 | 2.16 | 6   |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 6.4   | 15:54 | 9.47 | 8.16 | 30.59 | 27.79 | 2.16 | 2.5 |
| WSR03 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 6.4   | 15:54 | 9.42 | 8.14 | 30.67 | 27.76 | 2.05 | 3   |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 16:10 | 8.97 | 8.23 | 29.95 | 28.16 | 2.66 | 4   |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 16:10 | 8.97 | 8.15 | 30.06 | 28.11 | 2.91 | 5   |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 3.4   | 16:09 | 9.02 | 8.26 | 29.99 | 28.21 | 2.47 | 2.5 |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 3.4   | 16:09 | 8.93 | 8.16 | 29.99 | 28.13 | 2.64 | 3   |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 5.8   | 16:08 | 9.06 | 8.19 | 30.01 | 28.20 | 2.23 | 2.5 |
| WSR04 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 5.8   | 16:08 | 8.97 | 8.27 | 30.01 | 28.17 | 1.93 | 2.5 |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 17:15 | 9.16 | 8.05 | 30.69 | 28.07 | 2.5  | 2.5 |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 11    | 17:15 | 9.2  | 8.07 | 30.67 | 28.14 | 2.37 | 3   |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 7.95  | 17:14 | 9.16 | 7.97 | 30.67 | 28.12 | 1.76 | 5   |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Middle            | 7.95  | 17:14 | 9.29 | 8.07 | 30.65 | 28.12 | 1.75 | 3   |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 14.9  | 17:13 | 9.15 | 8.07 | 30.68 | 28.05 | 1.72 | 4   |
| WSR16 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Bottom            | 14.9  | 17:13 | 9.28 | 8.09 | 30.70 | 28.04 | 1.87 | 2.5 |
| WSR33 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 16:24 | 9.44 | 8.2  | 30.90 | 28.02 | 2.87 | 3   |
| WSR33 | 20220428 | Cloudy           | Moderate             | Mid-Flood              | Surface           | 1     | 16:24 | 9.44 | 8.15 | 30.86 | 28.08 | 2.92 | 5   |
|       |          |                  |                      |                        |                   |       |       |      |      |       |       |      |     |

| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Middle  | 3.8  | 16:23 | 9.38 | 8.26 | 30.87 | 28.11 | 2.03 | 23  |
|---|----------|--------|-----------|-----------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Middle  | 3.8  | 16:23 | 9.32 | 8.26 | 30.86 | 28.07 | 2.17 | 24  |
| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 6.6  | 16:22 | 9.47 | 8.24 | 30.92 | 28.00 | 1.69 | 20  |
| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 6.6  | 16:22 | 9.48 | 8.19 | 30.93 | 28.01 | 1.95 | 22  |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:38 | 8.94 | 8.04 | 30.54 | 28.29 | 2.07 | 18  |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:38 | 8.9  | 8.06 | 30.44 | 28.37 | 2.27 | 18  |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Middle  | 3.15 | 16:38 | 8.99 | 8.03 | 30.55 | 28.36 | 2.21 | 2.5 |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Middle  | 3.15 | 16:38 | 8.94 | 7.97 | 30.52 | 28.29 | 2.52 | 4   |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 5.3  | 16:37 | 8.88 | 7.98 | 30.53 | 28.26 | 1.69 | 18  |
| WSR36                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 5.3  | 16:37 | 8.9  | 7.94 | 30.45 | 28.36 | 2.01 | 19  |
| WSR37                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:53 | 8.78 | 8.1  | 29.89 | 27.61 | 2.66 | 2.5 |
| WSR37                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:53 | 8.75 | 8.05 | 29.97 | 27.64 | 2.82 | 3   |
| WSR37                                   | 20220428 |        |           |           |         |      | 16:52 | 8.8  | 8.02 | 29.95 | 27.61 | 2.52 | 2.5 |
|   |          | Cloudy | Moderate  | Mid-Flood | Middle  | 4.05 |       |      |      |       |       |      |     |
| WSR37                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.05 | 16:52 | 8.77 | 8.09 | 29.91 | 27.67 | 2.41 | 2.5 |
| WSR37                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 7.1  | 16:51 | 8.73 | 8.08 | 29.94 | 27.67 | 2.04 | 17  |
| WSR37                                   | 20220428 | Cloudy | Moderate  | Mid-Flood | Bottom  | 7.1  | 16:51 | 8.71 | 8.1  | 29.85 | 27.60 | 2.26 | 18  |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 17:57 | 8.98 | 8.16 | 32.58 | 26.14 | 3.62 | 5   |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 17:57 | 9.07 | 8.2  | 32.56 | 26.12 | 3.57 | 6   |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 12.1 | 17:56 | 8.9  | 8.12 | 32.45 | 26.14 | 3.27 | 2.5 |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 12.1 | 17:56 | 9.06 | 8.14 | 32.52 | 26.01 | 3.18 | 4   |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 23.2 | 17:55 | 9.06 | 8.13 | 32.36 | 26.06 | 3.45 | 3   |
| CE                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 23.2 | 17:55 | 8.9  | 8.21 | 32.52 | 26.10 | 3.55 | 3   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 15:22 | 9.29 | 8.25 | 32.59 | 26.38 | 4.56 | 6   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 15:22 | 9.33 | 8.2  | 32.85 | 26.29 | 4.35 | 5   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 10.7 | 15:21 | 9.39 | 8.23 | 32.56 | 26.41 | 4.23 | 4   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 10.7 | 15:21 | 9.42 | 8.27 | 32.71 | 26.43 | 4.25 | 5   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 20.4 | 15:20 | 9.43 | 8.22 | 32.65 | 26.44 | 4.59 | 4   |
| CF                                      | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 20.4 | 15:20 | 9.3  | 8.23 | 32.82 | 26.29 | 3.95 | 4   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 15:46 | 8.82 | 8.16 | 32.34 | 26.38 | 3.62 | 4   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 15:46 | 8.99 | 8.14 | 32.21 | 26.35 | 3.21 | 3   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.65 | 15:45 | 9.03 | 8.1  | 32.33 | 26.42 | 3    | 5   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.65 | 15:45 | 9.01 | 8.1  | 32.38 | 26.31 | 3.36 | 8   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 8.3  | 15:44 | 9.02 | 8.2  | 32.44 | 26.40 | 3.01 | 7   |
| WSR01                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 8.3  | 15:44 | 9.02 | 8.15 | 32.29 | 26.32 | 2.94 | 4   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:04 | 9.31 | 8.13 | 33.08 | 25.75 | 2.15 | 5   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:04 | 9.32 | 8.2  | 33.31 | 25.66 | 1.98 | 3   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.55 | 16:03 | 9.08 | 8.16 | 33.31 | 25.72 | 2.02 | 4   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.55 | 16:03 | 9.2  | 8.17 | 33.23 | 25.61 | 2.17 | 5   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 8.1  | 16:02 | 9.25 | 8.21 | 33.10 | 25.70 | 2.11 | 4   |
| WSR02                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 8.1  | 16:02 | 9.32 | 8.16 | 33.32 | 25.63 | 2    | 2.5 |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:17 | 9.24 | 8.11 | 32.89 | 25.65 | 2.96 | 5   |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:17 | 9.35 | 8.14 | 32.79 | 25.63 | 3.31 | 5   |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.25 | 16:16 | 9.26 | 8.06 | 32.66 | 25.69 | 2.74 | 9   |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Middle  | 4.25 | 16:16 | 9.17 | 8.07 | 32.72 | 25.63 | 3.06 | 7   |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 7.5  | 16:15 | 9.29 | 8.12 | 32.66 | 25.66 | 2.46 | 7   |
| WSR03                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Bottom  | 7.5  | 16:15 | 9.21 | 8.1  | 32.81 | 25.68 | 2.65 | 7   |
| WSR04                                   | 20220430 | Cloudy | Moderate  | Mid-Flood | Surface | 1    | 16:30 | 9.06 | 7.99 | 33.34 | 25.72 | 3.32 | 4   |
| *************************************** | _0220130 | Jioudy | Proderate | u 1100u   | Duriuce |      | 10.00 | 7.00 | 1.22 | 55.51 | 20.72 | 0.01 |     |

| WSR04 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 16:30 | 9.16 | 8.09 | 33.45 | 25.71 | 3.78 | 4   |
|-------|----------|--------|----------|-----------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.75 | 16:29 | 9.23 | 8.09 | 33.24 | 25.69 | 3.66 | 3   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.75 | 16:29 | 9.26 | 8.12 | 33.52 | 25.59 | 3.19 | 5   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.5  | 16:28 | 9.21 | 8.05 | 33.26 | 25.66 | 3.24 | 2.5 |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.5  | 16:28 | 9.07 | 8.1  | 33.41 | 25.64 | 2.72 | 2.5 |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 17:33 | 9.26 | 8.2  | 33.03 | 26.32 | 3.64 | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 17:33 | 9.2  | 8.14 | 33.29 | 26.28 | 3.93 | 2.5 |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 8.2  | 17:32 | 9.38 | 8.19 | 33.11 | 26.32 | 3.14 | 7   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 8.2  | 17:32 | 9.18 | 8.22 | 33.30 | 26.21 | 3.25 | 4   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 15.4 | 17:31 | 9.25 | 8.2  | 33.26 | 26.23 | 2.81 | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 15.4 | 17:31 | 9.17 | 8.14 | 33.16 | 26.29 | 2.77 | 4   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 16:43 | 9.68 | 8.22 | 32.95 | 26.16 | 2.9  | 5   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 16:43 | 9.76 | 8.18 | 33.13 | 26.02 | 3.39 | 9   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.65 | 16:42 | 9.55 | 8.2  | 33.19 | 26.08 | 2.88 | 5   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.65 | 16:42 | 9.69 | 8.2  | 32.95 | 26.02 | 3.18 | 3   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.3  | 16:41 | 9.68 | 8.18 | 33.05 | 26.14 | 2.7  | 4   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.3  | 16:41 | 9.55 | 8.18 | 33.09 | 26.10 | 2.97 | 5   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 16:56 | 8.82 | 8.14 | 32.69 | 26.20 | 2.81 | 7   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 16:56 | 8.82 | 8.18 | 32.51 | 26.23 | 2.83 | 6   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.4  | 16:56 | 8.79 | 8.17 | 32.81 | 26.28 | 2.69 | 3   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.4  | 16:56 | 8.72 | 8.15 | 32.52 | 26.22 | 2.96 | 5   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.8  | 16:55 | 8.85 | 8.18 | 32.66 | 26.30 | 2.28 | 4   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 5.8  | 16:55 | 8.64 | 8.19 | 32.77 | 26.20 | 2.22 | 5   |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 17:11 | 9.69 | 8.05 | 33.42 | 26.22 | 3.52 | 4   |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Surface | 1    | 17:11 | 9.58 | 8.03 | 33.36 | 26.29 | 3    | 5   |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85 | 17:10 | 9.58 | 8.07 | 33.23 | 26.16 | 3.07 | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Middle  | 3.85 | 17:10 | 9.63 | 8.09 | 33.38 | 26.26 | 3.45 | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7  | 17:09 | 9.67 | 8.05 | 33.21 | 26.24 | 2.65 | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Flood | Bottom  | 6.7  | 17:09 | 9.53 | 8    | 33.52 | 26.26 | 2.99 | 2.5 |
|       |          |        |          |           |         |      |       |      |      |       |       |      |     |

| Location | Date     | Weather | Sea Condition | Tidal   | Water Level | Depth (m) | Time  | DO (mg/L) | рН   | Sal (ppt) | Temp (oC) | Turbidty (NTU) | SS (mg/L) |
|----------|----------|---------|---------------|---------|-------------|-----------|-------|-----------|------|-----------|-----------|----------------|-----------|
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 11:26 | 8.7       | 8.05 | 33.15     | 20.46     | 3.61           | 2.5       |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 11:26 | 8.57      | 8.17 | 33.13     | 20.44     | 4.09           | 2.5       |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 11.05     | 11:25 | 8.68      | 8.15 | 33.07     | 20.48     | 3.6            | 2.5       |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 11.05     | 11:25 | 8.75      | 8.08 | 32.98     | 20.30     | 3.8            | 2.5       |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 21.1      | 11:24 | 8.69      | 8.19 | 33.17     | 20.41     | 3.96           | 4         |
| CE       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 21.1      | 11:24 | 8.63      | 8.18 | 33.13     | 20.43     | 3.86           | 4         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:59 | 9.5       | 8.17 | 33.83     | 20.23     | 3.32           | 4         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:59 | 9.42      | 8.19 | 33.68     | 20.21     | 3.01           | 5         |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 10.2      | 13:58 | 9.34      | 8.14 | 33.66     | 20.24     | 3.29           | 2.5       |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 10.2      | 13:58 | 9.37      | 8.16 | 33.84     | 20.19     | 3.15           | 2.5       |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 19.4      | 13:57 | 9.47      | 8.16 | 33.66     | 20.27     | 3.34           | 2.5       |
| CF       | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 19.4      | 13:57 | 9.54      | 8.15 | 33.61     | 20.26     | 3.54           | 4         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:35 | 9.54      | 8.12 | 33.91     | 20.41     | 3.04           | 4         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:35 | 9.51      | 8.08 | 33.90     | 20.41     | 2.58           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.5       | 13:34 | 9.4       | 8.07 | 33.91     | 20.43     | 2.49           | 2.5       |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.5       | 13:34 | 9.36      | 8.15 | 33.81     | 20.26     | 2.69           | 3         |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 8         | 13:33 | 9.32      | 8.14 | 33.94     | 20.24     | 2.75           | 2.5       |
| WSR01    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 8         | 13:33 | 9.51      | 8.21 | 33.74     | 20.27     | 2.68           | 4         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:17 | 9.49      | 8.13 | 33.22     | 19.82     | 2.44           | 5         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:17 | 9.54      | 8.2  | 33.10     | 19.96     | 2.08           | 3         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.85      | 13:16 | 9.55      | 8.11 | 33.21     | 19.90     | 2.04           | 2.5       |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.85      | 13:16 | 9.44      | 8.13 | 33.17     | 19.91     | 2.08           | 2.5       |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 8.7       | 13:15 | 9.55      | 8.12 | 33.10     | 19.89     | 2.25           | 3         |
| WSR02    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 8.7       | 13:15 | 9.53      | 8.09 | 33.09     | 19.94     | 2.1            | 3         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:02 | 8.97      | 7.89 | 33.22     | 20.49     | 2.9            | 2.5       |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 13:02 | 8.98      | 7.93 | 33.31     | 20.52     | 3.23           | 4         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.1       | 13:01 | 9         | 7.93 | 33.27     | 20.53     | 2.65           | 4         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 4.1       | 13:01 | 9.11      | 7.94 | 33.34     | 20.48     | 2.54           | 4         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 7.2       | 13:00 | 8.98      | 7.94 | 33.39     | 20.47     | 2.38           | 4         |
| WSR03    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 7.2       | 13:00 | 9.1       | 7.9  | 33.26     | 20.49     | 2.31           | 2.5       |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 12:51 | 8.51      | 8.21 | 33.24     | 20.11     | 2.97           | 4         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 12:51 | 8.43      | 8.12 | 33.20     | 20.05     | 3.33           | 5         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 3.7       | 12:50 | 8.5       | 8.18 | 33.21     | 20.03     | 3.21           | 4         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 3.7       | 12:50 | 8.44      | 8.13 | 33.26     | 20.10     | 3.08           | 4         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 6.4       | 12:49 | 8.61      | 8.05 | 33.24     | 20.11     | 2.71           | 4         |
| WSR04    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 6.4       | 12:49 | 8.51      | 8.06 | 33.13     | 20.12     | 2.37           | 4         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 11:48 | 8.45      | 8.19 | 33.12     | 20.06     | 3.13           | 4         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 11        | 11:48 | 8.54      | 8.19 | 33.11     | 20.09     | 3              | 3         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 7.75      | 11:47 | 8.6       | 8.18 | 33.05     | 19.92     | 2.62           | 3         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 7.75      | 11:47 | 8.57      | 8.15 | 33.11     | 20.11     | 2.87           | 4         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 14.5      | 11:46 | 8.49      | 8.17 | 33.09     | 20.06     | 2.66           | 5         |
| WSR16    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Bottom      | 14.5      | 11:46 | 8.45      | 8.2  | 33.23     | 20.09     | 3.07           | 6         |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 12:36 | 9.19      | 8.05 | 34.07     | 20.04     | 2.97           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Surface     | 1         | 12:36 | 9.11      | 8.02 | 34.20     | 19.99     | 2.91           | 3         |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 3.5       | 12:35 | 9.18      | 8    | 34.13     | 20.01     | 3.21           | 2.5       |
| WSR33    | 20220402 | Cloudy  | Moderate      | Mid-Ebb | Middle      | 3.5       | 12:35 | 9.2       | 7.97 | 34.03     | 20.03     | 3.34           | 3         |

| WSSB33         20220402         Cloudy         Moderate         Mid-Ebb         Bottom         6         1.234         9.12         7.94         3.404         2.09         2.66         A           WSSB33         20220402         Cloudy         Moderate         Mid-Ebb         Surface         1         1.22.1         9.11         7.93         3.34.3         2.01         3.00         2.5         3           WSSB36         20220402         Cloudy         Moderate         Mid-Ebb         Surface         1         1.22.1         9.11         7.98         3.33.9         2.01         3.03         3           WSSB36         20220402         Cloudy         Moderate         Mid-Ebb         Mid-Ball         2.88         1.22.1         9.15         7.91         3.34.8         2.01         3.03         4           WSB16         20220402         Cloudly         Moderate         Mid-Ball         2.88         1.22.1         9.15         8.88         2.01         2.01         2.05         8.78           WSB17         20220402         Cloudly         Moderate         Mid-Ball         3.85         1.20         9.25         8.19         3.46         2.01         2.25         4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
|---|-------|----------|--------|----------|---------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR583         20220402         Cloudy Moderate Mid-Bibb Surface         1         12.21         9.06         7.798         33.93         20.17         3.09         2.5           WSR586         20220402         Cloudy Moderate Mid-Bibb Middle         3.85         12.221         9.15         7.79         33.98         20.01         3.03         4           WSR586         20220402         Cloudy Moderate Mid-Bibb Middle         3.85         12.21         9.15         7.79         3.388         20.01         3.03         4           WSR586         20220402         Cloudy Moderate Mid-Bibb Middle         3.85         12.21         9.15         7.79         3.30         20.17         3.06         2.5           WSR576         20220402         Cloudy Moderate Mid-Bibb Surface         1         12.20         9.09         7.90         3.39         20.17         3.06         2.5           WSR577         20220402         Cloudy Moderate Mid-Bibb Surface         1         12.09         9.37         81.0         3.41         2.00         2.5         4           WSR577         20220402         Cloudy Moderate Mid-Bibb Surface         1         12.09         9.27         81.16         3.43         2.00         2.5         4  | WSR33 | 20220402 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6    | 12:34 | 9.12 | 7.94 | 34.04 | 20.09 |      |     |
| WSR163         20220402         Cloudy Moderate Mid-Bib Middle 38.5         1         12.21         9.11         7.98         33.99         20.19         3.55         3           WSR163         20220402         Cloudy Moderate Mid-Bib Middle 38.5         12.21         9.18         7.79         33.68         20.21         3.54         3           WSR163         20220402         Cloudy Moderate Mid-Bib Bottom 6.7         12.20         9.13         8.79         34.02         20.12         3.54         3           WSR37         20220402         Cloudy Moderate Mid-Bib Bottom 6.7         12.20         9.13         8.86         33.95         20.14         2.85         4           WSR37         20220402         Cloudy Moderate Mid-Bib Bottom 6.7         12.20         9.13         8.86         33.95         20.14         2.85         4           WSR37         20220402         Cloudy Moderate Mid-Bib Bottom 6.7         12.07         9.93         8.16         34.15         20.10         2.45         2.5           WSR37         20220402         Cloudy Moderate Mid-Bib Bottom 6.7         12.07         9.22         8.14         34.02         20.02         2.7         4           WSR37         20220405         Sunny Moderate Mid-Bib Bottom 6   |       | 20220402 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6    |       | 9.11 | 7.93 |       | 20.02 | 2.7  | 4   |
| NSK86         20204402         Cloudy County         Mid-tible Middle Mid-Bib Mid-Bib Middle Mid-Bib Mid-Bib Middle Mid-Bib |       | 20220402 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 12:21 | 9.06 | 7.98 | 33.93 | 20.17 | 3.09 | 2.5 |
| WSRS6         20024042         Cloudy County         Moderate Mid-Fibb         Middle Stottom         4.7         12:21         9.18         7.99         34.02         20.12         3.54         3           WSRS6         20024042         Cloudy Moderate Mid-Fibb         Bottom         6.7         12:20         9.93         8.06         33.95         20.14         2.85         4           WSRS7         20024042         Cloudy Moderate Mid-Fibb         Mid-Fibb         Surface         1         12:09         9.37         8.06         33.95         20.14         2.25         4           WSRS7         2002402         Cloudy Moderate Mid-Fibb         Mid-Fibb         Surface         1         12:09         9.25         8.19         34.06         20.10         2.45         2.5           WSRS7         2020402         Cloudy Moderate Mid-Fibb         Mid-Fibb         Module 3.85         12:08         9.24         8.16         34.03         20.02         2.77         4           WSRS7         2020405         Cloudy Moderate Mid-Fibb         Mid-Fibb         Bottom         6.7         12:07         9.20         8.15         3.26         2.10         2.6         3           CE         2020405         Sumy   | WSR36 | 20220402 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 12:21 | 9.11 | 7.98 | 33.99 | 20.19 | 3.55 | 3   |
| WSKBA         20204402         Cloudy County         Moderate Mid-Ebb         Bottom         6.7         12.20         9.93         3.95         20.17         3.06         2.5           WSKBA         2020402         Cloudy Moderate         Mid-Ebb         Surface         1         12.09         9.37         8.16         34.15         2.00         2.62         3           WSKBA         2020402         Cloudy Moderate         Mid-Ebb         Surface         1         12.09         9.25         8.16         34.15         2.00         2.52         4           WSKBA         2020402         Cloudy Moderate         Mid-Ebb         Bottom         6.7         12.09         9.25         8.14         34.12         2.00         2.52         4           WSKBA         2020402         Cloudy Moderate         Mid-Ebb         Bottom         6.7         12.07         9.29         8.18         33.03         2.00         2.6         3           CE         20204045         Sunny         Moderate         Mid-Ebb         Bottom         6.7         12.07         9.29         8.18         3.25         2.19         3.08         2.5           CE         20204045         Sunny         Moderate  | WSR36 | 20220402 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.85 | 12:21 | 9.15 | 7.91 | 33.88 | 20.01 | 3.03 | 4   |
| WSR50         20220402         Cloudy Moderate Mid-Ebb         Bottom         6.7         12:20         9.13         8.06         33.95         20.14         2.85         4           WSR37         20220402         Cloudy Moderate Mid-Ebb         Mid-Ebb Surface         1         12:09         9.37         8.16         3.415         2.00         2.62         3           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.14         3.41         2.00         2.52         4           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.16         3.403         2.000         2.6         3           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.16         3.43         2.000         2.6         3           CE         20220405         Sunny Moderate Mid-Ebb Surface         1         1.803         9.50         8.15         3.395         2.00         2.6         3           CE         20220405         Sunny Moderate Mid-Ebb Surface         1         1.803         9.63         8.17         3.265         2.18         4.0  | WSR36 | 20220402 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.85 | 12:21 | 9.18 | 7.99 | 34.02 | 20.12 | 3.54 | 3   |
| WSR50         20220402         Cloudy Moderate Mid-Ebb         Bottom         6.7         12:20         9.13         8.06         33.95         20.14         2.85         4           WSR37         20220402         Cloudy Moderate Mid-Ebb         Mid-Ebb Surface         1         12:09         9.37         8.16         3.415         2.00         2.62         3           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.14         3.41         2.00         2.52         4           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.16         3.403         2.000         2.6         3           WSR37         20220402         Cloudy Moderate Mid-Ebb Middle         3.85         12:08         9.24         8.16         3.43         2.000         2.6         3           CE         20220405         Sunny Moderate Mid-Ebb Surface         1         1.803         9.50         8.15         3.395         2.00         2.6         3           CE         20220405         Sunny Moderate Mid-Ebb Surface         1         1.803         9.63         8.17         3.265         2.18         4.0  | WSR36 | 20220402 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.7  | 12:20 | 9.09 | 7.99 | 33.95 | 20.17 | 3.06 | 2.5 |
| WSR37   20220402   Cloudy   Moderate   Mid-Ebb   Surface   1   12:09   9.37   8.16   34:15   20.05   2.62   3   WSR37   20220402   Cloudy   Moderate   Mid-Ebb   Middle   3.85   12:08   9.22   8.14   34:12   20.09   2.52   4   WSR37   20220402   Cloudy   Moderate   Mid-Ebb   Middle   3.85   12:08   9.22   8.14   34:12   20.09   2.52   4   WSR37   20220402   Cloudy   Moderate   Mid-Ebb   Middle   3.85   12:08   9.22   8.14   34:12   20.09   2.52   4   WSR37   20220402   Cloudy   Moderate   Mid-Ebb   Bottom   6.7   12:07   9.29   8.18   3.393   20.00   2.6   3   3   3   3   3   3   3   3   3   |       | 20220402 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.7  |       | 9.13 | 8.06 |       |       | 2.85 | 4   |
| NSB37   2022402   Cloudy   Moderate   Mid-Ebb   Surface   1   12.09   9.25   8.19   34.06   20.10   2.45   2.5  |       | 20220402 | Cloudy | Moderate | Mid-Ebb | Surface | 1    |       | 9.37 |      | 34.15 |       |      | 3   |
| WSB37   20/220402   Cloudy   Moderate   Mid-Ebb   Middle   3.85   12.08   9.22   8.14   34.12   20.09   2.52   4  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSB37         20220402         Cloudy Moderate Mid-Ebb Bottom         6.7         12:09         9.24         8.16         34.03         20:02         2.77         4           WSB37         20220402         Cloudy Moderate Mid-Ebb Bottom         6.7         12:07         9.29         8.15         33.95         20.08         2.6         3           WSB37         20220405         Sumy Moderate Mid-Ebb Surface         1         13:03         9.59         8.16         33.95         20.08         2.6         3           CE         20220405         Sumy Moderate Mid-Ebb Middle         10.35         13:02         9.63         8.17         32:65         21:99         4.01         2.5           CE         20220405         Sumy Moderate Mid-Ebb Middle         10.35         13:02         9.67         8.15         32:78         2.194         4.01         2.5           CE         20220405         Sumy Moderate Mid-Ebb Bottom         19.7         13:01         9.61         8.12         32.77         2.185         3.69         2.5           CF         20220405         Sumy Moderate Mid-Ebb Surface         1         15:47         9.41         8.15         32:24         2.182         3.4         2.5  |       |          |        |          | Mid-Ebb | Middle  | 3.85 | 12:08 |      |      |       |       |      | 4   |
| WSBR37         20220402         Cloudy         Moderate         Mid-Ebb         Bottom         6.7         12.07         9.2         8.18         33.93         20.00         2.6         3           WSBR37         20220405         Sumy         Moderate         Mid-Ebb         Surface         1         1.207         9.2         8.15         33.95         20.08         2.6         3           CE         20220405         Sumy         Moderate         Mid-Ebb         Mirchea         1         1.303         9.63         8.15         32.65         21.84         3.48         2.5           CE         20220405         Sumy         Moderate         Mid-Ebb         Midele         10.35         13.02         9.67         8.15         32.56         21.84         3.48         2.5           CE         20220405         Sumy         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.61         8.12         32.78         21.94         3.58         2.5           CE         20220405         Sumy         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.51         8.18         32.77         21.88         3.72         2.5 <t< td=""><td></td><td></td><td></td><td>Moderate</td><td>Mid-Ebb</td><td>Middle</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></t<>   |       |          |        | Moderate | Mid-Ebb | Middle  |      |       |      |      |       |       |      | 4   |
| WSR   20220405   Cloudy   Moderate   Mid-libb   Bottom   6.7   12.07   9.29   8.15   33.95   20.08   2.6   2.5  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CE         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         13:03         9.99         8.16         32:62         21:92         3.66         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Midle         10:35         13:02         9.63         8.15         32:56         21.84         3.48         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Midle         10:35         13:02         9.67         8.15         32:56         21.84         3.48         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13:01         9.67         8.15         32.78         21.94         3.88         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13:01         9.59         8.18         32.77         21.88         3.69         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:47         9.33         8.12         32.34         21.94         3.43         3.4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CE         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         1.303         9.63         8.17         32.65         21.89         4.01         2.55           CE         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.35         13.02         9.67         8.15         32.78         21.94         3.58         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.61         8.12         32.77         21.85         3.69         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.61         8.15         32.77         21.88         3.72         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15.47         9.41         8.15         32.24         21.94         3.43         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15.46         9.55         8.9         32.19         21.85         3.33         3      <   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| GE         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.35         13.02         9.63         8.15         32.56         21.84         3.48         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.61         8.15         3.278         21.94         3.58         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13.01         9.51         8.18         3.277         21.88         3.72         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15.47         9.53         8.12         3.24         21.94         3.43         4         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.3         15.46         9.55         8.09         3.2.19         21.95         3.33         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Mid-Ebb         Middle         10.3         15.46         9.41         8.1         32.1         21.95   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13:02         9.67         8.15         3.278         2.194         3.58         2.5           CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13:01         9.59         8.18         32.77         21.88         3.72         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15.47         9.41         8.15         32.24         21.82         3.4         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15.47         9.41         8.15         32.24         21.82         3.4         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.3         15.46         9.55         8.09         32.19         21.85         3.33         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Mid-Bb         8.09         32.2         2.189         2.77         3           CF         20220405         Sunny <td></td>  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CE   20220405   Sunny   Moderate   Mid-Ebb   Bottom   19.7   13.01   9.61   8.12   32.77   21.85   3.69   2.5   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CE         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.7         13:01         9.59         8.18         32.77         21.88         3.72         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:47         9.53         8.12         32.34         21.94         3.43         4           CF         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.3         15:46         9.55         8.09         32.19         21.85         3.33         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.13         2.5  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF   20220405   Sunny   Moderate   Mid-Ebb   Surface   1   15:47   9.41   8.15   3.24   2.182   3.4   2.5   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:47         9.53         8.12         32.34         21.94         3.43         4           CF         20220405         Sunny         Moderate         Mid-Ebb         Midele         10.3         15:46         9.55         8.09         32.19         21.85         3.33         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.15         8.21         31.71         2.186         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31.53         21.99         2.12         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.3         15:46         9.55         8.09         32.19         21.85         3.33         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.89         2.77         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.15         8.21         31.71         21.86         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31.53         21.89         1.92         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid-Ebb         Mid   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF         20220405         Sunny         Moderate         Mid-Ebb         Middle         10.3         15:46         9.41         8.1         32.1         21.92         3.57         2.5           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.37         8.09         32.2         21.83         2.67         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.15         8.21         31.71         21.86         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31.53         21.96         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Midle         4.55         15:24         9.03         8.22         31.55         21.96         2.16         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.27         31.65         2.19         2.12         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15.45         9.37         8.09         3.2.2         21.89         2.77         3           CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15.45         9.39         8.13         32.12         21.83         2.67         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31.53         21.89         1.92         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.03         8.22         31.55         21.96         2.16         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31.68         21.9         2.12         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.06         8.27         31.55         21.91         2.03         3  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| CF         20220405         Sunny         Moderate         Mid-Ebb         Bottom         19.6         15:45         9.39         8.13         32.12         21.83         2.67         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.15         8.21         31.71         21.86         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.03         8.22         31.55         21.96         2.16         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.06         8.27         31.64         21.9         2.12         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.06         8.27         31.56         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.15         8.21         31.71         21.86         2.13         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31.53         21.89         1.92         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.06         8.27         31.64         21.9         2.12         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31.68         21.84         2.18         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31.68         21.84         2.18         2.5           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:04         9.56         8.21         32.43         21.8         2.49         3     <  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Suny         Moderate         Mid-Ebb         Surface         1         15:25         9.14         8.26         31:53         21.89         1.92         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.03         8.22         31:55         21:96         2.16         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31:68         21:84         2.18         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31:68         21:84         2.18         2.5           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32:43         21:8         249         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.54         8.21         32:44         21:11         22:6         3  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.03         8.22         31.55         21.96         2.16         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.27         31.68         21.84         2.18         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.27         31.55         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.66         8.27         31.55         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Midele         4.8         15:03         9.54         8.21         32.44         21.17         1.93         4 <td></td>  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.55         15:24         9.06         8.27         31.64         21.9         2.12         3           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31.68         21.84         2.18         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.06         8.27         31.55         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.41         21.77         1.93         4 <td></td>   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.16         8.22         31.68         21.84         2.18         2.5           WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.06         8.27         31.55         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.44         8.22         32.31         21.74         2.27         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Midle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR01         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.1         15:23         9.06         8.27         31.55         21.91         2.03         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.44         8.22         32.31         21.74         2.27         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Midle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Biddle         4.8         15:03         9.42         8.19         32.41         21.77         1.93         4           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.45         21.85         1.64         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.56         8.21         32.43         21.8         2.49         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.44         8.22         32.31         21.74         2.27         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         15:04         9.44         8.22         32.31         21.74         2.27         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.42         8.19         32.41         21.77         1.93         4           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.54         8.21         32.44         21.81         2.26         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.39         8.2         32.45         21.85         1.64         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Middle         4.8         15:03         9.42         8.19         32.41         21.77         1.93         4           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.39         8.2         32.45         21.85         1.64         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Midle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.37         8.22         32.25         21.84         1.88         3           WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.39         8.2         32.45         21.85         1.64         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR02         20220405         Sunny         Moderate         Mid-Ebb         Bottom         8.6         15:02         9.39         8.2         32.45         21.85         1.64         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.54         8.21         31.84         21.82         2.39         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:48         9.43         8.19         31.71         21.91         2.33         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.46         8.17         31.71         21.98         2.3         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.42         32.5         21.8         3.11         4 <td></td>   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Middle         3.95         14:47         9.52         8.16         31.81         21.83         2.04         3           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.42         32.5         21.8         3.11         4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.41         8.18         31.76         21.87         2.26         4           WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.42         32.5         21.8         3.11         4  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR03         20220405         Sunny         Moderate         Mid-Ebb         Bottom         6.9         14:46         9.55         8.19         31.83         21.88         2.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.42         32.5         21.8         3.11         4  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.41         32.4         21.66         3.03         3           WSR04         20220405         Sunny         Moderate         Mid-Ebb         Surface         1         14:34         8.8         8.42         32.5         21.8         3.11         4  |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR04 20220405 Sunny Moderate Mid-Ebb Surface 1 14:34 8.8 8.42 32.5 21.8 3.11 4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
|   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
| WSR04 20220405 Sunny Moderate Mid-Ebb Middle 3.8 14:33 8.7 8.45 32.48 21.76 2.6 4   |       |          |        |          |         |         |      |       |      |      |       |       |      |     |
|   | WSR04 | 20220405 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.8  | 14:33 | 8.7  | 8.45 | 32.48 | 21.76 | 2.6  | 4   |

| WSR04 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.8   | 14:33 | 8.63 | 8.44 | 32.51 | 21.67 | 2.3  | 3   |
|-------|----------|-------|----------|--------------------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR04 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.6   | 14:32 | 8.67 | 8.4  | 32.43 | 21.67 | 2.62 | 2.5 |
| WSR04 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.6   | 14:32 | 8.68 | 8.41 | 32.3  | 21.82 | 2.41 | 2.5 |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 13:26 | 9.61 | 8.42 | 31.97 | 21.87 | 2.45 | 3   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 13:26 | 9.44 | 8.4  | 32.22 | 21.91 | 2.86 | 4   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 7.9   | 13:25 | 9.54 | 8.38 | 31.98 | 21.91 | 2.65 | 4   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 7.9   | 13:25 | 9.55 | 8.37 | 32.09 | 21.92 | 2.82 | 3   |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 14.8  | 13:24 | 9.57 | 8.39 | 32.15 | 21.93 | 2.34 | 2.5 |
| WSR16 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 14.8  | 13:24 | 9.44 | 8.37 | 31.97 | 21.84 | 2.46 | 2.5 |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:17 | 9.26 | 8.26 | 31.97 | 21.93 | 3.29 | 2.5 |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:17 | 9.26 | 8.23 | 31.93 | 21.85 | 3.48 | 2.5 |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.55  | 14:16 | 9.24 | 8.26 | 31.99 | 21.82 | 2.59 | 2.5 |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.55  | 14:16 | 9.35 | 8.23 | 31.84 | 21.88 | 2.51 | 2.5 |
| WSR33 | 20220405 |       |          | Mid-Ebb<br>Mid-Ebb | Bottom  | 6.1   | 14:15 | 9.35 | 8.27 | 31.81 | 21.9  | 3.01 | 2.5 |
|       |          | Sunny | Moderate |                    |         |       |       |      |      |       |       |      |     |
| WSR33 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.1   | 14:15 | 9.17 | 8.22 | 31.82 | 21.9  | 2.62 | 2.5 |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:02 | 9.33 | 8.1  | 32.46 | 21.67 | 1.72 | 3   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:02 | 9.26 | 8.11 | 32.47 | 21.65 | 1.96 | 3   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.6   | 14:02 | 9.33 | 8.11 | 32.46 | 21.74 | 1.94 | 2.5 |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.6   | 14:02 | 9.25 | 8.1  | 32.46 | 21.68 | 1.66 | 4   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.2   | 14:01 | 9.33 | 8.13 | 32.39 | 21.65 | 1.99 | 6   |
| WSR36 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.2   | 14:01 | 9.35 | 8.13 | 32.46 | 21.69 | 2.24 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 13:48 | 8.94 | 8.38 | 32.1  | 21.77 | 2.04 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 13:48 | 8.81 | 8.42 | 31.98 | 21.81 | 2.33 | 4   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.25  | 13:47 | 8.89 | 8.38 | 31.91 | 21.89 | 2.21 | 3   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.25  | 13:47 | 8.96 | 8.42 | 32    | 21.87 | 2.45 | 2.5 |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.5   | 13:46 | 8.96 | 8.39 | 32.08 | 21.79 | 2.06 | 4   |
| WSR37 | 20220405 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.5   | 13:46 | 8.96 | 8.37 | 32.06 | 21.85 | 1.89 | 2.5 |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:14 | 9.2  | 8.33 | 32.47 | 22.28 | 3.69 | 3   |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 14:14 | 9.3  | 8.26 | 32.43 | 22.25 | 3.87 | 2.5 |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.25 | 14:13 | 9.35 | 8.35 | 32.44 | 22.25 | 3.98 | 6   |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.25 | 14:13 | 9.27 | 8.3  | 32.38 | 22.30 | 4.06 | 6   |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.5  | 14:12 | 9.26 | 8.32 | 32.43 | 22.23 | 3.61 | 4   |
| CE    | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.5  | 14:12 | 9.3  | 8.38 | 32.32 | 22.30 | 3.68 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:51 | 9.5  | 8.17 | 33.25 | 22.98 | 3.5  | 6   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:51 | 9.42 | 8.29 | 33.28 | 23.02 | 2.99 | 7   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.35 | 16:50 | 9.47 | 8.28 | 33.28 | 22.96 | 3.29 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.35 | 16:50 | 9.43 | 8.25 | 33.19 | 23.03 | 3.41 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.7  | 16:49 | 9.44 | 8.25 | 33.07 | 23.01 | 2.93 | 4   |
| CF    | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.7  | 16:49 | 9.52 | 8.25 | 33.15 | 23.04 | 2.65 | 4   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:28 | 9.13 | 8.38 | 33.54 | 22.74 | 2.26 | 9   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:28 | 9.23 | 8.34 | 33.57 | 22.69 | 2.31 | 7   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.3   | 16:27 | 9.12 | 8.37 | 33.41 | 22.65 | 2.6  | 5   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.3   | 16:27 | 9.13 | 8.31 | 33.38 | 22.66 | 2.3  | 6   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.6   | 16:26 | 9.3  | 8.36 | 33.52 | 22.65 | 2.37 | 6   |
| WSR01 | 20220407 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.6   | 16:26 | 9.12 | 8.41 | 33.56 | 22.65 | 2.5  | 4   |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:09 | 9.29 | 8.35 | 33.07 | 22.32 | 2.78 | 14  |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb            | Surface | 1     | 16:09 | 9.21 | 8.41 | 33.12 | 22.26 | 2.54 | 15  |
|       |          |       |          |                    |         |       |       |      |      |       |       |      |     |

| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 4.9   | 16:08 | 9.1  | 8.44 | 33.03 | 22.28 | 2.23 | 2.5 |
|-------|----------|-------|----------|---------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 4.9   | 16:08 | 9.31 | 8.33 | 33.11 | 22.33 | 2.6  | 3   |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 8.8   | 16:07 | 9.3  | 8.39 | 33.16 | 22.27 | 1.77 | 2.5 |
| WSR02 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 8.8   | 16:07 | 9.24 | 8.39 | 33.04 | 22.30 | 1.99 | 3   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:53 | 9.44 | 8.52 | 33.05 | 22.91 | 2.57 | 4   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:53 | 9.51 | 8.43 | 33.10 | 22.94 | 3.02 | 4   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 4.25  | 15:52 | 9.5  | 8.42 | 33.03 | 22.84 | 2.65 | 4   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 4.25  | 15:52 | 9.51 | 8.47 | 33.05 | 22.93 | 2.36 | 5   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.5   | 15:51 | 9.3  | 8.5  | 32.99 | 22.84 | 2.34 | 4   |
| WSR03 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.5   | 15:51 | 9.36 | 8.5  | 33.04 | 22.86 | 2.27 | 3   |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:40 | 8.53 | 8.24 | 33.27 | 22.38 | 2.56 | 3   |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:40 | 8.72 | 8.27 | 33.25 | 22.43 | 2.36 | 3   |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.8   | 15:39 | 8.66 | 8.3  | 33.26 | 22.38 | 2.79 | 2.5 |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.8   | 15:39 | 8.73 | 8.23 | 33.22 | 22.47 | 2.45 | 2.5 |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.6   | 15:38 | 8.57 | 8.21 | 33.08 | 22.47 | 2    | 2.5 |
| WSR04 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.6   | 15:38 | 8.74 | 8.32 | 33.20 | 22.38 | 2.23 | 3   |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 14:36 | 9.55 | 8.47 | 33.41 | 23.00 | 2.98 | 2.5 |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 14:36 | 9.4  | 8.45 | 33.38 | 23.02 | 2.88 | 3   |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 7.7   | 14:35 | 9.56 | 8.48 | 33.48 | 22.91 | 2.26 | 3   |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 7.7   | 14:35 | 9.5  | 8.47 | 33.52 | 22.91 | 2.41 | 5   |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 14.4  | 14:34 | 9.47 | 8.5  | 33.41 | 23.00 | 2.47 | 5   |
| WSR16 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 14.4  | 14:34 | 9.43 | 8.45 | 33.49 | 22.96 | 2.16 | 5   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:24 | 9.3  | 8.45 | 32.93 | 22.36 | 2.63 | 4   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:24 | 9.35 | 8.48 | 32.79 | 22.35 | 2.96 | 4   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.85  | 15:23 | 9.35 | 8.54 | 32.84 | 22.36 | 2.92 | 3   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.85  | 15:23 | 9.22 | 8.42 | 32.96 | 22.30 | 2.55 | 5   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.7   | 15:22 | 9.34 | 8.44 | 32.78 | 22.33 | 2.74 | 3   |
| WSR33 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.7   | 15:22 | 9.37 | 8.52 | 32.87 | 22.39 | 2.73 | 3   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:10 | 8.84 | 8.42 | 32.49 | 22.43 | 2.59 | 5   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 15:10 | 8.75 | 8.46 | 32.38 | 22.50 | 2.9  | 5   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.8   | 15:10 | 8.82 | 8.4  | 32.35 | 22.43 | 2.34 | 5   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.8   | 15:10 | 8.88 | 8.43 | 32.54 | 22.51 | 2.07 | 4   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.6   | 15:09 | 8.84 | 8.39 | 32.53 | 22.44 | 1.78 | 5   |
| WSR36 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.6   | 15:09 | 8.86 | 8.41 | 32.48 | 22.42 | 1.84 | 4   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 14:57 | 8.98 | 8.38 | 33.01 | 22.28 | 2.97 | 5   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 14:57 | 8.92 | 8.33 | 33.03 | 22.28 | 2.54 | 6   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.9   | 14:56 | 8.94 | 8.39 | 32.97 | 22.24 | 2.6  | 5   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Middle  | 3.9   | 14:56 | 9.03 | 8.4  | 32.93 | 22.24 | 2.69 | 6   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.8   | 14:55 | 9.01 | 8.41 | 32.96 | 22.23 | 1.66 | 6   |
| WSR37 | 20220407 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.8   | 14:55 | 9.06 | 8.39 | 32.93 | 22.29 | 1.97 | 7   |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 13:54 | 9.65 | 8.2  | 32.99 | 20.42 | 3.54 | 2.5 |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 13:54 | 9.59 | 8.26 | 33.28 | 20.47 | 3.81 | 3   |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Middle  | 11.95 | 13:53 | 9.55 | 8.1  | 33.19 | 20.57 | 3.8  | 2.5 |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Middle  | 11.95 | 13:53 | 9.53 | 8.3  | 33.11 | 20.50 | 3.49 | 2.5 |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Bottom  | 22.9  | 13:52 | 9.58 | 8.28 | 33.25 | 20.44 | 3.64 | 3   |
| CE    | 20220409 | Sunny | Moderate | Mid-Ebb | Bottom  | 22.9  | 13:52 | 9.7  | 8.23 | 33.22 | 20.47 | 3.56 | 4   |
| CF    | 20220409 | Sunny | Moderate | Mid-Ebb | Surface | 1     | 16:30 | 9.58 | 8.08 | 33.24 | 20.55 | 3.91 | 3   |

| CF    | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 16:30 | 9.55 | 8.16 | 33.31 | 20.64 | 4.23 | 2.5      |
|-------|----------|-------|----------|--------------------|---------|------|-------|------|------|-------|-------|------|----------|
| CF    | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.3 | 16:29 | 9.46 | 8.05 | 33.37 | 20.69 | 4.64 | 3        |
| CF    | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 10.3 | 16:29 | 9.36 | 8.04 | 33.27 | 20.66 | 4.28 | 3        |
| CF    | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.6 | 16:28 | 9.52 | 8.12 | 33.39 | 20.58 | 4.23 | 3        |
| CF    | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 19.6 | 16:28 | 9.46 | 8.22 | 33.29 | 20.56 | 4.22 | 5        |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 16:07 | 9.82 | 8.17 | 32.98 | 20.52 | 2.64 | 3        |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 16:07 | 9.74 | 8.01 | 32.80 | 20.33 | 2.91 | 2.5      |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.3  | 16:06 | 9.81 | 8.16 | 32.98 | 20.50 | 2.43 | 2.5      |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.3  | 16:06 | 9.74 | 7.99 | 32.78 | 20.46 | 2.47 | 2.5      |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.6  | 16:05 | 9.62 | 8.08 | 32.76 | 20.38 | 2.32 | 5        |
| WSR01 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 7.6  | 16:05 | 9.74 | 7.98 | 32.93 | 20.47 | 2.38 | 3        |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:48 | 9.14 | 8.15 | 33.50 | 20.60 | 2.04 | 3        |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:48 | 8.89 | 7.96 | 33.58 | 20.61 | 2.38 | <u>5</u> |
| WSR02 | 20220409 |       |          | Mid-Ebb<br>Mid-Ebb | Middle  | 4.75 | 15:47 | 9.13 | 7.90 | 33.45 | 20.51 | 2.21 | 3        |
|       |          | Sunny | Moderate |                    |         |      |       |      |      |       |       |      |          |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 4.75 | 15:47 | 8.85 | 7.99 | 33.65 | 20.60 | 2.5  | 4        |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 8.5  | 15:46 | 8.98 | 8.08 | 33.41 | 20.66 | 1.99 | 4        |
| WSR02 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 8.5  | 15:46 | 8.96 | 8.2  | 33.44 | 20.69 | 2.27 | 3        |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:33 | 9.19 | 8.17 | 32.67 | 20.40 | 2.75 | 6        |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:33 | 9.19 | 8.22 | 32.67 | 20.28 | 2.49 | 4        |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.8  | 15:32 | 9.09 | 8.29 | 32.38 | 20.40 | 2.49 | 2.5      |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.8  | 15:32 | 9.25 | 8.23 | 32.50 | 20.39 | 2.92 | 4        |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.6  | 15:31 | 9.03 | 8.19 | 32.53 | 20.41 | 2.25 | 5        |
| WSR03 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.6  | 15:31 | 9.09 | 8.09 | 32.42 | 20.21 | 1.89 | 9        |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:21 | 9.07 | 8.13 | 33.40 | 20.87 | 3.29 | 3        |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:21 | 9.09 | 8.12 | 33.45 | 20.86 | 2.76 | 3        |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.7  | 15:20 | 8.99 | 8    | 33.46 | 20.92 | 2.73 | 6        |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.7  | 15:20 | 9.17 | 8.03 | 33.47 | 20.87 | 3.08 | 5        |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.4  | 15:19 | 9.12 | 8.16 | 33.31 | 21.03 | 2.24 | 2.5      |
| WSR04 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6.4  | 15:19 | 9.03 | 7.91 | 33.57 | 20.90 | 2.42 | 2.5      |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 14:17 | 8.77 | 8.08 | 33.10 | 21.02 | 2.84 | 3        |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 14:17 | 8.8  | 8.14 | 32.97 | 20.88 | 3.21 | 5        |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 7.6  | 14:16 | 8.81 | 8.24 | 33.16 | 21.00 | 2.23 | 4        |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 7.6  | 14:16 | 8.75 | 8.15 | 33.06 | 20.92 | 2.2  | 4        |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 14.2 | 14:15 | 8.83 | 8.27 | 32.89 | 21.05 | 2.71 | 3        |
| WSR16 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 14.2 | 14:15 | 9.03 | 8.16 | 32.92 | 21.02 | 2.66 | 2.5      |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:07 | 9.47 | 8.15 | 32.34 | 20.71 | 2.99 | 8        |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 15:07 | 9.57 | 8.03 | 32.40 | 20.81 | 3.33 | 5        |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.5  | 15:06 | 9.49 | 8.08 | 32.40 | 20.78 | 2.48 | 3        |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.5  | 15:06 | 9.67 | 8.07 | 32.44 | 20.66 | 2.32 | 3        |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6    | 15:05 | 9.56 | 8.22 | 32.39 | 20.79 | 2.42 | 3        |
| WSR33 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 6    | 15:05 | 9.71 | 8.01 | 32.60 | 20.67 | 2.09 | 5        |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 14:52 | 8.94 | 7.99 | 32.25 | 21.05 | 2.45 | 2.5      |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Surface | 1    | 14:52 | 9    | 8.19 | 32.24 | 21.05 | 2.6  | 2.5      |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.05 | 14:52 | 8.96 | 8.07 | 32.25 | 21.03 | 2.57 | 2.5      |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Middle  | 3.05 | 14:52 | 9.1  | 8.1  | 32.39 | 21.04 | 2.6  | 3        |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 5.1  | 14:51 | 8.84 | 8.11 | 32.37 | 20.88 | 2.16 | 2.5      |
| WSR36 | 20220409 | Sunny | Moderate | Mid-Ebb            | Bottom  | 5.1  | 14:51 | 9.11 | 7.96 | 32.35 | 20.88 | 2.14 | 2.5      |
|       |          |       |          |                    |         |      |       |      |      |       |       |      |          |

| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 14:39 | 9.25  | 8.04 | 32.96 | 20.44 | 2.36     | 2.5 |
|---|----------|---------|----------|------------|---------|-------|-------|-------|------|-------|-------|----------|-----|
| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 14:39 | 9.1   | 8.25 | 32.97 | 20.51 | 2.61     | 3   |
| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4     | 14:38 | 9.31  | 8.2  | 32.98 | 20.34 | 2.14     | 8   |
| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4     | 14:38 | 9.09  | 7.98 | 32.89 | 20.46 | 1.96     | 6   |
| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7     | 14:37 | 9.21  | 8.2  | 32.92 | 20.43 | 2.2      | 4   |
| WSR37                                   | 20220409 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7     | 14:37 | 9.11  | 8.2  | 32.90 | 20.34 | 2.11     | 2.5 |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 9:14  | 9.99  | 8.08 | 29.61 | 21.31 | 3.92     | 2.5 |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 9:14  | 9.91  | 8.08 | 29.62 | 21.30 | 4.16     | 2.5 |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 11.5  | 9:13  | 9.81  | 8.17 | 29.51 | 21.25 | 3.89     | 2.5 |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 11.5  | 9:13  | 9.9   | 8.08 | 29.57 | 21.33 | 3.92     | 2.5 |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 22    | 9:12  | 9.83  | 8.06 | 29.47 | 21.34 | 4.09     | 4   |
| CE                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 22    | 9:12  | 9.94  | 8.14 | 29.60 | 21.23 | 3.85     | 4   |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:53 | 9.9   | 8.26 | 29.29 | 21.85 | 3.34     | 4   |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:53 | 10    | 8.16 | 29.28 | 21.80 | 3.34     | 5   |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 10.55 | 11:52 | 9.91  | 8.2  | 29.30 | 21.80 | 3.5      | 2.5 |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 10.55 | 11:52 | 10.03 | 8.3  | 29.31 | 21.84 | 3.18     | 2.5 |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 20.1  | 11:51 | 9.85  | 8.24 | 29.29 | 21.78 | 3.28     | 2.5 |
| CF                                      | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 20.1  | 11:51 | 9.97  | 8.17 | 29.26 | 21.86 | 3.26     | 4   |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:29 | 9.35  | 8.1  | 29.47 | 21.09 | 3.23     | 4   |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:29 | 9.38  | 7.93 | 29.46 | 21.05 | 3.02     | 3   |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.35  | 11:28 | 9.4   | 8.07 | 29.52 | 21.10 | 2.84     | 2.5 |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.35  | 11:28 | 9.27  | 7.94 | 29.54 | 21.05 | 2.84     | 3   |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7.7   | 11:27 | 9.42  | 8.04 | 29.50 | 21.02 | 2.28     | 2.5 |
| WSR01                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7.7   | 11:27 | 9.41  | 8.05 | 29.61 | 20.99 | 2.46     | 4   |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:10 | 9.39  | 7.9  | 30.08 | 21.22 | 3.33     | 5   |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 11:10 | 9.32  | 7.88 | 30.08 | 21.23 | 3.01     | 3   |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.7   | 11:09 | 9.24  | 7.98 | 30.20 | 21.28 | 2.92     | 2.5 |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.7   | 11:09 | 9.2   | 8.05 | 30.03 | 21.32 | 2.84     | 2.5 |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 8.4   | 11:08 | 9.3   | 7.98 | 30.13 | 21.32 | 2.79     | 3   |
| WSR02                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 8.4   | 11:08 | 9.25  | 7.97 | 30.09 | 21.28 | 3.23     | 3   |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 10:53 | 9.55  | 8.25 | 29.31 | 21.67 | 2.75     | 2.5 |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 10:53 | 9.58  | 8.18 | 29.32 | 21.73 | 2.65     | 4   |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.2   | 10:52 | 9.61  | 8.29 | 29.31 | 21.69 | 2.33     | 4   |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 4.2   | 10:52 | 9.52  | 8.29 | 29.43 | 21.76 | 2.32     | 4   |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7.4   | 10:51 | 9.59  | 8.18 | 29.34 | 21.72 | 2.02     | 4   |
| WSR03                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 7.4   | 10:51 | 9.58  | 8.17 | 29.45 | 21.78 | 2.13     | 2.5 |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 10:41 | 9.71  | 8.09 | 29.25 | 21.12 | 3.81     | 4   |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 10:41 | 9.59  | 8.07 | 29.31 | 21.11 | 3.71     | 5   |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 3.4   | 10:40 | 9.61  | 8.1  | 29.27 | 21.11 | 2.84     | 4   |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 3.4   | 10:40 | 9.55  | 8.04 | 29.31 | 21.08 | 3.37     | 4   |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 5.8   | 10:39 | 9.63  | 8.15 | 29.17 | 21.08 | 3.05     | 4   |
| WSR04                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 5.8   | 10:39 | 9.62  | 8.08 | 29.18 | 21.06 | 2.59     | 4   |
| WSR16                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 9:37  | 9.7   | 8.08 | 29.48 | 21.79 | 2.86     | 4   |
| WSR16                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Surface | 1     | 9:37  | 9.66  | 8.05 | 29.53 | 21.84 | 3.3      | 3   |
| WSR16                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 7.9   | 9:36  | 9.76  | 8.18 | 29.58 | 21.82 | 3.14     | 3   |
| WSR16                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Middle  | 7.9   | 9:36  | 9.73  | 8.09 | 29.64 | 21.89 | 3.04     | 4   |
| WSR16                                   | 20220412 | Sunny   | Moderate | Mid-Ebb    | Bottom  | 14.8  | 9:35  | 9.79  | 8.12 | 29.58 | 21.85 | 2.91     | 5   |
| *************************************** | _0000112 | Juility | Moderate | 1.114 1100 | Dottom  | 11.0  | 7.00  | ,,,,  | 0.12 | 27.00 | 21.00 | <u> </u> |     |

| WSR16  | 20220412 | Sunny  | Moderate | Mid-Ebb | Bottom  | 14.8  | 9:35  | 9.77 | 8.03 | 29.60 | 21.88 | 2.61 | 6   |
|--------|----------|--------|----------|---------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:27 | 9.05 | 8.18 | 29.99 | 21.29 | 3.77 | 2.5 |
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:27 | 8.94 | 8.09 | 29.99 | 21.26 | 3.65 | 3   |
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.85  | 10:26 | 9.02 | 8.16 | 29.91 | 21.27 | 2.87 | 2.5 |
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.85  | 10:26 | 8.95 | 8.2  | 29.95 | 21.21 | 3.42 | 3   |
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Bottom  | 6.7   | 10:25 | 9.06 | 8.01 | 29.91 | 21.30 | 3.18 | 4   |
| WSR33  | 20220412 | Sunny  | Moderate | Mid-Ebb | Bottom  | 6.7   | 10:25 | 9    | 8.05 | 30.02 | 21.29 | 3.06 | 4   |
| WSR36  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:12 | 9.3  | 7.96 | 30.19 | 21.29 | 3.43 | 2.5 |
| WSR36  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:12 | 9.24 | 7.98 | 30.16 | 21.36 | 3.78 | 3   |
| WSR36  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.25  | 10:12 | 9.23 | 8.13 | 30.15 | 21.39 | 3.44 | 4   |
| WSR36  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.25  | 10:12 | 9.21 | 8.01 | 30.23 | 21.38 | 3.71 | 3   |
| WSR36  | 20220412 | Sunny  |          | Mid-Ebb |         | 5.5   | 10:12 | 9.31 | 7.94 | 30.23 | 21.32 | 3.08 | 2.5 |
| WSR36  | 20220412 |        | Moderate |         | Bottom  | 5.5   | 10:11 | 9.31 | 7.94 | 30.21 | 21.32 | 3.43 | 4   |
|        |          | Sunny  | Moderate | Mid-Ebb | Bottom  |       |       |      |      |       |       |      |     |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:59  | 9.71 | 8.07 | 30.19 | 21.55 | 2.89 | 3   |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:59  | 9.79 | 8.16 | 30.15 | 21.46 | 2.73 | 2.5 |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.1   | 9:58  | 9.67 | 8.04 | 30.24 | 21.51 | 2.87 | 4   |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.1   | 9:58  | 9.71 | 8.21 | 30.22 | 21.54 | 2.83 | 4   |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.2   | 9:57  | 9.72 | 8.12 | 30.19 | 21.55 | 2.75 | 3   |
| WSR37  | 20220412 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.2   | 9:57  | 9.78 | 8.12 | 30.25 | 21.50 | 2.9  | 3   |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:18  | 8.67 | 8.22 | 32.50 | 23.46 | 3.62 | 2.5 |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:18  | 8.57 | 8.24 | 32.53 | 23.59 | 3.73 | 2.5 |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 11.45 | 9:17  | 8.65 | 8.18 | 32.67 | 23.63 | 3.86 | 3   |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 11.45 | 9:17  | 8.7  | 8.21 | 32.59 | 23.47 | 4.11 | 3   |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 21.9  | 9:16  | 8.74 | 8.2  | 32.53 | 23.57 | 3.91 | 2.5 |
| CE     | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 21.9  | 9:16  | 8.58 | 8.17 | 32.63 | 23.46 | 4.19 | 3   |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:59 | 9.47 | 8.2  | 32.91 | 23.21 | 3.2  | 2.5 |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:59 | 9.4  | 8.17 | 32.94 | 23.25 | 3.48 | 3   |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 9.9   | 11:58 | 9.43 | 8.2  | 32.98 | 23.12 | 3.23 | 4   |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 9.9   | 11:58 | 9.44 | 8.19 | 32.91 | 23.25 | 3.13 | 2.5 |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 18.8  | 11:57 | 9.41 | 8.25 | 32.81 | 23.12 | 3.26 | 4   |
| CF     | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 18.8  | 11:57 | 9.32 | 8.24 | 32.81 | 23.15 | 3.37 | 4   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:35 | 9.03 | 8.36 | 33.03 | 23.89 | 2.47 | 4   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:35 | 9.15 | 8.26 | 33.02 | 23.88 | 2.56 | 3   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.6   | 11:34 | 8.97 | 8.33 | 33.05 | 23.85 | 2.47 | 4   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.6   | 11:34 | 9.11 | 8.34 | 33.04 | 23.74 | 2.45 | 3   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 8.2   | 11:33 | 9    | 8.32 | 33.23 | 23.80 | 2.23 | 4   |
| WSR01  | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 8.2   | 11:33 | 9.12 | 8.34 | 33.11 | 23.91 | 2.47 | 3   |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:18 | 8.38 | 8.18 | 32.52 | 23.21 | 2.03 | 3   |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 11:18 | 8.29 | 8.2  | 32.50 | 23.08 | 2.08 | 2.5 |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.65  | 11:17 | 8.46 | 8.2  | 32.59 | 23.27 | 2.22 | 8   |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.65  | 11:17 | 8.27 | 8.17 | 32.60 | 23.24 | 2.31 | 6   |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 8.3   | 11:16 | 8.39 | 8.22 | 32.67 | 23.23 | 2.03 | 5   |
| WSR02  | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 8.3   | 11:16 | 8.45 | 8.19 | 32.66 | 23.20 | 2.15 | 4   |
| WSR03  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:59 | 9.26 | 8.1  | 33.37 | 23.97 | 2.86 | 5   |
| WSR03  | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:59 | 9.23 | 8.17 | 33.33 | 24.02 | 3.4  | 4   |
| WSR03  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.2   | 10:58 | 9.38 | 8.12 | 33.28 | 23.89 | 2.7  | 5   |
| WSR03  | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.2   | 10:58 | 9.34 | 8.09 | 33.43 | 23.94 | 2.51 | 4   |
| WSINUS | 20220414 | Julily | Moderate | MIU'EUU | Midule  | 7.4   | 10.30 | 7.54 | 0.09 | 33.43 | 45.74 | 2.31 | 7   |

| WSR03 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.4   | 10:57 | 9.36 | 8.12 | 33.32 | 23.88 | 2.69 | 6   |
|-------|----------|--------|----------|---------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR03 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.4   | 10:57 | 9.35 | 8.08 | 33.37 | 23.83 | 2.26 | 5   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:45 | 9.41 | 8.29 | 33.01 | 23.79 | 3.62 | 6   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:45 | 9.21 | 8.28 | 32.99 | 23.62 | 3.42 | 5   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.45  | 10:44 | 9.35 | 8.21 | 32.96 | 23.79 | 2.82 | 5   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.45  | 10:44 | 9.34 | 8.29 | 33.08 | 23.65 | 3.31 | 5   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 5.9   | 10:43 | 9.2  | 8.21 | 32.97 | 23.71 | 3.14 | 4   |
| WSR04 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 5.9   | 10:43 | 9.31 | 8.24 | 32.95 | 23.78 | 3.12 | 5   |
| WSR16 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:41  | 9.27 | 8.37 | 32.58 | 23.59 | 3.07 | 5   |
| WSR16 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 9:41  | 9.3  | 8.3  | 32.52 | 23.45 | 2.74 | 5   |
| WSR16 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 7.6   | 9:40  | 9.33 | 8.29 | 32.49 | 23.54 | 2.38 | 2.5 |
| WSR16 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 7.6   | 9:40  | 9.36 | 8.39 | 32.46 | 23.42 | 2.48 | 2.5 |
| WSR16 | 20220414 |        |          |         |         |       | 9:39  | 9.31 | 8.34 | 32.40 | 23.62 | 2.71 | 2.5 |
|       |          | Sunny  | Moderate | Mid-Ebb | Bottom  | 14.2  |       |      |      |       |       |      | 3   |
| WSR16 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 14.2  | 9:39  | 9.18 | 8.32 | 32.59 | 23.57 | 2.69 |     |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:30 | 8.93 | 8.21 | 32.58 | 23.53 | 2.44 | 3   |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:30 | 9.04 | 8.22 | 32.67 | 23.37 | 2.92 | 3   |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.6   | 10:29 | 8.93 | 8.24 | 32.72 | 23.41 | 2.41 | 3   |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.6   | 10:29 | 9.11 | 8.25 | 32.64 | 23.44 | 2.45 | 3   |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 6.2   | 10:28 | 9.09 | 8.17 | 32.58 | 23.42 | 2.49 | 3   |
| WSR33 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 6.2   | 10:28 | 8.97 | 8.17 | 32.65 | 23.38 | 2.33 | 2.5 |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:16 | 9.5  | 8.25 | 32.96 | 23.52 | 2.96 | 3   |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:16 | 9.41 | 8.27 | 32.87 | 23.52 | 2.54 | 2.5 |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.15  | 10:16 | 9.58 | 8.27 | 32.92 | 23.61 | 2.14 | 3   |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 3.15  | 10:16 | 9.51 | 8.22 | 32.88 | 23.55 | 2.29 | 2.5 |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 5.3   | 10:15 | 9.48 | 8.26 | 33.02 | 23.63 | 2.56 | 4   |
| WSR36 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 5.3   | 10:15 | 9.38 | 8.24 | 33.04 | 23.48 | 2.36 | 2.5 |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:02 | 8.83 | 8.11 | 33.16 | 23.33 | 2.75 | 3   |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Surface | 1     | 10:02 | 8.86 | 8.11 | 33.20 | 23.38 | 2.89 | 2.5 |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.4   | 10:01 | 9    | 8.11 | 33.03 | 23.33 | 2.45 | 4   |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Middle  | 4.4   | 10:01 | 9    | 8.12 | 33.03 | 23.42 | 2.2  | 3   |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.8   | 10:00 | 8.86 | 8.15 | 33.13 | 23.45 | 2.54 | 2.5 |
| WSR37 | 20220414 | Sunny  | Moderate | Mid-Ebb | Bottom  | 7.8   | 10:00 | 8.98 | 8.1  | 33.18 | 23.43 | 2.3  | 3   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:23 | 9.76 | 8.15 | 32.74 | 22.33 | 4.7  | 4   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:23 | 9.74 | 8.11 | 32.74 | 22.51 | 4.33 | 4   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Middle  | 11.7  | 10:22 | 9.52 | 8.14 | 32.74 | 22.41 | 4.71 | 3   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Middle  | 11.7  | 10:22 | 9.51 | 8.13 | 32.66 | 22.52 | 4.54 | 5   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Bottom  | 22.4  | 10:21 | 9.8  | 8.16 | 32.68 | 22.51 | 4.12 | 5   |
| CE    | 20220416 | Cloudy | Moderate | Mid-Ebb | Bottom  | 22.4  | 10:21 | 9.48 | 8.08 | 32.51 | 22.44 | 4.7  | 5   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 13:06 | 9.58 | 8.23 | 32.75 | 21.95 | 3.4  | 6   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 13:06 | 9.41 | 8.31 | 32.76 | 22.08 | 3.14 | 4   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Middle  | 10.35 | 13:05 | 9.56 | 8.24 | 32.67 | 22.04 | 3.55 | 4   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Middle  | 10.35 | 13:05 | 9.37 | 8.22 | 32.63 | 21.92 | 3.48 | 5   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Bottom  | 19.7  | 13:04 | 9.63 | 8.32 | 32.67 | 22.05 | 3.46 | 6   |
| CF    | 20220416 | Cloudy | Moderate | Mid-Ebb | Bottom  | 19.7  | 13:04 | 9.4  | 8.19 | 32.81 | 21.97 | 3.58 | 6   |
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:43 | 9.62 | 8.26 | 31.93 | 22.05 | 2.74 | 7   |
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:43 | 9.88 | 8.17 | 32.10 | 21.89 | 2.81 | 6   |
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.35  | 12:42 | 9.82 | 8.15 | 32.15 | 21.96 | 2.28 | 6   |
|       |          |        |          |         |         | 50    |       |      | 2.20 |       |       |      |     |

| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 4.35 | 12:42 | 9.94 | 8.14 | 32.01 | 22.09 | 2.47 | 7   |
|-------|----------|--------|----------|----------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 7.7  | 12:41 | 9.77 | 8.17 | 32.13 | 22.10 | 1.77 | 6   |
| WSR01 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 7.7  | 12:41 | 9.86 | 8.13 | 32.17 | 21.97 | 1.92 | 6   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:25 | 9.36 | 7.93 | 32.14 | 22.32 | 2.33 | 2.5 |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:25 | 9.43 | 8.06 | 32.22 | 22.48 | 2.55 | 2.5 |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 4.6  | 12:24 | 9.15 | 7.95 | 32.22 | 22.30 | 2.59 | 5   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 4.6  | 12:24 | 9.27 | 8.01 | 32.21 | 22.30 | 2.39 | 5   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 8.2  | 12:23 | 9.15 | 7.94 | 32.19 | 22.42 | 2.38 | 5   |
| WSR02 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 8.2  | 12:23 | 9.17 | 7.98 | 32.07 | 22.41 | 2.26 | 5   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:07 | 9.83 | 8.13 | 32.59 | 22.22 | 2.59 | 5   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:07 | 9.61 | 8.01 | 32.78 | 22.29 | 2.55 | 5   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.95 | 12:06 | 9.6  | 8.13 | 32.68 | 22.32 | 1.91 | 4   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.95 | 12:06 | 9.67 | 8.13 | 32.65 | 22.23 | 1.97 | 6   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.9  | 12:05 | 9.81 | 7.99 | 32.75 | 22.35 | 2.21 | 5   |
| WSR03 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.9  | 12:05 | 9.65 | 8.02 | 32.65 | 22.29 | 2.16 | 5   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:54 | 9.48 | 8.05 | 32.13 | 22.20 | 2.67 | 5   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:54 | 9.44 | 8.2  | 32.05 | 22.16 | 3.05 | 5   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.6  | 11:53 | 9.35 | 8.09 | 31.89 | 22.13 | 2.45 | 5   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.6  | 11:53 | 9.33 | 8.09 | 31.97 | 22.10 | 2.21 | 4   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.2  | 11:52 | 9.51 | 8.1  | 32.04 | 22.16 | 2.43 | 4   |
| WSR04 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.2  | 11:52 | 9.5  | 8.15 | 32.09 | 22.23 | 2.59 | 6   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 10:46 | 9.87 | 8.08 | 32.26 | 21.92 | 2.87 | 4   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 10:46 | 9.78 | 8.19 | 32.01 | 22.09 | 3.08 | 4   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 8    | 10:45 | 9.9  | 8.16 | 32.25 | 21.95 | 2.34 | 6   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 8    | 10:45 | 9.89 | 8.2  | 32.11 | 21.98 | 2.55 | 5   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 15   | 10:44 | 9.97 | 8.07 | 32.23 | 21.94 | 2.14 | 5   |
| WSR16 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 15   | 10:44 | 9.93 | 8.11 | 32.03 | 22.00 | 2.43 | 4   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:37 | 9.22 | 8.06 | 32.51 | 22.00 | 2.95 | 10  |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:37 | 9.22 | 8.01 | 32.30 | 21.97 | 2.88 | 7   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.8  | 11:36 | 9.07 | 7.91 | 32.50 | 21.99 | 2.76 | 9   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.8  | 11:36 | 9.23 | 7.94 | 32.33 | 21.90 | 2.84 | 7   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.6  | 11:35 | 9.28 | 7.97 | 32.40 | 21.99 | 1.84 | 6   |
| WSR33 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.6  | 11:35 | 9.2  | 7.94 | 32.36 | 21.86 | 1.94 | 6   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:22 | 9.67 | 8.07 | 32.82 | 22.50 | 2.39 | 7   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:22 | 9.67 | 8.09 | 32.58 | 22.57 | 2.65 | 4   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.6  | 11:22 | 9.6  | 8.02 | 32.81 | 22.41 | 2.41 | 7   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 3.6  | 11:22 | 9.49 | 8.1  | 32.70 | 22.57 | 2.78 | 5   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.2  | 11:21 | 9.5  | 8.06 | 32.63 | 22.58 | 2.52 | 8   |
| WSR36 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 6.2  | 11:21 | 9.56 | 8.1  | 32.68 | 22.48 | 2.36 | 4   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:08 | 9.89 | 8    | 32.31 | 22.18 | 2.73 | 8   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 11:08 | 9.78 | 8    | 32.48 | 22.01 | 2.54 | 7   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 4    | 11:07 | 9.77 | 7.98 | 32.36 | 22.07 | 2.1  | 2.5 |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Middle  | 4    | 11:07 | 9.66 | 8.08 | 32.43 | 21.98 | 2.51 | 3   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 7    | 11:06 | 9.71 | 7.99 | 32.42 | 22.03 | 2.08 | 5   |
| WSR37 | 20220416 | Cloudy | Moderate | Mid-Ebb  | Bottom  | 7    | 11:06 | 9.63 | 8.05 | 32.50 | 22.16 | 2.29 | 5   |
| CE    | 20220410 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:17 | 9.62 | 8.22 | 29.20 | 22.20 | 4.31 | 3   |
| CE    | 20220419 | Cloudy | Moderate | Mid-Ebb  | Surface | 1    | 12:17 | 9.53 | 8.2  | 29.07 | 21.99 | 4.25 | 2.5 |
| CE    | 20220417 | Gloudy | Moutrate | MIIU-EDD | Juliace | 1    | 14.17 | 7.33 | 0.2  | 49.07 | 41.99 | 4.43 | 4.3 |

| CE   20220419   Cloudy   Moderate   Mid-Bab   Midele   12   12.16   9.46   8.2   29.07   22.15   4.39   5  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
|--|-------|----------|--------|----------|---------|---------|----|-------|------|------|-------|-------|------|-----|
| CR         20224191         Cloudy         Moderate         Mid-Ribb         Bottom         23         12:15         9.6         8.28         29:13         22:17         4.44         2.5           CF         20220419         Cloudy         Moderate         Mid-Bibb         Surface         1         44:51         10:19         8.0         29:53         21:05         3.05         3           CF         20220419         Cloudy         Moderate         Mid-Bibb         Mid-Bibb         Mid-Bib   | CE    | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 12 | 12:16 | 9.46 | 8.2  | 29.07 | 22.15 | 4.39 | 5   |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14:51   9.59   8.31   29:99   22:12   4.07   2.5   | CE    | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 12 | 12:16 | 9.47 | 8.34 | 29.00 | 22.11 | 4    | 4   |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14:51   9.59   8.31   29:99   22:12   4.07   2.5   | CE    | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  | 23 | 12:15 | 9.6  | 8.28 | 29.13 | 22.17 | 4.44 | 2.5 |
| CF   | CE    | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  |    |       | 9.59 | 8.31 | 28.99 | 22.12 | 4.07 | 2.5 |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   H-51   9.99   8.19   29.56   21.69   3.45   5  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Middle   9.75   14.50   10.12   8.14   29.48   21.66   3.07   2.5     CF   20220419   Cloudy   Moderate   Mid-Ebb   Bottom   18.5   14.49   10.16   8.09   29.41   21.73   3.3   3.3     CF   20220419   Cloudy   Moderate   Mid-Ebb   Sottom   18.5   14.49   9.97   8.15   2.950   21.46   3.62   3.3     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.27   9.81   8.1   2.880   22.27   3.13   4.4     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.27   9.82   8.03   2.891   2.22   3.73   2.5     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Middle   4.65   14.26   10.07   8.81   2.882   22.38   3.23   3.3     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.27   9.82   8.03   2.891   2.22   2.73   2.5     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.27   9.82   8.03   2.891   2.22   2.73   2.5     SSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   10.06   8.29   2.948   2.22   2.79   2.98   3.3     SSR02   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   10.06   8.29   2.994   2.200   2.93   2.5     SSR02   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   10.06   8.29   2.949   2.200   2.93   2.5     SSR02   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   10.06   8.29   2.949   2.200   2.93   2.5     SSR02   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   9.86   8.32   2.947   2.180   3.01   2.5     SSR02   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   9.86   8.25   2.947   2.180   3.01   2.5     SSR03   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.08   9.86   8.25   2.947   2.180   3.01   2.5     SSR03   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   13.53   9.32   8.25   2.947   2.180   3.01   2.5     SSR03   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   13.53   9.32   8.25   2.947   2.120   3.26   3.6     SSR03   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   1  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Bottom   185   1449   10.16   8.99   2941   21.73   3.3   3.     CF   20220419   Cloudy   Moderate   Mid-Ebb   Bottom   185   1449   10.16   8.99   2941   21.73   3.3   3.     CF   20220419   Cloudy   Moderate   Mid-Ebb   Bottom   185   1449   10.16   8.99   2941   21.73   3.3   3.     CF   20220419   Cloudy   Moderate   Mid-Ebb   Bottom   185   1449   10.16   8.11   28.80   22.27   3.13   4     WSR01   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14.27   9.81   8.1   28.80   22.27   3.73   2.5     WSR01   20220419   Cloudy   Moderate   Mid-Ebb   Mid-E |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| CF         20220419         Cloudy         Moderate Mid-Ebb         Bottom         18.5         14.49         9.97         81.5         29.50         21.64         3.62         3           WSR01         20220419         Cloudy         Moderate Mid-Ebb         Surface         1         14.27         9.81         8.1         29.50         21.64         3.62         3           WSR01         20220419         Cloudy         Moderate Mid-Ebb         Surface         1         14.27         9.82         8.1         28.90         22.37         3.73         2.5           WSR01         20220419         Cloudy         Moderate Mid-Ebb         Mid-Ebb         Middle         4.65         14.26         10.08         8.11         2.82         2.23         3.23         3.2           WSR01         20220419         Cloudy         Moderate Mid-Ebb         Mid-Ebb         Bottom         8.3         14.25         9.86         8.97         2.82         2.27         2.70         2.5           WSR01         20220419         Cloudy         Moderate Mid-Ebb         Mid-Ebb         Surface         1         14.08         10.06         8.27         2.98         2.21         2.99         3.3  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| CF   20220419   Cloudy   Moderate   Mid-Ebb   Surface   1   14:27   9.81   8.1   29.50   21.64   3.62   3  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR01         2020419   Cloudy   Moderate widebb         Mid-bb surface         1         14:27         9.81         8.1         28.80         2.23         3.13         4           WSR01         2022019   Cloudy   Moderate widebb         Mid-bb w   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR01         20220419 Cloudy         Cloudy Moderate Mid-Ebb Middle         4.65         1.426 1.08         8.11 2.882         2.33         3.73         2.5           WSR01         20220419 Cloudy         Moderate Mid-Ebb Middle         4.65         1.426 1.00         8.07         2.883         2.24         2.76         2.5           WSR01         20220419 Cloudy         Moderate Mid-Ebb Bottom         8.3         1.425         9.86         8.07         2.883         2.24         2.76         2.5           WSR01         20220419 Cloudy         Moderate Mid-Ebb Bottom         8.3         1.425         9.85         8.04         2.898         2.24         2.98         3           WSR02         20220419 Cloudy         Moderate Mid-Ebb Surface         1         1.4.08         1.80         8.06         8.29         2.984         2.2.00         2.93         2.5           WSR02         20220419 Cloudy         Moderate Mid-Ebb Middle         4.95         1.4.07         9.98         8.25         2.9.74         2.1.80         3.01         2.5           WSR02         20220419 Cloudy         Moderate Mid-Ebb Middle         4.95         1.4.07         9.98         8.25         2.9.74         2.1.80         3.01         2.5  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR01         2022/0419         Cloudy         Moderate Mid-Ebb Middle         4.65         14.26         10.08         8.11         28.82         2.238         3.23         3           WSR01         2022/0419         Cloudy         Moderate Mid-Ebb Motorn         8.3         14.25         9.86         8.07         28.82         2.2.27         2.78         2.5           WSR01         2022/0419         Cloudy         Moderate Mid-Ebb Surface         1         14.08         10.06         8.29         2.98         2.242         2.98         3           WSR02         2022/0419         Cloudy         Moderate Mid-Ebb Surface         1         14.08         9.06         8.29         2.98         2.242         2.98         3           WSR02         2022/0419         Cloudy         Moderate Mid-Ebb Surface         1         14.08         9.86         8.3         2.965         21.97         2.98         3           WSR02         2022/0419         Cloudy         Moderate Mid-Ebb Middle         4.95         14-07         9.98         8.25         2.974         21.80         3.01         2.25           WSR02         2022/0419         Cloudy         Moderate Mid-Ebb Bottom         8.9         14.06         1.9 <td></td>   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR01         20220419         Cloudy         Moderate         Mid-lbb         Middle         4.65         1.426         1.007         8.07         2.838         2.2.40         2.76         2.5           WSR01         20220419         Cloudy         Moderate         Mid-lbb         Bottom         8.3         1.425         9.85         8.04         2.898         2.2.42         2.98         3           WSR02         20220419         Cloudy         Moderate         Mid-lbb         Surface         1         1.408         1.006         8.29         2.944         2.200         2.23         2.5           WSR02         20220419         Cloudy         Moderate         Mid-lbb         Surface         1         1.408         1.006         8.29         2.944         2.200         2.23         2.5           WSR02         20220419         Cloudy         Moderate         Mid-lbb         Middle         4.95         1.4-07         9.88         8.25         2.974         2.1.80         3.41         2.5           WSR02         20220419         Cloudy         Moderate         Mid-lbb         Bottom         8.9         1.4-06         1.0         8.27         2.973         2.183         2.2  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR01         20220419         Cloudy         Moderate         Mid-Bib         Bottom         8.3         1.425         9.86         8.07         28.82         22.27         2.78         2.5           WSR01         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         14.08         10.06         8.29         2.94         2.20         2.93         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         14.08         9.86         8.34         2.965         2.197         2.98         3.2           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Middle         4.95         14.07         9.96         8.3         2.967         2.180         3.01         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Bottom         8.9         14.06         1.98         3.2         2.97         2.183         2.43         3.3           WSR03         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         1.353         9.32         8.25         2.981         2.201         3.3         4   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR012         20220419         Cloudy         Moderate Mid-Ebb         Bottom         8.3         14:25         9.85         8.04         28.98         22.42         2.98         3           WSR02         20220419         Cloudy         Moderate Mid-Ebb         Surface         1         14:08         9.96         8.34         29:65         21:97         2.98         3           WSR02         20220419         Cloudy         Moderate Mid-Ebb         Mid-Ebb         Mideled         4.95         14:07         9.98         8.25         29:74         21.80         3.01         2.5           WSR02         20220419         Cloudy         Moderate Mid-Ebb         Midele Med         4.95         14:07         9.96         8.3         2.96         2.180         3.01         2.5           WSR02         20220419         Cloudy         Moderate Mid-Ebb         Bottom         8.9         14:06         10         8.27         29:73         21.83         3.41         2.5           WSR03         20220419         Cloudy         Moderate Mid-Ebb         Bottom         8.9         14:06         9.97         8.32         29:81         22:20         3.33         2.20           WSR03         20220419   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         14-08         1.006         8.29         2.948         2.200         2.93         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         14-07         9.98         8.25         2.974         2.180         3.01         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Midele         4.95         14-07         9.96         8.3         2.967         2.189         3.41         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14-06         9.87         8.25         2.981         2.201         3.2         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.52         8.32         2.952         2.228         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.52         8.22         2.971         2.212         3.03         4  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         14-08         9.86         8.34         29.65         21.97         2.98         3           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Middle         4.95         14-07         9.96         8.3         29.67         21.89         3.41         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Bottom         8.9         14-06         10         8.27         29.73         21.83         2.83         3           WSR02         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         13.53         9.25         8.32         29.88         22.28         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         13.53         9.52         8.22         29.71         22.12         3.28         6           WSR03         20220419         Cloudy         Moderate         Mid-Bbb         Surface         1         13.53         9.52         8.21         29.74         22.26         3.06         4 </td <td></td>   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.95         14-07         9.98         8.25         29.74         21.80         3.01         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14-06         10         8.27         29.73         21.83         2.83         3           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14-06         10         8.27         29.73         21.83         2.83         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.25         8.32         29.51         22.28         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.52         8.22         29.71         22.26         3.06         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:51         9.51         8.19         29.71         22.27         3.03         4  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.95         14:07         9.96         8.3         2.967         21.89         3.41         2.5           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14:06         9.87         8.25         2.981         22.01         3.2         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.25         8.32         29.58         22.28         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.32         8.3         2.972         2.208         3.45         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.52         8.22         2.971         22.12         3.28         6           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29:52         2.228         2.228         2.65  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14:06         10         8.27         29.73         21.83         2.83         3           WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.25         8.32         29.58         22.28         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.25         8.32         29.52         22.28         2.94         3.45         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:52         9.52         8.21         29.71         22.12         3.28         6           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.46         8.27         29.71         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29.62         22.28         2.65  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR02         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         8.9         14-06         9.87         8.25         29.81         22.01         3.2         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13-53         9.25         8.32         29-72         22.08         3.45           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Mideleb         4.2         13-52         9.52         8.22         29-71         22.12         2.28         6           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13-52         9.52         8.22         29-71         22.12         3.06         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13-51         9.46         8.27         29-71         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13-31         9.6         8.2         29.87         22.17         3.06         4   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.25         8.32         29:58         22.28         2.94         3           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.32         8.3         29:72         22.08         3.45         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.52         8.22         29:71         22.12         3.06         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.46         8.27         29:71         22:27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29:87         22:14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29:87         22:17         3.0         4  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:53         9.32         8.3         29.72         22.08         3.45         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.57         8.21         29.74         22.26         3.06         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.46         8.27         29.71         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.46         8.27         29.71         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.42         8.25         29.97         22.21         3.05         2.5  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.52         8.22         29.71         22.12         3.28         6           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.37         8.21         29.71         22.26         3.66         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29.62         22.28         2.65         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.62         8.18         29.97         22.22         3.05         2.5 </td <td></td>   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Middle         4.2         13:52         9.37         8.21         29.74         22.26         3.06         4           WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29.62         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.97         22.14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Midle         3.6         13:40         9.62         8.18         29.97         22.22         3.05         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.46         8.27         29.71         22.27         3.03         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29.62         22.28         2.65         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.42         8.25         29.97         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Midle         3.6         13:40         9.62         8.14         29.99         22.33         2.75         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.23         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.90         22.23         3.19         2.5   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR03         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         7.4         13:51         9.51         8.19         29.62         22.28         2.65         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.42         8.25         29.97         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.62         8.18         29.97         22.22         3.05         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.23         3.05         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.6         8.2         29.87         22.14         3.56         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.42         8.25         29.97         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.62         8.14         29.99         22.33         2.75         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.80         22.33         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:41         9.42         8.25         29.97         22.17         3.06         4           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.62         8.14         29.99         22.33         2.75         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         2.980         22.33         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         2.9.1         2.17         3.4         3.   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.62         8.14         29.99         22.33         2.75         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR06         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.80         22.23         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         9.99         8.26         29.16         21.75         2.89         5   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.6         13:40         9.56         8.18         29.97         22.22         3.05         2.5           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.80         22.33         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         29.01         21.92         3.4         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         10.03         8.23         29.21         21.89         3.11         3 <td></td>  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.43         8.14         29.90         22.25         2.76         3           WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.80         22.33         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         29.01         21.92         3.4         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         10.03         8.26         29.16         21.75         2.89         5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR04         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.2         13:39         9.5         8.13         29.80         22.33         3.19         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         29.01         21.92         3.4         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         9.99         8.26         29.16         21.75         2.89         5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5           WSR31         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3 <td></td>  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.26         29.15         21.70         2.94         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         29.01         21.92         3.4         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         9.99         8.26         29.16         21.75         2.89         5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         10.03         8.23         29.21         21.89         3.11         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.21         29.14         21.87         3.04         2.5           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3 <td></td>   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         12:39         9.89         8.19         29.01         21.92         3.4         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         9.99         8.26         29.16         21.75         2.89         5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3.04         2.5           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21<  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         9.99         8.26         29.16         21.75         2.89         5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         10.03         8.23         29.21         21.89         3.11         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5           WSR31         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4 </td <td></td>   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Middle         8.05         12:38         10.03         8.23         29.21         21.89         3.11         3           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.18         8.2         29.91         21.59         3.24         4 <td></td>  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10         8.21         29.14         21.87         3.04         2.5           WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.37         8.14         29.88         21.56         3.08         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.91         21.59         3.24         4   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR16         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         15.1         12:37         10.08         8.24         29.22         21.73         2.71         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29.79         21.57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.37         8.14         29.88         21.56         3.08         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.18         8.2         29.91         21.59         3.24         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.88         21.61         2.51         3  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.22         8.13         29:79         21:57         3.34         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.37         8.14         29:88         21:56         3.08         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29:75         21:57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.18         8.2         29:91         21:59         3.24         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29:88         21:61         2.51         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.2         8:23         29:90         21:55         2.46         4     <   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Surface         1         13:27         9.37         8.14         29.88         21.56         3.08         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.18         8.2         29.91         21.59         3.24         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.88         21.61         2.51         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.2         8.23         29.90         21.55         2.46         4   |       |          | -      |          |         |         |    |       |      |      |       |       |      |     |
| WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.19         8.13         29.75         21.57         3.21         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.18         8.2         29.91         21.59         3.24         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.88         21.61         2.51         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.2         8.23         29.90         21.55         2.46         4   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Middle         3.75         13:26         9.18         8.2         29.91         21.59         3.24         4           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.88         21.61         2.51         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.2         8.23         29.90         21.55         2.46         4   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.46         8.2         29.88         21.61         2.51         3           WSR33         20220419         Cloudy         Moderate         Mid-Ebb         Bottom         6.5         13:25         9.2         8.23         29.90         21.55         2.46         4  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR33 20220419 Cloudy Moderate Mid-Ebb Bottom 6.5 13:25 9.2 8.23 29.90 21.55 2.46 4  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
|  |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
| WSR36 20220419 Cloudy Moderate Mid-Ebb Surface 1 13:13 9.46 8.3 29.09 22.24 3.39 5   |       |          |        |          |         |         |    |       |      |      |       |       |      |     |
|  | WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Surface | 1  | 13:13 | 9.46 | 8.3  | 29.09 | 22.24 | 3.39 | 5   |

| WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 13:13 | 9.44 | 8.25 | 29.12 | 22.25 | 3.61 | 3   |
|-------|----------|--------|----------|---------|---------|-----------|-------|------|------|-------|-------|------|-----|
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.75      | 13:13 | 9.5  | 8.29 | 29.11 | 22.35 | 3.21 | 5   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.75      | 13:13 | 9.43 | 8.23 | 29.12 | 22.38 | 2.81 | 3   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.5       | 13:12 | 9.57 | 8.17 | 29.20 | 22.33 | 2.42 | 4   |
| WSR36 | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.5       | 13:12 | 9.56 | 8.3  | 29.05 | 22.41 | 2.49 | 4   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 13:00 | 9.31 | 8.09 | 29.64 | 21.71 | 3.35 | 2.5 |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 13:00 | 9.34 | 8.1  | 29.68 | 21.66 | 3.34 | 2.5 |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.45      | 12:59 | 9.27 | 8.03 | 29.50 | 21.74 | 3.42 | 3   |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.45      | 12:59 | 9.54 | 8.01 | 29.57 | 21.81 | 3.28 | 2.5 |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.9       | 12:58 | 9.48 | 8.02 | 29.47 | 21.64 | 2.99 | 2.5 |
| WSR37 | 20220419 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.9       | 12:58 | 9.35 | 8    | 29.68 | 21.60 | 3.11 | 3   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 13:47 | 8.47 | 8.11 | 33.44 | 23.09 | 3.95 | 7   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 13:47 | 8.49 | 8.1  | 33.35 | 23.07 | 3.44 | 5   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 11.9      | 13:46 | 8.7  | 8.17 | 33.24 | 23.13 | 4.02 | 5   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 11.9      | 13:46 | 8.57 | 8.18 | 33.21 | 23.04 | 3.78 | 4   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 22.8      | 13:45 | 8.62 | 8.17 | 33.48 | 23.07 | 4.33 | 7   |
| CE    | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 22.8      | 13:45 | 8.56 | 8.17 | 33.30 | 23.13 | 3.99 | 6   |
| CF    | 20220421 |        |          |         |         | 22.8<br>1 | 16:31 |      |      |       | 23.13 | 3.99 | 4   |
|       |          | Cloudy | Moderate | Mid-Ebb | Surface |           |       | 8.96 | 8.01 | 33.38 |       |      | 5   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1 10      | 16:31 | 8.8  | 8.06 | 33.64 | 23.15 | 3.52 |     |
| CF    | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 10        | 16:30 | 8.8  | 8.03 | 33.37 | 23.05 | 3.18 | 6   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 10        | 16:30 | 8.91 | 8.01 | 33.37 | 23.19 | 3.02 | 5   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 19        | 16:29 | 8.97 | 8.11 | 33.52 | 23.08 | 3.22 | 8   |
| CF    | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 19        | 16:29 | 8.91 | 8.07 | 33.42 | 23.06 | 3.44 | 6   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 16:08 | 8.77 | 8.25 | 33.69 | 23.34 | 2.67 | 5   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 11        | 16:08 | 8.77 | 8.34 | 33.51 | 23.43 | 2.46 | 4   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.65      | 16:07 | 9.09 | 8.38 | 33.67 | 23.32 | 2.56 | 6   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.65      | 16:07 | 9.08 | 8.38 | 33.65 | 23.38 | 2.64 | 3   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.3       | 16:06 | 8.95 | 8.28 | 33.58 | 23.43 | 2.75 | 6   |
| WSR01 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.3       | 16:06 | 8.84 | 8.36 | 33.71 | 23.40 | 2.46 | 3   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:47 | 8.76 | 8.25 | 33.71 | 22.82 | 2.03 | 5   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:47 | 8.82 | 8.33 | 33.63 | 22.75 | 2.22 | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.75      | 15:46 | 9.01 | 8.3  | 33.89 | 22.85 | 1.9  | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.75      | 15:46 | 8.79 | 8.24 | 33.75 | 22.77 | 2.14 | 3   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.5       | 15:45 | 8.84 | 8.23 | 33.77 | 22.82 | 2.22 | 4   |
| WSR02 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.5       | 15:45 | 8.96 | 8.33 | 33.74 | 22.74 | 2.44 | 3   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:32 | 8.53 | 8.1  | 33.80 | 22.84 | 2.78 | 5   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:32 | 8.48 | 8.09 | 33.73 | 22.80 | 2.46 | 3   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.8       | 15:31 | 8.33 | 7.98 | 33.67 | 22.70 | 2.69 | 5   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.8       | 15:31 | 8.64 | 8.07 | 33.71 | 22.71 | 2.43 | 3   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.6       | 15:30 | 8.35 | 8.11 | 33.76 | 22.74 | 2.57 | 4   |
| WSR03 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.6       | 15:30 | 8.39 | 8.03 | 33.68 | 22.86 | 2.51 | 4   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:19 | 9.2  | 8.11 | 33.53 | 23.21 | 2.62 | 3   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface | 1         | 15:19 | 9.14 | 8.05 | 33.54 | 23.18 | 2.37 | 5   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.8       | 15:18 | 9.15 | 8.07 | 33.63 | 23.26 | 2.16 | 4   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.8       | 15:18 | 9.26 | 8.11 | 33.55 | 23.15 | 2.48 | 2.5 |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.6       | 15:17 | 9.49 | 8.18 | 33.38 | 23.16 | 2.34 | 4   |
| WSR04 | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.6       | 15:17 | 9.14 | 8.06 | 33.48 | 23.24 | 2.13 | 7   |
|       |          |        |          |         |         |           |       |      |      |       |       |      |     |

| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:10 | 9.33 | 8.23 | 33.22 | 23.32 | 2.49 | 3   |
|--------|----------|--------|----------|---------|----------|------|-------|------|------|-------|-------|------|-----|
| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:10 | 9.3  | 8.18 | 32.98 | 23.39 | 2.76 | 5   |
| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 8.4  | 14:09 | 9.37 | 8.25 | 33.09 | 23.45 | 2.42 | 4   |
| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 8.4  | 14:09 | 9.09 | 8.18 | 33.15 | 23.36 | 2.26 | 6   |
| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 15.8 | 14:08 | 9.3  | 8.21 | 33.21 | 23.44 | 2.29 | 3   |
| WSR16  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 15.8 | 14:08 | 9.17 | 8.27 | 33.25 | 23.45 | 2.16 | 3   |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 15:02 | 8.19 | 8.04 | 33.02 | 22.94 | 2.09 | 6   |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 15:02 | 8.27 | 8.02 | 33.13 | 22.89 | 2.43 | 4   |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 3.8  | 15:01 | 8.5  | 8.12 | 33.09 | 22.87 | 2.09 | 2.5 |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 3.8  | 15:01 | 8.52 | 8.13 | 33.31 | 22.95 | 2.27 | 2.5 |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 6.6  | 15:00 | 8.47 | 8.09 | 33.17 | 22.96 | 1.77 | 3   |
| WSR33  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 6.6  | 15:00 | 8.26 | 8.09 | 33.10 | 22.95 | 1.98 | 6   |
| WSR36  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:46 | 9.03 | 8.23 | 32.98 | 22.79 | 2.75 | 3   |
| WSR36  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:46 | 9.19 | 8.23 | 33.04 | 22.82 | 2.52 | 3   |
| WSR36  | 20220421 |        |          |         |          |      |       | 9.19 | 8.24 | 32.93 | 22.82 | 2.77 | 3   |
|        |          | Cloudy | Moderate | Mid-Ebb | Middle   | 3.4  | 14:46 |      |      |       | 22.91 | 2.82 | 3   |
| WSR36  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 3.4  | 14:46 | 9.05 | 8.25 | 32.93 |       |      |     |
| WSR36  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 5.8  | 14:45 | 9.02 | 8.32 | 33.02 | 22.78 | 2.57 | 4   |
| WSR36  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 5.8  | 14:45 | 9.11 | 8.32 | 33.13 | 22.78 | 2.26 | 5   |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:31 | 8.2  | 8.01 | 33.39 | 23.32 | 2.54 | 7   |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 14:31 | 8.43 | 8.09 | 33.35 | 23.28 | 2.95 | 8   |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.15 | 14:30 | 8.4  | 8.1  | 33.41 | 23.39 | 2.66 | 3   |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.15 | 14:30 | 8.33 | 8    | 33.25 | 23.37 | 2.82 | 2.5 |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 7.3  | 14:29 | 8.24 | 8.11 | 33.27 | 23.33 | 1.9  | 3   |
| WSR37  | 20220421 | Cloudy | Moderate | Mid-Ebb | Bottom   | 7.3  | 14:29 | 8.44 | 8.08 | 33.44 | 23.30 | 1.75 | 2.5 |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 16:17 | 8.47 | 8.11 | 32.88 | 24.94 | 4.04 | 2.5 |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 16:17 | 8.52 | 8.14 | 32.77 | 24.91 | 4.62 | 3   |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 10.1 | 16:16 | 8.48 | 8.04 | 32.78 | 24.82 | 4.74 | 4   |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 10.1 | 16:16 | 8.58 | 8.13 | 32.96 | 24.81 | 4.37 | 5   |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 19.2 | 16:15 | 8.47 | 8.09 | 32.99 | 24.83 | 4.25 | 2.5 |
| CE     | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 19.2 | 16:15 | 8.58 | 8.16 | 32.99 | 25.03 | 4.45 | 3   |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:46 | 8.32 | 8.29 | 33.70 | 24.95 | 3.26 | 4   |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:46 | 8.35 | 8.16 | 33.69 | 24.92 | 3.19 | 5   |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 10.1 | 18:45 | 8.41 | 8.18 | 33.64 | 24.89 | 3.07 | 3   |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 10.1 | 18:45 | 8.42 | 8.27 | 33.60 | 25.02 | 2.91 | 6   |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 19.2 | 18:44 | 8.37 | 8.23 | 33.62 | 24.91 | 3.3  | 2.5 |
| CF     | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 19.2 | 18:44 | 8.5  | 8.16 | 33.79 | 24.99 | 3.37 | 3   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:23 | 9.26 | 8.2  | 32.76 | 25.03 | 2.93 | 4   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:23 | 9.28 | 8.22 | 32.84 | 24.98 | 2.45 | 5   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.6  | 18:22 | 9.3  | 8.22 | 32.76 | 25.08 | 2.41 | 7   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.6  | 18:22 | 9.28 | 8.1  | 32.83 | 24.90 | 2.28 | 8   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 8.2  | 18:21 | 9.15 | 8.21 | 32.76 | 24.96 | 2.35 | 8   |
| WSR01  | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 8.2  | 18:21 | 9.12 | 8.14 | 32.87 | 24.92 | 2    | 5   |
| WSR02  | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:06 | 8.77 | 8.02 | 33.67 | 25.15 | 2.31 | 4   |
| WSR02  | 20220423 | Cloudy | Moderate | Mid-Ebb | Surface  | 1    | 18:06 | 8.6  | 8.1  | 33.78 | 25.35 | 2.26 | 6   |
| WSR02  | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.7  | 18:05 | 8.62 | 8.09 | 33.58 | 25.36 | 2.08 | 4   |
| WSR02  | 20220423 | Cloudy | Moderate | Mid-Ebb | Middle   | 4.7  | 18:05 | 8.71 | 8.03 | 33.61 | 25.17 | 1.97 | 6   |
| WSR02  | 20220423 | Cloudy | Moderate | Mid-Ebb | Bottom   | 8.4  | 18:04 | 8.63 | 8.07 | 33.76 | 25.29 | 2.1  | 6   |
| VVJRUZ | 20220423 | Cioudy | Mouerate | MIU-EUU | DOLLOIII | 0.4  | 10:04 | 0.03 | 0.07 | 33./0 | 43.47 | 4.1  | υ   |

| WSR02 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 8.4  | 18:04 | 8.64 | 8.11 | 33.79 | 25.21 | 2.25 | 7   |
|-------|----------|---------|----------|---------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:52 | 9.2  | 8.16 | 33.13 | 24.89 | 3.24 | 4   |
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:52 | 9.22 | 8.18 | 33.19 | 24.81 | 3    | 3   |
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.75 | 17:51 | 9.24 | 8.26 | 33.23 | 24.94 | 2.62 | 4   |
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.75 | 17:51 | 9.1  | 8.13 | 33.13 | 24.76 | 3.03 | 3   |
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.5  | 17:50 | 9.13 | 8.14 | 33.23 | 24.86 | 3.09 | 4   |
| WSR03 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.5  | 17:50 | 9.09 | 8.25 | 33.13 | 24.75 | 2.91 | 5   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:40 | 8.36 | 8.12 | 32.89 | 24.80 | 2.96 | 8   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:40 | 8.47 | 8.13 | 32.91 | 24.82 | 3.3  | 7   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.75 | 17:39 | 8.49 | 8.15 | 33.06 | 24.93 | 2.47 | 6   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.75 | 17:39 | 8.51 | 8.17 | 33.01 | 24.81 | 2.66 | 6   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.5  | 17:38 | 8.49 | 8.17 | 33.00 | 24.80 | 2.62 | 5   |
| WSR04 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.5  | 17:38 | 8.41 | 8.18 | 32.83 | 24.92 | 2.34 | 7   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 16:38 | 9.37 | 8.16 | 33.26 | 25.36 | 2.55 | 7   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 16:38 | 9.39 | 8.13 | 33.05 | 25.24 | 2.74 | 8   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 8.4  | 16:37 | 9.48 | 8.25 | 33.17 | 25.36 | 2.66 | 7   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 8.4  | 16:37 | 9.38 | 8.14 | 33.05 | 25.28 | 2.56 | 5   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 15.8 | 16:36 | 9.43 | 8.2  | 33.17 | 25.34 | 2.14 | 4   |
| WSR16 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 15.8 | 16:36 | 9.4  | 8.21 | 33.13 | 25.22 | 2.07 | 3   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:26 | 9.47 | 8.36 | 33.07 | 24.95 | 2.72 | 4   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:26 | 9.33 | 8.39 | 33.07 | 24.95 | 2.67 | 6   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.65 | 17:25 | 9.32 | 8.38 | 33.03 | 24.96 | 2.78 | 6   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.65 | 17:25 | 9.47 | 8.28 | 33.05 | 25.03 | 2.46 | 3   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.3  | 17:24 | 9.34 | 8.36 | 33.03 | 24.94 | 2.68 | 7   |
| WSR33 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.3  | 17:24 | 9.48 | 8.31 | 33.12 | 25.05 | 2.52 | 7   |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:12 | 9.46 | 8.29 | 33.28 | 24.95 | 3.5  | 3   |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 17:12 | 9.41 | 8.28 | 33.26 | 24.94 | 3.08 | 2.5 |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.7  | 17:12 | 9.48 | 8.31 | 33.16 | 24.91 | 2.8  | 2.5 |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.7  | 17:12 | 9.54 | 8.41 | 33.19 | 24.87 | 3.08 | 2.5 |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.4  | 17:11 | 9.48 | 8.36 | 33.09 | 24.91 | 2.61 | 6   |
| WSR36 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.4  | 17:11 | 9.43 | 8.36 | 33.27 | 25.00 | 2.68 | 6   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 16:59 | 8.47 | 8.13 | 32.77 | 24.61 | 2.45 | 4   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Surface | 1    | 16:59 | 8.32 | 8.05 | 32.57 | 24.63 | 2.58 | 4   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.8  | 16:58 | 8.47 | 8.11 | 32.60 | 24.72 | 2.23 | 5   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Middle  | 3.8  | 16:58 | 8.36 | 8.09 | 32.68 | 24.79 | 2.13 | 6   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.6  | 16:57 | 8.32 | 8.16 | 32.77 | 24.60 | 2.1  | 5   |
| WSR37 | 20220423 | Cloudy  | Moderate | Mid-Ebb | Bottom  | 6.6  | 16:57 | 8.38 | 8.18 | 32.71 | 24.72 | 1.76 | 7   |
| CE    | 20220425 | Sunny   | Moderate | Mid-Ebb | Surface | 1    | 8:02  | 8.56 | 8.05 | 30.12 | 26.07 | 3.5  | 4   |
| CE    | 20220426 | Sunny   | Moderate | Mid-Ebb | Surface | 1    | 8:02  | 8.55 | 8.03 | 30.08 | 25.95 | 3.49 | 5   |
| CE    | 20220426 | Sunny   | Moderate | Mid-Ebb | Middle  | 10.8 | 8:01  | 8.46 | 7.98 | 30.09 | 25.98 | 3.43 | 3   |
| CE    | 20220426 | Sunny   | Moderate | Mid-Ebb | Middle  | 10.8 | 8:01  | 8.53 | 8.04 | 30.23 | 26.10 | 3.41 | 5   |
| CE    | 20220426 | Sunny   | Moderate | Mid-Ebb | Bottom  | 20.6 | 8:00  | 8.52 | 7.97 | 30.10 | 26.10 | 3.34 | 5   |
| CE    | 20220426 | Sunny   | Moderate | Mid-Ebb | Bottom  | 20.6 | 8:00  | 8.42 | 8.07 | 30.27 | 26.13 | 3.28 | 4   |
| CF    | 20220426 | Sunny   | Moderate | Mid-Ebb | Surface | 1    | 10:47 | 8.46 | 8.13 | 30.67 | 26.72 | 2.8  | 6   |
| CF    | 20220426 | Sunny   | Moderate | Mid-Ebb | Surface | 1    | 10:47 | 8.45 | 8.12 | 30.73 | 26.62 | 2.98 | 7   |
| CF    | 20220426 | Sunny   | Moderate | Mid-Ebb | Middle  | 9.9  | 10:46 | 8.45 | 8.17 | 30.99 | 26.63 | 2.68 | 3   |
| CF    | 20220426 | Sunny   | Moderate | Mid-Ebb | Middle  | 9.9  | 10:46 | 8.45 | 8.1  | 31.01 | 26.75 | 2.73 | 4   |
| CF    | 20220420 | Juility | Moderate | MIU-EUU | midule  | 9.7  | 10:40 | 0.43 | 0.1  | 31.01 | 20.73 | 4.73 | 4   |

| CF             | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 18.8     | 10:45 | 8.48 | 8.19 | 30.97 | 26.59 | 2.82 | 6  |
|----------------|----------|-------|----------|---------|---------|----------|-------|------|------|-------|-------|------|----|
| CF             | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 18.8     | 10:45 | 8.5  | 8.12 | 30.89 | 26.59 | 2.91 | 7  |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 10:22 | 8.48 | 8.07 | 29.90 | 26.55 | 2.58 | 3  |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 10:22 | 8.41 | 8.06 | 29.86 | 26.44 | 2.48 | 6  |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.25     | 10:21 | 8.55 | 8.06 | 30.15 | 26.46 | 2.44 | 5  |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.25     | 10:21 | 8.46 | 8.02 | 30.06 | 26.52 | 2.17 | 7  |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.5      | 10:20 | 8.52 | 8.11 | 29.94 | 26.54 | 2.27 | 12 |
| WSR01          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.5      | 10:20 | 8.4  | 8.03 | 30.03 | 26.53 | 2.02 | 11 |
| WSR02          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 10:02 | 8.48 | 8.16 | 30.31 | 26.06 | 2.13 | 5  |
| WSR02          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 10:02 | 8.46 | 8.2  | 30.13 | 26.13 | 2.08 | 6  |
| WSR02          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.5      | 10:01 | 8.47 | 8.18 | 30.21 | 26.03 | 2.28 | 8  |
| WSR02          | 20220426 |       |          | Mid-Ebb | Middle  |          | 10:01 | 8.46 | 8.11 | 30.04 | 26.04 | 2.08 | 10 |
| WSR02<br>WSR02 | 20220426 | Sunny | Moderate |         |         | 4.5<br>8 | 10:01 | 8.38 | 8.11 | 30.23 | 26.11 | 2.08 | 8  |
|                |          | Sunny | Moderate | Mid-Ebb | Bottom  |          |       |      |      |       |       |      |    |
| WSR02          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 8        | 10:00 | 8.49 | 8.11 | 30.15 | 25.94 | 1.82 | 5  |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:46  | 9.21 | 8.07 | 30.11 | 26.06 | 2.8  | 6  |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:46  | 9.09 | 8.08 | 29.94 | 26.01 | 2.53 | 5  |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.05     | 9:45  | 9.05 | 8.08 | 30.07 | 26.07 | 2.03 | 8  |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.05     | 9:45  | 9.19 | 8.03 | 30.11 | 26.14 | 1.86 | 10 |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.1      | 9:44  | 9.17 | 8.03 | 30.02 | 26.13 | 1.81 | 4  |
| WSR03          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 7.1      | 9:44  | 9.21 | 8.08 | 30.03 | 26.05 | 1.61 | 3  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:32  | 8.27 | 8.12 | 30.24 | 26.77 | 2.67 | 7  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:32  | 8.25 | 8.2  | 30.34 | 26.64 | 2.4  | 5  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 3.7      | 9:31  | 8.17 | 8.16 | 30.36 | 26.77 | 2.35 | 7  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 3.7      | 9:31  | 8.21 | 8.12 | 30.21 | 26.64 | 2.31 | 9  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.4      | 9:30  | 8.34 | 8.15 | 30.33 | 26.66 | 2.14 | 7  |
| WSR04          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.4      | 9:30  | 8.28 | 8.16 | 30.18 | 26.77 | 2.06 | 5  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 8:26  | 8.94 | 8.06 | 30.22 | 26.11 | 2.42 | 8  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 8:26  | 8.75 | 8.05 | 30.11 | 26.06 | 2.89 | 8  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 7.7      | 8:25  | 8.89 | 8.05 | 30.15 | 26.09 | 2.51 | 7  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 7.7      | 8:25  | 8.89 | 8.09 | 30.02 | 26.14 | 2.23 | 7  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 14.4     | 8:24  | 8.9  | 8.14 | 30.16 | 26.13 | 2.37 | 6  |
| WSR16          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 14.4     | 8:24  | 8.94 | 8.1  | 30.31 | 26.02 | 2.18 | 5  |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:17  | 8.29 | 7.94 | 30.31 | 26.71 | 2.96 | 7  |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:17  | 8.34 | 8    | 30.56 | 26.80 | 2.9  | 6  |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 3.55     | 9:17  | 8.38 | 7.93 | 30.54 | 26.88 | 2.3  | 6  |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  |          | 9:16  | 8.31 | 7.93 | 30.54 | 26.89 | 2.42 | 6  |
|                |          |       |          |         |         | 3.55     |       |      |      |       |       |      | 9  |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.1      | 9:15  | 8.38 | 7.96 | 30.39 | 26.84 | 2.35 |    |
| WSR33          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.1      | 9:15  | 8.4  | 7.91 | 30.54 | 26.75 | 2.39 | 7  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:01  | 8.31 | 8.04 | 30.14 | 26.69 | 2.6  | 6  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 9:01  | 8.14 | 7.97 | 30.33 | 26.69 | 2.35 | 6  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 3.55     | 9:01  | 8.25 | 8.04 | 30.27 | 26.58 | 2.37 | 6  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 3.55     | 9:01  | 8.28 | 8.01 | 30.06 | 26.66 | 2.16 | 6  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.1      | 9:00  | 8.17 | 8.01 | 30.04 | 26.63 | 1.33 | 6  |
| WSR36          | 20220426 | Sunny | Moderate | Mid-Ebb | Bottom  | 6.1      | 9:00  | 8.21 | 7.95 | 30.30 | 26.66 | 1.59 | 4  |
| WSR37          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 8:48  | 8.7  | 8.07 | 29.93 | 26.79 | 2.22 | 13 |
| WSR37          | 20220426 | Sunny | Moderate | Mid-Ebb | Surface | 1        | 8:48  | 8.69 | 8.02 | 29.87 | 26.86 | 2.13 | 10 |
| WSR37          | 20220426 | Sunny | Moderate | Mid-Ebb | Middle  | 4.15     | 8:47  | 8.81 | 8.11 | 30.12 | 26.79 | 2.37 | 4  |
|                |          |       |          |         |         |          |       |      |      |       |       |      |    |

| WSR37                                   | 20220426 | Sunny  | Moderate  | Mid-Ebb  | Middle  | 4.15  | 8:47  | 8.69 | 8.1   | 29.87 | 26.85 | 2    | 3   |
|---|----------|--------|-----------|----------|---------|-------|-------|------|-------|-------|-------|------|-----|
| WSR37                                   | 20220426 | Sunny  | Moderate  | Mid-Ebb  | Bottom  | 7.3   | 8:46  | 8.8  | 8.07  | 30.05 | 26.85 | 1.32 | 3   |
| WSR37                                   | 20220426 | Sunny  | Moderate  | Mid-Ebb  | Bottom  | 7.3   | 8:46  | 8.77 | 8.07  | 29.99 | 26.69 | 1.33 | 2.5 |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 9:19  | 9.23 | 8.01  | 30.62 | 27.81 | 3.67 | 4   |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 9:19  | 9.01 | 8.04  | 30.60 | 27.75 | 3.55 | 3   |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 11.85 | 9:18  | 9.05 | 7.95  | 30.48 | 27.84 | 3.44 | 2.5 |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 11.85 | 9:18  | 9.09 | 8.02  | 30.44 | 27.77 | 3.55 | 2.5 |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 22.7  | 9:17  | 9.01 | 7.96  | 30.66 | 27.81 | 3.52 | 3   |
| CE                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 22.7  | 9:17  | 9.16 | 7.98  | 30.49 | 27.81 | 3.58 | 2.5 |
| CF                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:58 | 9.55 | 8.2   | 30.08 | 27.98 | 2.83 | 2.5 |
| CF                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:58 | 9.43 | 8.19  | 30.25 | 27.90 | 2.95 | 4   |
| CF                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 10.35 | 11:57 | 9.31 | 8.26  | 30.17 | 27.85 | 2.76 | 3   |
| CF                                      | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 10.35 | 11:57 | 9.24 | 8.28  | 30.26 | 27.93 | 2.95 | 2.5 |
| CF                                      | 20220428 | Cloudy |           | Mid-Ebb  | Bottom  | 19.7  | 11:56 | 9.37 | 8.17  | 30.20 | 27.87 | 2.9  | 11  |
|   |          |        | Moderate  |          |         |       |       |      |       |       |       |      |     |
| CF<br>WCD01                             | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 19.7  | 11:56 | 9.44 | 8.19  | 30.11 | 27.98 | 2.85 | 10  |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:35 | 9.5  | 8.11  | 31.00 | 28.00 | 2.29 | 3   |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:35 | 9.29 | 8.15  | 31.19 | 27.88 | 2.21 | 2.5 |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 4.2   | 11:34 | 9.45 | 8.15  | 31.19 | 27.96 | 2.27 | 2.5 |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 4.2   | 11:34 | 9.51 | 8.12  | 31.00 | 27.96 | 2.59 | 2.5 |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 7.4   | 11:33 | 9.6  | 8.17  | 30.91 | 27.91 | 2.09 | 2.5 |
| WSR01                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 7.4   | 11:33 | 9.53 | 8.1   | 31.20 | 27.96 | 1.98 | 2.5 |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:16 | 8.95 | 8.02  | 30.91 | 27.44 | 2.17 | 2.5 |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 11:16 | 9.06 | 8.05  | 30.61 | 27.35 | 2.55 | 2.5 |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 4.8   | 11:15 | 9.05 | 8.07  | 30.61 | 27.48 | 2.19 | 2.5 |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 4.8   | 11:15 | 8.95 | 8.13  | 30.75 | 27.47 | 2.15 | 2.5 |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 8.6   | 11:14 | 9.02 | 8.06  | 30.68 | 27.49 | 2.22 | 17  |
| WSR02                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 8.6   | 11:14 | 9.04 | 8.06  | 30.77 | 27.44 | 2.15 | 18  |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:59 | 9.19 | 8.06  | 30.13 | 27.81 | 2.76 | 3   |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:59 | 9.48 | 8.1   | 30.32 | 27.76 | 2.32 | 3   |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 3.75  | 10:58 | 9.29 | 8.06  | 30.28 | 27.78 | 2.4  | 23  |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 3.75  | 10:58 | 9.2  | 8.15  | 30.14 | 27.86 | 2.19 | 20  |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 6.5   | 10:57 | 9.3  | 8.08  | 30.21 | 27.86 | 2.34 | 2.5 |
| WSR03                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 6.5   | 10:57 | 9.25 | 8.11  | 30.14 | 27.90 | 2.33 | 2.5 |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:45 | 9.4  | 8.14  | 31.06 | 28.14 | 2.68 | 3   |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:45 | 9.29 | 8.12  | 30.99 | 28.22 | 2.56 | 2.5 |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 3.35  | 10:44 | 9.33 | 8.1   | 31.07 | 28.18 | 2.72 | 4   |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 3.35  | 10:44 | 9.28 | 8.17  | 30.94 | 28.11 | 2.6  | 3   |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 5.7   | 10:43 | 9.17 | 8.12  | 30.90 | 28.17 | 2.46 | 3   |
| WSR04                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 5.7   | 10:43 | 9.43 | 8.04  | 30.81 | 28.07 | 2.19 | 2.5 |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 9:42  | 9.8  | 8.06  | 30.72 | 27.45 | 2.15 | 4   |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 9:42  | 9.75 | 8.07  | 30.46 | 27.51 | 2.35 | 5   |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 7.9   | 9:41  | 9.74 | 8.06  | 30.48 | 27.45 | 2.11 | 2.5 |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Middle  | 7.9   | 9:41  | 9.58 | 8.01  | 30.65 | 27.45 | 2.09 | 2.5 |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 14.8  | 9:40  | 9.75 | 8     | 30.67 | 27.50 | 2.18 | 3   |
| WSR16                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Bottom  | 14.8  | 9:40  | 9.8  | 8.07  | 30.75 | 27.46 | 1.82 | 3   |
| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:30 | 9.28 | 8.25  | 30.80 | 27.43 | 2.75 | 4   |
| WSR33                                   | 20220428 | Cloudy | Moderate  | Mid-Ebb  | Surface | 1     | 10:30 | 9.4  | 8.24  | 30.64 | 27.50 | 2.61 | 2.5 |
| *************************************** | _0000100 | Sioudy | Proderate | riid Ebb | Duriuce | -     | 10.00 | 7.1  | 0.2 1 | 50.01 | 27.00 | 2.01 | 2.0 |

| _     |          |        |          |         |         |       |       |      |      |       |       |      |     |
|-------|----------|--------|----------|---------|---------|-------|-------|------|------|-------|-------|------|-----|
| WSR33 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.5   | 10:29 | 9.39 | 8.16 | 30.84 | 27.48 | 2.47 | 3   |
| WSR33 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.5   | 10:29 | 9.3  | 8.29 | 30.90 | 27.49 | 2.85 | 3   |
| WSR33 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6     | 10:28 | 9.41 | 8.21 | 30.80 | 27.52 | 2    | 2.5 |
| WSR33 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6     | 10:28 | 9.29 | 8.29 | 30.64 | 27.54 | 2.22 | 2.5 |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:16 | 9.67 | 8.28 | 31.10 | 27.68 | 2.63 | 3   |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:16 | 9.44 | 8.15 | 31.30 | 27.68 | 2.66 | 4   |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.05  | 10:16 | 9.63 | 8.21 | 31.15 | 27.78 | 2.31 | 3   |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.05  | 10:16 | 9.44 | 8.21 | 31.20 | 27.81 | 2.34 | 6   |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 5.1   | 10:15 | 9.6  | 8.25 | 31.09 | 27.81 | 2.48 | 3   |
| WSR36 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 5.1   | 10:15 | 9.43 | 8.15 | 31.32 | 27.78 | 2.31 | 2.5 |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:03 | 8.89 | 8.21 | 30.54 | 27.46 | 2.73 | 4   |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:03 | 8.69 | 8.19 | 30.44 | 27.47 | 2.29 | 4   |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.3   | 10:02 | 8.73 | 8.18 | 30.43 | 27.52 | 2.21 | 3   |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.3   | 10:02 | 8.71 | 8.17 | 30.35 | 27.38 | 2.59 | 6   |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.6   | 10:01 | 8.91 | 8.3  | 30.57 | 27.38 | 2.14 | 5   |
| WSR37 | 20220428 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.6   | 10:01 | 8.9  | 8.17 | 30.50 | 27.39 | 1.98 | 5   |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:25 | 9.42 | 8.1  | 33.36 | 25.55 | 3.67 | 3   |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 10:25 | 9.49 | 8.1  | 33.34 | 25.52 | 3.75 | 3   |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 10.85 | 10:24 | 9.45 | 8.07 | 33.15 | 25.54 | 3.88 | 3   |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 10.85 | 10:24 | 9.37 | 8.16 | 33.26 | 25.72 | 3.99 | 2.5 |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 20.7  | 10:23 | 9.54 | 8.06 | 33.28 | 25.76 | 3.57 | 3   |
| CE    | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 20.7  | 10:23 | 9.36 | 8.1  | 33.35 | 25.81 | 3.73 | 2.5 |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 13:02 | 8.91 | 8.27 | 33.68 | 25.84 | 3.21 | 2.5 |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 13:02 | 8.95 | 8.2  | 33.50 | 25.74 | 3.07 | 3   |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 9.65  | 13:01 | 8.97 | 8.26 | 33.60 | 25.68 | 3.33 | 2.5 |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 9.65  | 13:01 | 8.92 | 8.19 | 33.49 | 25.63 | 2.98 | 2.5 |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 18.3  | 13:00 | 8.77 | 8.26 | 33.74 | 25.70 | 3.13 | 2.5 |
| CF    | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 18.3  | 13:00 | 8.89 | 8.23 | 33.69 | 25.90 | 3.29 | 2.5 |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:38 | 9.64 | 8.27 | 32.53 | 25.85 | 3.19 | 2.5 |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:38 | 9.75 | 8.3  | 32.55 | 25.76 | 2.94 | 3   |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.15  | 12:37 | 9.65 | 8.26 | 32.72 | 25.80 | 3.06 | 2.5 |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.15  | 12:37 | 9.69 | 8.29 | 32.63 | 25.84 | 2.84 | 2.5 |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.3   | 12:36 | 9.73 | 8.27 | 32.76 | 25.84 | 2.95 | 2.5 |
| WSR01 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.3   | 12:36 | 9.63 | 8.27 | 32.58 | 25.81 | 2.51 | 3   |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:20 | 9.38 | 8.21 | 33.36 | 26.02 | 2.06 | 2.5 |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:20 | 9.25 | 8.23 | 33.48 | 26.03 | 2.22 | 2.5 |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.95  | 12:19 | 9.23 | 8.31 | 33.52 | 26.27 | 2.13 | 4   |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.95  | 12:19 | 9.26 | 8.3  | 33.35 | 26.14 | 1.86 | 3   |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.9   | 12:18 | 9.38 | 8.29 | 33.34 | 25.97 | 2.04 | 4   |
| WSR02 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 8.9   | 12:18 | 9.23 | 8.24 | 33.31 | 26.02 | 1.86 | 2.5 |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:03 | 9.68 | 8.2  | 33.25 | 26.00 | 2.87 | 4   |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 12:03 | 9.58 | 8.23 | 33.39 | 26.12 | 2.81 | 5   |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.05  | 12:02 | 9.68 | 8.13 | 33.23 | 26.05 | 2.46 | 4   |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.05  | 12:02 | 9.61 | 8.14 | 33.22 | 25.90 | 2.85 | 5   |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.1   | 12:01 | 9.58 | 8.23 | 33.29 | 26.20 | 2.15 | 5   |
| WSR03 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.1   | 12:01 | 9.61 | 8.23 | 33.44 | 26.03 | 1.89 | 4   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1     | 11:52 | 9.39 | 8.24 | 32.95 | 25.59 | 2.88 | 4   |

| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:52 | 9.49 | 8.25 | 32.99 | 25.35 | 3.31 | 5   |
|-------|----------|--------|----------|---------|---------|------|-------|------|------|-------|-------|------|-----|
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.85 | 11:51 | 9.48 | 8.21 | 33.07 | 25.63 | 2.72 | 5   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.85 | 11:51 | 9.39 | 8.26 | 33.12 | 25.46 | 2.41 | 3   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.7  | 11:50 | 9.34 | 8.28 | 33.00 | 25.38 | 2.87 | 3   |
| WSR04 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.7  | 11:50 | 9.46 | 8.29 | 33.01 | 25.56 | 2.59 | 4   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 10:49 | 9.64 | 8.19 | 33.23 | 25.45 | 2.92 | 4   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 10:49 | 9.61 | 8.12 | 33.16 | 25.38 | 2.63 | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 8.3  | 10:48 | 9.67 | 8.11 | 33.16 | 25.34 | 2.47 | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 8.3  | 10:48 | 9.65 | 8.15 | 33.23 | 25.49 | 2.67 | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 15.6 | 10:47 | 9.56 | 8.12 | 33.11 | 25.43 | 2.5  | 3   |
| WSR16 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 15.6 | 10:47 | 9.55 | 8.2  | 33.18 | 25.32 | 2.36 | 6   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:38 | 9.87 | 8.11 | 33.03 | 25.53 | 2.85 | 3   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:38 | 9.84 | 8.16 | 33.13 | 25.71 | 3.07 | 4   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.75 | 11:37 | 9.87 | 8.19 | 32.98 | 25.65 | 2.68 | 3   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.75 | 11:37 | 9.74 | 8.13 | 33.07 | 25.67 | 3.02 | 6   |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.5  | 11:36 | 9.69 | 8.16 | 33.04 | 25.43 | 2.78 | 2.5 |
| WSR33 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6.5  | 11:36 | 9.79 | 8.13 | 32.91 | 25.54 | 2.33 | 4   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:24 | 9.43 | 8.08 | 33.44 | 25.81 | 2.68 | 3   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:24 | 9.29 | 8.09 | 33.37 | 25.62 | 2.87 | 3   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.5  | 11:24 | 9.35 | 8.14 | 33.39 | 25.62 | 2.94 | 2.5 |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 3.5  | 11:24 | 9.34 | 8.03 | 33.43 | 25.59 | 2.94 | 3   |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6    | 11:23 | 9.44 | 8.06 | 33.57 | 25.80 | 2.06 | 2.5 |
| WSR36 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 6    | 11:23 | 9.31 | 8.05 | 33.49 | 25.56 | 2.29 | 4   |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:11 | 8.95 | 8.23 | 33.01 | 26.23 | 2.75 | 4   |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Surface | 1    | 11:11 | 8.99 | 8.23 | 32.99 | 26.00 | 2.5  | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.35 | 11:10 | 9    | 8.28 | 32.86 | 26.10 | 3    | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Middle  | 4.35 | 11:10 | 9.05 | 8.31 | 32.94 | 26.06 | 3.04 | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.7  | 11:09 | 8.99 | 8.23 | 32.90 | 26.21 | 2.22 | 2.5 |
| WSR37 | 20220430 | Cloudy | Moderate | Mid-Ebb | Bottom  | 7.7  | 11:09 | 9.05 | 8.29 | 33.08 | 26.18 | 2.66 | 3   |
|       |          |        |          |         |         |      |       |      |      |       |       |      |     |

Contract Title Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Contract No.: 13/WSD/17

| Serial No. | Monitoring Equipment | Last Calibration |
|------------|----------------------|------------------|
| 254938     | GMI-\$5500           | 29/9/2021        |
|            |                      |                  |
|            |                      |                  |

| Monitoring        | Date         | Time    | Weather Condition                                    |                | Landfill Gas | Parameters            |                               | Physical Parameters       |                  | Meas  | ured by   |
|-------------------|--------------|---------|--|----------------|--------------|-----------------------|-------------------------------|---------------------------|------------------|-------|-----------|
| Location          | (dd/mm/yyyy) | (hh:mm) | Sunny/ Fine/ Overcast/<br>Drizzle/ Rain/ Storm/ Hazy | Methane (%LEL) | Oxygen (%)   | Carbon Dioxide<br>(%) | Balance Gas (%)<br>(e.g. H2S) | Temp (°C) / Pressure mBar | Trench Depth (m) | Name  | Signature |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 8:30    | Fine   | ь              | 20.9         | 0.04                  | υ                             | 16,2/1020                 | 2                | Peter | RAL       |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 13:30   | Fine   | J              | 20.7         | 0.04                  | 0                             | 21.5/1020                 | 2                | Peter | MA        |
| Ch1+360 - Ch1+513 | 2 /4/2022    | 8:30    | Fine   | o              | 20-9         | 0.04                  | υ                             | 14,1 / 1023               | 2                | Peter | RAL       |
| Ch1+360 - Ch1+513 | ک / 4/ 2022  | 13:30   | Fine   | 0              | 20.9         | 0-04                  | Ø                             | 15.5 / /023               | 2                | Peter | Alv       |
| Ch1+360 - Ch1+513 | /-4/-2022    | 8:30    |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 13:30   |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 8:30    |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 13:30   |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 8:30    |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 13:30   |  |                |              |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 8:30    |  |                |              |                       |                               | 1                         | 2                | Peter | 3         |
| Ch1+360 - Ch1+513 | / 4/ 2022    | 13:30   |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | 14/2022      | 8:30    |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | /4/2022      | 13:30   |  |                |              |                       |                               |                           | 2                | Peter |           |
|                   |              |         |  |                |              |                       |                               |                           |                  |       |           |
|                   |              |         |  |                |              |                       |                               |                           |                  |       |           |

Checked by :

Sam

2/4/2022

Contract Title Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Contract No.: 13/WSD/17

| Serial No. | Monitoring Equipment | Last Calibration |
|------------|----------------------|------------------|
| 254938     | GMI-PS500            | 29/9/2021        |
|            |                      |                  |
|            |                      |                  |

| Monitoring        | Date                 | Time    | Weather Condition                                    |                | Landfill Gas | Parameters            |                               | Physical Parameters       |                  | Meas  | ured by   |
|-------------------|----------------------|---------|--|----------------|--------------|-----------------------|-------------------------------|---------------------------|------------------|-------|-----------|
| Location          | (dd/mm/yyyy)         | (hh:mm) | Sunny/ Fine/ Overcast/<br>Drizzle/ Rain/ Storm/ Hazy | Methane (%LEL) | Oxygen (%)   | Carbon Dioxide<br>(%) | Balance Gas (%)<br>(e.g. H2S) | Temp (°C) / Pressure mBar | Trench Depth (m) | Name  | Signature |
| Ch1+360 - Ch1+513 | / 4/ 2022            | 8:30    | Time   | O              | إمر          | 0.04                  | 6                             | 17,2 / 1022               | 2                | Peter | REL       |
| Ch1+360 - Ch1+513 | 4 /4/2022            | 13:30   | F:hc   | 0              | 20.8         | 7.04                  | 0                             | 24.8/1022                 | 2                | Peter | Atl       |
| Ch1+360 - Ch1+513 | ( / 4/ 2022          | 8:30    | Sunny  | 0              | 207          | 0.04                  | σ                             | 19.1 //020                | 2                | Peter | Mar       |
| Ch1+360 - Ch1+513 | ( / 4/ 2022          | 13:30   | Sunky  | ρ              | 209          | 0.04                  | Ø                             | 26.5 1/020                | 2                | Peter | phs       |
| Ch1+360 - Ch1+513 | 7 /4/2022            | 8:30    | -ihe   | 0              | 20)          | 0.04                  | 6                             | 19.8 / 1017               | 2                | Peter | Ph. L     |
| Ch1+360 - Ch1+513 | 7 / 4/ 2022          | 13:30   | Lihe   | Ö              | 20.1         | p.04                  | 0                             | 258 /1017                 | 2                |       | RAL       |
| Ch1+360 - Ch1+513 | 8 /4/2022            | 8:30    | Surry  | o              | 2029         | 0.04                  | O                             | 21. 1/1016                | 2                | Peter | Mel       |
| Ch1+360 - Ch1+513 | y /4/2022            | 13:30   | Sung   | 0              | 20.7         | 0,04                  | O                             | 287 /1016                 | 2                | Peter | REA       |
| Ch1+360 - Ch1+513 | م / 4/ 2022          | 8:30    | Surry  | 0              | 2.           | 0,04                  | Ö                             | 17.1 /1015                | 2                | Peter | phop      |
| Ch1+360 - Ch1+513 | \ /4/2022            | 13:30   | Sunny  | ь              | ٦.٩          | 0.04                  | Э                             | 27.2/1015                 | 2                | Peter | Phps      |
| Ch1+360 - Ch1+513 |                      | 8:30    |  |                | ,            |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022            | 13:30   |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022            | 8:30    |  |                |              |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | <del>- 14/2022</del> | 13:30   |  |                |              |                       |                               |                           | 2                | Peter |           |
|                   |                      |         |  |                |              |                       |                               |                           |                  |       |           |
|                   |                      |         |  |                |              |                       |                               |                           |                  |       |           |

Checked by:  $2M_{\rm ho}$ Date 9/4/2022

Contract Title Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Contract No.: 13/WSD/17

| - 2/2/    |
|-----------|
| 29/9/2021 |
|           |
|           |

| Monitoring        | Date                   | Time             | Weather Condition                                    |                | Landfill Gas | Parameters            |                               | Physical Parameters       |                  | Meas  | ured by   |
|-------------------|------------------------|------------------|--|----------------|--------------|-----------------------|-------------------------------|---------------------------|------------------|-------|-----------|
| Location          | (dd/mm/yyyy)           | (hh:mm)          | Sunny/ Fine/ Overcast/<br>Drizzle/ Rain/ Storm/ Hazy | Methane (%LEL) | Oxygen (%)   | Carbon Dioxide<br>(%) | Balance Gas (%)<br>(e.g. H2S) | Temp (°C) / Pressure mBar | Trench Depth (m) | Name  | Signature |
| Ch1+360 - Ch1+513 | 1 /4/2022              | 8:30             | Sunny  | O              | 2019         | 0.04                  | O                             | 23.1 / /011               | 2                | Peter | MA        |
| Ch1+360 - Ch1+513 | [   /4/2022            | 13:30            | Survey   | 0              | wl           | 6.04                  | D D                           | 29.8 / 1011               | 2                | Peter | Atal      |
| Ch1+360 - Ch1+513 | し/4/2022               | 8:30             | Enny   | Ø              | 201          | 0.04                  | P                             | 22/108                    | 2                | Peter | pt R      |
| Ch1+360 - Ch1+513 | レ/4/2022               | 13:30            | Suncy  | ρ              | Zel          | 0.04                  | P                             | 301/1007                  | 2                | Peter | Ph L      |
| Ch1+360 - Ch1+513 | [ ] /4/2022            | 8:30             | Flue   | 0              | 20.1         | 0.04                  | 0                             | 234/106                   | 2                | Peter | flat R    |
| Ch1+360 - Ch1+513 | ( } /4/2022            | 13:30            | The  | 0              | 20.9         | 0.04                  | 0                             | 26.9 / 1006               | 2                | Peter | fat B     |
| Ch1+360 - Ch1+513 | (4 /4/2022             | 8:30             | Fim  | ρ              | 20,9         | 0.04                  | 0                             | 235/1012                  | 2                | Peter | MAR       |
| Ch1+360 - Ch1+513 | (4 / 4/ 2022           | 13:30            | Film   | 9              | 20.7         | PG, 0                 | O                             | 27,5/ 1012                | 2                | Peter | Men       |
| Ch1+360 - Ch1+513 | · <del>/-4/-2022</del> | 8:30             |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022              | 13:30            |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022              | 8:30             |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022              | 13:30            |  |                |              |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022              | <del>8:3</del> 0 |  |                |              |                       |                               | 1                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | 14/2022                | 13:30            |  |                |              |                       |                               | /                         | 2                | Peter | ,         |
|                   |                        |                  |  |                |              |                       |                               |                           |                  |       |           |
|                   |                        |                  |  |                |              |                       |                               |                           |                  |       |           |

Contract Title Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Contract No.: 13/WSD/17

| ration | Last Calib | Monitoring Equipment | Serial No. |
|--------|------------|----------------------|------------|
| 1021   | 29/9/      | GMI-PS500            | 254938     |
|        |            |                      |            |
|        |            |                      |            |

| Monitoring        | Date          | Time    | Weather Condition                                    |                | Landfill Gas | Parameters            |                               | Physical Parameters       |                  | Meas  | sured by  |
|-------------------|---------------|---------|--|----------------|--------------|-----------------------|-------------------------------|---------------------------|------------------|-------|-----------|
| Location          | (dd/mm/yyyy)  | (hh:mm) | Sunny/ Fine/ Overcast/<br>Drizzle/ Rain/ Storm/ Hazy | Methane (%LEL) | Oxygen (%)   | Carbon Dioxide<br>(%) | Balance Gas (%)<br>(e.g. H2S) | Temp (°C) / Pressure mBar | Trench Depth (m) | Name  | Signature |
| Ch1+360 - Ch1+513 |               | 8:30    | Fibe   | v              | 20.9         | 0.04                  |                               | 8.5 / lan                 | 2                | Peter | REN       |
| Ch1+360 - Ch1+513 | / \ / 4/ 2022 | 13:30   | tire   | v              | nS           | 2.04                  | 0                             | 21 /1017                  | 2                | Peter | RKA       |
| Ch1+360 - Ch1+513 | レ /4/2022     | 8:30    | Surny  | 0              | 20.8         | 0.04                  | 0                             | 70-1 /1013                | 2                | Peter | fred      |
| Ch1+360 - Ch1+513 |               | 13:30   | Suncy  | 0              | 20,5         | 0,04                  | 0                             | 252/195                   | 2                | Peter | AAA       |
| Ch1+360 - Ch1+513 | U /4/2022     | 8:30    | Suhny  | 0              | 20.9         | 0.04                  | 0                             | 21,5/1013                 | 2                | Peter | MER       |
| Ch1+360 - Ch1+513 | y /4/2022     | 13:30   | Sunny  | 0              | 20.9         | 40.0                  | 0                             | 27.9 / /013               | 2                | Peter | AAR       |
| Ch1+360 - Ch1+513 | Lr. /4/2022   | 8:30    | Fim  | 0              | 20-1         | 0104                  | 0                             | 24,1 / /012               | 2                | Peter | Man       |
| Ch1+360 - Ch1+513 | レ /4/2022     | 13:30   | Fire   | 0              | 20.5         | 0.04                  | 0                             | 29.2 / 10/2               | 2                | Peter | Mar       |
| Ch1+360 - Ch1+513 | L} /4/2022    | 8:30    | Eunny  | Ø              | 227          | 0.04                  | Q                             | 24.5/1010                 | 2                | Peter | War       |
| Ch1+360 - Ch1+513 | レ} /4/2022    | 13:30   | Swamy  | Ö              | 20.9         | 6-04                  | b                             | 27. 1/010                 | 2                | Peter | Men       |
| Ch1+360 - Ch1+513 | - /4/2022     | 8:30    |  |                |              |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022     | 13:30   |  |                |              |                       |                               |                           | 2                | Peter |           |
| Ch1+360 - Ch1+513 | / 4/ 2022     | 8:30    |  |                |              |                       |                               | /                         | 2                | Peter |           |
| Ch1+360 - Ch1+513 | /4/2022       | 13:30   |  |                | ,            |                       |                               | /                         | 2                | Peter |           |
|                   |               |         |  |                |              |                       |                               |                           |                  |       | 1         |
|                   |               |         |  |                |              |                       |                               |                           |                  |       | ,         |

Checked by:

23/4/2022

Contract Title Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Contract No.: 13/WSD/17

| Serial No. | Monitoring Equipment | Last Calibration |
|------------|----------------------|------------------|
| 254938     | GMI-PS500            | 29/9/2021        |
|            |                      |                  |

| Monitoring        | Date         | Time    | Weather Condition                                    |                | Landfill Gas | Parameters            |                               | Physical Parameters       |                  | Meas  | ured by   |
|-------------------|--------------|---------|--|----------------|--------------|-----------------------|-------------------------------|---------------------------|------------------|-------|-----------|
| Location          | (dd/mm/yyyy) | (hh:mm) | Sunny/ Fine/ Overcast/<br>Drizzle/ Rain/ Storm/ Hazy | Methane (%LEL) | Oxygen (%)   | Carbon Dioxide<br>(%) | Balance Gas (%)<br>(e.g. H2S) | Temp (°C) / Pressure mBar | Trench Depth (m) | Name  | Signature |
| Ch1+360 - Ch1+513 | 25 /4/2022   | 8:30    | Surmy  | 0              | Zuef         | 0.04                  | 0                             | /                         | 2                | Peter | RAN       |
| Ch1+360 - Ch1+513 | )5 /4/2022   | 13:30   | Smany  | 0              | 201          | 0,94                  | D                             | 1                         | 2                | Peter | MA        |
| Ch1+360 - Ch1+513 | Jb /4/2022   | 8:30    | Sury   | 0              | 228          | 0.04                  | 0                             | /                         | 2                | Peter | IAA       |
| Ch1+360 - Ch1+513 | No /4/2022   | 13:30   | Sunny  | O              | 20.9         | 0.04                  | 0                             | 1                         | 2                | Peter | Stall     |
| Ch1+360 - Ch1+513 | ン / 4/2022   | 8:30    | Sunny  | 0              | 20,5         | 0.04                  | 0                             | 1                         | 2                | Peter | Ats       |
| Ch1+360 - Ch1+513 | フィ /4/2022   | 13:30   | Survey   | 0              | 20.5         | 0.04                  | 0                             | /                         | 2                | Peter | RAL       |
| Ch1+360 - Ch1+513 | JS /4/2022   | 8:30    | Sura   | P              | 20.9         | 0.04                  | 0                             | 1                         | 2                | Peter | RAL       |
| Ch1+360 - Ch1+513 | 28 /4/2022   | 13:30   | Flan   | Ø              | 20.5         | 0.04                  | 0                             | /                         | 2                | Peter | MER       |
| Ch1+360 - Ch1+513 | ) / 4/2022   | 8:30    | Fin  | 0              | 208          | 0.04                  | 0                             | /                         | 2                | Peter | MAR       |
| Ch1+360 - Ch1+513 | 가 /4/2022    | 13:30   | Snany  | Ø              | 2019         | 0.04                  | 0                             | /                         | 2                | Peter | KIR       |
| Ch1+360 - Ch1+513 | }s /4/2022   | 8:30    | Surry  | 0              | 203          | 0.04                  | 0                             | /                         | 2                | Peter | AAR       |
| Ch1+360 - Ch1+513 | ¿° /4/2022   | 13:30   | Enny   | D              | 22.1         | 0.04                  | 0                             | /                         | 2                | Peter | AAR       |
| Ch1+360 - Ch1+513 | -/-4/-2022   | 8:30    | (  |                |              |                       |                               | /                         | 2                | Peter | >         |
| Ch1+360 - Ch1+513 | /-4/-2022    | 13:30   |  |                |              |                       |                               | /                         | 2                | Peter |           |
|                   |              |         |  |                |              |                       |                               |                           |                  |       |           |
|                   |              |         |  |                |              |                       |                               |                           |                  |       | ů.        |

Checked by:

Jan

Date

30/4/2022



# Appendix M

# **HOKLAS Laboratory Certificate**





Hong Kong Accreditation Service 香港認可處

# Certificate of Accreditation

認可證書

This is to certify that 特此證明

## **ACUMEN LABORATORY AND TESTING LIMITED**

浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong

香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 在認可諮詢委員會的建議下櫃香港認可處執行機關接受為

**HOKLAS Accredited Laboratory** 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

## **Environmental Testing**

此實驗所符合ISO/IEC 17025:2005所訂的要求 並獲認可進行載於認可範圍內下透測試類別中的指定測試或校正工作

### 環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-IAC-ISO Communique). 此樣 ISO/IEC 17025:2005 的簡可資格證明此實驗所證明表實驗所證明表例的技能能力益 實稿一套實驗所質重修理體系(是國際認可論確。國際實驗所證明表作相關及國際經歷化相關的關係公廳)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印意

WONG Wang-wan, Executive Administrator 執行幹事 黃宏華 Issue Date: 16 July 2014

簽發日期:二零一四年七月十六日

Registration Number: HOKLAS 241 註冊號碼:

Date of First Registration: 16 July 2014 首次註冊日期: 二零一四年七月十六日

L 001195

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書般報音樂說可盡訂立的傳起及標件發出



# Appendix N

Water Quality and Landfill Gas Equipment Calibration Certificate



# 專 業 化 驗 有 限 公 司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB030083

**Date of Issue** 

: 21 March 2022

Page No.

: 1 of 2

## **PART A - CUSTOMER INFORMATION**

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan

Kowloon (HK) Hong Kong

Attn:

#### **PART B - SAMPLE INFORMATION**

Name of Equipment:

HORIBA U-53

Manufacturer:

**HORIBA** 

Serial Number:

THAUKESL

Date of Received :

15 March 2022

Date of Calibration :

21 March 2022

Date of Next Calibration :

20 June 2022

## PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

Turbidity

APHA 21e 2130B

Dissolved oxygen

APHA 21e 4500 O APHA 21e 4500 H+

pH value Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

## **PART D - CALIBRATION RESULT**

## (1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT       |
|------------------------|-----------------------|---------------|--------------|
| 0                      | 0.01                  | "             | Satisfactory |
| 10                     | 10.0                  | 0.00          | Satisfactory |
| 20                     | 19.9                  | -0.50         | Satisfactory |
| 100                    | 104.5                 | 4.50          | Satisfactory |
| 800                    | 829                   | 3.63          | Satisfactory |

Tolerance of Turbidity should be less than  $\pm$  10.0 ( % )

## (2) Dissolved oxygen

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE (MG/L) | RESULT       |
|-------------------------|------------------------|------------------|--------------|
| 7.40                    | 7.41                   | 0.01             | Satisfactory |
| 3.71                    | 3.65                   | -0.06            | Satisfactory |
| 1.34                    | 1.11                   | -0.23            | Satisfactory |
| 0.42                    | 0.81                   | 0.39             | Satisfactory |

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

(3) pH value

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|------------------|---------------------------|-----------|--------|

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



# 專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB030083

**Date of Issue** 

: 21 March 2022

Page No.

: 2 of 2

| TARGET (PH UNIT) | DISPLAY READING ( PH UNIT ) | TOLERANCE | RESULT       |
|------------------|-----------------------------|-----------|--------------|
| 4.00             | 4.09                        | 0.09      | Satisfactory |
| 7.42             | 7.43                        | 0.01      | Satisfactory |
| 10.04            | 9.86                        | -0.15     | Satisfactory |

Tolerance of pH value should be less than ± 0.2 (pH unit)

### (4) Salinity

| EXPECTED READING ( G/L ) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT       |
|--------------------------|-----------------------|---------------|--------------|
| 10                       | 10.20                 | 2.00          | Satisfactory |
| 20                       | 19.58                 | -2.10         | Satisfactory |
| 30                       | 29.84                 | -0.53         | Satisfactory |

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

# (5) Temperature

| READING OF REF. THERMOMETER (°C) | DISPLAY READING (°C) | TOLERANCE (°C) | RESULT       |
|----------------------------------|----------------------|----------------|--------------|
| 14.5                             | 14.96                | 0.46           | Satisfactory |
| 24.5                             | 24.60                | . 0.10         | Satisfactory |
| 40.5                             | 39.07                | -1.43          | Satisfactory |

Tolerance of Temperature should be less than  $\pm 2.0$  (°C)

# Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
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- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB040025

Date of Issue

: 12 April 2022

Page No.

: 1 of 2

## PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan Kowloon (HK) Hong Kong

Attn:

## **PART B - SAMPLE INFORMATION**

Name of Equipment:

HORIBA U-53

Manufacturer:

HORIBA

Serial Number:

S2A98W8H

Date of Received:

08 April 2022 11 April 2022

Date of Calibration : Date of Next Calibration :

10 July 2022

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

Turbidity

APHA 21e 2130B

Dissolved oxygen

APHA 21e 4500 O

pH value

APHA 21e 4500 H+

Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

### PART D - CALIBRATION RESULT

# (1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT       |
|------------------------|-----------------------|---------------|--------------|
| 0                      | 0.00                  |               | Satisfactory |
| 10                     | 11.0                  | 10.0          | Satisfactory |
| 20                     | 19.5                  | -2.5          | Satisfactory |
| 100                    | 108                   | 8.0           | Satisfactory |
| 800                    | 795                   | -0.6          | Satisfactory |

Tolerance of Turbidity should be less than  $\pm$  10.0 (%)

# (2) Dissolved oxygen

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE (MG/L) | RESULT       |
|-------------------------|------------------------|------------------|--------------|
| 8.23                    | 8.39                   | 0.16             | Satisfactory |
| 5.61                    | 5.79                   | 0.18             | Satisfactory |
| 4.20                    | 4.36                   | 0.16             | Satisfactory |
| 0.15                    | 0.40                   | 0.25             | Satisfactory |

Tolerance of Dissolved oxygen should be less than  $\pm~0.5$  ( mg/L )

### (3) pH value

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT |
|------------------|---------------------------|-----------|--------|

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



# 專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB040025

**Date of Issue** 

: 12 April 2022

Page No.

: 2 of 2

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT       |
|------------------|---------------------------|-----------|--------------|
| 4.00             | 3.99                      | -0.01     | Satisfactory |
| 7.42             | 7.38                      | -0.04     | Satisfactory |
| 10.01            | 10.03                     | 0.02      | Satisfactory |

Tolerance of pH value should be less than  $\pm$  0.2 (pH unit)

## (4) Salinity

| EXPECTED READING (G/L) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT       |
|------------------------|-----------------------|---------------|--------------|
| 10                     | 10.19                 | 1.90          | Satisfactory |
| 20                     | 19.96                 | -0.20         | Satisfactory |
| 30                     | 28.49                 | -5.03         | Satisfactory |

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

# (5) Temperature

| READING OF REF. THERMOMETER ( °C ) | DISPLAY READING (°C) | TOLERANCE (°C) | RESULT       |
|------------------------------------|----------------------|----------------|--------------|
| 10                                 | 10.0                 | 0.0            | Satisfactory |
| 20                                 | 19.9                 | -0.1           | Satisfactory |
| 48                                 | 48.0                 | 0.0            | Satisfactory |

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C)

## Remark(s)

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--- END OF REPORT ---



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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB040069

**Date of Issue** 

: 26 April 2022

Page No.

: 1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan Kowloon (HK) Hong Kong

Attn:

# PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

22C106561

Date of Received:

21 April 2022

Date of Calibration:

21 April 2022

Date of Next Calibration:

20 July 2022

## PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

Turbidity

APHA 21e 2130B APHA 21e 4500 O

Dissolved oxygen pH value

APHA 21e 4500 H+

Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

# **PART D - CALIBRATION RESULT**

## (1) Turbidity

| EXPECTED READING (NTU) | DISPLAY READING (NTU) | TOLERANCE (%) | RESULT       |
|------------------------|-----------------------|---------------|--------------|
| 0                      | 0.08                  |               | Satisfactory |
| 10                     | 10.4                  | 4.0           | Satisfactory |
| 20                     | 20.13                 | 0.6           | Satisfactory |
| 100                    | 98.2                  | -1.8          | Satisfactory |
| 800                    | 803.19                | 0.4           | Satisfactory |

Tolerance of Turbidity should be less than  $\pm$  10.0 (%)

## (2) Dissolved oxygen

| EXPECTED READING (MG/L) | DISPLAY READING (MG/L) | TOLERANCE (MG/L) | RESULT       |
|-------------------------|------------------------|------------------|--------------|
| 8.23                    | 8.39                   | 0.16             | Satisfactory |
| 5.61                    | 5.79                   | 0.18             | Satisfactory |
| 4.20                    | 4.36                   | 0.16             | Satisfactory |
| 0.15                    | 0.40                   | 0.25             | Satisfactory |

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

## (3) pH value

|                    |                             |           | -      |
|--------------------|-----------------------------|-----------|--------|
| TARGET ( PH UNIT ) | DISPLAY READING ( PH UNIT ) | TOLERANCE | RESULT |

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB040069

Date of Issue

: 26 April 2022

Page No.

: 2 of 2

| TARGET (PH UNIT) | DISPLAY READING (PH UNIT) | TOLERANCE | RESULT       |
|------------------|---------------------------|-----------|--------------|
| 4.00             | 4.11                      | 0.11      | Satisfactory |
| 7.42             | 7.50                      | 0.08      | Satisfactory |
| 10.01            | 10.08                     | 0.07      | Satisfactory |

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

## (4) Salinity

| EXPECTED READING (G/L) | DISPLAY READING (G/L) | TOLERANCE (%) | RESULT       |
|------------------------|-----------------------|---------------|--------------|
| 10                     | 10.68                 | 6.80          | Satisfactory |
| 20                     | 21.55                 | 7.75          | Satisfactory |
| 30                     | 31.21                 | 4.03          | Satisfactory |

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

#### (5) Temperature

| READING OF REF. THERMOMETER (°C) | DISPLAY READING (°C) | TOLERANCE (°C) | RESULT       |
|----------------------------------|----------------------|----------------|--------------|
| 15.9                             | 15.6                 | -0.3           | Satisfactory |
| 24.0                             | 23.9                 | -0.1           | Satisfactory |
| 34.0                             | 33.7                 | -0.3           | Satisfactory |

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

# Remark(s)

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--- END OF REPORT ---

# Calibration Certificate

**Customer Name** 

PROMAT (HK) LTD

**Customer Details** 

SAN PO KONG KOWLOON HONG KONG

**Order Number** 

21000418

Acknowledgement Number 165921

Instrument

PS500

Serial number

254928

**Test Date** 

29 September 2021

This instrument has been manufactured in accordance with our ISO9001 approved procedures and conforms to the quality and manufacturing standards laid down in our process. This instrument has been calibrated using gases that are traceable to national standards.

# **CALIBRATION RESULTS**

| Gas Applied | Conc.      | Range | After Cal |
|-------------|------------|-------|-----------|
| CO2         | 3.00 % CO2 | 8     | 3.00 %    |
| Methane     | 50 % LEL   | LEL   | 50 %      |
| 02          | Air        | % VOL | 20.9 %    |
| H2S         | 50 PPM H2S | PPM   | 50 PPM    |
| co          | 500 PPM CO | PPM   | 499 PPM   |

Calibrated on behalf of GMI Ltd by:



# Appendix O

Exceedance Report(s)

# **Incident Report on Action Level or Limit Level Non-Compliance**

| Project  | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant   |                  |   |  |
|--|---|------------------|---|--|
| Date   | 7 April 2022 (Lab result received on 13 April 2022)   |                  |   |  |
| Time   | 08:00-11:30 (Mid-Flood) and 14:12-17:42 (Mid-Ebb)   |                  |   |  |
|  | Mid-Fl  | ood              |   |  |
| Monitoring Location                                      | WSR16, WSR37  HONG KONG ISLAND  Rig Wine Ray  | WSR WSR          | Clear Water Bay WSR33 R36 VSR4 VSR4  Tung Lung Chau | Key  Water Quality Monitoring Station  Resident and Stationary Control of Station Friend  Stationary Control of Stationary Control o |
| 7  |   |                  |   | 1 2  |
| Parameter  | Suspended Solid (SS)  | 1                | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1             |  |
| Action & Limit Levels                                    | Action Level  |                  | Limit Level   |  |
|  | > 5.2 mg/L  |                  | > 6.0  mg/L   |  |
| Measurement Level  | Impact Station(s) of  | Control Stations |   | Impact Station(s) without  |
|  | Exceedance  |                  |   | Exceedance   |
|  | 8.0 mg/L (WSR 16)   | 3.7 mg/L (CE)    |   | 4.0 mg/L (WSR 1)   |
|  | 6.5 mg/L (WSR 37)   | 4.3 mg/L (CI     | F)  | 4.3 mg/L (WSR 2)   |
|  |   |                  |   | 4.7 mg/L (WSR 3)   |
|  |   |                  |   | 5.0 mg/L (WSR 4)   |
|  |   |                  |   | 3.7 mg/L (WSR 33)  |
|  |   | <u> </u>         |   | 4.8 mg/L (WSR 36)  |
| Possible reason for Action or Limit Level Non-compliance | Outfall Shaft Area: marine operation inside the outfall ca  |                  | activities, nai                                     | mely 1) dewatering pump  |
|  | Intake Shaft Area: marine construction activities, namely 1) N/A  |                  |   |  |
|  | Marine construction activities with contact with water: 1) N/A  |                  |   |  |
|  | Marine vessels on 7 April 2022:   |                  |   |  |
|  | N/A (Intake Shaft)  |                  |   |  |
|  | N/A (Outfall Shaft)   |                  |   |  |
|  |   |                  |   |  |
|  | According to Agriculture, Fisheries and Conservation Department (AFCD), a red tide  |                  |   |  |
|  | was spotted by staff of the Marine Department on 6 April 2022 at Junk Bay (Tseung Kwan O). The red tide has dissipated on 8 April 2022.   |                  |   |  |
|  |   |                  |   |  |
|  | According to the information provide by Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 7 April 2022. Hence, the SS exceedances at WSR16 and WSR37 may be resulted from natural factors (red tide). |                  |   |  |

|  | According to the field observation by sampling team during sampling event, red tide was observed on 7 April 2022, photo record could be referring to supporting photo 9.   |  |   |  |
|--|--|--|---|--|
|  | Conditions of the protective silt curtain at the inland water outfall was satisfactory on 7 April 2022.  |  |   |  |
|  | Mid-F  | Ehh  |   |  |
| Monitoring Location                                      | WSR1, WSR2, WSR37  | 200  |   |  |
|  | HONG KONG ISLAND  Big Wave Bay   | Clear Water Bay WSR33 WSR36 WSR36 WSR36 Tung Lung Chau | Key  Wese Guality Monitoring Station  |  |
| Donomaton  | Sygnonded Solid (SS)   | <b>C</b> F 0   | Water Quality Monitoring Station  Water Quality Monitoring Station  Barmariand Site Decalitation Pilent  Staty area for align mitigation works  holicative Location of Sewarier Intale  Indicative Location of Statement Cuttal |  |
| Parameter Action & Limit Levels                          | Suspended Solid (SS)   | T :: 1   |   |  |
| Action & Limit Levels                                    | Action Level   | Limit Level  |   |  |
| Measurement Level  | > 5.1 mg/L Impact Station(s) of Exceedance   | > 6.0 mg/L  <br>  Control Stations                     | Impact Station(s) without Exceedance  |  |
|  | 6.2 mg/L (WSR 1)<br>6.7 mg/L (WSR 2)<br>5.8 mg/L (WSR 37)  | 4.3 mg/L (CE)<br>4.8 mg/L (CF)                         | 4.0 mg/L (WSR 3)<br>2.8 mg/L (WSR 4)<br>3.9 mg/L (WSR 16)<br>3.7 mg/L (WSR 33)<br>4.7 mg/L (WSR 36)   |  |
| Possible reason for Action or Limit Level Non-compliance | Outfall Shaft Area: marine operation inside the outfall care.  |  | amely 1) dewatering pump  |  |
|  | Intake Shaft Area: marine co   | nstruction activities, namely                          | 1) N/A  |  |
|  | Marine construction activities with contact with water: 1) N/A  Marine vessels on 7 April 2022:  N/A (Intake Shaft)  N/A (Outfall Shaft)  According to Agriculture, Fisheries and Conservation Department (AFCD), a red tide was spotted by staff of the Marine Department on 6 April 2022 at Junk Bay (Tseung Kwan O). The red tide has dissipated on 8 April 2022. |  |   |  |
|  |  |  |   |  |
|  |  |  |   |  |
|  | According to the information provide by Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 7 April 2022. Hence, the SS exceedances at WSR1, WSR2 and WSR37 may be resulted from natural factors (red tide).   |  |   |  |

According to the field observation by sampling team during sampling event, red tide was observed on 7 April 2022, photo record could be referring to supporting photo 9. Conditions of the protective silt curtain at the inland water outfall was satisfactory on 7 April 2022. Remarks Current direction during mid-flood sampling on 7 April 2022: Clear Water Bay Country Park LOHAS PARK 日出康城 J TONG 油塘 郊野公園 Junk Bay 將軍澳 TSEUNG KWAN O INDUSTRIAL ESTATE 將軍澳工業邨 WAN SIU SAI WAN 小西灣 Tung Lung Chau 東龍洲 Current direction during mid-ebb sampling on 7 April 2022: Clear Water Bay Country Park J TONG 油塘 LOHAS PARK 日出康城 dunk Bay 將軍澳 TSEUNG KWAN O INDUSTRIAL ESITATE 將軍澳工業邨 WAN SIU SAI WAN Tung Lung Chau 東龍洲



(Sourced from <a href="http://current.hydro.gov.hk/en/map.html">http://current.hydro.gov.hk/en/map.html</a>)

Supporting Photo 1 (Sea Conditions at WSR1)



Supporting Photo 2 (Sea Conditions at WSR2)

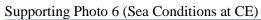




















# Supporting Photo 10 (Supporting Document Provided by Main Contractor)



wed 13/4/2022 7:26 pm 甘忠校 <chunghau\_kam@cohl.com>

RE: Contract No. 13/WSD/17 - Notification of Exceedance of Water Quality Monitoring (07/04/2022)

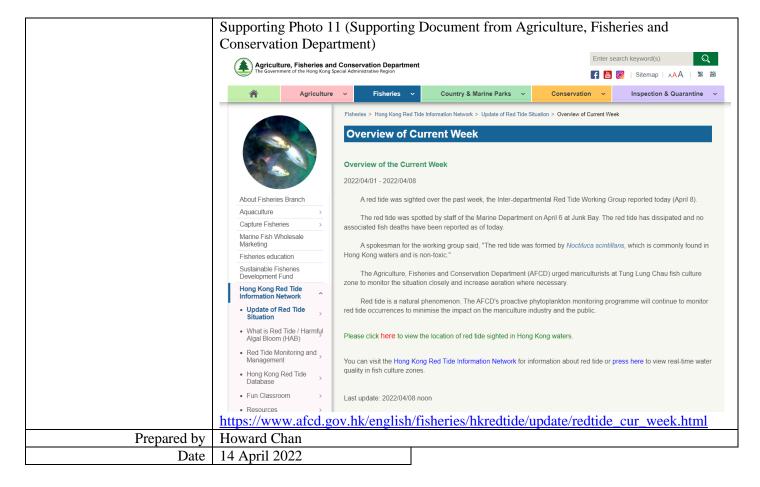
ASCL Howard Chan

「Binnies-Roger Wu<CRE>'; 'Binnies-David Wong<SRE.Gen./Mea.>'; 'Binnies-Lorinda Lee<SRE.Civil>'; 'Binnies-POON Ying-kok<RE.Safety/Env.>'; 'Binnies-Raymond Kok<RE.BIM/BEAM>'; 'BV-Shirley Cheng<RE.IT/Perm./PR>'; 'Binnies-Image Yeung<ARE.Safety>'; 'Binnies-Derek Lai<ARE.Env.>'; 'Binnies-Vanessa Leung<ARE.Geo.>'; 'Kevin Li'; 'Jacky C H Leung'; 'Reasonile Cheng'; ftsang@acultyhk.com'; 'ames Choi'; 'ameg Cho

Dear Howard,

Please be advised that we did not have marine vessels & works at Intake and Outfall Shaft areas on the day. We did keep the dewatering pump operational to maintain the water level inside the outfall caisson but no construction activities inside.

Regards, Brian



| Project   | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant  |  |  |  |
|---|--|--|--|--|
| Date  | 9 April 2022 (Lab result received on 14 April 2022)  |  |  |  |
| Time  | 08:00-11:30 (Mid-Flood) and 13:52-17:22 (Mid-Ebb)  |  |  |  |
|   | Mid-Ebb  |  |  |  |
| Monitoring Location   | WSR3  HONG KONG ISLAND  Tai Tam  Big Rive Big Store  | Clear Water Bay WSR36 WSR36 WSR36 WSR4  WSR36 Tung Lung Chau | Key  Woor Quality Monitoring Station  Water Quality Monitoring Station  Wa |  |
| Parameter   | Suspended Solid (SS)   | ē  | (Idensitys Location of Seweris Intale    District   Continue   Continue   Continue   |  |
| Action & Limit Levels                                       | Action Level   | Limit Level  |  |  |
|   | > 5.0 mg/L   | > 6.0 mg/L   |  |  |
| Measurement Level   | Impact Station(s) of Exceedance  | Control Stations   | Impact Station(s) without Exceedance   |  |
|   | 5.1 mg/L (WSR 3)   | 2.9 mg/L (CE)<br>3.3 mg/L (CF)                               | 3.1 mg/L (WSR 1)<br>3.7 mg/L (WSR 2)<br>3.7 mg/L (WSR 4)<br>3.6 mg/L (WSR 16)<br>4.5 mg/L (WSR 33)<br>2.6 mg/L (WSR 36)<br>4.3 mg/L (WSR 37)   |  |
| Possible reason for Action or<br>Limit Level Non-compliance | Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson   |  |  |  |
|   | Intake Shaft Area: marine construction activities, namely 1) N/A  Marine construction activities with contact with water: 1) N/A   |  |  |  |
|   | <ul> <li>Marine vessels on 9 April 2022:</li> <li>N/A (Intake Shaft)</li> <li>N/A (Outfall Shaft)</li> <li>Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from Southwest to Northeast at waters to the east side of Tit Cham Chau.</li> <li>Station WSR 3 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR3 (5.1 mg/L). According to the information provided by the Contactor, no marine construction activity with contact with water was conducted at</li> </ul> |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |

Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 9 April 2022. Hence, the SS exceedances at WSR3 may be resulted from natural factors.

According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 9 April 2022.

Conditions of the protective silt curtain at the inland water outfall was satisfactory on 9 April 2022.

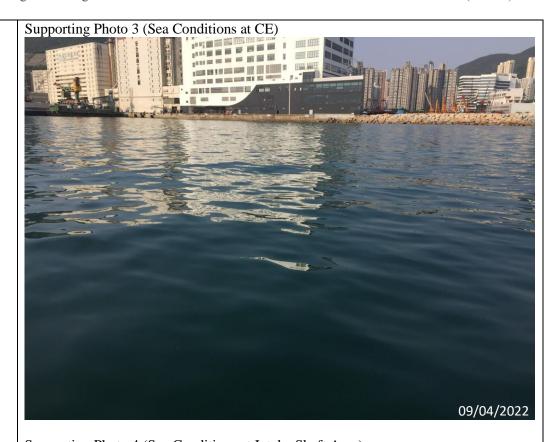
Remarks



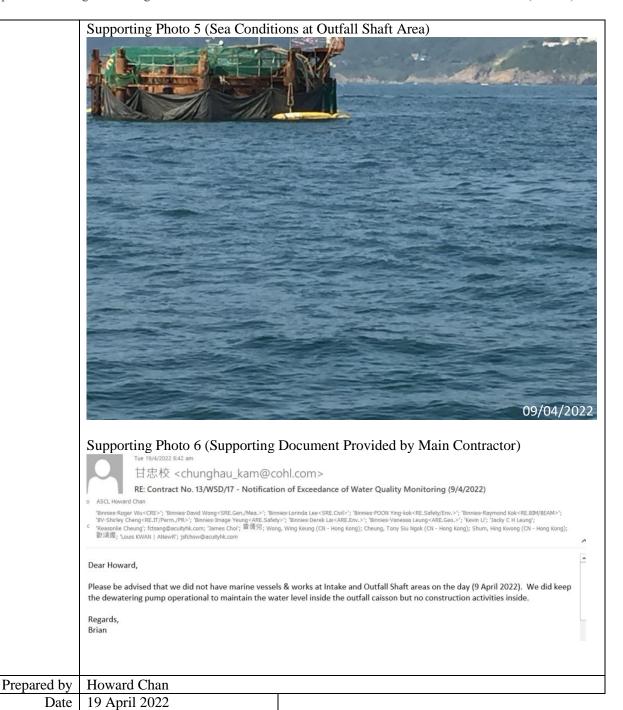
(Sourced from <a href="http://current.hydro.gov.hk/en/map.html">http://current.hydro.gov.hk/en/map.html</a>)





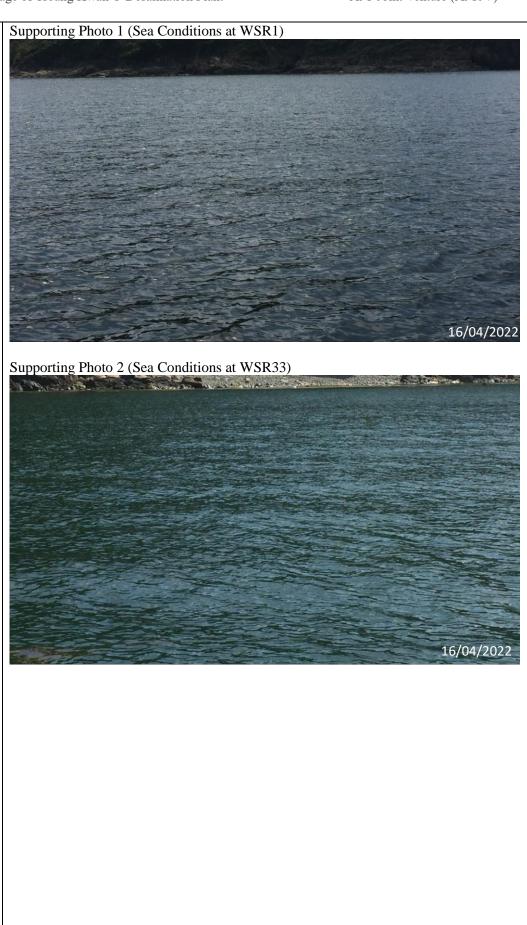






| Project   | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant  |   |  |  |
|---|--|---|--|--|
| Date  | 16 April 2022 (Lab result received on 22 April 2022)   |   |  |  |
| Time  | 15:20-18:50 (Mid-Flood) and 10:21-13:51 (Mid-Ebb)  |   |  |  |
|   | Mid-Ebb  |   |  |  |
| Monitoring Location   | WSR1, WSR33, WSR36   |   |  |  |
|   | HONG KONG ISLAND  Tai Tam  Big Wave Boy  | WSR3  | Clear Water Bay WSR4  WSR4  Tung Lung Chau                                     |  |
| Parameter   | Suspended Solid (SS)   | <b>A</b>  | · K  | Wester Quality Monitoring Station  Water Quality Monitoring Station  Examinated 6the for Desalfration Plant  Study area for slape miligation works  Includes Location of Studymarine Quited  Includes Location of Studymarine Quited |
|   | •  |   | T 114 T1   |  |
| Action & Limit Levels                                       | Action Level > 5.2 mg/L  |   | Limit Level > 6.0 mg/L   |  |
| Measurement Level   | Impact Station(s) of Exceedance 6.3 mg/L (WSR 1) 7.5 mg/L (WSR 33) 5.8 mg/L (WSR 36)   | Control Statio<br>4.3 mg/L (CE<br>5.2 mg/L (CF  | ons<br>E)  | Impact Station(s) without<br>Exceedance<br>4.2 mg/L (WSR 2)<br>5.0 mg/L (WSR 3)<br>4.8 mg/L (WSR 4)<br>4.7 mg/L (WSR 16)<br>5.1 mg/L (WSR 37)  |
| Possible reason for Action or<br>Limit Level Non-compliance | Outfall Shaft Area: marine operation inside the outfall call Intake Shaft Area: marine construction activities.  Marine construction activities.  Marine vessels on 16 April 20  N/A (Intake Shaft)  N/A (Outfall Shaft)  Dominating sea current direct to the west side of Tit Cham Tit Cham Chau.  Station WSR1 was located disaffected by marine construction however observed at WSR1 (Contactor, no marine construction outfall Shaft (WSR37) and I | nisson  nstruction active s with contact v  022:  tion was found Chau; and from stant from the color activities w  (6.3 mg/L). Accuction activity | to be from Norten West to East construction site cording to the with contact w | hwest to Southeast at waters at waters to the east side of and the possibility of being limited. SS exceedance was information provided by the with water was conducted at   |

were however observed at WSR33 (7.5 mg/L) and WSR36 (5.8mg/L). Hence, the SS exceedances at WSR3, WSR33 and WSR36 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 16 April 2022. Conditions of the protective silt curtain at the inland water outfall was satisfactory on 16 April 2022. Remarks Current direction during mid-ebb sampling on 16 April 2022: Clear Water Bay Country Park LOHAS PARK ONG 日出康城 Junk Bay 將軍澳 TSEUNG KWAN O INDUSTRIAL ESTATE 將軍澳工業邨 SIU SAI WAN Tung Lung Chau 東龍洲 Speed (knot) Speed (knot) 0-0.5 1.5-2.0 0.5-1.0 2.0-2.5 1.0-1.5 2.5 and above (Sourced from <a href="http://current.hydro.gov.hk/en/map.html">http://current.hydro.gov.hk/en/map.html</a>)





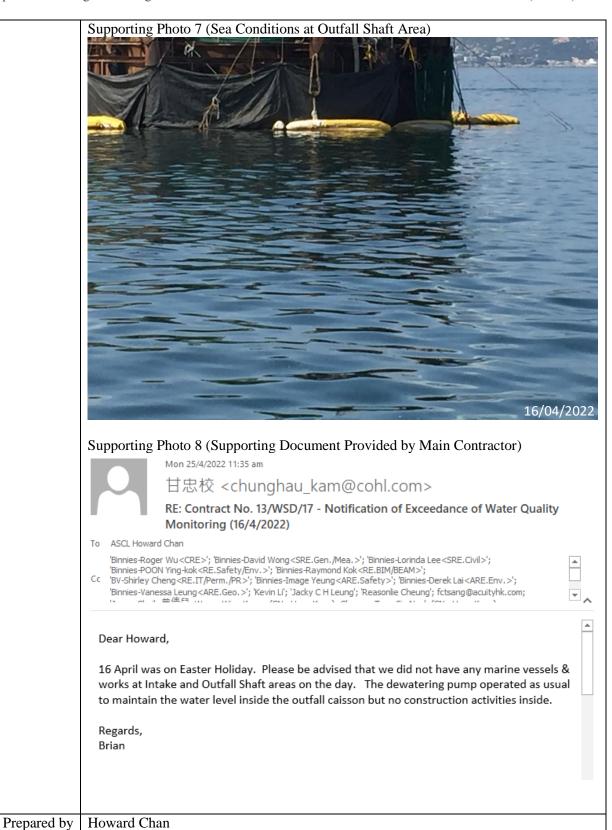




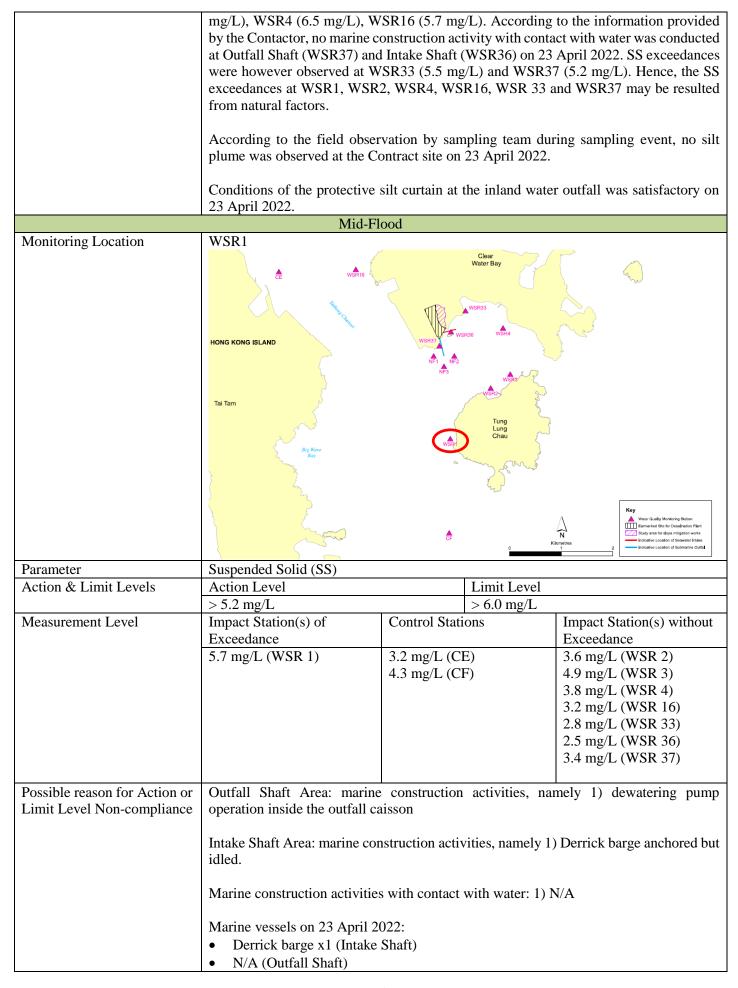


Date

25 April 2022



| Project                       | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant   |   |  |  |
|-------------------------------|---|---|--|--|
| Date                          | 23 April 2022 (Lab result received on 29 April 2022)  |   |  |  |
| Time                          | 08:45-12:15 (Mid-Flood) and 16:15-19:00 (Mid-Ebb)   |   |  |  |
|                               | Mid-Ebb   |   |  |  |
| Monitoring Location           | WSR1, WSR2, WSR4, WSR16, WSR33, WSR37   |   |  |  |
|                               | HONG KONG ISLAND  | Clear Water Bay  WSR33  WSR36  WSR3  WSR3  WSR3  WSR3 |  |  |
| Parameter                     | Suspended Solid (SS)  | Tung<br>Lung<br>Chau                                  | Key  Wese Quelty Monitoring Station  Elemented Site for Deadhurton Plant  Study are for siting intigration works  Killonethes  1 2  Indicative Location of Scampin Intige  Indicative Location Intige  Indicative Location Intige  Indicative Location Intige  Indicative Location Intige  Inti |  |
|                               | •   | Timit I and   |  |  |
| Action & Limit Levels         | Action Level  | Limit Level   |  |  |
| Measurement Level             | > 5.0 mg/L  | > 6.0 mg/L Control Stations                           | Impact Station(s) without  |  |
| Measurement Level             | Impact Station(s) of Exceedance   | Control Stations                                      | Impact Station(s) without Exceedance   |  |
|                               | 6.2 mg/L (WSR 1)  | 3.3 mg/L (CE)   | 3.8 mg/L (WSR 3)   |  |
|                               | 5.5 mg/L (WSR 2)  | 3.9 mg/L (CF)   | 3.8 mg/L (WSR 36)  |  |
|                               | 6.5 mg/L (WSR 4)  | 3.9 Hig/L (CF)  | 3.8 Hg/L (W3K 30)  |  |
|                               | 5.7 mg/L (WSR 16)   |   |  |  |
|                               |   |   |  |  |
|                               | 5.5 mg/L (WSR 33)   |   |  |  |
|                               | 5.2 mg/L (WSR 37)   |   |  |  |
| Danilla manage for Antique    | Ont full Clark American   |   |  |  |
| Possible reason for Action or |   |   | amely 1) dewatering pump   |  |
| Limit Level Non-compliance    | operation inside the outfall ca   | aisson  |  |  |
|                               | Intake Shaft Area: marine construction activities, namely 1) Derrick barge anchored but idled.  |   |  |  |
|                               | Marine construction activities with contact with water: 1) N/A  |   |  |  |
|                               | Marine vessels on 23 April 2022:  |   |  |  |
|                               | <ul> <li>Warme vessels on 23 April 2022.</li> <li>Derrick barge x1 (Intake Shaft)</li> <li>N/A (Outfall Shaft)</li> </ul>   |   |  |  |
|                               |   |   |  |  |
|                               |   |   |  |  |
|                               | Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from West to East at waters to the east side of Tit Cham Chau.                      |   |  |  |
|                               | Stations WSR1, WSR2, WSR4, WSR16 were located distant from the cons and the possibility of being affected by marine construction activities was limited. SS exceedances were however observed at WSR1 (6.2 mg/L), |   |  |  |



Dominating sea current direction was found to be from Southwest to Northeast at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau.

Station WSR1 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR1 (6.2 mg/L). According to the information provided by the Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 23 April 2022. Hence, the SS exceedance at WSR1 may be resulted from natural factors.

According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 23 April 2022.

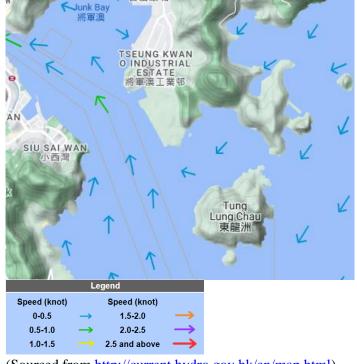
Conditions of the protective silt curtain at the inland water outfall was satisfactory on 23 April 2022.

Remarks

Current direction during mid-ebb sampling on 23 April 2022:

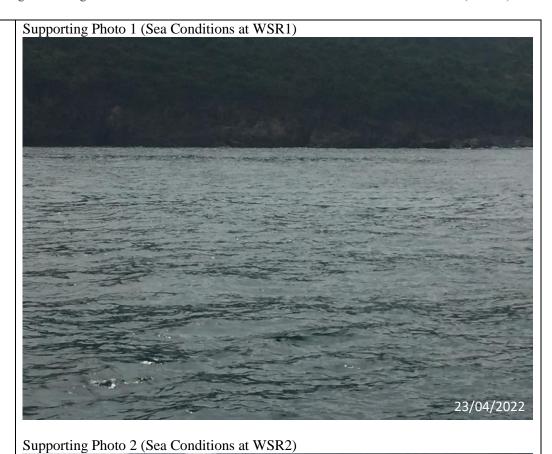


Current direction during mid-flood sampling on 23 April 2022:



(Sourced from http://current.hydro.gov.hk/en/map.html)

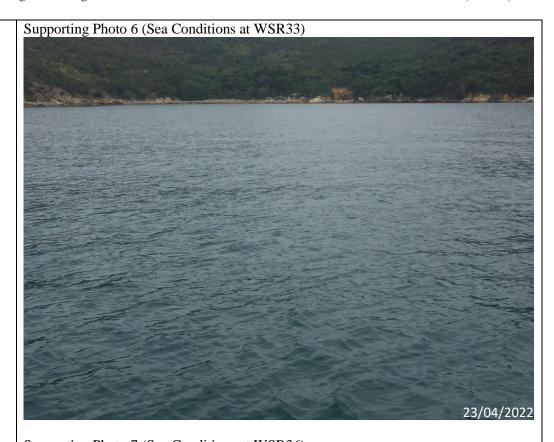
23/04/2022



















Supporting Photo 11 (Sea Conditions at Intake Shaft Area)





## Supporting Photo 13 (Supporting Document Provided by Main Contractor)



Fri 29/4/2022 5:09 pm

甘忠校 <chunghau\_kam@cohl.com>

RE: Contract No. 13/WSD/17 - Notification of Exceedance of Water Quality Monitoring (23/4/2022)

To ASCI Howard Chan

Binnies-Roger Wu<CRE>; Binnies-David Wong<SRE.Gen./Mea.>; Binnies-torinda Lee<SRE.Civil>; Binnies-POON Ying-tok<RE.Safety/Env.>; Binnies-Poon Ying-tok<RE.EII/Perm./PR>; Binnies-Raymond Kok<RE.BIN/BEAM>; BV.Shirley Cheng<RE.EII/Perm./PR>; Binnies-Image Yeung<br/>
Garage Yeung<br/>
Garage ARE.Safety>; Binnies-Derek Lai<ARE.Env.>; Binnies-Ames Leung<br/>
ARE.Geo.>; Yew In 'J. 'Jacky CH Leung'; Reasonie Cheung'; fetsagnie Argumentation (Bergil, Young, Wing Keung (CN - Hong Kong); Cheung, Tony Siu Ngok (CN - Hong Kong); Shum, Hing Kwong (CN - Hong Kong); Binnies-Michelle Cheung<br/>
Garage Yeung<br/>
Ga

Please find below details of marine activities on 23 April 2022 for your investigation.

#### Intake Shaft

Vessel/ plant & number : Derrick barge x 1

#### Works activities :

Derrick barge anchored but idled. No work activities at the Shaft area on the day

### Outfall Shaft

Vessel/ Plant & number : Nil

### Works Activities:

No work activities at Outfall Shaft areas on the day, while the dewatering pump kept operational to maintain the water level inside the outfall caisson

Regards, Brian

## Prepared by

Howard Chan

Date

3 May 2022

| Project  | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant  |   |  |  |
|--|--|---|--|--|
| Date   | 26 April 2022 (Lab result received on 3 May 2022)  |   |  |  |
| Time   | 12:59-16:29 (Mid-Flood) and 08:00-11:24 (Mid-Ebb)  |   |  |  |
|  | Mid-Ebb  |   |  |  |
| Monitoring Location  | WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37   |   |  |  |
| Womening Escation  | HONG KONG ISLAND  Tai Tam  Big Wave Ray  | Clear Water Bay WSR33 NSR3 Tung Lung Chau |  |  |
| D  |  | <b>₫</b>                                  | Key  Wester Quality Movidating Station  Water Desality Movidating Station  Water Desality Movidating Station  Station Station of Station and Station  Includes Location of Stationary Inside  Indicative Location of Stationary County  Indicati |  |
| Parameter  | Suspended Solid (SS)   | 1   |  |  |
| Action & Limit Levels  | Action Level   | Limit Leve                                |  |  |
|  | > 5.2 mg/L   | > 6.0 mg/L                                |  |  |
| Measurement Level  | Impact Station(s) of   | Control Stations                          | Impact Station(s) without  |  |
|  | Exceedance   |   | Exceedance   |  |
|  | 7.3 mg/L (WSR 1)   | 4.3 mg/L (CE)                             |  |  |
|  | 7.0 mg/L (WSR 2)   | 5.5 mg/L (CF)                             |  |  |
|  | 6.0 mg/L (WSR 3)   |   |  |  |
|  | 6.7 mg/L (WSR 4)   |   |  |  |
|  | 6.8 mg/L (WSR 16)  |   |  |  |
|  | 6.8 mg/L (WSR 33)  |   |  |  |
|  | 5.7 mg/L (WSR 36)  |   |  |  |
|  | 5.9 mg/L (WSR 37)  |   |  |  |
|  |  |   |  |  |
| Possible reason for Action or<br>Limit Level Non-compliance                      | Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson   |   |  |  |
|  | Intake Shaft Area: marine construction activities, namely 1) Derrick barge anchored, having preparation works within the hopper of barge before the TBM retrieval                                      |   |  |  |
|  | Marine construction activities with contact with water: 1) N/A   |   |  |  |
|  | Marine vessels on 26 April 2022:  Dorrick barge v1 (Inteks Shoft)  |   |  |  |
| <ul> <li>Derrick barge x1 (Intake Shaft)</li> <li>N/A (Outfall Shaft)</li> </ul> |  |   |  |  |
|  | Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from Northwest to Southeast at waters to the east side of Tit Cham Chau. |   |  |  |
|  | l  |   |  |  |

Stations WSR1, WSR2, WSR3, WSR4, WSR16 were located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedances were however observed at WSR1 (7.3 mg/L), WSR2 (7.0 mg/L), WSR3 (6.0 mg/L), WSR4 (6.7 mg/L), WSR16 (6.8 mg/L). According to the information provided by the Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 26 April 2022. SS exceedances were however observed at WSR33 (6.8 mg/L), WSR36 (5.7 mg/L) and WSR37 (5.9 mg/L). Hence, the SS exceedances at WSR1, WSR2, WSR3, WSR4, WSR16, WSR 33, WSR36 and WSR37 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 26 April 2022. Conditions of the protective silt curtain at the inland water outfall was satisfactory on 26 April 2022. Mid-Flood WSR1, WSR33, WSR36, WSR37 Monitoring Location HONG KONG ISLAND Parameter Suspended Solid (SS) Action & Limit Levels Action Level Limit Level > 5.2 mg/L> 6.0 mg/LImpact Station(s) of Measurement Level **Control Stations** Impact Station(s) without Exceedance Exceedance 6.3 mg/L (WSR 1) 3.6 mg/L (WSR 2) 3.6 mg/L (CE) 7.2 mg/L (WSR 33) 4.3 mg/L (CF) 3.6 mg/L (WSR 3) 8.2 mg/L (WSR 36) 3.4 mg/L (WSR 4) 6.5 mg/L (WSR 37) 4.2 mg/L (WSR 16) Possible reason for Action or Outfall Shaft Area: marine construction activities, namely 1) dewatering pump Limit Level Non-compliance operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge anchored, having preparation works within the hopper of barge before the TBM retrieval Marine construction activities with contact with water: 1) N/A Marine vessels on 26 April 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft)

Dominating sea current direction was found to be from Southeast to Northwest at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau.

Station WSR1 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR1 (6.3 mg/L). According to the information provided by the Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 26 April 2022. SS exceedances were however observed at WSR33 (7.2 mg/L), WSR36 (8.2 mg/L) and WSR37 (6.5 mg/L). Hence, the SS exceedances at WSR1, WSR 33, WSR36 and WSR37 may be resulted from natural factors.

According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 26 April 2022.

Conditions of the protective silt curtain at the inland water outfall was satisfactory on 26 April 2022.

Remarks

Current direction during mid-ebb sampling on 26 April 2022:



Current direction during mid-flood sampling on 26 April 2022:



Page 3 of 10

26/04/2022





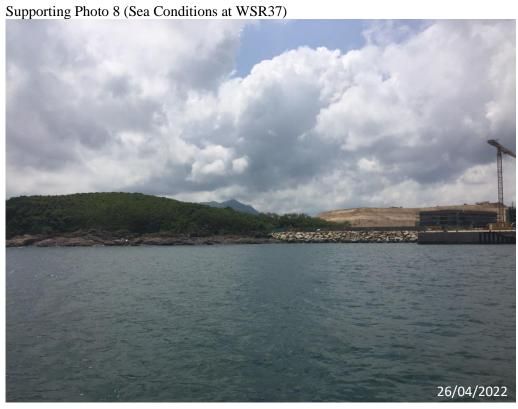
Supporting Photo 4 (Sea Conditions at WSR4)



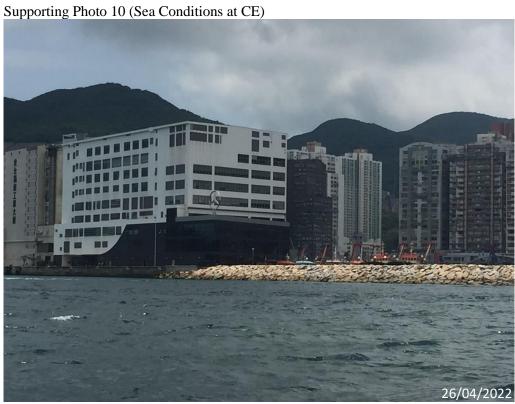


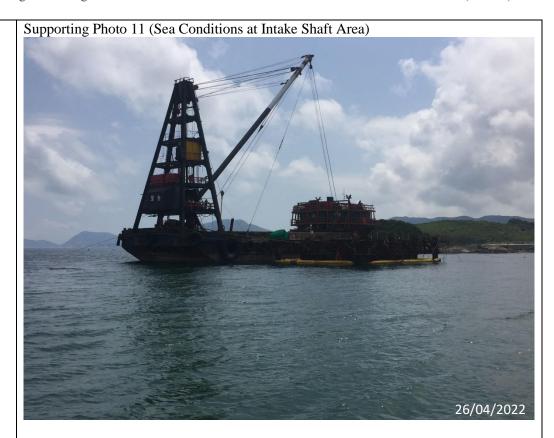














|             | Supporting Photo 13 (Supporting Document Provided by Main Contractor)  Tue 3/5/2022 6:18 pm  甘忠校 < chunghau_kam@cohl.com> RE: Contract No. 13/WSD/17 - Notification of Exceedance of Water Quality Monitoring (26/4/2022)  3 ASCL Howard Chan  Binnies-Ager Wu <cre>? Binnies-David Wong? Binnies-Inmage Yeung? Binnies-Inmage Yeung? Binnies-Dorn Ying 4ok?  Binnies-Ager Bus (ARE.BM/BEAM&gt;? Binnies-David Wong (SRE.Gen.Mea.&gt;?) Binnies-Inmage Yeung? Binnies-Dorn's Laik ARE.Env.&gt;?  Binnies-Agersa Leung? Wong, Wing Keung (CN - Hong Kong); Palma, Pinnies-Vernage Acuthylic.com; James Cho?; Binnies-David Laik ARE.Env.&gt;?  Binnies-Agersa Leung? Binnies-Dorn's Laik ARE.Env.&gt;?  Binnies-Agersa Leung? Binnies-Dorn's Laik ARE.Env.&gt;?  Binnies-Agersa Leung? Binnies-Dorn's Laik ARE.Env.&gt;?  Binnies-Agersa Binnies-Agersa Chora, Palma, Pinny Kong (CN - Hong Kong); Binnies-Jona Chora, Sung /cre> |
|-------------|--|
| D 11        |  |
| Prepared by | Howard Chan  |
| Date        | 4 May 2022   |

| Date 2 Time 1  Monitoring Location V  | 28 April 2022 (Lab result recent 15:00-18:30 (Mid-Flood) and Mid-EWSR2, WSR3  | 09:17-12:47 (Mid-Ebb)                         |  |
|---|---|---|--|
| Monitoring Location V   | Mid-E<br>WSR2, WSR3   | bb  |  |
|   | WSR2, WSR3  | Clear   |  |
|   | WSR16 WSR16   |   |  |
|   | Tai Tam  Rig Wave Ray   | WSR37 NF3 WSR3 Tung Lung Chau                 | Key  |
| Parameter S   | Suspended Solid (SS)  | <b>Č</b> F KI                                 | Water Quality Monitoring Station   |
|   | Action Level  | Limit Level                                   |  |
| <u> </u>  | > 5.0 mg/L  | > 6.0 mg/L                                    |  |
| <u> </u>  | Impact Station(s) of Exceedance 7.5 mg/L (WSR 2) 9.0 mg/L (WSR 3)   | Control Stations  2.9 mg/L (CE) 5.5 mg/L (CF) | Impact Station(s) without<br>Exceedance  2.6 mg/L (WSR 1) 3.0 mg/L (WSR 4) 3.3 mg/L (WSR 16) 2.9 mg/L (WSR 33) 3.6 mg/L (WSR 36) 4.5 mg/L (WSR 37) |
| Limit Level Non-compliance  I to the second | Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson  Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft during morning  Marine construction activities with contact with water: 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft during morning  Marine vessels on 28 April 2022:  Derrick barge x1 (Intake Shaft)  N/A (Outfall Shaft)  Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from Northwest to Southeast at waters to the east side of Tit Cham Chau.  Stations WSR2 and WSR3 were located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedances were however observed at WSR2 (7.5 mg/L) and WSR3 (9.0 mg/L). |   |  |

According to the information provided by the Contactor, marine construction activity

with contact with water was conducted at Intake Shaft (WSR36) on 28 April 2022. No SS exceedance was observed at WSR36 (3.6 mg/L) and WSR37 (4.5mg/L). Hence, the SS exceedances at WSR2 and WSR3 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 28 April 2022. Conditions of the protective silt curtain at the inland water outfall was satisfactory on 28 April 2022. Mid-Flood Monitoring Location WSR1, WSR33, WSR36, WSR37 HONG KONG ISLAND Parameter Suspended Solid (SS) Action & Limit Levels Action Level Limit Level > 5.0 mg/L> 6.0 mg/LImpact Station(s) of Impact Station(s) without Measurement Level **Control Stations** Exceedance Exceedance 5.2 mg/L (WSR 1) 3.6 mg/L (CE) 3.5 mg/L (WSR 2) 16.2 mg/L (WSR 33) 4.3 mg/L (CF) 4.1 mg/L (WSR 3) 13.3 mg/L (WSR 36) 3.3 mg/L (WSR 4) 7.6 mg/L (WSR 37) 3.3 mg/L (WSR 16) Possible reason for Action or Outfall Shaft Area: marine construction activities, namely 1) dewatering pump Limit Level Non-compliance operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Trial was stopped for pipe adjustments during afternoon Marine construction activities with contact with water: 1) N/A Marine vessels on 28 April 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) Dominating sea current direction was found to be from South to North at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau.

Station WSR1 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR1 (5.2 mg/L). According to the information provided by the Contactor, no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) and Intake Shaft (WSR36) on 28 April 2022 afternoon. SS exceedances were however observed at WSR33 (16.2 mg/L), WSR36 (13.3 mg/L) and WSR37 (7.6 mg/L). WSR33 was located upstream during mid-flood tide, SS exceedance was observed and higher than downstream monitoring stations WSR36 and WSR37. Hence, the SS exceedances at WSR1, WSR 33, WSR36 and WSR37 may be resulted from natural factors.

According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 28 April 2022.

Conditions of the protective silt curtain at the inland water outfall was satisfactory on 28 April 2022.

Remarks

Current direction during mid-ebb sampling on 28 April 2022:



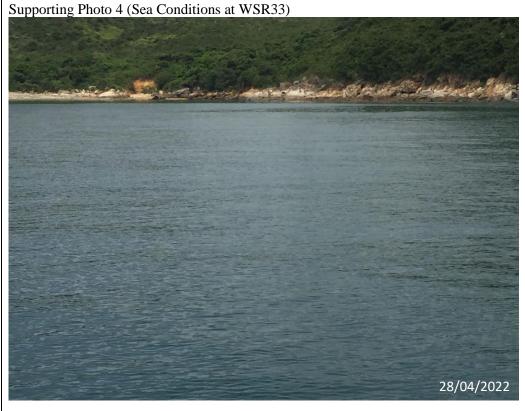
Current direction during mid-flood sampling on 28 April 2022:









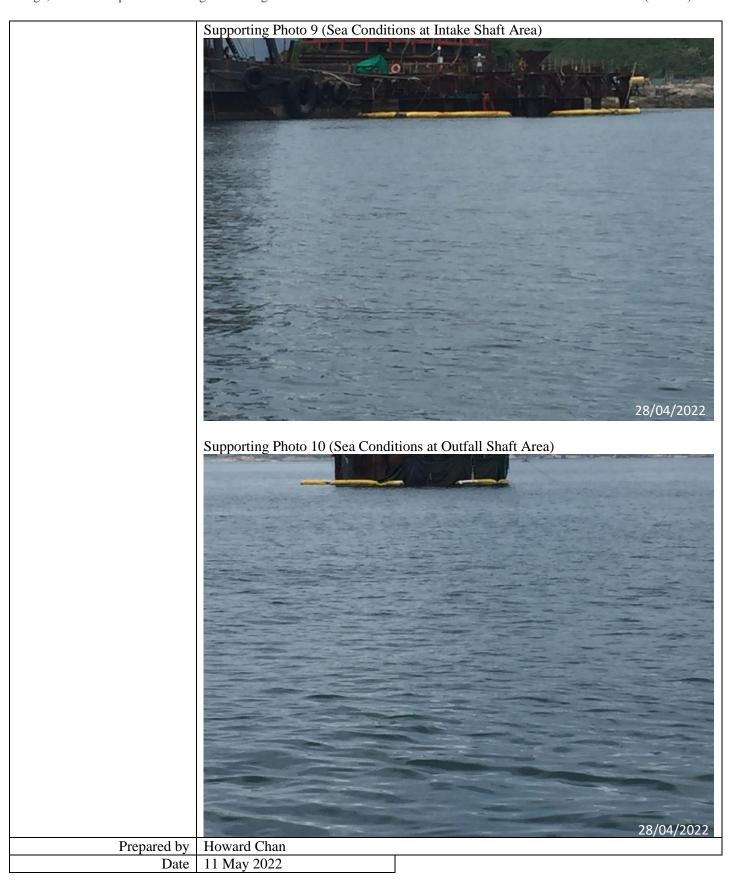












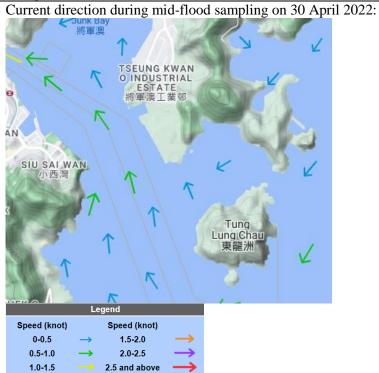
| Project                       | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant  |   |   |  |
|-------------------------------|--|---|---|--|
| Date                          | 30 April 2022 (Lab result received on 7 May 2022)  |   |   |  |
| Time                          | 15:20-18:50 (Mid-Flood) and 10:23-13:53 (Mid-Ebb)  |   |   |  |
|                               | Mid-Flood  |   |   |  |
| Monitoring Location           | Mid-FI WSR3  HONG KONG ISLAND  Tai Tam   | Clear Water Bay  WSR33  WSR37  NF1  NF2  WSR36  WSR3  Tung Lung Lung Chau |   |  |
| Parameter                     | Suspended Solid (SS)   | <b>Ĉ</b> F  | Key   Visior Quality Monitoring Station |  |
| Action & Limit Levels         | Action Level   | Limit Level   |   |  |
| Action & Limit Levels         | > 5.6 mg/L   | > 6.1 mg/L  |   |  |
| Measurement Level             | Impact Station(s) of   | Control Stations  | Impact Station(s) without               |  |
| Wicusarement Ecver            | Exceedance   | Control Stations  | Exceedance                              |  |
|                               | 6.7 mg/L (WSR 3)   | 3.9 mg/L (CE)   | 5.2 mg/L (WSR 1)                        |  |
|                               | 0.7 mg E (WSR 3)   | 4.7 mg/L (CF)   | 3.9 mg/L (WSR 2)                        |  |
|                               |  | , mg/2 (e1)   | 3.5 mg/L (WSR 4)                        |  |
|                               |  |   | 3.9 mg/L (WSR 16)                       |  |
|                               |  |   | 5.2 mg/L (WSR 33)                       |  |
|                               |  |   | 5.0 mg/L (WSR 36)                       |  |
|                               |  |   | 3.2 mg/L (WSR 37)                       |  |
| Possible reason for Action or | Outfall Shaft Area: marine   | e construction activities, na   |   |  |
| Limit Level Non-compliance    | operation inside the outfall ca  | aisson  |   |  |
|                               | Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting the pipeline fixings. |   |   |  |
|                               | Marine construction activities with contact with water: 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting the pipeline fixings.   |   |   |  |
|                               | Marine vessels on 30 April 2022:  Derrick barge x1 (Intake Shaft)  |   |   |  |
|                               |  |   |   |  |
|                               | <ul> <li>Derrick barge x1 (Intake Shaft)</li> <li>N/A (Outfall Shaft)</li> </ul>   |   |   |  |
|                               | Dominating sea current direction was found to be from Southeast to Northwest at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau.       |   |   |  |

Station WSR3 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR3 (6.7 mg/L). According to the information provided by the Contactor, marine construction activity with contact with water was conducted at Intake Shaft (WSR36) on 30 April 2022, however, no SS exceedance was observed at monitoring station WSR36 (5.0 mg/L). Hence, the SS exceedances at WSR3 may be resulted from natural factors.

According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 30 April 2022.

Conditions of the protective silt curtain at the inland water outfall was satisfactory on 30 April 2022.

Remarks



2.5 and above





